

## Professor Ashok Pandey, *DPhil, FBRs, FNASc, FIOBB, FIEES, FAMI*



Eminent Scientist  
Center of Innovative & Applied Bioprocessing  
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**Immediate Past Affiliation:** *Chief Scientist & Head, Centre for Biofuels & Biotechnology Division  
CSIR-National Institute for Interdisciplinary Science and Technology  
Trivandrum-695 019, Kerala, India*

### **Other affiliations:**

*Editor-in-chief, Bioresource Technology ([ees.elsevier.com/bite/](http://ees.elsevier.com/bite/))  
Honorary Executive Advisor, Journal of Water Sustainability ([www.jwsponline.com](http://www.jwsponline.com))  
Honorary Executive Advisor, Journal of Energy and Environmental Sustainability ([www.jees.in](http://www.jees.in))  
Adjunct Professor, MACFAST, Thiruvalla, Kerala  
Adjunct Professor, Kalasalingam University, Krishnan Koil, Tamil Nadu  
International Coordinator, International Forum on Industrial Bioprocesses ([www.ifibiop.org](http://www.ifibiop.org))  
Central Office Executive, The Biotech Research Society, India ([www.brsi.in](http://www.brsi.in))  
Vice-Chairman, International Society of Energy, Environment and Sustainability ([www.iitk/ac/in/isees/](http://www.iitk/ac/in/isees/))*

## PERSONAL

Date of birth: January 01, 1956 (Kanpur, Uttar Pradesh, India)

## EDUCATION

B. Sc.	1974	Biology, Chemistry	Kanpur University
M. Sc.	1976	Chemistry	Kanpur University
Ph. D.	1979	Microbiology	Allahabad University

## POST-DOCTORAL RESEARCH

1979-82 Post-doctoral Fellow, Allahabad University, Allahabad

## RESEARCH AREAS

- Microbial & Enzyme Technology and Food & Fermentation Technology
- Industrial Biotechnology
  - Bioprocesses & products development – Solid-state fermentation; industrial enzymes, biopolymers, organic acids, amino acids, mushroom, etc.
  - Energy & environment- Biomass to fuels and chemicals (biorefinery); microbial biodiversity
  - Health & nutrition- Probiotics and nutraceuticals

## PROFESSIONAL/RESEARCH EXPERIENCE- ~ 39 years

1982-85	Scientist, National Sugar Institute, Kanpur
1985-86	Scientist, Biotechnology, Zentral Laboratorium, Sudzucker, Germany
1987-2015*	Scientist, CSIR-National Institute for Interdisciplinary S&T, Trivandrum
1992*	Visiting Scientist, GBF, Germany [Sept-Oct]
1992-1993*	Visiting Scientist, University of Louis Pasteur, France [Dec-Jan]
1995*	Visiting Scientist, University of Louis Pasteur, France [July-Dec]

1997*	Visiting Scientist, University of Sunderland, UK [May]
1998-2000*	Professor Titular, Federal University of Parana, Brazil [April 1998-March 2000]
2000*	UNESCO Professor, Malaysia, Thailand [December]
2003-2013*	Visiting Professor, Universite Blaise Pascal, France [June/July each year]
2008-2010*	Visiting Professor, EPFL, Lausanne, Switzerland [December each year]
2016-cont	Eminent Scientist, Center of Innovative & Applied Bioprocessing, Mohali

*\*Including visits to Germany (1992, 1995, 1996, 2000, 2003), Italy (1988), France (1992-93, 1995, 1996, 2001, 2003-2015), Greece (1995, 2003, 2009, 2010, 2011, 2012, 2015), UK (1997, 2000, 2001, 2007, 2012), Argentina (1999, 2009), Brazil (1998-2000, 2006, 2007, 2010), Malaysia (2000, 2003, 2016), Thailand (2000, 2002), Ireland (2001), Hungary (2001, 2002, 2003, 2004, 2005, 2006), Australia (2003, 2008, 2010), USA (2004), Mexico (2004, 2013), Korea (2007, 2008, 2009, 2012, 2013), Japan (2007), Switzerland (2007, 2008, 2009, 2010), Singapore (2008), Taiwan (2009, 2010, 2012), Hong Kong (2011, 2013, 2015), China (2011, 2013), Sweden (2014) and South Africa (2016)*

## NATIONAL/INTERNATIONAL COMMITTEES SERVED/SERVING

- Adjunct Professor, MACFAST, Thiruvall, Kerala (2016-2019)
- Member, Program Advisory Committee- Life Sciences and Medical sciences, International S&T Cooperation, DST, New Delhi (2016-cont)
- Member, European Academy of Sciences & Arts, Salzburg, Germany (2016)
- Member, Advisory Board, Biotech Express (2016-cont)
- Member, Advisory Board, TERI Higher Education Program (September 2015-August 2017)
- Member, Academic Council, MACFAST ([www.macfast.org](http://www.macfast.org)), Tiruvalla (2015-cont)
- Member, Scientific Advisory Committee, Institute of Bioresources and Sustainable Development, Imphal (2015-2018)
- Co-chairman, DBT New Delhi, Task Force on Biosystems and Bioprocessing Engineering (2014-cont)
- Coordinator, Indo-Sweden Workshop on Biomass-based Bioeconomy, Stockholm (2014)
- Member, DST Expert Committee on Chemical and Engineering Sciences- International Programs, 2014-cont
- Member, DST, New Delhi, Expert Committee on Woman Scientists Scheme-A (WOS-A), 2013-2015
- Member, DST, New Delhi, Expert Advisory Group on Industrial/Analytical Instrumentation-IDP, 2013-2016
- Member, DST New Delhi, Expert Committee for SEED (Science of Equity, Empowerment and Development of Society), 2013-2016
- Coordinator, CSIR network project on FUNHEALTH under XII FYP, 2012-2017
- Member, Composite Evaluation Committee-International Collaboration Programs, DST, New Delhi, 2012-2015
- Vice-chairman, DBT, New Delhi Task Force on Bioprocess and Products Development, 2012-2015
- Member, Research Advisory Committee, Pushpgiri Institute of Medical Science & Research, Thiruvalla, 2010-2013
- Member, Scientific Advisory Committee, Evolva Ltd, Hyderabad, 2010-2012
- Member, Research Advisory Committee (Alternate Energy), Indian Oil Corporation, 2010
- Member, Advisory Board (Academic-Life Sciences), The Energy and Resource Institute, New Delhi, 2009-2015
- Member, Core Expert Group on second generation biofuels, Ministry of New & Renewable Energy, New Delhi, 2009-cont
- Member, DST, New Delhi Task Force on Expert Advisory Group on Analytical Instrumentation, Sensors & Allied Instrumentation and Industrial Instrumentation, 2009-2012
- Member, Advisory Board, Bioscience Research Institute, Chennai, 2009-2012
- Coordinator, CSIR network projects on enzymes under NWP 006 program on Exploration of India's Rich Microbial Diversity, 2008-2012
- Member, Advisory Committee, SCMS Institute of Bioscience and Biotechnology R&D, Cochin, 2008-2011
- Member, DBT Task Force on Bioprocess and Products Development, 2008-2011
- Member, CSIR Committee on International Affairs, New Delhi, 2008
- Member, Research Board, Kalsalingam University, Krishnankoil, Tamil Nadu, 2007-2015
- Member, Board of Management, Kalsalingam University, Krishnankoil, Tamil Nadu, 2007-2011

- Member, Scientific Advisory Committee, International Institute of Biotechnology and Toxicology, Padappai, Kanchipuram, 2006-2009
- Member, Faculty of Applied Science, University of Kerala, 2005-2009
- Member, Board of Studies in Biotechnology (PG), University of Kerala, 2005-2009
- Member, Board of Futuristic Studies, University of Kerala, 2005-2009
- Member, Institutional Biosafety Committees, CTCRI, Trivandrum- 2003-cont
- Member, Institutional Biosafety Committees RGCB, Trivandrum- 2003-2008
- Chairman, TIFAC Project Monitoring Committee, DST, New Delhi, 2003-2006
- Member, DBT Task Force on Food Biotechnology, 2003-2006
- Member, Kerala Biodiversity Committee, 2002
- Member, DBT Overseas Associate Selection Committee- 2002
- Member, Kerala Biotech Park Task Force, 2000
- Expert Member, TIFAC, Dept of Science and Technology, New Delhi, 1995
- Member, Faculty of Science, Cochin University of Science & Technology, 1994-98
- Safety Officer, Regional Research Laboratory, Trivandrum- 1993-1998, 2002-2004
- Convener, RRL-CUSAT Research Committee, 1992-1998
- Member, Indo-Swedish DBT Review Committee for grants, 1996
- Head, Biotechnology Division 1997-2015; Head, Biotechnology Unit, 1992-1997
- Member, Committee on Garbage Disposal from Trivandrum City, Kerala Govt, 1991
- Member, High Level Committee on Tapioca Alcohol, Govt of Kerala, 1989-91

## EDITORIAL EXPERIENCE

**Editor of Encyclopaedia:** *Concise Encyclopaedia of Bioresource Technology*, Haworth Press, Inc., USA, 2004

**Editor:** *Bioresource Technology*, Elsevier Science, UK, 2004-cont

**Editor-in-chief:** *Bioresource Technology*, Elsevier Science, UK, 2011-cont

**Honorary Executive Advisor,** *Journal of Water Sustainability*, Australia, 2013-cont

**Honorary Executive Advisor:** *Journal of Energy and Environmental Water Sustainability*, India (2014-cont)

**Editor:** *An Elsevier book series of six volumes of biomass, biofuels & biorefinerie* (2013-2016)

**Editor-in-chief:** *Current Developments in Biotechnology and Bioengineering (Elsevier book series of nine volumes- 2016)*

### Editorial Board Member:

#### CURRENTLY

##### **International:**

*Iranica Journal of Energy & Environment*, 2014-cont

*Biofuels Research Journal*, 2014-cont

*Journal of Environmental Science and Sustainability*, 2012-cont

*TheScientificWorldJOURNAL*, 2011-cont

*Journal of Waste Conversion, Bioproducts and Biotechnology (JWCBB)*, 2011-cont

*The Open Process Chemistry Journal*, 2008-cont

*Food Technology and Biotechnology*- 2007-cont

*Biologia- Cellular and Molecular Biology*, 2007-cont

*The Open Industrial and Manufacturing Engineering Journal*- 2007-cont

*Malaysian Journal of Microbiology*, 2004- cont

*Applied Biochemistry and Biotechnology*, 2004-cont

*Brazilian Archives of Biology and Technology*, 1997-cont

*Process Biochemistry*, 1995-cont

##### **Indian:**

*Biotech Express*, 2016-cont

*Indian Journal of Biotechnology*, 2002-cont

*Journal of Microbial World*, 2001-cont

#### PREVIOUSLY

*Bhartiya Vaigyanik avm Audyogik Anusandhan Patrika*, 1999-2015

*Journal of Scientific & Industrial Research*- 2005-2014

*Bharat ki Sampada*, 2005-2007

*International Journal of Food, Agriculture & Environment*, 2003-2004

*Journal Chemtracks*, 2003-2005  
*Bioresource Technology*, 2001-2004  
*Indian Journal of Microbiology*, 1996-2005  
*Indian Food Industry*, 1996  
*Journal of Microbial Biotechnology*, 1995-1999

## ADMINISTRATIVE EXPERIENCE

Head, Biotechnology Unit, RRL, Trivandrum 1992-1996  
Head, Biotechnology Division, RRL, Trivandrum 1997-2007  
Head, Centre for Biofuels & Biotechnology Division, NIIST, Trivandrum 2008-2015  
Project Leader, RRL/NIIST, Trivandrum 1989-2015  
CSIR/NIIST Nodal Scientist, 2004-2015

## TEACHING EXPERIENCE

Visiting Professor (*Professor Titular*-Full professor), Federal University of Parana, Brazil 1998-2000  
UNESCO Professor, Malaysia, Thailand (short-term courses) 2001  
Visiting Professor, Universite Blaise Pascal, France June/July each year 2003-2015  
Visiting Professor, Switzerland, December each year 2009-2011  
Professor AcSIR, CSIR  
Guest Faculty, Refresher courses of UGC  
Adjunct Professor, Kalaslingam University, Krishnan Koil, Tamil Nadu  
Adjunct Professor, MACFAST, Thiruvalla, Kerala

## AWARDS/HONOURS/DISCTICTIONS

- Elected Member, European Academy of Sciences & Arts, Salzburg, Germany (2016)
- Fellow, International Society for Energy, Environment and Sustainability (2014)
- Fellow, National Academy of Sciences, India (2012)
- Judge, Elsevier Peer Review Challenge Program, Elsevier UK (2012)
- Editor-in-chief, *Bioresource Technology*, Elsevier, UK (2011-cont)
- Fellow, Association of Microbiologists of India (*FAMI*) (2010)
- Fellow, International Organization for Biotechnology and Bioengineering (*FIOOB*) (2008)
- SciTopic Author, Elsevier (2008)
- Visiting Professor, EPFL, Switzerland, (2008-2011 – December each year)
- Appreciation Award, Federal University of Parana, Brazil (2007)
- Honorary Doctorate degree, Univesite Blaise Pascal, France (2007)
- Thomson Scientific Award- India Citation Laureate (2006)
- Fellow, Biotech Research Society of India (*FBRS*) (2005)
- Lupin Visiting Fellow (2005)
- Editor, *Bioresource Technology*, Elsevier Science, UK (2004-cont)
- President, Biotech Research Society, India (2004-2011)
- Chair (F&H), International Society of Food, Agriculture & Environment (Finland) (2003-2004)
- Visiting Professor, Universite Blaise-Pascal, Clermont-Ferrand, France (2003-2016 – June/July each year)
- Best Poster/Paper Awards- International Conferences- NHBT-2015, ICCB-2014, ICABB-2013, NHBT-2011, ICGS-2010, ICBF-2008, NHBT-2007, ICBF-2006, ICEHB-2006, ICB-2003, NHBT-2001, ISMBPT-2000; National Conference - Path to Health- Biotechnology Revolution in India, 2005; 1<sup>st</sup> BRSI Convention, 2004, National Symposium on Bioactive Molecules, 2002; National Symposium on SSF, 1994- co-author of the award winning papers
- Best Scientific Achievement Award for the year 2001, Govt of Cuba, jointly with three others (2002)
- UNESCO Professor (2000)
- Visiting Faculty [*Professor Titular*], Federal University of Parana, Curitiba, Brazil (1998-2000)
- Visiting Scientist, University of Sunderland, Sunderland, UK (1996)
- Raman Research Fellowship Award, CSIR, New Delhi (1995)
- CNRS, France Fellowship, France (1993)

- GBF International Fellowship, Germany (1992)
- Young Scientist Award, DSTE, Trivandrum (1989)

## MEMBERSHIP IN PROFESSIONAL SOCIETIES

Chairman	International Society of Food, Agriculture & Environment (Finland), 2003-2004
Vice-Chairman (Kerala)	All India Biotech Association- SC, 2003-cont
Vice-Chairman	International Society for Energy, Environment and Sustainability, 2014-cont
President	Biotech Research Society, India, 2003-2011
President	Association of Microbiologists of India, Trivandrum Chapter, 2001-2004
Vice-President	Association of Microbiologists of India, Trivandrum Chapter, 1995-1998
International Coordinator	ICBF Forum, France, 2004-2010
International Coordinator	International Forum on Industrial Bioprocesses, France, 2011-cont
General Secretary	International Forum on Industrial Bioprocesses, France, 2013-2014
Life Member	National Academy of Sciences (India) The Biotech Research Society, India Association of Microbiologists of India Society of Biological Chemists (India) Association of Food Scientists & Technologists (India) International Society for Energy, Environment & Sustainability
Member,	European Academy of Sciences & Arts, Salzburg, Germany (2016)

## PROFESSIONAL INTERNATIONAL VISITS

1985-86	Germany- Research Scientist at Sudzucker, Gruenstadt, Germany [Dec 1985-Dec 1986]
1988	Italy- To attend the V Internatl Symp on Anaerobic Digestion at Bologna, Italy [May 19-26]
1992	Germany- To attend ITP Course at GBF, Braunschweig, Germany [August 30- October 18]
1992-93	France- Visiting Scientist, Univ. of Louis Pasteur, Strasbourg, France [Decr 1992-Jan 1993]
1995	France- Visiting Scientist, ULP, Strasbourg, France [July-December 1995]
1995	Greece- To visit and give a talk in the Univ of Ioannina, Ioannina, Greece [Dec 22-29, 1995]
1996	Germany- To attend the International Symposium on Biotechnology & X Anniversary of ITP programme at Braunschweig, Germany [October 15-20, 1996]
1996	France- Collaborative work at ULP, Strasbourg [Oct 21-24, 1996]
1997	UK- To attend the Safe Laboratory Practices Programme at the Industry Centre, University of Sunderland, UK [May 1997]
1998-2000	Brazil- Visiting Professor, Federal Univ of Parana, Curitiba, Brazil [Apr 1998- Apr 2000]
1999	Argentina- To visit and give a talk at CONYCECET, Santa-Fe, Argentina [October 11-17, 1999]
2000	Germany- To organize/attend international symposium on More Quality of Life by Mean of Biotechnology, Hanover/Braunschweig [September 17-30]
2000	UK- To visit the University of Ulster, Northern Ireland [October 1-4]
2000	Malaysia- UNESCO Professor to visit Univ Malaya, Kuala Lumpur Univ Putra Malaysia, Selangor, Univ Teknoligi Malaysia, Johor Bahru and Univ Sains Malaysia, Penang [December 7-16]
2000	Thailand- UNESCO Professor to visit Prince of Songkhla University, Hat Yai, Asian Institute of Technology, Pathumthani and Mahidol University, Bangkok [Dec 17-21]
2001	Hungary- Under Indo-Hungarian bilateral collaborative programme to the Technical University of Budapest [February 7-18 and July 1-30]
2001	Ireland- Invited talk at International Expert Group Meeting on Solid-state Fermentation-Round Table Conference, Dublin [November 10-13]
2002	Hungary- Under Indo-Hungarian bilateral collaborative programme to the Technical University of Budapest [February 15-24]
2002	Thailand- Invited talk at the international conference on World Sugar Co-products- 2002, Bangkok [October 5-9]
2003	Malaysia- Plenary lecture at international conference ICAN-2003, and to visit MARDI, Kuala Lumpur [March 1-8, 2003]
2003	Greece- Invited talk at the International Food Biotechnology Meet, Patras and visit and lectures at the University of Ioannina [March 18-27]
2003	France- Visiting Professor, University of Blaise-Pascal, Clermont-Ferrand [June-July]
2003	Germany- To visit and give a talk at GBF, Braunschweig [July 3-4]

- 2003 Hungary- Under Indo-Hungarian bilateral collaborative programme to the Technical University of Budapest [September 15-25]
- 2003 Malaysia- Plenary lecture and session chairman at 3<sup>rd</sup> international conference of Asia-Pacific Federation of Microbiology Societies and to visit the University of Malaya, Kuala Lumpur [October 14-19]
- 2003 Australia- Member of CSIR delegation to CSIRO, Melbourne to attend Bioremediation Workshop [November 19-22]
- 2004 USA- Invited speaker at the 1<sup>st</sup> International Workshop on Food Irradiation, Texas A&M University, College Station [March 28-April 05]
- 2004 UK- To attend Elsevier Editor's meeting, Oxford [May 25]
- 2004 France- Visiting Professor, University of Blaise-Pascal, Clermont-Ferrand [June-July]
- 2004 Mexico- Keynote speaker, International Conference on Biotechnology in Developing Countries, Durango, Mexico [June 20-23]
- 2005 Hungary- Under Indo-Hungarian bilateral collaborative programme to the Technical University of Budapest [January 30- February 8]
- 2005 France- Visiting Professor, University of Blaise-Pascal, Clermont-Ferrand [June-July]
- 2006 Hungary- Under Indo-Hungarian bilateral collaborative programme to the Technical University of Budapest [January 15-24]
- 2006 France- Visiting Professor, University of Blaise-Pascal, Clermont-Ferrand [June-July]
- 2006 Brazil- Invited Speaker, XXI Brazilian Congress on Food Science and Technology, Curitiba [October 8-11]
- 2007 France- To receive Honorary Doctorate Degree, University of Blaise-Pascal, Clermont-Ferrand [March 8-12]
- 2007 Japan- Invited speaker, International Conference on Bioenergy Asia 2007, Kyoto [March 14-16]
- 2007 UK- Invited speaker, International Conference on Biofuels Opportunities, Royal Society, London [April 23-24]
- 2007 Korea- Invited speaker, KSBB Conference on Biotechnology, Incheon [April 26-28]
- 2007 France- Visiting Professor, University of Blaise-Pascal, Clermont-Ferrand [June-July]
- 2007 Brazil- Invited speaker, Brazilian Congress on Bioprocess Technology, Curitiba [July 29-August 1]
- 2007 Switzerland- To visit EPFL, Lausanne [August 3-6]
- 2007 Korea- Invited speaker, International conference- Bio Korea 2007, Seoul [September 12-14]
- 2008 Singapore- Invited Editor, Elsevier Editors Conference, Singapore [February 23-24]
- 2008 France- Visiting Professor, University of Blaise-Pascal, Clermont-Ferrand [June-July]
- 2008 Australia- Keynote speaker, International conf of IOBB, Perth [July 6-9]
- 2008 Korea- Invited speaker, International conference- Gwangju [October 7-9]
- 2008 Switzerland- Visiting Professor, EPFL, Lausanne [December 2008]
- 2009 France- Invited speaker, IEA International Workshop, Paris [February 9-10]
- 2009 Korea- Keynote speaker, International conference, Gwangju [February 23-26]
- 2009 Greece- Keynote speaker, International conference, Patras [March 30]
- 2009 Argentina- Under Indo-Argentina bilateral programme to the National University, La Plata [April 10-20]
- 2009 France- Visiting Professor, University of Blaise-Pascal, Clermont-Ferrand [June/July]
- 2009 France- Invited speaker, SFGP International Conference, Paris [October 14-16]
- 2009 Taiwan- International Workshop and training program [October 20-24]
- 2009 Switzerland- Visiting Professor, EPFL, Lausanne [December]
- 2010 Greece- Keynote speaker, International conference, Patras [April 19]
- 2010 France- Visiting Professor, University of Blaise-Pascal, Clermont-Ferrand [June/July]
- 2010 Australia- Keynote speaker, International conference CESE-2010, Cairns [September 26-29]
- 2010 Brazil- Keynote speaker, International conference, Curitiba [October 5-8]
- 2010 Taiwan- International Workshop and training program [October 17-20]
- 2010 Switzerland- Visiting Professor, EPFL, Lausanne [December]
- 2011 Greece- Keynote speaker, International conference, Patras [April 25]
- 2011 France- Visiting Professor, University of Blaise-Pascal, Clermont-Ferrand [June]
- 2011 Hong Kong – Keynote speaker, International Conference ICSWHK-2011 [May 4-5]
- 2011 China – Invited lecture, ACB International Conference, Shanghai [May 11-14]
- 2011 Taiwan – Invited lecture & session chair, International conference CESE-2011, Tainan [September 25-30]
- 2012 UK- Invited lecture, Indo-UK bilateral conference, Nottingham [March 12-13]



2012	France- Visiting Professor, University of Blaise-Pascal, Clermont-Ferrand [June]
2012	Korea- Keynote speaker, International Biotechnology Symposium, Daegu [Sep 16-21]
2012	Taiwan- Keynote speaker, 5 <sup>th</sup> International Conf of iFIBiop, Taipei [Oct 7-10]
2013	Hong Kong – Keynote speaker, International Conference ICSWHK-2013 [May 5-7]
2013	France- Visiting Professor, University of Blaise-Pascal, Clermont-Ferrand [June]
2013	China- International Biotechnology Workshop, Jiangnan University, Wuxi [Oct 5-8]
2013	Korea- Keynote speaker and session chair, CESE-2013, Daegu [Oct 29-Nov2]
2014	France- Visiting Professor, University of Blaise-Pascal, Clermont-Ferrand [June]
2014	Sweden- Visit Bioresource Recovery Centre, University of Boras, Boras [June 21-23]
2014	Sweden- Indo-Sweden workshop on Biomass-based Bioeconomy, Stockholm [August 20-21]
2015	Greece- International Workshop on Recent Advances in Biotechnology, Patras [March 23-24]
2015	Hong Kong- International Conference on Solid Waste, Hong Kong [May 19-23]
2015	France- Visiting Professor, University of Blaise-Pascal, Clermont-Ferrand [June]
2016	South Africa- SASM Biennial Conference, Durban [January 17-20]
2016	Malaysia- USM and UTP, Pennag for lecture series [March 28-April 2]

### MAJOR SCIENTIFIC CONFERENCES CONVENED/SESSIONS CHAIRED

- Convener, VIII Carbohydrate Conference, Trivandrum, November 22-23, 1992
- Convener, National Symposium on Carbohydrates and Related Natural Products, Trivandrum, March 17-18, 1994
- Convener, National Symposium on Solid State Fermentation, Trivandrum, March 23-24, 1994
- Co-ordinator, DST Project Advisory Committee Meeting, Trivandrum, Nov 16, 1994
- Co-ordinator, International Symposium on New Horizons in Organic Chemistry, Trivandrum, December 19-20, 1994
- Convener, III Annual Meeting of CSIR on Laboratory Safety, Trivandrum, March 11-12, 1995
- Co-ordinator, DST Project Advisory Committee Meeting, Trivandrum, November 17, 1996
- Co-ordinator, National Symposium on Emerging Trends in Organic Chemistry, Trivandrum, November 18-19, 1996
- Co-ordinator, DST Project Advisory Committee Meeting, Trivandrum, October 25-26, 1997
- Convener, International Conference on Frontiers in Biotechnology (ICFB'97), Trivandrum, November 26-29, 1997
- Convener, International Conference on New Horizons in Biotechnology (NHBT-2001), Trivandrum, April 18-21, 2001
- Convener, National Symposium on Bioactive Molecules, Trivandrum, October 24-25, 2002
- Convener, International conference on Emerging Frontiers at the Interface of Chemistry and Biology, Trivandrum, April 28-30, 2003
- Co-Convener, International Conference on Bioprocesses in Food Industries (ICBF-2004), Clermont-Ferrand, France, July 11-13, 2004
- Patron, 1<sup>st</sup> BRSI Convention and National Symposium on Developments in Biotechnology, Jalgaon, November 25-27, 2004
- Patron, 2<sup>nd</sup> BRSI Convention and National Symposium on Developments in Biotechnology, Chennai, November 24-26, 2005
- Co-Convener, International Congress on Bioprocesses in Food Industries (ICBF-2006), Patras, Greece, June 18-21, 2006
- Convener, National conference on Biotechnology (in Hindi), Trivandrum, September 14-16, 2006
- Convener, International Conference on New Horizons in Biotechnology (NHBT-2007) and IV BRSI Convention, Trivandrum, November 26-29, 2007
- Chairman, International Conference on Genomic Sciences & VII BRSI Convention & Indo-Italian Workshop, Madurai Kamaraj University, Madurai, November 12-14, 2010
- Chairman, International Conference on Biotechnology for better Life, Kalasalingam University, Krishnan Koil., November 15-16, 2010
- Chairman, International Conference on New Horizons in Biotechnology (NHBT-2011) and VIII BRSI Convention, Trivandrum, November 21-24, 2011
- General Chair, IFIBiop 5<sup>th</sup> International Conference on Industrial Bioprocesses, Taipei, Taiwan, October 7-11 (2012)

- General Chair, BRSI International Conference on Industrial Biotechnology & Indo-Italian Workshop on Food Biotechnology: Industrial Processing, Safety & Health, Punjabi University Patiala, India, November 21-23 (2012)
- General Chair, International Conference on Advances in Biotechnology and Bioinformatics, Dr DY Patil Institute of Biotechnology and Bioinformatics, Pune, India, November 25-27 (2013)
- General Chair, International Conference on Emerging Trends in Biotechnology- the XI BRSI Convention and Indo-Italian Workshop on Industrial Pharmaceutical Biotechnology, Jawaharlal Nehru University, New Delhi, November 6-9 (2014)
- Chief Guest, National Workshop and Seminar Bio-Sumit, Karpaga Vinayag College of Engineering and Technology, Chennai, January 5 (2015)
- Chief Guest and keynote speaker, International Conference on Bioenergy, Environment and Sustainable Technologies, Arunai Engineering College, Thiruanamalai, January 28-31 (2015)
- Principal Coordinator, International Workshop on Advances in Algal Biotechnology, IIT, Mumbai, India, November 21 (2015)
- Chairman, International Conference on New Horizons in Biotechnology (NHBT-2015), Trivandrum, India, November 22-25 (2015)
- Coordinator, International Conference on Advances in Bioprocess Technology, MACFAST, Thiruvalla, Kerala, November 26-28 (2015)
- Conference Chair- BIORESTEC 2016, International conference on Bioresource Technology for Bioenergy, Bioproducts and Environmental Sustainability, Sitges, Spain, October 23-26 (2016)
- General Chair, International Conference on Current Trends in Biotechnology & XIII BRSI Convention, VIT Vellore, India, December 8-10 (2016)

### MAJOR RESEARCH AND TECHNOLOGICAL DEVELOPMENT PROJECTS (DEVELOPMENT AND EXECUTION) LEADERSHIP

<b><i>Project title and funding source</i></b>	<b><i>Period and funds</i></b>
Solid-state fermentation for the production of glucoamylase DBT, New Delhi	Oct 1992-Sept 1995 ₹ 12.76 lakhs
Microbial synthesis of inulinase DBT, New Delhi	Sept 1997-Aug 2000 ₹18.14 lakhs
Production of industrial enzymes in solid-state fermentation DST, New Delhi, Indo-Hungarian	April 2000-March 2003 ₹ 6.70 lakhs
Phytase: Environmentally friendly feed enzyme DBT, New Delhi	Sept 2002-Sept 2005 ₹12.48 lakhs
Production of chitinase enzyme and its evaluation as biocontrol agent against the insect pest <i>Helicoverpa armigera</i> Nirmal Seeds, Jalgaon	July 2005-June 2006 ₹ 1.00 lakh
Substrate specific enzymes complexes in solid-state fermentation DST, New Delhi, Indo-Hungarian	April 2003-March 2006 ₹ 9.76 lakhs
Production of value-added organic chemicals from agro products and agro-industrial residues CSIR, New Delhi	Aug 2003- March 2007 ₹ 190.4 lakhs
New Generation Fuels and lubricants- Production of bioethanol CSIR, New Delhi	Aug 2003- March 2007 ₹67.5 lakhs
Exploration and exploitation of microbial wealth of India CSIR, New Delhi	Oct 2003- March 2007 ₹ 47.5 lakhs
Development and application of food enzymes- Part 1- alpha amylase DBT, New Delhi	April 2004-March 2007 ₹29.85 lakhs
Production of amino acids, especially glutamic acid, arginine and citrulline: State-of-art information Colgate-Palmolive, USA	Dec 2007- March 2008 US\$ 15000
Isolation and evaluation of microbial strains for the production of nitrilase, reductase and hydantoinase Hi Tech Biosciences, Pune	Dec 2007- April 2009 ₹ 10.00 lakhs
Biocatalysts-a novel approach for the production of pharmaceuticals DST, New Delhi; Indo-Argentina	Aug 2006-July 2009 ₹ 5.10 lakhs



Feasibility of biofuels in India IEA, France	April-July 2009 € 6500
Construction and screening of environmental DNA libraries for novel beta-lactamase inhibitors and lipases DBT, New Delhi	April 2007- June 2011 ₹54.9 lakhs
Development of thermostable and low pH tolerant phytase from <i>Aspergillus niger</i> using site-directed mutagenesis DBT, New Delhi	July 2007 – June 2011 ₹ 38.33 lakhs
Production of arginine – state-of-art CP, USA	October 2008-March 2009 US\$ 15,000
Production of arginine by fermentation and its purification CP, USA	April 2009-March 2012 US\$ 170,000
Exploration of India's Rich Microbial Diversity CSIR, New Delhi	Jan 2008- March 2012 ₹210.00 lakhs
Bioethanol from lignocellulosic biomass CSIR, New Delhi	April 2007- May 2012 ₹101.61 lakhs
Creation of Centre for Biofuels TIFAC, New Delhi	Sept 2008- August 2012 Phase I- ₹ 352.10 lakhs July 2014-June 2016 Phase II- ₹ 146.00 lakhs
Glycerol-based carbon acid catalyst for the production of ethanol and value-added chemicals from biomass, DST New Delhi	April 2012-September 2014 ₹ 19.612 lakhs
Sorghum stover based biorefinery for fuels and chemicals, MNRE, New Delhi	April 2012-March 2015 ₹ 93.874 lakhs
Production of L-Asparaginase for therapeutic applications DBT, New Delhi	May 2012-April 2015 25.00 lakhs
Indo-Australia program on biofuels DST, New Delhi	November 2014-October 2017 ₹ 176.00 lakhs
PGPR Tools for Improving Crop Productivity in Stressed Agricultural Systems, CSIR, New Delhi BSC 117	April 2012-March 2017 73.375 lakhs
Sustainable Processes for the Development of Edible Oils with Health Benefits from Traditional and New Resources (PEOPLE HOPE), CSIR, New Delhi CSC 112	April 2012-March 2017 297.63 lakhs
Waste to Wealth (W2W)-Biodegradatyion of plastics, CSIR, New Delhi CSC 120	April 2012-March 2017 97.00 lakhs
Encapsulated Microorganisms for Environmental Protection (EMEP), CSIR, New Delhi CSC 127	April 2012-March 2017 189.06 lakhs
Development of functional foods and their formulations for potential health benefits of common man (FUNHEALTH), CSIR, New Delhi CSC 133	April 2012-March 2017 1034.00 lakhs
Pretreatment of rice straw for the production of bioenergy, DSM India, Pune	April 2014-December 2014 ₹ 16.8 lakhs
Creation of Centre for Biofuels TIFAC, New Delhi	Sept 2008- August 2012 Phase I- ₹ 352.10 lakhs July 2014-June 2016 Phase II- ₹ 146.00 lakhs
Development of a bioprocess for the production of polyhydroxy butyrate (PHB) from bio-diesel industry generated glycerol DBT, New Delhi	January 2009-June 2012 ₹ 38.10 lakhs
Plant-Microbe and soil interactions (PMSI) CSIR, New Delhi (BSC 117)	November 2012-March 2017 ₹ 73.375 lakhs
Development Sustainable Processes for Edible Oils with Health Benefits from Traditional and New Resources (PEOPLEHOPE) CSIR, New Delhi (CSC 112)	December 2012-March 2017 ₹ 297.632 lakhs
Waste-2-Wealth: Development of microbial consortium for the biodegradation of eplastics and biopolymers (W2W) CSIR, New Delhi (CSC 120)	October 2012-March 2017 ₹ 97.00 lakhs
Encapsulated Microorganisms for Environmental Protection (EMEP)	September 2012-March

CSIR, New Delhi (CSC 127)	2017 ₹ 189.06
Development of functional foods and their formulations for potential health benefits of common man (FUNHEALTH) CSIR, New Delhi (CSC 133)	October 2012-March 2017 ₹ 1034.8 lakhs

## SUMMARY OF RESEARCH OUTPUT/OUTCOME

Total publications ~ 1100  
 Patents - 16 Books - 39  
 Journals as guest/special issue editor – 32 Reports - 35  
 Chapters in the Books/Proceedings –113  
 Original and Review Papers 422  
 Research Communications (in International conf/symposia) - 357  
 Research Communications (in National conf/symposia) – 93

**h Index** 74 (Google scholar)

**Citations** >23,400 (<https://scholar.google.co.in/citations?user=VlnbGhIAAAAJ>)

**Technologies transferred** FOUR

**Industrial consultancy** About 10

## PUBLICATIONS IN SCI JOURNALS

### A. REVIEW & POLICY PAPERS

1. Biological pretreatment of lignocellulosic biomass - An overview, R Sindhu, P Binod & Ashok Pandey, *Bioresource Technology*, 199, 76-82 (2016)
2. Current perspectives in enzymatic saccharification of lignocellulosic biomass, SK Khare, Ashok Pandey & C Larroche, *Biochemical Engineering Journal*, 102, 38-44 (2015)
3. Solid-state fermentation for the production of poly(hydroxyalkanoates), R Sindhu, Ashok Pandey & P Binod, *Chemical & Biochemical Engineering Quarterly*, 29(2), 173-181 (2015) **IF 0.911**
4. Preface, ICETB2014 Special issue on Emerging Trends in Biotechnology, IS Thakur, Ashok Pandey & HH Ngo, *Indian Journal of Experimental Biology*, 53(6), 315 (2015) IF 0.753
5. Production, purification and properties of fungal chitinases- A Review, N Karthik, K Akanksha, P Binod & Ashok Pandey, *Indian Journal of Experimental Biology*, (2014) IF 1.295
6. Preface- ICABB 2013 Special issue on Advances in Biotechnology and Bioinformatics – N Nawani, Ashok Pandey, S Khanal & P Binod, *Indian Journal of Experimental Biology*, 52, 1019- 1020 (2014) IF 1.295
7. Advances in lipase-catalyzed esterification reactions, PY Stergiou, A Foukis, M Filippou, M Koukouritaki, M Parapouli, LG Theodorou, E Hatziloukas, A Afendra, Ashok Pandey & E M Papamichael, *Biotechnology Advances*, 31, 1846-1859 (2013) IF 9.599
8. Emerging approaches in fermentative production of stains, SK Singh & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 171, 927 – 938 (2013) IF 1.893
9. Current developments in solid-state fermentation, Leya Thomas, C Larroche & Ashok Pandey, *Biochemical Engineering Journal*, 81, 146-161 (2013) IF 2.645
10. Production, purification and application of xylanases from actinomycetes, Leya Thomas, M Arumugam & Ashok Pandey, *Indian Journal of Experimental Biology*, 51 (6), 875–884 (2013) IF 1.295
11. Western Ghats of India as a rich source of microbial diversity, KM Nampoothiri, Ramkumar B & Ashok Pandey, *Journal of Scientific and Industrial Research*, 72, 617-623 (2013) IF 0.557
12. Role and significance of beta-glucosidases in the hydrolysis of cellulose for bioethanol production, Reeta Rani Singhania, AK Patel, RK Sukumaran, C Larroche & Ashok Pandey, *Bioresource Technology*, 127, 500-507 (2013) IF 4.758
13. Preface, Ashok Pandey & RS Singh, *Biologia*, 68, 1015 (2013) IF 0.557
14. Industrial enzymes: Present status and future perspectives for India, P Binod, P Palkhiwala, R Gaikawai, KM Nampoothiri, A Duggal, K Dey & Ashok Pandey, *Journal of Scientific and Industrial research*, 72(5), 271-286 (2013) IF 0.557

15. Probiotic fermented foods for health benefits, JB Divya, KK Vrsha, KM Nampoothiri, B Ismail & Ashok Pandey, *Engineering in Life Sciences*, 12(4), 1-14 (2012)
16. Recent developments in microbial oils production: A possible alternative to vegetable oils for biodiesel without competition with human food? G Christophe, V Kumar, R Nouaille, G Gaudet, P Fontanille, Ashok Pandey, CR Soccol and C Larroche, *Brazilian Archives of Biology and Technology*, 55(1), 29-46 (2012)
17. Organic solvent adaptation of Gram positive bacteria: applications and biotechnological potentials, S Torres, Ashok Pandey & GR Castro, *Biotechnology Advances*, 29(4), 442-452 (2011)
18. Cyanobacteria and microalgae: A positive prospect for biofuels, A Parmar, NK Singh, Ashok Pandey, E Gnansounou, E & D Madamwar, *Bioresource Technology*, 102 (22) , 10163-10172 (2011)
19. Adopting structural elements from intrinsically stable phytase - A promising strategy towards thermostable phytases, MV Ushasree, HBS Sumayya & Ashok Pandey, *Indian Journal of Biotechnology*, 10(4), 458-467 (2011)
20. Micro and macroalgal biomass: A renewable source for bioethanol , RP John, GS Anisha, KM Nampoothiri & Ashok Pandey, *Bioresource Technology*, 102(1), 186-193 (2011)
21. Enzymes as additives or processing aids in Food Biotechnology, R Porta, Ashok Pandey & CM Rosell, *Enzyme Research*, 2010, 1-2 (2010)
22. Polysaccharides from probiotics: New developments as food additives, AK Patel, P Michaud, Reeta Rani Singhanian, CR Soccol & Ashok Pandey, *Food Technology and Biotechnology*, 48 (4), 451-463 (2010)
23. The Potential of probiotics: A Review, CR Soccol, LPS Vandenberghe, MR Spier, ABP Medeiros, CT Yamaguishi, JDD Lindner, Ashok Pandey & V Thomaz-Soccol, *Food Technology and Biotechnology*, 48(4), 414-434(2010)
24. Probiotics, prebiotics and synbiotics- Foreword, Ashok Pandey, C Larroche & CR Soccol, Special Issue of *Food Technology and Biotechnology*, 48 (4), 411 (2010)
25. Advanced strategies for improving industrial enzymes, Ashok Pandey, P Binod, MV Ushasree & J Vidya, *Chemical Industry Digest*, 23, 74-84 (2010)
26. Advancement and comparative profiles in the production technologies using solid-state and submerged fermentation for microbial cellulases, Reeta Rani Singhanian, RK Sukumaran, AK Patel, C Larroche & Ashok Pandey, *Enzyme and Microbial Technology*, 46(7), 541-549 (2010)
27. Genome shuffling: A new trend in improved bacterial production of lactic acid, RP John, GS Anisha, Ashok Pandey & KM Nampoothiri, *Industrial Biotechnology*, 6(3): 164-169 (2010)
28. Lignocellulosic ethanol in India: Prospects, challenges and feedstock availability, RK Sukumaran, VJ Surender, R Sindhu, P Binod, KU Janu, KV Sajna, KP Rajasree & Ashok Pandey, *Bioresource Technology*, 101(13), 4826-4833 (2010)
29. Bioethanol production from rice straw: An overview, P Binod, R Sindhu, Reeta Rani Singhanian, VJ Surender, Lalitha Devi, Satya Nagalakshmi, N Kurien, RK Sukumaran & Ashok Pandey, *Bioresource Technology*, 101(13), 4767-4774 (2010)
30. Lignocellulosic Bioethanol: Current Status and Perspectives- Introduction, Ashok Pandey, *Bioresource Technology*, 101(14), 4743 (2010)
31. Probiotic bile salt hydrolase: Current developments and perspectives, AK Patel, Reeta Rani Singhanian, Ashok Pandey & SB Chincholkar, *Applied Biochemistry and Biotechnology*, 162(1), 166-180 (2010)
32. Direct lactic acid fermentation: Focus on simultaneous saccharification and lactic acid production, RP John, GS Anisha, KM Nampoothiri & Ashok Pandey, *Biotechnology Advances*, 27, 145-152 (2009)
33. Advances in research of polysaccharides in *Cordyceps* species, S Zhong, H Pan, L Fan, G Lv, Y Wu, P Binod, Ashok Pandey & CR Ricardo Soccol, *Food Technology and Biotechnology*, 47(3), 304-312 (2009)
34. Recent advances in solid-state fermentation, Reeta Rani Singhanian, AK Patel, CR Soccol & Ashok Pandey, *Biochemical Engineering Journal*, 44(1), 13-18 (2009)
35. Progress in research on fungal cellulases for lignocellulose degradation, GM Mathew, RK Sukumaran, Reeta Rani Singhanian & Ashok Pandey, *Journal of Scientific & Industrial Research*, 67(11), 898-907 (2008)
36. Trends in non-dairy probiotic beverages, FC Prado, JL Parada, Ashok Pandey & CR Soccol, *Food Research International*, 41, 111-123 (2008) IF 2.271
37. Production and application of industrial enzymes, Ashok Pandey & Reeta Rani Singhanian, *Chemical Industry Digest*, 21, 82-91 (2008)
38. Fermentative production of lactic acid from biomass: an overview on process developments and future perspectives, RP John, KM Nampoothiri & Ashok Pandey, *Applied Microbiology and Biotechnology*, 74, 524-534 (2007)
39. Oil cakes and their biotechnological applications- A review, Sumitra Ramachandran, SK Singh, C Larroche, CR Soccol & Ashok Pandey, *Bioresource Technology*, 98(10), 2000-2009 (2007)
40. Advances in mushroom research in last decade, L Fan, H Pan, A T Soccol, Ashok Pandey & CR Soccol, *Food Technology and Biotechnology*, 44(3), 301-311 (2006)

41. Microbiology and industrial biotechnology of food grade proteases- a perspective, A Sumantha, C Larroche & Ashok Pandey, *Food Technology and Biotechnology*, 44(2), 211-220 (2006)
42. Gluconic acid: Properties, application and microbial production, Sumitra Ramachandran, P Fontanille, Ashok Pandey & C Larroche, *Food Technology and Biotechnology*, 44(2), 185-196 (2006)
43. Alpha amylase from microbial sources- an overview on recent developments, S Sivaramakrishnan, D Gangadharan, KM Napoothiri, CR Soccol & Ashok Pandey, *Food Technology and Biotechnology*, 44(2), 173-184 (2006)
44. New perspectives for citric acid production and application, CR Soccol, LPS Vandenberghe, C Rodriguez & Ashok Pandey, *Food Technology and Biotechnology*, 44(2), 141-150 (2006)
45. Metabolic engineering approaches for lactic acid production, SK. Singh, SU Ahmed & Ashok Pandey, *Process Biochemistry*, 41(5), 991-1000 (2006)
46. Microbial pigments, Ashok Pandey & S Babitha, *Advanced Biotech*, 3(8), 17-19 (2005)
47. Microbial cellulases- production, applications and challenges, RK Sukumaran, RR Singhanian & Ashok Pandey, *Journal of Scientific and Industrial Research*, 64, 832-844 (2005)
48. Coffee Husk: A Potential Alternative Material for Bioprocesses. CR. Soccol, D Brand, R Mohan, JAL. Rodriguez and Ashok Pandey, *Metals Materials and Processes*, 17(3-4), 195-206 (2005)
49. Natural food colorants, S Babitha, C Sandhya & Ashok Pandey, *Applied Botany Abstracts*, 23(4), 258-266 (2004)
50. Production of *Monascus* biopigments: An overview, JC Carvalho, Ashok Pandey, S Babitha & CR Soccol, *Agro-Food Industry Hi-tech*, 14, 37-42 (2003)
51. Bioremediation: An important alternative for soil and industrial wastes clean-up, CR Soccol, LPS Vandenberghe, AL Wojsciechowski, VT Soccol, CT Correia & Ashok Pandey, *Indian Journal of Experimental Biology*, 41, 1030-1045 (2003)
52. Food and freshwater in the world, hunger and genetically modified products, Ashok Pandey, *Agri-Food*, 1 (5), 1-5 (2003)- Interview
53. Jiv-vigyan me computer ka yogdan (Significance of computers in Biology- in Hindi), KM Nampoothiri & Ashok Pandey, *Vigyan Pragati*, July, 21-22 (2003)
54. Introduction [Editorial write-up on the special issue of the journal on bioactive molecules- in Hindi], Ashok Pandey, *Bhartiya Vaigyanik avm Audyogik Anusandhan Patrika*, 11(1), 3-4 (2003)
55. Advances in fermentation technology, K M Nampoothiri, Sumitra Ramachandran, CR Soccol & Ashok Pandey, *Cooperative Sugars*, 34(6), 471-477 (2003), Reprinted from the *International Sugar Journal*, 104 (1247), 493-499 (2002)
56. Preface, [Editorial write-up on the special issue of the journal on Microbial and Industrial Biotechnology], Ashok Pandey & C Larroche, *Indian Journal of Biotechnology*, 2 (3), 287-288 (2003)
57. Solid-state fermentation, Ashok Pandey, *Biochemical Engineering Journal*, 13 (2-3), 81-84 (2003)
58. Preface [Editorial write-up on the special issue of the journal on SSF] Ashok Pandey, *Biochemical Engineering Journal*, 13 (2-3), 79 (2003)
59. Advances in fermentation technology, K M Nampoothiri, Sumitra Ramachandran, CR Soccol & Ashok Pandey, *International Sugar Journal*, 104 (1247), 493-499 (2002)
60. Emerging bio-potential of gellan gum, C Sabarinath, CR Soccol & Ashok Pandey, *Agro-Food Industry Hi-Tech*, 13 (6), 32-37 (2002)
61. New Horizons in Biotechnology- An Introduction, Ashok Pandey & R Banerjee, *Applied Biochemistry and Biotechnology*, Special issue, 102-103, 1-3 (2002)
62. Bioindustrial applications of sugarcane bagasse: A technological perspective, R Banerjee & Ashok Pandey, *International Sugar Journal*, 104 (1238), 64-67 (2002)
63. Developments in Biotechnology: An overview. R Banerjee, G Mukherjee Ashok Pandey & A Sabu, *Indian Journal of Biotechnology*, 1(1), 9-16 (2002)
64. Utilization of agricultural and food waste and by-products by biotechnology. P Nigam, D Singh and Ashok Pandey, *Agro Food Industry Hi-tech/AG Biotech*, 12 (3), 26-29 (2001)
65. Production, purification and properties of microbial phytases. Ashok Pandey, G Szakacs, CR Soccol, J A Rodriguez-Leon & VT Soccol, *Bioresource Technology*, 77(3), 203-214 (2001)
66. Biotechnological treatment of pollutants. Ashok Pandey, P Nigam & D Singh, *Chemical Industry Digest*, 14 (4), 93-95 (2001)
67. Biopotential of microbial glutaminases. A Sabu, M Chandrasekaran & Ashok Pandey, *Chemistry Today/Chimica Oggi*, 18 (11-12), 21-25 (2000)
68. Panorama of lipases in bioindustry. S Benjamin & Ashok Pandey, *Biotech International Journal* 5(6), 11-13 (2000)
69. Biotechnological potential of coffee pulp and coffee husk for bioprocesses, Ashok Pandey, CR Soccol, P Nigam, D Brand, R Mohan & S Roussos, *Biochemical Engineering Journal*, 6(2), 153-162 (2000)

70. New developments in solid-state fermentation: II Rational approaches for bioreactor design and operation. DA Mitchell, N Krieger, DM Stuart & Ashok Pandey, *Process Biochemistry*, 35 (10), 1211-1225 (2000)
71. New developments in solid-state fermentation: I bioprocesses and products. Ashok Pandey, CR Soccol & DA Mitchell, *Process Biochemistry*, 35 (10), 1153-1169 (2000)
72. Biopotential of immobilized amylases. Ashok Pandey, CR. Soccol & VT Soccol, *Indian Journal of Microbiology*, 40 (1), 1-14 (2000)
73. Advances in microbial amylases. Ashok Pandey, P Nigam, CR. Soccol, D Singh, VT Soccol & R Mohan, *Biotechnology and Applied Biochemistry*, 31, 135-152 (2000)
74. Biotechnological potential of agro-industrial residues: II Cassava bagasse. Ashok Pandey, CR Soccol, P Nigam, VT Soccol, LPS Vandenberghe & R Mohan, *Bioresource Technology*, 74 (1), 81-87 (2000)
75. Biotechnological potential of agro-industrial residues: I Sugarcane bagasse. Ashok Pandey, CR Soccol, P Nigam & VT Soccol, *Bioresource Technology*, 74 (1), 69-80 (2000)
76. Economic utilization of crop residues for value addition - A futuristic approach, Ashok Pandey & CR Soccol, *Journal of Scientific and Industrial Research*, 59(1), 12-22 (2000)
77. Microbial production of citric acid, LPS Vandenberghe, CR Soccol, Ashok Pandey & J-M Lebeault, *Brazilian Archives of Biology and Technology*, 42 (3), 263-276 (1999)
78. The Realm of microbial lipases in biotechnology. Ashok Pandey, S Benjamin, CR Soccol, P Nigam, N Krieger & VT Soccol, *Biotechnology and Applied Biochemistry*, 29 (2), 119-131 (1999)
79. Recent developments in microbial inulinases - Its production, properties and industrial applications. Ashok Pandey, P Selvakumar, CR Soccol, VT Soccol, N Krieger & JD Fontana, *Applied Biochemistry and Biotechnology*, 81 (1), 35-52 (1999)
80. Solid-state fermentation for the production of industrial enzymes. Ashok Pandey, P Selvakumar, CR Soccol & P Nigam. *Current Science*, 77(1), 149-162 (1999)
81. Frontiers in Biotechnology: Introduction. Ashok Pandey, CR Soccol & VK Joshi. *Journal of Scientific and Industrial Research*, 57(10-11), 561-562 (1998) [Editorial material]
82. *Candida rugosa* lipases: Molecular biology and its versatility in biotechnology. S Benjamin & Ashok Pandey. *Yeast*, 14, 1069-1087 (1998)
83. Bioconversion of biomass: A case study of ligno-cellulosics bioconversions in solid-state fermentation. Ashok Pandey & CR Soccol, *Brazilian Archives of Biology and Technology*, 41(4), 379-390 (1998)
84. Genetic tuning of coryneform bacteria for the overproduction of amino acids. KM Nampoothiri & Ashok Pandey. *Process Biochemistry*, 33(2), 147-161 (1998)
85. *Candida rugosa* and its lipases - A retrospect. S Benjamin & Ashok Pandey. *Journal of Scientific and Industrial Research*, 57(1), 1-9 (1998)
86. The panorama of cyclosporin research. K Balakrishnan & Ashok Pandey. *Journal of Basic Microbiology*, 36(1), 1-27 (1996)
87. Production of biologically active secondary metabolites by solid-state fermentation. K Balakrishnan & Ashok Pandey. *Journal of Scientific and Industrial Research*, 55(5-6), 365-372 (1996)
88. Microbial synthesis of starch saccharifying enzyme in solid-state fermentation. P Selvakumar, L Ashakumary & Ashok Pandey. *Journal of Scientific and Industrial Research*, 55(5-6), 443-449 (1996)
89. Solid-state fermentation: Introduction. Ashok Pandey. *Journal of Scientific and Industrial Research*, 55(5-6), 311-312 (1996) [Editorial material]
90. Glucoamylase research: An overview. Ashok Pandey. *Starch/Starke*, 47(11), 439-445 (1995)
91. A policy framework for biotechnology research in developing countries like India. S Sureshkumar & Ashok Pandey. *Productivity*, 35(4), 665-672 (1995)
92. Recent process developments in solid-state fermentation. Ashok Pandey. *Process Biochemistry*, 27(2), 109-117 (1992)
93. Aspects for design of fermenter in solid-state fermentation. Ashok Pandey. *Process Biochemistry*, 26(3), 355-361 (1991)
94. Treatment of high strength plantation effluent: A management approach. Ashok Pandey & S Sureshkumar. *Encology*, 4, 16-20 (1990)
95. Non-nutritive sweeteners in food system. Ashok Pandey & P Nigam. *Indian Food Industry*, 6, 157-65 (1987)
96. Nutritive sweeteners in food system. P Nigam & Ashok Pandey. *Co-operative Sugars*, 18, 821-826 (1987)
97. Utilization of by-products of cane sugar industry. P Nigam & Ashok Pandey. *Co-operative Sugars*, 17, 539-542 (1986)

## B. ORIGINAL PAPERS

98. Development of a novel sequential pretreatment strategy for the production of bioethanol from sugarcane trash, S Raghavi, R Sindhu, P Binod, E Gnansoumou & Ashok Pandey, *Bioresource Technology*, 199, 202-210 (2016) **IF 4.494**
99. Solid-state fermentation for the production of biomass valorizing feruloyl esterase, N Gopalan, KM Nampoothiri, G Szakacs, P Binod & Ashok Pandey, *Biocatalysis and Agricultural Biotechnology*, 7, 7-13 (2016)
100. An evaluation of dilute acid and ammonia fiber explosion pretreatment for cellulosic ethanol production, AK Mathew, P Binod, RK Sukumaran & Ashok Pandey, *Bioresource Technology*, 199, 13-20 (2016) **IF 4.494**
101. Catalytic hydrolysis of cotton stalk biomass using a reusable solid carbon acid catalyst, Mandavi Goswami, S Meena, S Navatha, RBN Prasad, BLA Prabhavathi Devi, RK Sukumaran & Ashok Pandey, *Journal of Energy and Environmental Sustainability*, 1, 54-57 (2016)
102. Material balance studies for the conversion of sorghum stover to bioethanol, K Akanksha, RK Sukumaran, Ashok Pandey, SS Rao & P Binod, *Biomass and Bioenergy*, 85, 48-52 (2016)
103. Purification and characterisation of an acidic and antifungal chitinase produced by a *Streptomyces* sp., N Karthik, P Binod & Ashok Pandey, *Bioresource Technology*, 188, 195-201 (2015), **IF 4.494**
104. Cloning and expression of L-asparaginase from *E. coli* in eukaryotic expression system, S Sajitha, J Vidya, K Varsha, P Binod & Ashok Pandey, *Biochemical Engineering Journal* (2015) **IF 2.37**
105. Sugarcane bagasse as inert support for L - lysine production in solid-state fermentation, M Anusree, K M Nampoothiri & Ashok Pandey, *Indian Journal of Biotechnology* (2015) **IF 0.510**
106. Rice straw hydrolysate to fuel and volatile fatty acids conversion by *Clostridium sporogenes* BE01 Bio-electrochemical analysis of electron transport mediators involved, LD Gottumukkala, RK Sukumaran, S Venkatamohan, KV Sajna, O Sarkar & Ashok Pandey, *Green Chemistry*, 17(5), 3047-3058 (2015) **IF 8.02**
107. Evaluation of Amberlyst15 for hydrolysis of alkali pretreated rice straw and fermentation to ethanol, S Meena, S Navatha, DS Prabhavathi, RBN Prasad, Ashok Pandey & RK Sukumaran, *Biochemical Engineering Journal*, (2015) **IF 2.37**
108. Characterization of an exopolysaccharide with potential healthbenefit properties from a probiotic *Lactobacillus plantarum* RJF4, SV Dilna, H Surya, RG Aswathy, KK Varsha, DN Sakthikumar, Ashok Pandey & KM Nampoothiri, *LWT Food Science and Technology*, 64, 1179-1186 (2015)
109. Hydrolysis of biomass using a reusable solid carbon acid catalyst and fermentation of the catalytic hydrolysate to ethanol, M Goswami, S Meena, S Navatha, KN Prasanna Rani, Ashok Pandey, RK Sukumaran, RBN Prasad & DS Prabhavathi, *Bioresource Technology*, 188, 99-102 (2015) **IF 4.494**
110. Production of an alkaline xylanase from recombinant *Kluveromyces lactis* (KY1) by submerged fermentation and its application in bio-bleaching, L Thomas, R Sindhu, P Binod & Ashok Pandey, *Biochemical Engineering Journal*, (2015) **IF 2.645**
111. 2,4-Di-tert-butyl phenol as the antifungal, antioxidant bioactive purified from a newly isolated *Lactococcus* sp, KK Varsha, L Devendra, G Shilpa, S Priya, Ashok Pandey & KM Nampoothiri, *International Journal of Food Microbiology*, 211, 44-50 (2015)
112. Replacement P212H Altered the pH-Temperature Profile of Phytase from *Aspergillus niger* NII 08121, MV Ushasree, J Vidya & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 175 (6), 3084-3092 (2015) **IF 1.687**
113. Production and characterization of PHB from a novel isolate *Comomonas* sp. from a dairy effluent sample and its application in cell culture, TP Prabisha, R Sindhu, P Binod, V Sankar, KG Raghu & Ashok Pandey, *Biochemical Engineering Journal*, 101, 150-159 (2015) **IF 2.645**
114. Crude oil biodegradation aided by biosurfactants from *Pseudozyma* sp. NII 08165 or its culture broth, KV Sajna, RK Sukumaran, LD Gottumukkala & Ashok Pandey, *Bioresource Technology*, 191, 133-139 (2015) **IF 4.494**
115. Bioprocess development for docosahexaenoic acid (DHA) from novel fungal isolate of *Fusarium* sp. S Jini, A Hridya, Ashok Pandey & P Binod, *Indian Journal of Experimental Biology* 53, 364-370 (2015) **IF 0.753**
116. Production of a cellulase-free alkaline xylanase from *Bacillus pumilus* MTCC 5015 by submerged fermentation and its application in bio-bleaching, L Thomas, R Sindhu, P Binod & Ashok Pandey, *Indian Journal of Experimental Biology* 53, 356-363 (2015) **IF 0.753**
117. Application of a new xylanase activity from *Bacillus amyloliquefaciens* XR44A in Brewer's Spent Grain saccharification, A Amore, P, K Ramesh, L Birolo, R Vinciguerra, L Marcolongo, E Ionata, F Cara, Ashok Pandey & V Faraco, *Journal of Chemical Technology and Biotechnology*, 3, 573-581 (2015) **IF 2.49**



118. Physicochemical characterization of an exopolysaccharide produced by a newly isolated *Weissella cibaria*, SV Dilna, S Harikumar, DJ Beena, Ashok Pandey & K M Nampoothiri, *Applied Biochemistry and Biotechnology*, 176, 440-453 (2015) **IF 1.687**
119. Bioethanol production from acid pretreated Indian Bamboo variety (*Dendrocalamus* sp.) by separate hydrolysis and fermentation, R Sindhu, M Kuttiraja, P Binod, RK Sukumaran & Ashok Pandey, *Industrial Crops and Products*, 52, 169 – 176 (2014) **IF 2.468**
120. Physico-chemical characterization of alkali pretreated sugarcane tops and optimization of enzymatic saccharification using response surface methodology, R Sindhu, M Kuttiraja, P Binod, RK Sukumaran & Ashok Pandey, *Renewable Energy*, 62, 362-368 (2014) **IF 2.978**
121. Dilute acid pretreatment and enzymatic hydrolysis of sorghum biomass for sugar recovery – A statistical approach, K Akanksha, A Prasad, RK Sukumaran, KM Nampoothiri, Ashok Pandey, SS Rao & P Binod, *Indian Journal of Experimental Biology*, 52, 1082 – 1089 (2014) **IF 1.295**
122. Gene cloning and soluble expression of *Aspergillus niger* phytase in *E. coli* cytosol Via chaperone co-expression, MV Ushasree, J Vidya & Ashok Pandey, *Biotechnology Letters*, 36, 85 -91 (2014) **IF 1.853**
123. Esterase active in polar organic solvents from the yeast *Pseudozyma* sp NII 08165, A Deepthy, S Anju, Ashok Pandey & RK Sukumaran, *Enzyme Research*, Article ID 494682, 10 pages (2014) [dx.doi.org/10.1155/2014/494682](http://dx.doi.org/10.1155/2014/494682)
124. Alkali pretreated sugarcane tops hydrolysate for the production of poly-3-hydroxybutyrate by a dairy effluent isolate *Comomonas* sp., TP Prabisha, R Sindhu, P Binod, S Sajitha & Ashok Pandey, *Indian Journal of Biotechnology*, 13, 306 - 313 (2014) **IF 0.477**
125. Effect of surface charge alteration on stability of L-asparaginase II from *Escherichia* sp., J Vidya, MV Ushasree & Ashok Pandey, *Enzyme and Microbial Technology*, 56, 15–19 (2014) **IF 2.592**
126. Growth and butanol production by *Clostridium sporogenes* BE01 in rice straw hydrolysate: kinetics of inhibition by organic acids and the strategies for their removal, LD Gottumukkala, P Binod, KV Sajna, Ashok Pandey & RK Sukumaran, *Biomass Conversion and Biorefinery*, 1-7 (2014)
127. An alkali-thermostable xylanase from *Bacillus pumilus* functionally expressed in *Kluyveromyces lactis* and evaluation of its deinking efficiency, L Thomas, MV Ushasree & Ashok Pandey, *Bioresource Technology*, 165, 309-313 (2014) **IF 5.039**
128. Antifungal potentials of extracellular metabolites of a Western Ghats isolated *Streptomyces* sp. NII 1006 against moulds and yeasts, H Jayamurthy, KV Sajna, SG Dastagar & Ashok Pandey, *Indian Journal of Experimental Biology*, 52, 1138 – 1146 (2014) **IF 1.295**
129. Extracellular methionine aminopeptidase (MAP) production by *Streptomyces gedanensis* in solid-state fermentation, R. Rahulan, G. Manjunath, KM Nampoothiri, & Ashok Pandey, *Brazilian Archives of Biology and Technology*, 57, 187 – 193 (2014) **IF 0.551**
130. Mixed cultures fermentation for the production of poly-β-hydroxybutyrate, T Shalin, R Sindhu, P Binod, CR Soccol & Ashok Pandey, *Brazilian Archives of Biology and Technology*, 57, 1138 -1146 (2014) **IF 0.551**
131. Solid-state fermentation of food waste mixtures for single cell protein, aroma volatiles and fat production, T Aggelopoulos, K Katsieris, A Bekatoro, Ashok Pandey, IM Banat & AA Koutinas, *Food Chemistry*, 145, 710-716 (2014) **IF 3.259**
132. Kinetic constraints and features imposed by the immobilization of enzymes onto solid matrices: A key to advanced biotransformation, A Foukis, PY Stergiou, M Filuppou, M Koukouritaki, M Parapouli, LG Theodorou, E Hatziloukas, A Afendra, Ashok Pandey & EM Papamichael, Kinetic constraints and features imposed by the immobilization of enzymes onto solid matrices: A key to advanced biotransformation, *Indian Journal of Experimental Biology*, 52, 1045-1051 (2014) **IF 1.295**
133. Isolation, selection and evaluation of yeasts for use in fermentation of coffee beans by the wet process, GVM Pereira, VT Soccol, Ashok Pandey, ABP Medeiros, JMRA Lara, AL Gollo & CR Soccol, *International Journal of Food Microbiology*, 188, 60-66 (2014) **IF 3.155**
134. Extracellular expression of a thermostable phytase (phyA) in *Kluyveromyces lactis*, MV Ushasree, J Vidya & Ashok Pandey, *Process Biochemistry*, 49, 1440-1447 (2014) **IF 2.524**
135. Development of an operational strategy for fermentable sugar production from bamboo (*Dendrocalamus* sp.) for bioethanol production, M Kuttiraja, R Sindhu, VE Preeti, SV Sandhya, P Binod, S Vani, RK Sukumaran & Ashok Pandey, *Biomass and Bioenergy*, 59, 142 – 150 (2013) **IF 2.975**
136. A novel surfactant–assisted ultrasound pretreatment of sugarcane tops for improved enzymatic release of sugars, R Sindhu, M Kuttiraja, VE Preeti, S Vani, RK Sukumaran, P Binod & Ashok Pandey, *Bioresource Technology*, 135, 67-72 (2013) **IF 4.758**
137. Identification and characterization of a highly alkaline and thermo-tolerant novel xylanase from *Streptomyces* sp, Leya Thomas, R Sindhu & Ashok Pandey, *Biologia*, 68 (6), 1018-1024 (2013) **IF 0.557**
138. Evaluation of polymeric adsorbent resins for efficient detoxification of liquor generated during acid pretreatment of lignocellulosic biomass, SV Sandhya, K Kiran, M Kuttiraja, VE Preeti, R Sindhu, S Vani,

- RK Sukumaran, Ashok Pandey & P Binod, *Indian Journal of Experimental Biology*, 51, 1012 – 1017 (2013) IF 1.295
139. Highly glucose tolerant  $\beta$ -glucosidase from *Aspergillus unguis* NII 08123 for enhanced hydrolysis of biomass, KP Rajasree, GM Mathew, Ashok Pandey & RK Sukumaran, *Journal of Industrial Microbiology and Biotechnology*, 40, 967 – 975 (2013) IF 2.321
  140. Biobutanol production from rice straw by a non acetone producing *Clostridium sporogenes* BE01, LD Gottumukkala, P Parameswaran, SK Valappil, K Mathiyazhakan, Ashok Pandey & RK Sukumaran, *Bioresource Technology* (2013) IF 4.758
  141. Studies on biosurfactants from *Pseudozyma* sp. NII 08165 and their potential application as laundry detergent additives KV Sajna, RK. Sukumaran, H Jayamurthy, KK Reddy, S Kanjilal, RBN Prasad & Ashok Pandey, *Biochemical Engineering Journal*, 78, 85-92 (2013) IF 2.645
  142. Development of a bioprocess strategy for utilizing biodiesel industry generated crude glycerol for the production of poly-3-hydroxybutyrate, J Mathew, R Sindhu, Ashok Pandey & P Binod, *Journal of Scientific and Industrial Research*, 72, 596-602 (2013) IF 0.587
  143. Microbial synthesis of poly-3-hydroxybutyrate and its application as targeted drug delivery vehicle, A Althuri, J Mathew, R Sindhu, R Banerjee, Ashok Pandey & P Binod, *Bioresource Technology*, (2013) IF 4.758
  144. Discarded oranges and brewer's spent grains as promoting ingredients for microbial growth by submerged and solid state fermentation of agro-industrial waste mixtures, T Aggelopoulos, A Bekatorou, Ashok Pandey, M Kanellaki & AA Koutinas, *Applied Biochemistry and Biotechnology*, 170, 1885 – 1895 (2013) IF 1.893
  145. Pentose-rich hydrolysate from acid pretreated rice straw as a carbon source for the production of poly-3-hydroxybutyrate, R Sindhu, N Silviya, P Binod & Ashok Pandey, *Biochemical Engineering Journal*, 78, 67-72 (2013) IF 2.645
  146. Development of a novel solid-state fermentation strategy for the production of poly-3-hydroxybutyrate using polyurethane foams by *Bacillus sphaericus* NII 0838, NV Ramadas, R Sindhu, P Binod & Ashok Pandey, *Annals of Microbiology*, 63, 1265 - 1274 (2013) IF 0.689
  147. Studies on structural and physical characteristics of a novel exopolysaccharide from *Pseudozyma* sp. NII 08165, KV Sajna, RK Sukumaran, LD Guttumukkala, H Jayamurthy, KS Dhar & Ashok Pandey, *International Journal of Biological Macromolecules*, 59, 84-89 (2013) IF 2.596
  148. Fermented *Flourensia cernua* extracts and their *in vitro* assay against *penicillium expansum* and *Fusarium oxysporum*, MAD Leon, A Saenz, D Jasso-Cantu, R Rodriguez, Ashok Pandey, CN Aguliar, *Food Technology and Biotechnology*, 51, 233- 239 (2013) IF 0.977
  149. Fermented *Flourensia cernua* extracts and their *in vitro* assay against *Penicillium expansum* and *Fusarium oxysporum*, MAD León, A Saenz, D Jasso-Cantu, R Rodriguez, Ashok Pandey & CN Aguilar, *Food Technology and Biotechnology*, 51(2):233-239 (2013)
  150. Amino peptidase from *Streptomyces gedanensis* as a useful tool for protein hydrolysate preparations with improved functional properties, R Rahulan, K Dhar, KM Nampoothiri & Ashok Pandey, *Journal of Food Science*, 77(7), 791-797 (2012)
  151. Antioxidant and hepatoprotective potential of endo-polysaccharides from *Hericium erinaceus* grown on tofu whey, Z Zhang, G Lv, H Pan, Ashok Pandey, W He & L Fan, *International Journal of Biological Macromolecules*, 51 (5) , 1140-1146 (2012)
  152. Preparation of poly(l-lactide) blends and biodegradation by *Lentzea waywayandensis*, N Nair, KM Nampoothiri & Ashok Pandey, *Biotechnology Letters*, 34(11), 2031-2035 (2012)
  153. Surfactant-assisted acid pretreatment of sugarcane tops for bioethanol production, R Sindhu, M Kuttiraja, P Binod, VE Preeti, SV Sandhya, S Vani, RK Sukumaran & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 167, 1513-1526 (2012)
  154. An evaluation of chemical pretreatment methods for improving enzymatic saccharification of chili postharvest residue, VE Preeti, SV Sandhya, M Kuttiraja, R Sindhu, S Vani, RK Sukumaran, P Binod & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 167, 1489-1500 (2012)
  155. Co-culture of microalgae, Cyanobacteria, and Macromycetes for exopolysaccharides production: Preliminary optimization and partial characterization, S Angelis, AC Novak, EB Sydney, VT Soccol, JCCarvalho, Ashok Pandey MD Nosedá & CR Soccol, *Applied Biochemistry and Biotechnology*, 167, 1092-1106 (2012)
  156. Single-step purification and immobilization of MBP-phytase fusion on starch agar beads: Application in dephytination of soy milk, MV Ushasree, P Gunasekaran & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 167, 981-990 (2012)
  157. Recombinant expression and characterization of L-Asparaginase II from a moderately thermotolerant bacterial isolate, J Vidya & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 167, 973-980 (2012)

158. Energy requirement for alkali assisted microwave and high pressure reactor pretreatments of cotton plant residue and its hydrolysis for fermentable sugar production for biofuel application, S Vani, P Binod, M Kuttiraja, R Sindhu, SV Sandhya, VE Preeti, RK Sukumaran & Ashok Pandey, *Bioresource Technology*, 112, 300-307 (2012) **Cover page paper**
159. Production of potential vaccine against *Dermatobia hominis* for cattle NLM Fernandes, SM Zanata, M Rönnau, CR Soccol, Ashok Pandey & VT Soccol, *Applied Biochemistry and Biotechnology*, 167, 412-424 (2012)
160. New horizons in biotechnology – Preface, Ashok Pandey, C Larroche, DJ Lee & CR Soccol, *Applied Biochemistry and Biotechnology*, 167(5), 929-930 (2012)
161. Characterization of a novel leucine amino peptidase from *Streptomyces gedanensis* and its applications for protein hydrolysis, R Rahulan, K Dhar, KM Nampoothiri & Ashok Pandey, *Process Biochemistry*, 47(2), 234-242 (2012)
162. Production of powerful anti-oxidant supplements via solid-state fermentation of wheat (*Triticum aestivum* Linn.) by *Cordyceps militaris*, Z Zhang, G Lv, H Pan, L Fan, CR Soccol & Ashok Pandey, *Food Technology and Biotechnology*, 50(1), 32-39 (2012)
163. Organosolvent pretreatment and enzymatic hydrolysis of rice straw for the production of bioethanol, R Sindhu, P Binod, KU Janu, RK Sukumaran & Ashok Pandey, *World Journal of Microbiology and Biotechnology*, 28, 473-483 (2012)
164. High temperature pretreatment and hydrolysis of cotton stalk for producing sugars for bioethanol production, P Binod, M Kuttiraja, M Archana, KU Janu, R Sindhu, RK. Sukumaran & Ashok Pandey, *Fuel*, 92(1), 340-345 (2012)
165. Short duration microwave assisted pretreatment enhances the enzymatic saccharification and fermentable sugar yield from sugarcane bagasse, P Binod, K Satyanagalakshmi, R Sindhu, KU Janu, RK. Sukumaran & Ashok Pandey, *Renewable Energy*, 37(1), 109-116 (2012)
166. Isolation and characterization of a novel  $\alpha$ -amylase from a metagenomic library of Western Ghats of Kerala, India, J Vidya, S Swaroop, SK Singh, D Alex, RK Sukumaran & Ashok Pandey, *Biologia*, 66(6), 939-944 (2011)
167. Dilute acid pretreatment and enzymatic saccharification of sugarcane tops for bioethanol production, R Sindhu, M Kuttiraja, P Binod, KU Janu, RK Sukumaran & Ashok Pandey, *Bioresource Technology*, 102, 10915 – 10921 (2011)
168. Media engineering for the production of poly- $\beta$ -hydroxybutyrate production by *Bacillus firmus* NII 0830, SK Deepthi, P Binod, R Sindhu & Ashok Pandey, *Journal of Scientific and Industrial Research*, 70 (11), 968 – 975 (2011)
169. Studies on physicochemical changes during alkali pretreatment and optimization of hydrolysis conditions to improve sugar yield from bagasse, KU Janu, R Sindhu, P Binod, M Kuttiraja, RK Sukumaran & Ashok Pandey, *Journal of Scientific and Industrial Research*, 70 (11), 952 – 958 (2011)
170. Production and characterization of poly-3- hydroxybutyrate from crude glycerol by *Bacillus sphaericus* NII 0838 and improving its thermal properties by blending with other polymers, R Sindhu, B Ammu, P Binod, SK Deepthi, KB Ramachandran, CR Soccol & Ashok Pandey, *Brazilian Archives of Biology and Technology*, 54 (4), 783 – 794 (2011)
171. Bioethanol production from acid pretreated water hyacinth by separate hydrolysis and fermentation, K Satyanagalakshmi, R Sindhu, P Binod, KU Janu, RK Sukumaran & Ashok Pandey, *Journal of Scientific and Industrial Research*, 70 (2), 156 – 161 (2011)
172. Plant growth promoting potential of *Pontibacter niistensis* in cowpea *Vigna unguiculata* (L. Walp.) SG Dastager, CK Deepa & Ashok Pandey, *Applied Soil Ecology*, 49, 250-255 (2011) IF 2.399
173. Antitumour activity of *Grifola frondosa* exopolysaccharides produced by submerged fermentation using sugar cane and soy molasses as carbon source, JS Chimilovski, S Habu, RFB Teixeira, VT Soccol, MD Nosedá, ABP Medeiros, Ashok Pandey & CR Soccol, *Food Technology and Biotechnology*, 49(3), 359-363 (2011)
174. Alpha amylase production by *Bacillus amyloliquefaciens* using agro wastes as feed stock, D Gangadharan, KM Nampoothiri & Ashok Pandey, *Food Technology and Biotechnology*, 49(3), 336-340 (2011)
175. A comparative analysis of recombinant expression and solubility screening of two phytases in *E coli*, MV Ushasree, SHB Salim & Ashok Pandey, *Food Technology and Biotechnology*, 49(3), 304-309 (2011)
176. Cloning, functional expression and characterization of L-asparaginase II from *E coli* MTCC 739, J Vidya, MV Ushasree, CR Soccol & Ashok Pandey, *Food Technology and Biotechnology*, 49(3), 286-290 (2011)
177. Application of polymerase chain reaction for high sensitivity detection of roundup ready™ soybean seeds and grains in varietal mixtures, GBA Pinto, M Silva, R Greiner, U Konietzny, CR Soccol, MG Spier, MADSC Filho, Ashok Pandey & VT Soccol, *Food Technology and Biotechnology*, 49(3), 277-285 (2011)



178. Properties of a major  $\beta$ -glucosidase-BGL1 from *Aspergillus niger* NII-08121 expressed differentially in response to carbon sources, Reeta Rani Singhanian, RK Sukumaran, KP Rajasree, A Mathew, L Gottumukkala & Ashok Pandey, *Process Biochemistry*, 46(7), 1521-1524 (2011)
179. Production of leucine amino peptidase in lab scale bioreactors using *Streptomyces gedanensis*, R Rahulan, KS Dhar, KM Nampoothiri & Ashok Pandey, *Bioresource Technology*, 102(17), 8171-8178 (2011)
180. Growth enhancement of black pepper (*Piper nigrum* L.) by a newly isolated *Bacillus tequilensis* NII-0943, SG Dastager, CK Deepa & Ashok Pandey, *Biologia*, 66(5), 801-806 (2011)
181. Potential plant growth-promoting activity of *Serratia nematodiphila* NII-0928 on black pepper (*Piper nigrum* L.), SG Dastager, CK Deepa & Ashok Pandey, *World Journal of Microbiology and Biotechnology*, 27(2), 259-265 (2011)
182. *Paracoccus niistensis* sp nov., isolated from forest soil, India, SG Dastager, CK Deepa, WJ Li, SK Tang & Ashok Pandey, *Antonie van Leeuwenhoek Journal of General and Molecular Microbiology*. 99(3), 501-506 (2011) IF 1.983
183. Proline-specific extracellular aminopeptidase purified from *Streptomyces lavendulae*, A Nandan, Ashok Pandey & KM Nampoothiri, *Applied Biochemistry and Biotechnology*, 163, 994-1001 (2011)
184. An improved bioprocess for extracellular L-leucine amino peptidase production using *Streptomyces gedanensis*, Raji Rahulan, Ashok Pandey & KM Nampoothiri, *Current Microbiology*, 62, 1009-1016 (2011)
185. Bioethanol production from acid pretreated water hyacinth by separate hydrolysis and fermentation, K Satyanagalakshmi, R Sindhu, P Binod, KU Janu, RK Sukumaran & Ashok Pandey, *Journal of Scientific & Industrial Research*, 70 (2), 156-161 (2011)
186. Application of the biorefinery concept to produce L-lactic acid from the soybean vinasse at laboratory and pilot scale, SG Karp, AH Igashiyama, PF Siqueira, JC Carvalho, LPS Vandenberghe, VT Soccol, J Coral, JL Tholozan, Ashok Pandey & CR Soccol, *Bioresource Technology*, 102(2), 1765-1772 (2011)
187. Pretreatment of Douglas fir wood biomass for improving saccharification efficiencies, Reeta Rani Singhanian, S Chiesa, RK Sukumaran, JD Villegas, AK Patel, E Gnansounou & Ashok Pandey, *ASTM Special Technical Publication*, 1477, 518-529 (2011)
188. *Pontibacter niistensis* sp. nov., isolated from forest soil in India, SG Dastager, QS Raziuddin, CK Deepa, WJ Li & Ashok Pandey, *International Journal of Systematic Evolutionary Microbiology*, 60(12), 2867-2870 (2010)
189. Plant growth-promoting activity in newly isolated *Bacillus thio-parus* (NII-0902) from Western ghat forest, India, CK Deepa, SG Dastager & Ashok Pandey, *World Journal of Microbiology and Biotechnology*, 26(12), 2277-2283 (2010)
190. Arginine specific aminopeptidase from *Lactobacillus brevis*, A Nandan, A Gaurav, Ashok Pandey & KM Nampoothiri, *Brazilian Archives of Biology and Technology*, 53(6), 1443-1450 (2010)
191. *Nocardioiodes mesophilus* sp. nov., isolated from soil, SG Dastager, JC Lee, Ashok Pandey & CJ Kim, *International Journal of Systematic Evolutionary Microbiology*, 60, 2288-2291 (2010)
192. Isolation and characterization of novel plant growth promoting *Micrococcus* sp NII-0909 and its interaction with cowpea, SG Dastager, CK Deepa & Ashok Pandey, *Plant Physiology and Biochemistry*, 48(12), 987-992 (2010) IF 2.485
193. Formic acid as a potential pretreatment agent for the conversion of sugarcane bagasse to bioethanol, R Sindhu, P Binod, K Satyanagalakshmi, KU Janu, KV Sajna, N Kurien, RK Sukumaran & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 162(8), 2313-2323 (2010)
194. A statistical approach for optimization of polyhydroxybutyrate production by *Bacillus sphaericus* NCIM 5149 under submerged fermentation using central composite design, NV Ramadas, CR Soccol & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 162(3), 996-1007(2010)
195. Folate-producing lactic acid bacteria from cow's milk with probiotic characteristics, D Gangadharan, S Sivaramakrishnan, Ashok Pandey & KM Nampoothiri, *International Journal of Dairy Technology*, 63(3), 339-348 (2010)
196. Computational fluid dynamics modelling of gas dispersion in multi impeller bioreactor, SU Ahmed, P Ranganathan, Ashok Pandey & S Savithiri, *Journal of Bioscience and Bioengineering*, 109(6), 588-597 (2010)
197. Isolation and characterization of plant-growth promoting rhizobacteria from non-rhizospheric soil and their effect on cowpea (*Vigna unguiculata* (L.) Walp.) seedling growth, CK Deepa, SG Dastager & Ashok Pandey, *World Journal of Microbiology Biotechnology*, 26(7), 1233-1240 (2010)
198. Molecular cloning, over-expression and characterization of the raw starch digesting alpha-amylase of *Bacillus amyloliquefaciens*, D Gangadharan, P Ramachandran, P Gunasekaran, Ashok Pandey & KM Nampoothiri, *Biologia- Cellular and Molecular Biology*, 65(3), 392-398 (2010)

199. Potential carbon dioxide fixation by industrially important microalgae, EB Sydney, W Sturm, JCde Carvalho, VT Soccol, C Larroche, Ashok Pandey & CR Soccol, *Bioresource Technology*, 101(14), 5892-5896 (2010)
200. Characterization of plant-growth promoting rhizobacteria *Exiguobacterium* NII-0906 and its growth promotion on cowpea (*Vigna unguiculata* (L.) Walp.), SG Dastager, CK Deepa & Ashok Pandey, *Biologia-Cellular and Molecular Biology*, 65(2), 197-203 (2010)
201. Investigation on  $\alpha$ -galactosidase production by *Streptomyces griseoloalbus* in a forcefully aerated packed-bed bioreactor operating in solid-state fermentation condition, GS Anisha, RP John, P Prema & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 160(2), 421-427 (2010)
202. Bioethanol from water hyacinth biomass: an evaluation of enzymatic saccharification strategy, US Aswathy, RK Sukumaran G Lalitha Devi, KP Rajasree, Reeta Rani Singhanian & Ashok Pandey, *Bioresource Technology*, 101(3), 925-930 (2010)
203. Isolation and characterization of high-strength phenol degrading novel bacterium of *Pantoea* genus, Syed G Dastager, CK Deepa & Ashok Pandey, *Bioremediation Journal*, 13(4), 171-179 (2009)
204. Isolation and characterization of plant growth-promoting strain *Pantoea* NII-186 from Western ghat forest soil, India, SG Dastager, CK Deepa, CS Nautiyal, C Puneet & Ashok Pandey, *Letters in Applied Microbiology*, 49(1), 20-25 (2009)
205. Compactin production studies using *Penicillium brevicompactum* under solid-state fermentation conditions NS Shaligram, SK Singh, RS Singhal, Ashok Pandey & G Szakacs, *Applied Biochemistry and Biotechnology*, 159(2), 505-520 (2009)
206. Polyphasic taxonomy of novel *Actinobacteria* showing macromolecule degradation potentials in Bigeum Island, Korea, SG Dastager, Ashok Pandey, JC Lee, WJ Li & CJ Kim, *Current Microbiology*, 59(1), 21-29 (2009)
207. Biosynthesis of silver nanoparticles using aqueous extract from the compactin producing fungal strain, NS Shaligram, M Bule, R Bhambure, RS Singhal, SK Singh, G Szakacs & Ashok Pandey, *Process Biochemistry*, 44(8), 939-943 (2009)
208. Biochemical characterization of raw-starch-digesting alpha amylase purified from *Bacillus amyloliquefaciens*, D Gangadharan, KM Nampoothiri, S Sivaramakrishnan & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 158(3), 653-662 (2009)
209. Effect of precultural and nutritional parameters on compactin production by solid-state fermentation, NS Shaligram, SK Singh, RS Singhal, G Szakacs & Ashok Pandey, *Journal of Microbiology and Biotechnology*, 19(7), 690-697 (2009)
210. Improvement on citric acid production in solid-state fermentation by *Aspergillus niger* LPB BC mutant using citric pulp, C Rodrigues, LPS Vandenberghe, J Teodoro, Ashok Pandey & CR Soccol, *Applied Biochemistry and Biotechnology*, 158 (1), 72-87 (2009)
211. Improving fruity aroma production by fungi in SSF using citric pulp, SC Rossi, LPS Vandenberghe, BMP Pereira, FD Gago, JA Rizzolo, Ashok Pandey, CR Soccol & ABP Medeiros, *Food Research International*, 42(4), 484-486 (2009)
212. Utilization of soybean vinasse for  $\alpha$ -galactosidase production, CTN Sanada, SG Karp, MR Spier, AC Portella, PM Gouvêa, CT Yamaguishi, LPS Vandenberghe, Ashok Pandey & CR Soccol, *Food Research International*, 42(4), 476-483 (2009)
213. Enzymatic synthesis of banana flavour (isoamyl acetate) by *Bacillus licheniformis* S-86 esterase, S Torres, MD Baigorí, SL Swathy, Ashok Pandey & GR Castro, *Food Research International*, 42(4), 454-460 (2009)
214. Enrichment of gamma linolenic acid in the lipid extracted from *Mucor zychae* MTCC 5420, SU Ahmed, KK Reddy, SL Swathy, SK Singh, S Kanjilal, RBN Prasad & Ashok Pandey, *Food Research International*, 42(4), 449-453 (2009)
215. Immobilized bacterial  $\alpha$ -amylase for effective hydrolysis of raw and soluble starch, D Gangadharan, KM Nampoothiri, S Sivaramakrishnan & Ashok Pandey, *Food Research International*, 42(4), 436-442 (2009)
216. Biotechnological process for producing black bean slurry without stachyose, CT Yamaguishi, CT Sanada, PM Gouvêa, Ashok Pandey, AL Woiciechowski, JL Parada & CR Soccol, *Food Research International*, 42(4), 425-429 (2009)
217. Phytodegradation potential of *Erythrina crista-galli* L., Fabaceae, in petroleum-contaminated soil, Vanessa de Farias, LT Maranhão, EC de Vasconcelos, MASC Filho, LG Lacerda, JAM Azevedo, Ashok Pandey & CR Soccol, *Applied Biochemistry and Biotechnology*, 157(1), 10-22 (2009)
218. Application of response surface method for studying the role of dissolved oxygen and agitation speed on gamma-linolenic acid production, SU Ahmed, SK Singh, Ashok Pandey, S Kanjilal & RBN Prasad, *Applied Biochemistry and Biotechnology*, 158(1), 108-116 (2009)
219. Production and partial purification of  $\alpha$ -amylase from a novel isolate *Streptomyces gulbargensis*, SG Dastager, A Dayanand & Ashok Pandey, *Journal of Industrial Microbiology & Biotechnology*, 36 (2), 189-194 (2009)

220. Polyhydroxybutyrate production using agro-industrial residue as substrate by *Bacillus sphaericus* NCIM 5149, Nisha V Ramadas, SK Singh, CR Soccol & Ashok Pandey, *Brazilian Archives of Biology and Technology*, 52(1), 17-23 (2009)
221. An organic solvent tolerant esterase from thermophilic *Bacillus licheniformis* S-86, S Torres, MA Martinez, Ashok Pandey & GR Castro, *Bioresource Technology*, 100 (2), 890-895 (2009)
222. Statistical optimization of L-leucine amino peptidase production from *Streptomyces gedanensis* IFO 13427 under submerged fermentation using response surface methodology, R Rahulan, KM Nampoothiri, G Szakacs, V Nagy & Ashok Pandey, *Biochemical Engineering Journal*, 43(1), 64-71 (2009)
223. Cellulase production using biomass feed stock and its application in lignocellulose saccharification for bioethanol production, RK Sukumaran, Reeta Rani Singhanian, GM Mathew & Ashok Pandey, *Renewable Energy*, 34(2), 421-424 (2009)
225. Molecular cloning, over-expression and biochemical characterization of hypothetical beta lactamases of *Mycobacterium tuberculosis* H37Rv, KM Nampoothiri, R Rubex, AK Patel, SS Narayanan, S Krishna, SM Das & Ashok Pandey, *Journal of Applied Microbiology*, 105(1), 59-67 (2008)
226. L(+)-Lactic acid recovery from cassava bagasse based fermented medium using anion exchange resins, RP John, KM & Ashok Pandey, *Brazilian Archives of Biology and Technology*, 51(6), 1241-1248 (2008)
227. Fatty acid profiling during microbial lipid production under varying  $pO_2$  and impeller tip speeds, SU Ahmed, SK Singh, Ashok Pandey, S Kanjilal & RBN Prasad, *Applied Biochemistry and Biotechnology*, 151(2-3), 599-609 (2008)
228. Effect of organic solvents on immobilized lipase in pectin microspheres, L Costas, VE Bosio, Ashok Pandey & GR Castro, *Applied Biochemistry and Biotechnology*, 151(2-3), 587-598 (2008)
229. Fed-batch production of gluconic acid by terpene-treated *Aspergillus niger* spores, Sumitra Ramachandran, P Fontanille, Ashok Pandey & C Larroche, *Applied Biochemistry and Biotechnology*, 151 (2-3), 413-423 (2008)
230. Selection and optimization of *Bacillus atrophaeus* inoculum medium and its effect on spore yield and thermal resistance, SRBR Sella, REF Dlugokenski, BP Guizelini, LPS Vandenberghe, ABP Mediros, Ashok Pandey & CR Soccol, *Applied Biochemistry and Biotechnology*, 151 (2-3), 380-392 (2008)
231. Batch fermentation model of propionic acid production by *Propionibacterium acidipropionici* in different carbon sources, J Coral, SG Karp, LPS Vandenberghe, JL Parada, Ashok Pandey & CR Soccol, *Applied Biochemistry and Biotechnology*, 151(2-3), 333-341 (2008)
232. Production and characterization of the exopolysaccharides produced by *Agaricus brasiliensis* in submerged fermentation, LFO Lima, S Habu, JC Gern, BM Nascimento, JL Parada, MD Nosedá, AG Gonsalves, VR Nisha, Ashok Pandey, VT Soccol & CR Soccol, *Applied Biochemistry and Biotechnology*, 151(2-3), 283-294 (2008)
233. Production and purification of a solvent-resistant esterase from *Bacillus licheniformis* S-86, S Torres, MD Baigorí, Ashok Pandey & GR Castro, *Applied Biochemistry and Biotechnology*, 151(2-3), 221-232 (2008)
234. Cellulase production under solid-state fermentation by *Trichoderma reesei* RUT C30: Statistical optimization of process parameters, NK Mekala, RR Singhanian, Reeta Rani Singhanian, RK Sukumaran & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 151(2-3), 122-131 (2008)
235. Biodegradation of polycyclic aromatic hydrocarbons by laccase of *Pycnoporus sanguineus* and toxicity evaluation of treated PAH, U Munusamy, V Sabaratnam, S Muniandy, N Abdullah, Ashok Pandey & EBG Jones, *Biotechnology*, 7(4), 669-677 (2008)
236. Exploration of fungal spores as a possible storehouse of proteolytic biocatalysts, A Sumantha, C Larroche & Ashok Pandey, *World Journal of Microbiology and Biotechnology*, 24, 2897-2901 (2008)
237. Production of bioethanol from soybean molasses by *Saccharomyces cerevisiae* at laboratory, pilot and industrial scales, PF Siqueira, SG Karp, JC Carvalho, W Sturm, JA Rodríguez-León, JL Tholozan, Reeta Rani Singhanian, Ashok Pandey & CR Soccol, *Bioresource Technology*, 99(17), 8156-8163 (2008)
238. Effect of light on growth, pigment production and culture morphology of *Monascus purpureus* in solid-state fermentation, S Babitha, JC Carvalho, CR Soccol & Ashok Pandey, *World Journal of Microbiology and Biotechnology*, 24(11), 2671-2675 (2008)
239. Characterization of laccase from *Pycnoporus sanguineus* KUM 60953 and KUM 60954, U Munusamy, V Sabaratnam, S Muniandy, N Abdullah, Ashok Pandey & EBG Jones, *Journal of Biological Sciences*, 8(5), 866-873 (2008)
240. Compactin production in solid-state fermentation using orthogonal array method by *P. brevicompactum*, NS Shaligram, SK Singh, RS Singhal, G Szakacs & Ashok Pandey, *Biochemical Engineering Journal*, 44(3), 295-300 (2008)
241. Stability of glucose oxidase activity of *Aspergillus niger* spores produced by solid-state fermentation and their role as biocatalyst in bioconversion reaction, Sumitra Nair, P Fontanille, Ashok Pandey & C Larroche, *Food Technology and Biotechnology*, 46(2), 190-194 (2008)



242. Xylanase production by *Aspergillus niger* LPB 326 in solid-state fermentation using statistical experimental design, GM Maciel, LPS Vandenberghe, CWI Haminiuk, RC Fendrich, BED Bianca, TQD Brandalize, Ashok Pandey & CR Soccol, *Food Technology and Biotechnology*, 46(2), 183-189 (2008)
243. Phytase production using citric pulp and other residues of the agro-industry in SSF by fungal isolates, MR Spier, R Greiner, JA Rodriguez-Leon, AL Woiciechowski, Ashok Pandey, VT Soccol & CR Soccol, *Food Technology and Biotechnology*, 46(2), 178-182 (2008)
244. Response surface methodology for the optimization of alpha amylase production by *Bacillus amyloliquefaciens*, D Gangadharan, S Sivaramakrishnan, KM Nampoothiri, RK Sukumaran & Ashok Pandey, *Bioresource Technology*, 99, 4597-4602 (2008)
245. Permeabilization and inhibition of the germination of spores of *Aspergillus niger* for gluconic acid production from glucose, Sumitra Ramachandran, P Fontanille, Ashok Pandey, C Larroche, *Bioresource Technology*, 99, 4559-4565 (2008)
246. Production of L-leucine aminopeptidase by selected *Streptomyces* isolates, V Nagy, KM Nampoothiri, Ashok Pandey, R Rahulan & G Szakacs, *Journal of Applied Microbiology*, 104, 380-387 (2008)
247. Evaluation of fungal culture filtrate containing chitinase as a biocontrol agent against *Helicoverpa armigera*, P Binod, RK Sukumaran, SV Shirke, JC Rajput & Ashok Pandey, *Journal of Applied Microbiology*, 103(5), 1845-1852 (2007)
248. Statistical optimization of simultaneous saccharification and L (+)-lactic acid fermentation from cassava bagasse using mixed culture of lactobacilli by response surface methodology, RP John, RK Sukumaran, KM Nampoothiri & Ashok Pandey, *Biochemical Engineering Journal*, 36(3), 262-267 (2007)
249. Improved cellulase production by *Trichoderma reesei* RUT C30 under SSF through process optimization, Reeta Rani Singhania, RK Sukumaran & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 142, 60-70 (2007) IF 1.7
250. Identification and phylogenetic analysis of the TEM gene from the soil isolates, SK Singh, AK Patel, SU Ahmed, KM Nampoothiri & Ashok Pandey, *Journal of Scientific and Industrial Research*, 66(8), 660-666 (2007)
251. Polyurethane foam as an inert carrier for the production of L(+) lactic acid by *Lactobacillus casei* under solid-state fermentation, RP John, KM Nampoothiri & Ashok Pandey, *Letters in Applied Microbiology*, 44(6), 582-587 (2007)
252. Alpha amylase production by *Aspergillus oryzae* employing solid-state fermentation, S Sivaramakrishnan, D Gangadharan, KM Nampoothiri, CR Soccol & Ashok Pandey, *Journal of Scientific and Industrial Research*, 66(8), 621-626 (2007)
253. Effect of stress on growth, pigment production and morphology of *Monascus* sp. in solid cultures, S Babitha, CR Soccol & Ashok Pandey, *Journal of Basic Microbiology*, 47(2), 118-126 (2007)
254. Fungal biosynthesis of endochitinase and chitinase in solid-state fermentation and their application for the production of N-acetyl-d-glucosamine from colloidal chitin, P Binod, C Sandhya, P Suma, G Szakacs & Ashok Pandey, *Bioresource Technology*, 98(14), 2742-2748 (2007) IF 3.108
255. Effect of substrates on the production of *Monascus* pigment by solid-state fermentation and pigment extraction using different solvents, JC Carvalho, BO Oishi, AL Woiciechowski, Ashok Pandey, S Babitha & CR Soccol, *Indian Journal of Biotechnology*, 6(2), 194-199 (2007)
256. Spores of *Aspergillus niger* as reservoir of glucose oxidase synthesized during solid-state fermentation and their use as catalyst in gluconic acid production, Sumitra Ramachandran, P Fontanille, Ashok Pandey & C Larroche, *Letters in Applied Microbiology*, 44(2), 155-160 (2007)
257. Production of L(+) lactic acid from cassava starch hydrolyzate by immobilized *Lactobacillus delbrueckii*, RP John, KM Nampoothiri & Ashok Pandey, *Journal of Basic Microbiology*, 47(1), 25-30 (2007)
258. Solid-state fermentation for the production of *Monascus* pigments from jackfruit seed, S Babitha, CR Soccol & Ashok Pandey, *Bioresource Technology*, 98(8), 1561-1566 (2007)
259. Effect of nutritional and environmental conditions on production of exo-polysaccharide by *Agaricus brasiliensis* by submerged fermentation and its antitumor activity, L Fan, AT Soccol, Ashok Pandey & CR Soccol, *LWT Food Science & Technology*, 40(1), 30-35 (2007)
260. Simultaneous saccharification and L(+)-lactic acid fermentation of protease-treated wheat bran using mixed culture of lactobacilli, RP John, KM Nampoothiri & Ashok Pandey, *Biotechnology Letter*, 28(22), 1223-1226 (2006)
261. Effect of caffeine and tannins on cultivation and fructification of *Pleurotus* on coffee husks, L Fan, AT Soccol, Ashok Pandey, LPS Vandenberghe & CR Soccol, *Brazilian Journal of Microbiology*, 37:420-424 (2006)
262. Statistical approach to optimization of fermentative production of gellan gum from *Sphingomonas paucimobilis* ATCC 31461, IB Bajaj, PS Saudagar, RS Singhal & Ashok Pandey, *Journal of Bioscience and Bioengineering*, 102, 150-156 (2006)

263. Jackfruit seed – A novel substrate for the production of *Monascus* pigments through solid-state fermentation, S Babitha, C R. Soccol & Ashok Pandey, *Food Technology and Biotechnology*, 44(4), 465-471 (2006)
264. Rice bran as a substrate for proteolytic enzyme production, A Sumantha, Paul Deepa, C Sandhya, G Szakacs, CR Soccol & Ashok Pandey, *Brazilian Archives of Biology and Technology*, 49(5), 843-851 (2006)
265. Simultaneous saccharification and fermentation of cassava bagasse for L(+)-lactic acid production using lactobacilli, RP John, KM Nampoothiri & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 134(3), 263-272 (2006)
266. Solid-state fermentation of lignocellulosic substrates for cellulase production by *Trichoderma reesei* NRRL 11460, Reeta Rani Singhania, RK Sukumaran, A Pillai, P Prema, George Szakacs & Ashok Pandey, *Indian Journal of Biotechnology*, 5(3), 332-336 (2006)
267. Effect of various process parameters for the production of gamma linoleic acid in submerged fermentation, SU Ahmed, SK Singh, Ashok Pandey, S Kanjilal, RBN Prasad, *Food Technology and Biotechnology*, 44(2), 283-288 (2006)
268. Solid culturing of *Bacillus amyloliquefaciens* for alpha amylase production, D Gangadharan, S Sivaramakrishnan, KM Nampoothiri, Ashok Pandey, *Food Technology and Biotechnology*, 44(2), 269-274 (2006)
269. Relation between growth, respirometric analysis and biopigments production from *Monascus* by solid-state fermentation, JC Carvalho, Ashok Pandey, BO Oishi, D Brand, JAR Léon, CR Soccol, *Biochemical Engineering Journal*, 29(3), 262-269 (2006)
270. Solid-state fermentation for L-lactic acid production from agro wastes using *Lactobacillus delbrueckii*, RP John, KM Nampoothiri & Ashok Pandey, *Process Biochemistry*, 41(4), 959-963 (2006)
271. Comparison of phytase production on wheat bran and oilcakes in solid-state fermentation by *Mucor racemosus*, K Roopesh, Sumitra Ramachandran, KM Nampoothiri, G Szakacs & Ashok Pandey, *Bioresource Technology*, 97(3), 506-511 (2006)
272. Production and recovery of aroma compounds produced by solid-state fermentation using different adsorbents, ABP Medeiros, Ashok Pandey, LPS Vandenberghe, GM Pastore & CR Soccol, *Food Technology and Biotechnology*, 44(1), 47-51 (2006)
273. Productivity of laccase in solid substrate fermentation of selected agro-residues by *Pycnosporus sanguineus*, S. Vikineswary, N Abdullah, M. Renuthavathani, M. Sekaran, Ashok Pandey & EBG Jones, *Bioresource Technology*, 97(1), 171-177 (2006)
274. Tannase production by *Lactobacillus* sp. ASR-S1 under solid-state fermentation, A. Sabu, C. Augur, C Swathi & Ashok Pandey, *Process Biochemistry*, 41(30), 575-580 (2006)
275. Biopigments from *Monascus*: Strains selection, citrinin production and colour stability, JC Carvalho, BO Oishi, Ashok Pandey & CR Soccol, *Brazilian Archives of Biology and Technology*, 48(6), 885-894 (2005)
276. Production and partial purification of a neutral metalloprotease by fungal mixed substrate fermentation, A Sumantha, C Sandhya, G Szakacs, CR. Soccol & Ashok Pandey, *Food Technology and Biotechnology*, 43(4) 313–319 (2005)
277. L-leucine aminopeptidase production by filamentous *Aspergillus* fungi, KM Nampoothiri, V Nagy, K Kovacs, G. Szakacs and Ashok Pandey, *Letters in Applied Microbiology*, 41, 498-504 (2005)
278. Microbial synthesis of chitinase in solid cultures and its potential as biocontrol agent phytopathogenic fungus *Colletotrichum gloeosporioides*, C Sandhya, P Binod, G Szakacs & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 127(1), 1-16 (2005)
279. Purification, characterization and some studies on secondary structure of tannase from *Aspergillus awamori* nkcazawa, K Mahapatra, RK Nanda, R Banerjee, Ashok Pandey & G Szakacs, *Process Biochemistry*, 40, 3251-3254 (2005)
280. L(+)- lactic acid production using *Lactobacillus casei* in solid-state fermentation, Rojan P John, KM Nampoothiri, A Syamaprasad & Ashok Pandey, *Biotechnology Letters*, 27, 1685-1688 (2005)
281. Partial purification and characterization of alpha amylase produced by *Aspergillus oryzae* using spent-brewing grains, AK Patel, KM Nampoothiri, Sumitra Ramachandran, G Szakacs & Ashok Pandey, *Indian Journal of Biotechnology*, 4(3), 336-341 (2005)
282. Purification and characterization of tannin acyl hydrolase from *Aspergillus niger* ATCC 16620, A Sabu, GS Kiran & Ashok Pandey, *Food Technology and Biotechnology*, 43(2), 133-138 (2005)
283. Comparative study on amidase production by free and immobilized *E coli* cells, KM Nampoothiri, K Roopesh, S Chacko & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 120(2), 97-108 (2005)
284. Production and purification of extra-cellular chitinase from *Penicillium aculeatum* NRRL 2129 under solid-state fermentation, P Binod, T Pusztahelyi, V Nagy, C Sandhya, G Szakacs, I Pócsi & Ashok Pandey, *Enzyme and Microbial Technology*, 36(7), 880-887 (2005)

285. Comparative evaluation on neutral protease production by *Aspergillus oryzae* in submerged and solid-state fermentation, C Sandhya, A Sumantha, G Szakacs & Ashok Pandey, *Process Biochemistry*, 40(8), 2689-2694 (2005)
286. Tamarind seed powder and palm kernel cake: Two novel agro residues for the production of tannase under solid-state fermentation by *Aspergillus niger* ATCC 16620, A Sabu, Ashok Pandey, MJ Daud & G Szakacs, *Bioresource Technology*, 96(11), 1223-1228 (2005)
287. Mixed substrate fermentation for the production of phytase by *Rhizopus* sp using oilcakes as substrates, Sumitra Ramachandran, K Roopesh, KM Nampoothiri, G Szakacs & Ashok Pandey, *Process Biochemistry*, 40(5), 1749-1754 (2005)
288. Eco-epidemiological survey of *Leishmania (Viannia) braziliensis* American cutaneous and mucocutaneous leishmaniasis in Ribeira Valley river, Parana State, Brazil, EAD Castro, E Luz, FO Telles, Ashok Pandey, A Biseto, M Dinaiiski, I Sbalqueiro & VT Soccol, *Acta Tropica*, 93, 141-149 (2005)
289. Kinetics of *Gibberella fujikuroi* growth and gibberellic acid production by solid-state fermentation in packed bed column bioreactor, CMM Machado, BO Oishi, Ashok Pandey & CR Soccol, *Biotechnology Progress*, 20, 1449-1453 (2004)
290. Use of sugarcane bagasse as an alternative low cost support material during the rooting stage of apple micro-propagation, R Mohan, CR Soccol, MGG Quoirin & Ashok Pandey, *In-vitro Cellular & Developmental Biology- Plant, USA*, 44(4), 408-411 (2004)
291. Process optimization for antifungal chitinase production by *Trichoderma harzianum*, KM Nampoothiri, TV Baiju, C Sandhya, A Sabu, G Szakacs & Ashok Pandey, *Process Biochemistry*, 1583-1590 (2004)
292. Xanthan gum production From cassava bagasse hydrolysate with *Xanthomonas campestris* using alternative sources of nitrogen, AL Woiciechowski, CR Soccol, SN Rocha & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 118 (1-3), 305-312 (2004)
293. Comparison of citric acid production by solid-state fermentation in flask, column, tray, and drum bioreactors, LPS Vandenberghe, CR Soccol, FC Prado & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 118 (1-3), 293-304 (2004)
294. Thermostable phytase production by *Thermoascus aurantiacus* in submerged fermentation, KM Nampoothiri; GJ Tomes, K Roopesh; G Szakacs; V Nagy; CR Soccol & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 118 (1-3). 205-214 (2004)
295. Production of chitinolytic enzymes with *Trichoderma longibrachiatum* IMI 92027 in solid substrate fermentation, K Kovacs, G Szakacs, T Pusztahelyi & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 118 (1-3), 189-204 (2004)
296. Development of a bionematicide with *Paecilomyces lilacinus* to Control *Meloidogyne incognita*, D Brand, S Roussos, Ashok Pandey, PC Zilioli, J Pohl & CR Soccol, *Applied Biochemistry and Biotechnology*, 118 (1-3). 81-88 (2004)
297. Conidia production of *Beauveria* sp by solid-state fermentation for biocontrol of *Ilex paraguariensis* caterpillars, HS Dalla Santa, NJ Sousa, D Brand, OR Dalla Santa, Ashok Pandey, M Sobotka, J Paca & CR Soccol, *Folia Microbiologica*, 49(4), 204-208 (2004)
298. Coconut oil cake—a potential raw material for the production of alpha amylase, Sumitra Ramachandran, AK Patel, KM Nampoothiri, F Francis, V Nagy, G Szakacs & Ashok Pandey, *Bioresource Technology*, 93(2), 169-174 (2004)
299. Relation between citric acid production and respiration rate of *Aspergillus niger* in solid-state fermentation, FC Prado, LPS Vandenberghe, C Lisboa, J Paca, Ashok Pandey & CR Soccol, *Engineering in Life Sciences*, 4 (2), 179-186 (2004)
300. Alpha amylase from a fungal culture grown on oil cakes and its properties, Sumitra Ramachandran, AK Patel, KM Nampoothiri, C Sandhya, G Szakacs, CR Soccol & Ashok Pandey, *Brazilian Archives of Biology and Technology*, 47(2), 309-318 (2004)
301. Conidia production of *Beauveria* sp by solid-state fermentation for biocontrol of *Ilex paraguariensis* caterpillars, HS Dalla Santa, NJ Sousa, OR Dalla Santa, Ashok Pandey, M Sobotka, J Paca & CR Soccol, *Folia Microbiologica*, 49(4), 418-422 (2004)
302. Effect of inoculation of *Azospirillum* sp in maize seeds under fields conditions, OR Dalla Santa, CR Soccol, P Ronzelli Jr, RF Hernandez, GLM Alvarez, HS Dalla Santa & Ashok Pandey, *Journal of Food, Agriculture and Environment*, 2(1), 238-242 (2004)
303. Extra-cellular chitinase production by *Trichoderma harzianum* in submerged fermentation, C Sandhya, Leela Krishna Adapa, KM Nampoothiri, P Binod, G Szakacs & Ashok Pandey, *Journal of Basic Microbiology*, 44 (1), 49-58 (2004)
304. Phytase production in solid-state fermentation, A Sabu, KM Nampoothiri, P Latha, V Kannan, G Szakacs & Ashok Pandey, In- *New Horizons in Biotechnology*, S Roussos, CR Soccol, C Augur & A Pandey (eds), Kluwer Academic Publishers, Dordrecht, The Netherlands, pp. 27-34 (2003)



305. Chitinolytic activity of a *Trichoderma harzianum* strain showing antifungal activity, KM Nampoothiri, TV Baiju, C Sandhya, A Sabu, G Szakacs and Ashok Pandey, *Process Biochemistry*, 38, 1513-1519 (2003)
306. Biosynthesis of rifamycin SV by *Amycolatopsis mediterranei* MTCC17 in solid cultures, PS Murali Krishna, G Venkateswarlu, Ashok Pandey & LV Rao, *Biotechnology and Applied Biochemistry*, 37, 311-315 (2003)
307. Production of phytase by *Mucor racemosus* in solid-state fermentation, B Bogar, G Szakacs, Ashok Pandey, A Sabu, JC Linden & RP Tengerdy, *Biotechnology Progress*, 19, 312-319 (2003)
308. Optimization of phytase production by solid substrate fermentation, B Bogar, G Szakacs, JC Linden, Ashok Pandey & RP Tengerdy, *Journal of Industrial Microbiology and Biotechnology*, 30, 183-189 (2003)
309. Fermentative production of gellan using *Sphingomonas paucimobilis*, KM Nampoothiri, RR Singhanian, C Sabarinath & Ashok Pandey, *Process Biochemistry*, 38(11), 1513-1519 (2003)
310. Production of polysaccharide by culinary-medicinal mushroom *Agaricus brasiliensis* S. Wasser et al. LPB 03 (Agaricomycetidae) in submerged fermentation and its antitumor effect, L Fan, AT Soccol, Ashok Pandey, S Germano, R Rau, AL Pedraso & CR Soccol, *International Journal of Medicinal Mushrooms*, 5, 17-23 (2003)
311. Use of response surface methodology for optimising process parameters for the production of alpha amylase by *Aspergillus oryzae*, F Francis, A Sabu, KM Nampoothiri, Sumitra Ramachandran, S Ghosh, G Szakacs & Ashok Pandey, *Biochemical Engineering Journal*, 15, 107-115 (2003)
312. Cultivation of *Pleurotus* mushrooms on Brazilian coffee husk and effects of caffeine and tannic acid, L Fan, A T Soccol, Ashok Pandey & C R Soccol, *Mycologia Applicada International*, 15 (1), 15-21 (2003)
313. Characterization and stability of proteases from *Penicillium* sp. produced by solid-state fermentation, S Germano, Ashok Pandey, CA Osaku, SN Rocha & CR. Soccol, *Enzyme and Microbial Technology*, 32(2), 246-251 (2003)
314. Production of alpha amylase with *Aspergillus oryzae* on spent brewing grains by solid-state fermentation. B Bogar, George Szakacs, RP Tengerdy, JC Linden & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 102-103, 453-463 (2002)
315. Solid-state fermentation for the production of phytase by *Rhizopus oligosporus*. A Sabu, S Sarita, Ashok Pandey, B Bogar, George Szakacs & CR Soccol, *Applied Biochemistry and Biotechnology*, 102-103, 251-260 (2002)
316. Gibberellic acid production by solid-state fermentation in coffee husk, CMM. Machado, CR Soccol, BH de Oliveira & Ashok Pandey, *Applied Biochemistry and Biotechnology*, 102-103, 179-192 (2002)
317. Relationship between coffee husk caffeine degradation and respiration of *Aspergillus* sp in solid-state fermentation, D Brand, Ashok Pandey, JA Rodriguez-Leon, S Roussos, I Brand & CR. Soccol, *Applied Biochemistry and Biotechnology*, 102-103, 169-178 (2002)
318. Synthesis of alpha-amylase by *Aspergillus oryzae* in solid-state fermentation, F Francis, A Sabu, KM Nampoothiri, G Szakacs & Ashok Pandey, *Journal of Basic Microbiology*, 42 (3), 322-326 (2002)
319. Extra-cellular L-glutaminase production by *Zygosaccharomyces rouxii* under solid-state fermentation, P Kashyap, A. Sabu, Ashok Pandey, G Szakacs & CR Soccol, *Process Biochemistry*, 38(3), 307-312 (2002)
320. Microbial production of extra-cellular phytase using polystyrene as inert solid support, P Gautam, A. Sabu, Ashok Pandey, G Szakacs & CR Soccol, *Bioresource Technology*, 83(3), 229-233 (2002)
321. Packed bed column fermenter and kinetic modelling for upgrading the nutritional quality of coffee husk in solid-state fermentation, D Brand, Ashok Pandey, JA Rodriguez-Leon, S Roussos, I Brand & CR Soccol, *Biotechnology Progress*, 17 (6), 1065-1070 (2001)
322. Isolation and characterization of three distinct forms of lipase from *Candida rugosa* produced in solid-state fermentation. S Benjamin & Ashok Pandey, *Brazilian Archives of Biology and Technology*, 44(2), 213-221 (2001)
323. Production of *Flammulina velutipes* on coffee husk and coffee spent-ground. L Fan, Ashok Pandey & CR Soccol, *Brazilian Archives of Biology and Technology*, 44 (2), 206-212 (2001)
324. Evaluation of *Amycolatopsis mediterranei* VA18 for production of rifamycin-B. G Venkateswarlu, PS Murali Krishna, Ashok Pandey & LV Rao, *Process Biochemistry*, 36 (4), 305-309 (2001)
325. Aroma compounds by *Kluyveromyces marxianus* in solid-state fermentation on a packed bed column bioreactor, ABP Medeiros, Ashok Pandey, P Christen, PSG Fontoura, RJS de Freitas & CR. Soccol, *World Journal of Microbiology & Biotechnology*, 17, 767-771 (2001)
326. Isolation, identification and physiological study of *Lactobacillus fermentum* LPB for use as probiotics in chickens, E de F Reque, Ashok Pandey, SG Franco & CR Soccol, *Revista in Microbiology*, 31, 303-307 (2000)
327. Optimization of production of aroma compounds by *Kluyveromyces marxianus* in solid-state fermentation using factorial design and response surface methodology, ABP Medeiros, Ashok Pandey, RJS Freitas, P Christen & CR Soccol, *Biochemical Engineering Journal*, 6(1), 33-39 (2000)

328. Solid-state culturing- an efficient technique to utilize toxic agro-industrial residues, L Fan, Ashok Pandey & CR Soccol, *Journal of Basic Microbiology*, 40(3), 177-187 (2000)
329. Biological detoxification of coffee husk by filamentous fungi using a solid state fermentation system, D Brand, Ashok Pandey, S Roussos & CR Soccol, *Enzyme and Microbial Technology*, 27 (1-2), 127-133 (2000)
330. *Lutzomyia whitmani* (Diptera: Psychodidae) as vector of *Leishmania* (V.) *braziliensis* in Parana state, southern Brazil. E Luz, N Membrive, EA Castro, J Dereure, F Pralong, JA Dedet, Ashok Pandey & VT Soccol. *Annals of Tropical Medicines and Parasitology*, 94(6), 623-631 (2000)
331. Fruity flavour production by *Ceratocystis fimbriata* grown on coffee husk in solid-state fermentation. M Soares, P Christen, Ashok Pandey & CR Soccol, *Process Biochemistry*, 35(8), 857-861 (2000)
332. Cultivation of *Volvariella volvacea* to produce biomass from potato and cassava processing residues by submerged fermentation, TM Tonial, Ashok Pandey, MD Chiarello & CR Soccol, *Indian Journal of Microbiology*, 40 (1), 35-40 (2000)
333. Microbial degradation of caffeine and tannins from coffee husk. D Brand, Ashok Pandey, S Roussos & CR Soccol, *In- Coffee Biotechnology and Quality*, T Sera, CR Soccol, A Pandey & S Roussos (eds), Kluwer Academic Publishers, Dordrecht, The Netherlands, pp 393-400 (2000)
334. Coffee husk as substrate for the production of gibberellic acid. CMM Machado, BH Oliviera, Ashok Pandey & C R Soccol. *In- Coffee Biotechnology and Quality*, T Sera, CR Soccol, A Pandey & S Roussos (eds), Kluwer Academic Publishers, Dordrecht, The Netherlands, pp 401-408 (2000)
335. Hydrolysis of coffee husk: Process optimisation to recover its fermentable sugar. AL Woiciechowski, Ashok Pandey, CMM Machado, EB Cardoso & CR Soccol. *In- Coffee Biotechnology and Quality*, T Sera, CR Soccol, A Pandey & S Roussos (eds), Kluwer Academic Publishers, Dordrecht, The Netherlands, pp 409-418 (2000)
336. A novel approach for the production of natural aroma compounds using coffee husk. M Soares, Ashok Pandey, P Christen, M Raimbault & C R Soccol. *In- Coffee Biotechnology and Quality*, T Sera, CR Soccol, A Pandey & S Roussos (eds), Kluwer Academic Publishers, Dordrecht, The Netherlands, pp 419-426 (2000)
337. Use of various coffee industry residues for production of *Pleurotus ostreatus* in solid-state fermentation, L Fan, Ashok Pandey, R Mohan & CR Soccol, *Acta Biotechnologica*, 20 (1), 41-52 (2000)
338. Solid-state fermentation for the synthesis of citric acid by *Aspergillus niger*. L P S Vandenberghe, CR Soccol, Ashok Pandey & J-M Lebeault, *Bioresource Technology*, 74 (2), 175-178 (2000)
339. Scale-up strategies for packed-bed bioreactors for solid-state fermentation. DA. Mitchell, Ashok Pandey, P Sangsurasak & N Krieger, *Process Biochemistry*, 35 (1-2), 167-178 (2000)
340. Inulinase synthesis from a mesophilic culture in submerged cultivation. Ashok Pandey, S Joseph, L Ashakumary, P Selvakumar & CR Soccol, *Applied Biochemistry and Biotechnology*, 82 (2), 103-114 (1999)
341. Experimental design to optimize the production of L- (+)-lactic acid from steam exploded wood hydrolysate using *Rhizopus oryzae*. AL Woiciechowski, CR Soccol, LP. Ramos & Ashok Pandey, *Process Biochemistry*, 34 (9), 949-955 (1999)
342. Fermentation and recovery of L-glutamic acid from cassava starch hydrolysate by ion-exchange resin column. KM Nampoothiri & Ashok Pandey, *Revista in Microbiology*, 30 (3), 258-264 (1999)
343. Solid-state fermentation for the synthesis of inulinase from the strains of *Staphylococcus* sp. and *Kluyveromyces marxianus*. P Selvakumar & Ashok Pandey. *Process Biochemistry*, 34 (8), 851-855 (1999)
344. Production of spores of *Trichoderma harzianum* on sugar cane molasses and bagasse pith in solid-state fermentation. JA Rodriguez-Leon, F Domenech, M Leon, T Mendez, DE Rodriguez & Ashok Pandey. *Brazilian Archives of Biology and Technology*, 41(1), 69-76 (1999)
345. Cultivation of *Pleurotus* sp. on coffee residues, L Fan, Ashok Pandey & CR Soccol, *Proceedings of 3rd International conference on Mushroom Biology and Mushroom Products & AMGA's 26th National Mushroom Industry Conference*. Andrew Broderick & Tan Nair (eds), October 12-16, Sydney, pp 301-311 (1999)
346. Growth of *Lentinus edodes* on the coffee industry residues and fruiting body production, Fan Leifa, Ashok Pandey and Carlos R. Soccol, *Proceedings of 3rd International conference on Mushroom Biology and Mushroom Products & AMGA's 26th National Mushroom Industry Conference*, Andrew Broderick & Tan Nair (eds), October 12-16, Sydney, pp 293-300 (1999)
347. Growth kinetics of *Rhizopus formosa* MUCL 28422 on raw cassava flour in solid-state fermentation. SC Stertz, CR Soccol, M Raimbault, Ashok Pandey & JA Rodriguez-Leon, *Journal of Chemical Technology and Biotechnology*, 74(6), 580-586 (1999)
348. Comparative studies on inulinase synthesis by *Staphylococcus* sp. and *Kluyveromyces marxianus* in submerged culture. P Selvakumar & Ashok Pandey. *Bioresource Technology*, 69(2), 123-127 (1999)

349. Production and shelf-life studies of low cost beverage with soymilk, buffalo cheese whey and cow milk fermented by mixed cultures of *Lactobacillus casei* ssp. *shirota* and *Bifidobacterium adolescentis*. RF Macedo, RJS Freitas, Ashok Pandey & CR Soccol, *Journal of Basic Microbiology*, 39(4), 243-251 (1999)
350. Ethanol production in solid substrate fermentation using thermotolerant yeast. N Kiran Sree, M Sridhar, LV Rao & Ashok Pandey, *Process Biochemistry*, 34(2), 115-119 (1999)
351. Biosynthesis of glucoamylase by *Aspergillus niger* in solid-state fermentation using tea waste as the basis of a solid substrate. P Selvakumar, L Ashakumary & Ashok Pandey. *Bioresource Technology*, 65(1-2), 83-85 (1998)
352. Mixed solid substrate fermentation: A novel process for enhanced lipase production by *Candida rugosa*. S Benjamin & Ashok Pandey, *Acta Biotechnologica*, 18 (4), 315-324 (1998)
353. Membrane permeability and glutamate excretion by *Brevibacterium* sp. KM Nampoothiri & Ashok Pandey. *Journal of Scientific and Industrial Research*, 57, 640-643 (1998)
354. Isolation and characterization of inulinase producing strains from rhizosphere soil. P Selvakumar & Ashok Pandey. *Journal of Scientific and Industrial Research*, 57, 621-624 (1998)
355. X-ray diffraction studies on solid-state fermentation for the production of glucoamylase using *Aspergillus niger* NCIM 1248. PS Mukherjee, Ashok Pandey, P Selvakumar, L Ashakumary & P Gurusamy. *Journal of Scientific and Industrial Research*, 57, 583-586 (1998)
356. Culture conditions for production of 2-1- $\beta$ -D-fructan-fructanohydrolase in solid culturing on chicory (*Cichorium intybus*) roots. Ashok Pandey, P. Kavita and P. Selvakumar. *Brazilian Archives of Biology and Technology*, 41 (2), 231-236 (1998)
357. Immobilization of *Brevibacterium* cells for the production of L-glutamic acid. K. Madhavan Nampoothiri and Ashok Pandey. *Bioresource Technology*, 63(1), 101-106 (1998)
358. Coconut cake: A potent substrate for production of lipase by *Candida rugosa* in solid-state fermentation. Sailas Benjamin and Ashok Pandey. *Acta Biotechnologica*, 17(3), 241-251 (1997)
359. Enhancement of lipase production during repeated batch culture using immobilized *Candida rugosa*. Sailas Benjamin and Ashok Pandey. *Process Biochemistry*, 32(5), 437-440 (1997)
360. Corynebactin, a cyclic catecholate siderophore from *Corynebacterium glutamicum* ATCC 14067 (*Brevibacterium* sp. DSM 20411). H. Budzikiewicz, A. Bossenkamp, K. Taraz, Ashok Pandey and J. -M. Meyer. *Z. Naturforsch.*, 52e, 551-554 (1997)
361. Lipase production by *Candida rugosa* on copra waste extract. Sailas Benjamin and Ashok Pandey, *Indian Journal of Microbiology*, 36(4), 201-204, (1996)
362. Optimization of liquid media for lipase production. Sailas Benjamin and Ashok Pandey. *Bioresource Technology*, 55(2), 167-170 (1996)
363. Growth and cyclosporin A production by an indigenously isolated strain of *Tolypocladium inflatum*. K. Balakrishnan and Ashok Pandey. *Folia Microbiologica*, 41(5), 401-406 (1996)
364. Studies on bioactive microbial metabolites. K. Balakrishnan and Ashok Pandey, In - *Perspectives in Microbiology*, (Ed) R. S. Kahlon, Natl Agric. Technol. Inform. Centre, Ludhiana, India, pp. 90-92 (1996)
365. Purification and characterization of glucoamylase produced by *Aspergillus niger* in solid-state fermentation. P. Selvakumar, L. Ashakumary, A. Helen and Ashok Pandey. *Letters in Applied Microbiology*, 23(6), 403-406 (1996)
366. Performance of column bioreactor for glucoamylase synthesis by *Aspergillus niger* in SSF. Ashok Pandey, P. Selvakumar and L. Ashakumary. *Process Biochemistry*, 31(1), 43-46 (1996)
367. Solid state fermentation for L-glutamic acid production using *Brevibacterium* sp. K. Madhavan Nampoothiri and Ashok Pandey, *Biotechnology Letters*, 16(2), 199-204 (1996)
368. Urease activity in a glutamate producing *Brevibacterium* sp. K. Madhavan Nampoothiri and Ashok Pandey. *Process Biochemistry*, 31(5), 471-475 (1996)
369. Effect of different carbon sources on growth and glutamic acid fermentation by *Brevibacterium* sp. K. Madhavan Nampoothiri and Ashok Pandey. *Journal of Basic Microbiology*, 35(4), 249-254 (1995)
370. Glutamic acid fermentation using *Brevibacterium* sp. DSM 20411. K. Madhavan Nampoothiri and Ashok Pandey. *Journal of Food Science and Technology*, 32(5), 406-408 (1995)
371. Copra waste - a novel substrate for solid-state fermentation. Ashok Pandey, L. Ashakumary and P. Selvakumar. *Bioresource Technology*, 51(3), 217-220 (1995)
372. Effect of yeast extract on glucoamylase synthesis by *Aspergillus niger* in solid-state fermentation. Ashok Pandey, L. Ashakumary, P. Selvakumar and K. S. Vijaylakshmi. *Indian Journal of Microbiology*, 35(4), 335-338 (1995)
373. Influence of water activity on growth and activity of *Aspergillus niger* NCIM 1245 for enzyme production in solid-state fermentation. Ashok Pandey, L. Ashakumary, P. Selvakumar and K. S. Vijaylakshmi. *World Journal of Microbiology and Biotechnology*, 10, 485-486 (1994)
374. Column fermenter for solid-state fermentation. L. Ashakumary, P. Selvakumar and Ashok Pandey. In - *Solid State Fermentation*. (Ed) Ashok Pandey. Wiley Eastern Limited, New Delhi, India. Pp. 33-37 (1994)



375. Iron requirement and search for siderophores in lactic acid bacteria. Ashok Pandey, Françoise Bringel and J. M. Meyer. *Applied Microbiology and Biotechnology*, 40, 735-739 (1994)
376. Glucoamylase production by *Aspergillus niger* on rice bran is improved by adding nitrogen sources. Ashok Pandey, P. Selvakumar and L. Ashakumary. *World Journal of Microbiology and Biotechnology*, 10, 348-349 (1994)
377. The production of glucoamylase by *Aspergillus niger* NCIM 1245. Ashok Pandey and S. Radhakrishnan. *Process Biochemistry*, 28(3), 305-309 (1993)
378. Packed bed column bioreactor for enzyme production. Ashok Pandey and S. Radhakrishnan. *Enzyme and Microbial Technology*, 14, 486-488 (1992)
379. Production of starch saccharifying enzyme in solid cultures. Ashok Pandey. *Starch/Starke*, 44(2), 75-77 (1992)
380. Production of glucoamylase in solid-state fermentation. Ashok Pandey. In - *Industrial Microbiology*. (Eds.) V. S. Malik and Padma Sridhar. IBH & Oxford Publishing Co., New Delhi, India. Pp. 525-537 (1992)
381. Effect of particle size of substrate on enzyme production in solid-state fermentation. Ashok Pandey. *Bioresource Technology*, 37(2), 169-172 (1991)
382. Improvements in solid-state fermentation for glucoamylase production. Ashok Pandey. *Biological Wastes*, 34(1), 11-19 (1990)
383. Start-up in anaerobic system for natural rubber effluent. Ashok Pandey, L. G. Radhika and S. V. Ramakrishna. *Biological Wastes*, 33(2), 143-147 (1990)
384. Anaerobic waste treatment: The two-stage reactor concept. Ashok Pandey. *Encology*, 3, 25-29 (1989)
385. New strategies in agro-industrial wastes utilization in Kerala. Ashok Pandey, S. V. Ramakrishna and A. D. Damodaran. *Proceedings of Kerala Science Congress*, 1, 64-70 (1989)
386. Process selection for single stage bioconversion of sugar beet pulp into microbial protein. Ashok Pandey, P. Nigam and M. Vogel. *Biological Wastes*, 26(1), 71-75 (1988)
387. Anaerobic digestion of natural rubber waste effluent. Ashok Pandey, S. V. Ramakrishna and G. D. Surender. In - *Proceedings of V International Symposium on Anaerobic Digestion*. (Eds.) A. Tilche and A. Rozzi. Monduzzi Editore, Bologna, Italy. Pp. 669-672 (1988)
388. Simultaneous saccharification and protein enrichment fermentation of sugar beet pulp. Ashok Pandey, P. Nigam and M. Vogel. *Biotechnology Letters*, 10(1), 67-72 (1988)
389. Fermentation of bagasse by submerged cultures: Effect of nitrogen source. P. Nigam, Ashok Pandey and K. A. Prabhu. *Biological Wastes*, 23(5), 313-317 (1988)
390. Mixed culture fermentation for bioconversion of whole bagasse into microbial protein. P. Nigam, Ashok Pandey and K. A. Prabhu. *Journal of Basic Microbiology*, 27(6), 323-327 (1987)
391. Ligninolytic activity of two basidiomycetes moulds cultures in the decomposition of bagasse. P. Nigam, Ashok Pandey and K. A. Prabhu. *Biological Wastes*, 21(1), 1-10 (1987)
392. Cellulase and ligninase production by basidiomycetes culture in solid-state fermentation. P. Nigam, Ashok Pandey and K. A. Prabhu. *Biological Wastes*, 20(1), 1-9 (1987)
393. Studies on adsorption of cellulases and ligninases on bagasse in solid-state fermentation. P. Nigam, Ashok Pandey and K. A. Prabhu. *Journal of Biological Chemistry Hoppe-Seyler*, 367, Supplement 210 (1986)
394. Effect of dyes on *Streptococcus faecalis*. Ashok Pandey and P. Nigam. *Indian J. Microbiol.*, 24, 252-254 (1984)
395. Effect of metal complexes of EDTA on lactic acid fermentation by ultraviolet irradiated *L. bulgaricus*. Ashok Pandey and K. P. Tiwari. *Sharakara*, 21(1), 1-4 (1984)
396. Action of certain radiation on lactic acid fermentation. K. P. Tiwari and Ashok Pandey. *Proc. Natl. Acad. Sci., India*. 54 (1), 25-31 (1984)
397. Effect of ultraviolet radiation on amino acid composition of single cell protein. Ashok Pandey and K. P. Tiwari. *J. Indian Chem. Soc.*, 59, 686-687 (1982)
398. Sodium iodate - a novel spray reagent for flavones. K. P. Tiwari, M. Masood and Ashok Pandey. *Proc. Natl. Acad. Sci., India*, 54 (2), 112-114 (1982)
399. Effect of some essential oils on lactic acid bacteria. K. P. Tiwari and Ashok Pandey. *J. Sci. Res.*, 3, 161-163 (1981)
400. Effect of garlic extract on lactic acid bacteria. K. P. Tiwari and Ashok Pandey. *J. Sci. Res.*, 3, 71-74 (1981)
401. A novel spray reagent for flavones and quinones. K. P. Tiwari, M. Masood and Ashok Pandey. *J. Indian Chem. Soc.*, 58, 722 (1981)
402. Natural growth factors for *L. bulgaricus* AU. K. P. Tiwari and Ashok Pandey. *Zentr. Bakteriologie Abt. II*, 136, 263-265 (1981)
403. Effect of some organic acids and alkaloids on lactic acid fermentation. K. P. Tiwari and Ashok Pandey. *Zentr. Bakteriologie Abt. II*, 136, 70-73 (1981)
404. Effect of some natural materials on lactic acid fermentation. K. P. Tiwari, N. Mishra and Ashok Pandey. *Zentr. Bakteriologie Abt. II*, 135, 721-723 (1980)

405. Fermentative production of lactic acid in presence of some trace elements. K. P. Tiwari, N. Mishra and Ashok Pandey. Zentr. Bakteriolog. Abt. II, 135, 523-526 (1980)
406. Mineral requirements of *L. delbrueckii*. K. P. Tiwari, N. Mishra and Ashok Pandey. Proc. Natl. Acad. Sci., India, 50A, 69-72 (1980)
407. 3,4-bis (3', 4'-dimethoxyphenyl) methyl-furan-2-one from *Zanthoxylum oxyphyllum* edgew. K. P. Tiwari, M. Masood, Ashok Pandey and G. D. Pandey. Indian J. Chem., 19B, 241-242 (1980)
408. Lactic acid production from molasses by *L. bulgaricus* in presence of U, Th, Zr and Tl. K. P. Tiwari, Ashok Pandey and N. Mishra. Zentr. Bakteriolog. Abt. II, 135, 226-29 (1980)
409. Influence of EDTA and its metal complexes on lactic acid fermentation. K. P. Tiwari, N. Mishra and Ashok Pandey. Zentr. Bakteriolog. Abt. II, 135, 223-225 (1980)
410. Effect of aqueous extract of *Madhuca indica* on lactic acid fermentation of molasses by *Lactobacillus bulgaricus* AU. K. P. Tiwari, Ashok Pandey and P. K. Minocha. Vijnana Par. Anu. Patrika, 23, 61-63 (1980)
411. Hydrogen peroxide - a new spray reagent for flavones and quinones. M. Masood, Ashok Pandey and K. P. Tiwari. Curr. Sci., 48, 813-814 (1979)
412. Obtusilobin and obtusilobin - two new saponins from *Anemone obtusiloba*. K. P. Tiwari, M. Masood and Ashok Pandey. Phytochem., 18, 1539-1542 (1979)
413. Lactic acid production in presence of some vitamins by *Lactobacillus delbrueckii*. K. P. Tiwari, N. Mishra and Ashok Pandey. Indian J. Microbiol., 19, 155-157 (1979)
414. Influence of metal complexes of EDTA on lactic acid fermentation by individual and mixed cultures of lactobacilli. K. P. Tiwari and Ashok Pandey. Indian J. Microbiol., 19, 150-154 (1979)
415. A novel spray reagent for flavones and quinones. K. P. Tiwari, M. Masood and Ashok Pandey. Proc. Natl. Acad. Sci., India, 49A, 107-108 (1979)
416. Effect of some nitrogenous dyes on lactic acid fermentation. K. P. Tiwari, Ashok Pandey and M. Masood. Proc. Natl. Acad. Sci., India, 49A, 42-44 (1979)
417. Optimum culture conditions for *Lactobacillus bulgaricus* AU. K. P. Tiwari and Ashok Pandey. Proc. Natl. Acad. Sci., India, 49A, 37-41 (1979)
418. The influence of mutagenic chemicals on lactic acid fermentation by *L. bulgaricus* AU. K. P. Tiwari and Ashok Pandey. Zentr. Bakteriolog. Abt. II, 134, 748-750 (1979)
419. Lactic acid production from molasses by mixed population of lactobacilli. K. P. Tiwari and Ashok Pandey. Zentr. Bakteriolog. Abt. II, 134, 544-546 (1979)
420. Effect of camphor on lactic acid production from molasses by *Lactobacillus bulgaricus* AU. K. P. Tiwari, Ashok Pandey and Y. K. S. Rathore. Vijnana Par. Anu. Patrika, 22, 175-178 (1979)
421. Influence of some amino acids on lactic acid fermentation of molasses by *Lactobacillus bulgaricus* AU. K. P. Tiwari, Ashok Pandey and N. Mishra. Vijnana Par. Anu. Patrika, 22, 17-20 (1979)
422. Influence of some physiologically important electrolytes on lactic acid fermentation of molasses by *L. bulgaricus* AU. K. P. Tiwari and Ashok Pandey. Indian J. Dairy Sci., 31, 383-384 (1978)
423. Lactic acid production from molasses by mixed population of *Lactobacillus bulgaricus* and *L. delbrueckii*. K. P. Tiwari, Ashok Pandey and N. Mishra. Proc. Natl. Acad. Sci., India, 47A, 130-132 (1977)
424. Influence of some vitamins on fermentative production of lactic acid by *Lactobacillus delbrueckii*. K. P. Tiwari, S. P. Singh and Ashok Pandey. Proc. Ind. Natl. Sci. Acad., 43B, 219-222 (1977)

## BOOKS/GUEST EDITOR OF SPECIAL ISSUES OF JOURNALS/TECHNICAL REPORTS/CHAPTERS IN BOOKS

### A. POPULAR SCIENCE BOOKS

425. *The Realm of Industrial Biotechnology*, Ashok Pandey, Asiatech Publishers Inc., New Delhi, p. 43 (2000)  
ISBN: 81-87680-02-4
426. *Threads of Life*. Ashok Pandey. National Institute of Science Communication, New Delhi, p. 51 (1998)  
ISBN: 81-7236-187-4

### B. ENCYCLOPAEDIA

427. *Concise Encyclopaedia of Bioresource Technology*, Editor- Ashok Pandey, Haworth Press, Inc., USA, p. 735 (2004) ISBN: 1-56022-980-2

## C. BOOKS

428. *Energy, Combustion and Propulsion – New Perspectives*, Editors- AK Agarwal, SK Aggarwal, AK Gupta, A Kushari & Ashok Pandey, Athena Academic, London, UK; p 609 (2016) ISBN: 978-1-910-39029-0
429. *Industrial Biorefineries and White Biotechnology*, Editors- Ashok Pandey, R Hofer, MJ Taherzadeh, KM Nampoothiri & C Larroche, Elsevier, Waltham, USA; p 710 (2015) ISBN: 978-0-444-63453-5
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435. *Biofuels from Microalgae*, Editors- Ashok Pandey, DJ Lee, Y Chisti & CR Soccol, Elsevier Inc; San Diego, USA, p338 (2013) ISBN: 978-0-444-59558-4
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438. *Biofuels- Alternative Feedstocks and Conversion Processes*, Editors- Ashok Pandey, C Larroche, SC Ricke, CG Dussap & E Gnansounou, Academic Press, Elsevier Inc; San Diego, USA, p629 (2011) ISBN: 978-0-12-385099-7
439. *Advances in Bioprocesses in Food Industry*, Volume IV, Editors- CR Soccol, Ashok Pandey, VT Soccol & C Larroche, Asiatech Publishers, Inc., New Delhi, p220 (2011) ISBN: 81-87680-28-8
440. *Comprehensive Food Fermentation Biotechnology*, Volume II, Editors- Ashok Pandey, CR Soccol, C Larroche, E Gnansounou & P Nigam, Asiatech Publishers, Inc., New Delhi, p800 (2010) ISBN: 81-87680-23-7
441. *Comprehensive Food Fermentation Biotechnology*, Volume I, Editors- Ashok Pandey, CR Soccol, C Larroche, E Gnansounou & CG Dussap, Asiatech Publishers, Inc., New Delhi, p400 (2010) ISBN: 81-87680-22-9
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446. *Handbook of Plant-Based Biofuels*, Editor- Ashok Pandey, CRC Press, Francis & Taylor's, Boca Raton, USA, p 297 (2008) ISBN 978-q-5602-2175-3
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452. *Enzyme Technology*, Editors- Ashok Pandey, C Webb, CR Soccol & C Larroche, Springer Science, USA, p 740 (2006), ISBN: 0-387-29294-2, Asiatech Publishers, Inc., New Delhi, p 740 (2004) ISBN 81-78680-12-1

453. *Biotechnological Advances and Applications in Bioconversion of Renewable Raw Materials*, Editors: R Jonas, Ashok Pandey & G Tharun, Doehring Druck, Braunschweig, Germany (2004), ISBN: 3-925 268-25-0
454. *New Horizons in Biotechnology*, Editors- S Roussos, CR Soccol, Ashok Pandey & C Augur, Kluwer Academic Publishers, Dordrecht, The Netherlands, p 449 (2003), ISBN: 1-4020-1718-9
455. *RRL-T 25 Years*, Silver Jubilee Book, Editors- KG Satyanarayana, BC Pai & Ashok Pandey, Published by RRL, Trivandrum, p 588 (2003)
456. *Solid-State Fermentation in Biotechnology*. Editors - Ashok Pandey, CR Soccol, JA Rodriguez-Leon & P Nigam, Asiatech Publishers Inc., New Delhi, p 221 (2001), ISBN: 81-87680-06-7
457. *Coffee Biotechnology and Quality*. Editors – T Sera, CR Soccol, Ashok Pandey & S Roussos. Kluwer Academic Publishers, Dordrecht, The Netherlands, p 538 (2000), ISBN: 9-7923-6582-8
458. *Biotechnology: Food Fermentation*. Vol. II, Editors - VK Joshi & Ashok Pandey. Educational Publishers & Distributors, New Delhi, India, pp 523-1372 (1999) ISBN: 81-87198-05-2
459. *Biotechnology: Food Fermentation*. Vol. I, Editors - VK Joshi & Ashok Pandey. Educational Publishers & Distributors, New Delhi, India, pp 1-522 (1999) ISBN: 81-87198-04-4
460. *Advances in Biotechnology*. Editor - Ashok Pandey. Educational Publishers & Distributors, New Delhi, p 514 (1998) ISBN: 81-87198-04-6
461. *New Developments in Carbohydrates and Related Natural Products*. Editors - M. J. Mulky & Ashok Pandey. IBH & Oxford Publishing Co., New Delhi, India, p 283 (1995) ISBN: 81-204-0984-1
462. *Solid State Fermentation*. Editor - Ashok Pandey. Wiley Eastern Limited, New Delhi, India, p 188 (1994) ISBN: 81-224-0661-0
463. *Recent Advances in Carbohydrate Research*. Editors - KCM Raja & Ashok Pandey. Published by Association of Carbohydrate Chemists & Technologists (I), p 275 (1992)

#### **E. JOURNALS as Special Issue Editor**

464. *BEJ Special Issue on Trends in Industrial Biotechnology (ICETB-2014)*, Guest Editors- IS Thakur, Ashok Pandey & P Nigam, *Biochemical Engineering Journal*, 102, 1-134 (2015)
465. *IJEB Special Issue on Emerging Trends in Biotechnology (ICETB-2014)*, Guest Editors- IS Thakur, Ashok Pandey & HH Ngo, *Indian Journal of Experimental Biology*, 53(6), 313-424 (2015)
466. *IJBT Special Issue on Emerging Trends in Biotechnology (ICETB-2014)*, Guest Editors- IS Thakur, Ashok Pandey & GR Castro, *Indian Journal of Biotechnology*, 14(2), 149-281 (2015)
467. *IJEB Special Issue on Advances in Biotechnology and Bioinformatics (ICABB-2013)*, Guest Editors- Neelu Nawani, Ashok Pandey, Samir Khanal & P Binod, *Indian Journal of Experimental Biology*, 52(11), 1017-1152 (2014)
468. *IJBT Special Issue on Advances in Biotechnology and Bioinformatics (ICABB-2013)*, Guest Editors- N Nawani, Ashok Pandey, EM Papamichael & K M Nampoothiri, *Indian Journal of Biotechnology*, 13(3), 283-418 (2014)
469. *Biologia Special Issue on ICAB-2012*, Guest Editors- Ashok Pandey & RS Singh, *Biologia*, 68(6), 1051-1242 (2013) ISSN: 0006-3088
470. *IJEB Special Issue on New Developments in Biotechnology*, Guest Editors- RS Singh, Ashok Pandey, CG Dussap & L Piergiovanni, *Indian Journal of Experimental Biology*, 51(11), 867-1048 (2013) ISSN: 0019-5189
471. *JSIR Special Issue on Industrial Biotechnology*, Guest Editors- RS Singh, Ashok Pandey, L Szpyrkowicz & CR Soccol, *Journal of Scientific and Industrial Research*, 72(9-10), 533-626 (2013) ISSN: 0022-4456
472. *ABAB Special Issue on New Horizons in Biotechnology*, Guest Editors- Ashok Pandey, C Larroche, DJ Lee & CR Soccol, *Applied Biochemistry and Biotechnology*, 167(5-6), 929-1844 (2012) ISSN: 0273-2289
473. *IJBT Special Issue on Advances in Biotechnology - ICGS-2010*, Special Issue Editors- P Gunasekaran, Ashok Pandey and L Saso, *Indian Journal of Biotechnology*, 10(4), 386-507 (2011) ISSN: 0972-5849
474. *JSIR Special Issue on ICGS-2010*, Special Issue Editors- P Gunasekaran, Ashok Pandey, Lidia Szpyrkowicz & J Rajendhran, *Journal of Scientific and Industrial Research*, 70(11), 903-1001(2011) ISSN: 0022-4456
475. *BITE Special Issue on Biohydrogen- Biofuels – III*, Special Issue Editor- Ashok Pandey, Guest Editors- JS Chang, CP Chou, DJ Lee and AJ Guwy, *Bioresource Technology*, 102(18), pp 8343-8726 (2011) ISSN:0960-8524
476. *FTB Special Issue on ICBF-2010*, Special Issue Editors- CR Soccol, Ashok Pandey, C Larroche & VT Soccol, *Food Technology and Biotechnology*, 49(3), pp 275-395 (2011) ISSN:1330-9862
477. *BITE Special Issue on Algal Biofuels and Microbial Fuel Cells- Biofuels – II*, Special Issue Editor- Ashok Pandey, Guest Editors- DJ Lee and BE Logan, *Bioresource Technology*, 102(1), pp 1-426 (2011) ISSN:0960-8524



478. *FTB Special Issue on Probiotics, Prebiotics and Synbiotics*- Guest Editors - Ashok Pandey, C Larroche & CR Soccol, *Food Technology and Biotechnology*, 48 (4), pp 411-574 (2010) ISSN: 1330-9862
479. *BITE Special Issue on Lignocellulosic Bioethanol: Current Status and Perspectives*, Special Issue Editor- Ashok Pandey, *Bioresource Technology*, 101(14), pp 4743-5042 (2010) ISSN:0960-8524
480. *BITE Special Issue on CESE Special Issue on Challenges in Environmental Science and Engineering: Waste Treatment- Challenges and Solutions*, Special Issue Editor- Ashok Pandey, Guest Editors- V Jegatheesan, L Shu and HH Ngo, *Bioresource Technology*, 101(5), pp 1415-1531 (2010) ISSN:0960-8524
481. *FRI Special Issue on ICBF-2008*, Special Issue Editors- Ashok Pandey, LV Rao, C Larroche & CR Soccol, *Food Research International*, 42(4), pp 417-528 (2009) ISSN: 0963-9969
482. *ABAB Special Issue on New Horizons in Biotechnology*, Special Issue Editors- Ashok Pandey, C Larroche, CR Soccol & CG Dussap, *Applied Biochemistry and Biotechnology*, 151 (2-3), pp 105-723 (2008) ISSN: 0273-2289
483. *JSIR Special Issue on Biofuels II*, Special Issue Editors- E Gnansounou, C Larroche and Ashok Pandey, *Journal of Scientific & Industrial Research*, 67(11), pp 837-1040 (2008) ISSN: 0022-4456
484. *FTB Special Issue on ICBF-2006*, Special Issue Editors- AA Koutinas and Ashok Pandey, *Food Technology and Biotechnology*, 46(2), pp 123-236 (2008) ISSN 1330-9862
485. *JSIR Special Issue on Advances in Industrial Biotechnology- Indian Scenario*, Special Issue Editors- K Sankaran, B Sivasankar and Ashok Pandey, *Journal of Scientific & Industrial Research*, 66(8), pp 589-692 (2007) ISSN: 0022-4456
486. *FTB Special Issue on Food Enzymes and Additives, Part II- Food Additives and Other Products*, *Food Technology and Biotechnology*, Guest Editors- Ashok Pandey, C Larroche and CR Soccol, 44(3), pp 301-448 (2006) ISSN 1330-9862
487. *FTB Special Issue on Food Enzymes and Additives, Part 1- Enzymes and Organic Acids for Food Applications*, *Food Technology and Biotechnology*, Guest Editors- Ashok Pandey, C Larroche and CR Soccol, 44(2), pp 123-300 (2006) ISSN 1330-9862
488. *JSIR Special Issue on Biofuels*, *Journal of Scientific & Industrial Research*, Guest Editors- C Larroche & Ashok Pandey, 64(11), pp 797-988 (2005) ISSN: 0022-4456
489. *ABAB Special Issue on Interface of Chemistry and Biology*, Special issue of *Applied Biochemistry and Biotechnology*, Humana Press, USA Guest Editors- Ashok Pandey & C Larroche, 120(1-3), pp 1-382 (2004), ISSN: 0273-2289
490. *IJBT Special Issue on Microbial and Industrial Biotechnology*, *Indian Journal of Biotechnology*, Guest Editors- Ashok Pandey & C Larroche, 2(3), pp 285-468 (2003), ISSN: 0972-5849
491. *BEJ Special Issue on Solid-State Fermentation*, *Biochemical Engineering Journal*, Elsevier, UK Guest Editor- Ashok Pandey, 13 (2-3), pp 79-218 (2003), ISSN: 1369-703X
492. *BAAAP Special Issue on Bioactive Molecules (Jaiv Sakriya Anu Sansar- in Hindi)*, *Bhartiya Vaigyanik avm Audyogik Anusandhan Patrika*, Guest Editor- Ashok Pandey, 11(1), pp 1-124 (2003), ISSN: 0771-7706
493. *ABAB Special Issue on New Horizons in Biotechnology*, Special issue of *Applied Biochemistry and Biotechnology*, Humana Press, USA Guest Editors- Ashok Pandey & R Banerjee, 102-103, pp 1-488 (2002), ISSN: 0273-2289
494. *JSIR Special Issue on Frontiers in Biotechnology*. Guest Editors - Ashok Pandey, CR Soccol & VK Joshi, *Journal of Scientific & Industrial Research*, 57 (10 & 11), pp 561-844 (1998) ISSN: 0022-4456
495. *JSIR Special Issue on Solid State Fermentation*. Guest Editor - Ashok Pandey, *Journal of Scientific & Industrial Research*, 55 (5 & 6), pp 311-482 (1996) ISSN: 0022-4456

## F. REPORTS

496. Pretreatment of rice straw for bioenergy, Project completion report submitted to DSM India, Pune (2015)
497. Bioprocesses development for the production of L-lactic acid, PGA and cellulase enzymes, Project completion report submitted to Thermax (India), Pune (2015)
498. Glycerol-based carbon acid catalyst for the production of ethanol and value-added chemicals from biomass, Project completion report submitted to Department of Science and Technology, New Delhi Ashok Pandey (2015)
499. Bioethanol from lignocellulosic biomass, Project completion report submitted to Technology Information, Forecasting and Assessment Council, DST, New Delhi Ashok Pandey (2013)
500. Fermentative production of arginine, Project completion report submitted to Colgate-Palmolive, USA, KM Nampoothiri & Ashok Pandey (2012)
501. Development of a bioprocess for the production of polyhydroxybutyrate (PHB) from bio-diesel industry generated glycerol, Ashok Pandey, Project completion report to Department of Biotechnology, New Delhi (2012)

502. Conversion of cellulose and hemi-cellulose into sugars and ethanol, Ashok Pandey & RK Sukumaran, NMITLI Project completion report to Council of Scientific and Industrial research, New Delhi (2012)
503. Construction and screening of environmental DNA libraries for novel  $\beta$ -lactamase inhibitors and lipases, Ashok Pandey & RK Sukumaran, Project completion report to Department of Biotechnology, New Delhi (2011)
504. Development of thermo-stable and low pH-tolerant phytase from *Aspergillus niger* using site-directed mutagenesis, Ashok Pandey, Project completion report to Department of Biotechnology, New Delhi (2011)
505. Microbial production of arginine, Project completion report submitted to Colgate-Palmolive, USA, KM Nampoothiri & Ashok Pandey (2009)
506. Study on availability of Indian biomass resources for exploitation, A report based on a nation-wide survey- Ashok Pandey, S Biswas, RK Sukumaran & N Kaushik, Published by TIFAC, New Delhi, p 105 (2009)
507. Biocatalysis- a novel approach for the production of pharmaceuticals, Ashok Pandey, Project completion report to Department of Science and Technology, New Delhi (2009)
508. Potential for sustainable production of second generation biofuels: Indian perspectives, RK Sukumaran & Ashok Pandey, Project completion report to the International Energy Agency, Paris, France (2009)
509. Isolation and screening of microorganisms to produce nitrilase and hydantoinase, Project completion report submitted to Hi-Tech Biosciences, Pune on the consultancy project, Ashok Pandey (2009)
510. Microbial production of L-Arginine, L-Glutamic acid and L-Citrullin: State-of-art information, Project completion report submitted to Colgate-Palmolive, USA, KM Nampoothiri & Ashok Pandey (2008)
511. Development and applications of food enzymes- alpha amylase, Ashok Pandey, Project completion report to the Department of Biotechnology, New Delhi (2007)
512. Exploration and exploitation of microbial wealth of India for novel compounds and biotransformation processes, Ashok Pandey, Project completion report to the CSIR, New Delhi (2007)
513. New generation fuels & lubricants- Development of liquid fuels and ethanol Production from biomass, Ashok Pandey, Project completion report to the CSIR, New Delhi (2007)
514. Development of green technologies- Value-added organic chemicals from biomass and agro-industrial wastes, Ashok Pandey, Project completion report to the CSIR, New Delhi (2007)
515. Substrate specific enzyme complexes by solid-state fermentation, Ashok Pandey, Project completion report to the Department of Science and Technology, New Delhi (2006)
516. Production of chitinase enzyme and its evaluation as a bio-control agent against the insect pest *Heliocoverpa armigera*, Ashok Pandey, Project completion report to the Nirmal Seeds Pvt Ltd, Pachora (2006)
517. Phytase: An eco-friendly feed enzyme, Ashok Pandey, Project completion report to the Department of Biotechnology, New Delhi (2005)
518. First International Congress on Bioprocesses in Food Industries (ICBF-2004)- A report, C Larroche & Ashok Pandey, *LWT - Food Science and Technology*, 38(6), 695 (2005)
519. Solid-state fermentation for the production of phytase, Ashok Pandey, Project completion report to the Department of Science and Technology, Govt. of India, New Delhi (2003)
520. Microbial synthesis of inulinases. Ashok Pandey, Project completion report to the Department of Biotechnology, Govt. of India, New Delhi (2000)
521. Scientific Productivity Report. Ashok Pandey, A report to UFPR, Curitiba, Brazil on scientific productivity for two-years stay as Visiting Faculty (*Professor Titular*) during April 1998- April 2000 (2000)
522. Production of citric acid by fermentation using agro-industrial residues. Ashok Pandey. Project completion report to the FUNPAR/ UFPR, Curitiba, Brazil (1999)
523. Bioconversion of agricultural ligno-cellulosic by-products and lignin degradation. Ashok Pandey. A technical feasibility and perspective report to the Task Force Committee, Department of Biotechnology, New Delhi (1998)
524. Role of iron and siderophores in microbial physiology, especially in solid-state fermentation. Ashok Pandey. A report on scientific productivity on Raman Research Fellowship award to the Council of Scientific & Industrial Research, New Delhi (1996)
525. Solid-state fermentation for production of glucoamylase. Ashok Pandey. Project completion report to the Department of Biotechnology, Govt. of India, New Delhi. (1995)
526. Production of antibiotically active secondary metabolite. Ashok Pandey, Gallina Lazarova-Palazova, I. B. C. Omar, and Lyndon Johnson. Project completion report to the GBF, Braunschweig, Germany (1992)
527. Prospects of production of alcohol from tapioca. Part II: A technology proposal. Ashok Pandey and A. D. Damodaran. High Level Committee Report, Govt. of Kerala, Trivandrum (1991)
528. Prospects of production of alcohol from tapioca. Part I: A strategic review. Ashok Pandey and A. D. Damodaran. High Level Committee Report. Govt. of Kerala, Trivandrum (1990)
529. Bioenergy production and pollution control strategies for natural rubber effluent. Ashok Pandey. A report to the State Committee on Science, Technology and Environment, Govt. of Kerala, Trivandrum (1989)



530. Direct conversion of sugar cane juice to alcohol (ethanol). S. K. Mishra, Ashok Pandey, H. N. Shukla, Rita Kar and L. Viswanathan. A report to Indian Council of Agricultural Research, New Delhi (1985)

#### G. CHAPTERS IN THE BOOKS/PROCEEDINGS

531. Microalgae: A Sustainable Source of Biofuel, M Arumugam & Ashok Pandey, In- *Energy, Combustion and Propulsion – New Perspectives*, Editors: AK Agarwal, SK Aggarwal, AK Gupta, A Kushari & Ashok Pandey, Athena Academic, London, UK; pp 147-164 (2016)
532. Biocatalysis, LM.Pera, MD Baigori, Ashok Pandey & GR Castro, In- *Industrial Biorefineries and White Biotechnology*, Editors: Ashok Pandey, R Hofer, MJ Taherzadeh, KM Nampoothiri & C Larroche, Elsevier, Waltham, USA; pp 391-408 (2015)
533. Industrial Enzymes, Reeta R. Singhanian, AK. Patel, L Thomas, M Goswami, BS. Giri & Ashok Pandey, In- *Industrial Biorefineries and White Biotechnology*, Editors: Ashok Pandey, R Hofer, MJ Taherzadeh, KM Nampoothiri & C Larroche, Elsevier, Waltham, USA; pp 473-498 (2015)
534. White Biotechnology in Biosurfactants, KV Sajna, R Höfer, RK Sukumaran, LD Gottumukkala & Ashok Pandey, In- *Industrial Biorefineries and White Biotechnology*, Editors: Ashok Pandey, R Hofer, MJ Taherzadeh, KM Nampoothiri & C Larroche, Elsevier, Waltham, USA; pp 499-522 (2015)
535. Microbial Poly-3-Hydroxybutyrate and Related Copolymers, R Sindhu, P Binod & Ashok Pandey, , In- *Industrial Biorefineries and White Biotechnology*, Editors: Ashok Pandey, R Hofer, MJ Taherzadeh, KM Nampoothiri & C Larroche, Elsevier, Waltham, USA; pp 575-606 (2015)
536. White Biotechnology in Cosmetics, KV Sajna, LD Gottumukkala, RK Sukumaran & Ashok Pandey, In- *Industrial Biorefineries and White Biotechnology*, Editors: Ashok Pandey, R Hofer, MJ Taherzadeh, KM Nampoothiri & C Larroche, Elsevier, Waltham, USA; pp 607-652 (2015)
537. Advances in thermochemical conversion of biomass- Introduction, T Bhaskar & Ashok Pandey, In- *Advances in Thermochemical Conversion of Biomass*, Editors- Ashok Pandey, T Bhaskar, M Stocker & RK Sukumaran, Elsevier, Waltham, USA; pp 3-30 (2015)
538. Alkaline treatment-Pretreatment of Biomass: Processes and Technologies- Lignocellulose, R Sindhu, Ashok Pandey & P Binod, In- *Pretreatment of Biomass: Processes and Technologies*, Editors- Ashok Pandey, S Negi, P Binod & C Larroche, Elsevier, UK, pp 51-60 (2015)
539. Introduction-Pretreatment of Biomass: Processes and Technologies- Lignocellulose, P Binod & Ashok Pandey, In- *Pretreatment of Biomass: Processes and Technologies*, Editors- Ashok Pandey, S Negi, P Binod & C Larroche, Elsevier, UK, pp 3-6 (2015)
540. Solid-state fermentation, Reeta Rani Singhanian, AK Patel & Ashok Pandey, Virtual Learning Environment, Institute of Lifelong Learning, University of Delhi, Industrial Microbiology, pp 1-18 (2015) <http://vle.du.ac.in/mod/resource/view.php?id=13086>
541. Submerged fermentation, Reeta Rani Singhanian, AK Patel & Ashok Pandey, Virtual Learning Environment, Institute of Lifelong Learning, University of Delhi, Industrial Microbiology, pp 1-26 (2015) <http://vle.du.ac.in/mod/resource/view.php?id=13086>
542. Biofuels from biomass, AK Patel, Reeta Rani Singhanian & Ashok Pandey, In- *Novel Combustion Concepts for Sustainable Energy Development*, Editors- AK Agarwal, Ashok Pandey, AK Gupta, SK Aggarwal & A Kushari, Springer, New Delhi, India, pp 25-44 (2014) ISBN: 978-81-322-2210-1
543. Introduction-Novel Combustion Concepts for Sustainable Energy Development,, AK Agarwal, SK Aggarwal, AK Gupta, A Kushari & Ashok Pandey, In- *Novel Combustion Concepts for Sustainable Energy Development*, Editors- AK Agarwal, Ashok Pandey, AK Gupta, SK Aggarwal & A Kushari, Springer, New Delhi, India, pp 3-7 (2014) ISBN: 978-81-322-2210-1
544. Enterobacteriaceae, Coliforms and *E. Coli*: Introduction, AK Patel, RR Singhanian, Ashok Pandey, VK Joshi, PS Nigam & CR Soccol, In- *Encyclopedia of Food Microbiology*, Volume I, Editors- CA Batt & MI Tortorello, Elsevier Ltd, Academic Press, pp. 659–666 (2014) ISBN: 978-012-384-7300
545. Advances in lignocellulose bioethanol, Reeta Rani Singhanian, P Binod & Ashok Pandey, In- *Bioprocessing Technologies in Biorefineries for Sustainable Production of Fuels, Chemicals, and Polymers*, Editors- ST Yang, HA El-Enshasy & N Thongchul, John Wiley & Sons, New Jersey, USA, pp 193-204 (2013)
546. Bacterial xylanases: production, purification and applications, Leya Thomas & Ashok. Pandey, In: *Advances in Industrial Biotechnology*, Editors- RS Singh, A Pandey, C Larroche, IK International Publishers, New Delhi, India, pp 77–97 (2013)
547. Biorefinery concept applied to valorization of agro-food coproducts and wastes: Integrated process for waste recycling and effluent treatment, CR Soccol, SG Karp, PF de Siqueira, CTN Sanada, VT Soccol & Ashok Pandey, In- *Fermentation Processes Engineering in Food Industry*, Editors- CR Soccol, Ashok Pandey & C Larroche, CRC Press, Taylor & Francis, Boca Raton, USA, pp 429-463 (2013)

548. Upstream operations of fermentation processes, P Biond, R Sindhu & Ashok Pandey, In-*Fermentation Processes Engineering in Food Industry*, Editors- CR Soccol, Ashok Pandey & C Larroche, CRC Press, Taylor & Francis, Boca Raton, USA, pp 75-88 (2013)
549. LD Gottumukkala, KP Rajasree, RR Singhanian, CR Soccol & Ashok Pandey (2013), Solid-State Fermentation: Current Trends and Future Prospects, In: *Fermentation Microbiology and Biotechnology*, EMT El-Mansi, CEA Bryce, B Dahhou, S Sanchez, AL Demain, AR Allman (eds), CRC Press, Taylor and Francis, New York, USA, pp 403-416
550. Alternative energy – the role and scope of biotechnological interventions for developing biofuels, Reeta Rani Singhanian & Ashok Pandey, In-*Business Guide Germany-India 2012*, 4<sup>th</sup> Edition, Editor- Oliver Lorenz, Wegweiser, Germany, pp 146-147 (2012)
551. Butanol fuel from biomass: Revisiting ABE fermentation, RK Sukumaran, LD Gottumukkala, KP Rajasree, D Alex & Ashok Pandey, In- *Biofuels-Alternative Feedstocks and Conversion Processes*, Editors- Ashok Pandey, C Larroche, SC Rieke, CG Dussap & E Gnansounou, Academic Press, Elsevier Inc; San Diego, USA Ch 25, pp 571-586 (2011)
552. Hydrolysis of lignocellulosic biomass, for bioethanol production, P Binod, KU Janu, R Sindhu & Ashok Pandey, In-*Biofuels- Alternative Feedstocks and Conversion Processes*, Editors- Ashok Pandey, C Larroche, SC Rieke, CG Dussap & E Gnansounou, Academic Press, Elsevier Inc; San Diego, USA, Ch10, pp229-250 (2011)
553. Lignocellulosic bioethanol: Current status and future perspectives, CR Soccol, V Faraco, S Karp, LPS Vandenberghe, VT Soccol, A Woiciechowski & Ashok Pandey, In- *Biofuels- Alternative Feedstocks and Conversion Processes*, Editors- Ashok Pandey, C Larroche, SC Rieke, CG Dussap & E Gnansounou, Academic Press, Elsevier Inc; San Diego, USA, Ch 5, pp101-122 (2011)
554. Microalgae production in cassava wastewater, JC de Carvalho, CR Soccol, A Walter, V Ghiggi, I Borghetti & Ashok Pandey, In- *Advances in Bioprocesses in Food Industry*, Volume IV, Editors- CR Soccol, Ashok Pandey, VT Soccol & C Larroche, Asiatech Publishers, Inc., New Delhi, Ch 10, pp 163-177 (2011)
555. Citric pulp and sub-products of the citric juice industry used as substrates in bioprocesses, C Rodrigues, SC Rossi, MR Spier, ABP Medeiros, LPS Vandenberghe, VT Soccol, Ashok Pandey & CR Soccol, In- *Advances in Bioprocesses in Food Industry*, Volume IV, Editors- CR Soccol, Ashok Pandey, VT Soccol & C Larroche, Asiatech Publishers, Inc., New Delhi, Ch 7, pp121-135 (2011)
556. Potential of probiotics in the food industry, JL Parada, CR Soccol, LA da Costa & Ashok Pandey, In- *Advances in Bioprocesses in Food Industry*, Volume IV, Editors- CR Soccol, Ashok Pandey, VT Soccol & C Larroche, Asiatech Publishers, Inc., New Delhi, Ch 6, pp 94-120 (2011)
557. Production of food-grade pigments, S Babitha, CR Soccol & Ashok Pandey, In: *Comprehensive Food Fermentation Biotechnology*, Editors- Ashok Pandey, CR Soccol, C Larroche, E Gnansounou & P Nigam, Vol II, Ch 22, Asiatech Publishers Inc, New Delhi, pp 723-738 (2010)
558. Production of vitamins, P Biond, R Sindhu, CR Soccol & Ashok Pandey, In: *Comprehensive Food Fermentation Biotechnology*, Editors- Ashok Pandey, CR Soccol, C Larroche, E Gnansounou & P Nigam, Vol II, Ch 18, Asiatech Publishers Inc, New Delhi, pp 586-607 (2010)
559. Fermented functional foods, MR Spier, S Habu, VT Soccol, AL Wiciechowski, Ashok Pandey & CR Soccol, In: *Comprehensive Food Fermentation Biotechnology*, Editors- Ashok Pandey, CR Soccol, C Larroche, E Gnansounou & P Nigam, Vol II, Ch 16, Asiatech Publishers Inc, New Delhi, pp 519-552 (2010)
560. Industrial ethanol production, P Biond, Reeta Rani Singhanian, E Gnansounou, GR Castro & Ashok Pandey, In: *Comprehensive Food Fermentation Biotechnology*, Editors- Ashok Pandey, CR Soccol, C Larroche, E Gnansounou & P Nigam, Vol II, Ch 13, Asiatech Publishers Inc, New Delhi, pp 444-465 (2010)
561. Microbial lipids, SU Ahmed, GR Castro, CR Soccol, VT Soccol, C Larroche & Ashok Pandey, In: *Comprehensive Food Fermentation Biotechnology*, Editors- Ashok Pandey, CR Soccol, C Larroche, E Gnansounou & P Nigam, Vol II, Ch 7, Asiatech Publishers Inc, New Delhi, pp 224-255 (2010)
562. Fermented fruits and vegetables, LPS Vandenberghe, ABP Medeiros, Ashok Pandey & CR Soccol, In: *Comprehensive Food Fermentation Biotechnology*, Editors- Ashok Pandey, CR Soccol, C Larroche, E Gnansounou & P Nigam, Vol II, Ch 4, Asiatech Publishers Inc, New Delhi, pp 83- 108 (2010)
563. Predictive microbiology for safe food production, AC Portella, AL Woiciechowski, JL Parada, Ashok Pandey & CR Soccol, In: *Comprehensive Food Fermentation Biotechnology*, Editors- Ashok Pandey, CR Soccol, C Larroche, E Gnansounou & CG Dussap, Vol I, Ch 11, Asiatech Publishers Inc, New Delhi, pp 316-343 (2010)
564. Lactic acid bacteria as starters, JL Parada, CT Yamaguishi, Ashok Pandey & CR Soccol, In: *Comprehensive Food Fermentation Biotechnology*, Editors- Ashok Pandey, CR Soccol, C Larroche, E Gnansounou & CG Dussap, Vol I, Ch 2, Asiatech Publishers Inc, New Delhi, pp 46-88 (2010)

565. Banana flavor: insights into isoamyl acetate production, S Torres, Ashok Pandey & GR Castro, In: *Bananas: Nutrition, Diseases and Trade Issues*, Alisa E Cohen (ed), Nova Publishers, New York, USA, pp 225-244 (2010) ISBN: 978-1-61761-124-7
566. The industrial production of enzymes, Reeta Rani Singhanian, AK Patel & Ashok Pandey, In: *Industrial Biotechnology*, W Soetaert & EJ Vandamme (eds), Wiley-VCH Verlag, Weinheim, Germany, pp 207-226 (2010)
567. Lactic acid fermentation: Direct, RP John, GS Anisha, KM Nampoothiri & Ashok Pandey, In: *Encyclopaedia of Biotechnology in Agriculture and Food*, DR Heldman, A Bridges, D Hoover & MB Wheeler (eds), Taylor & Francis, New York, pp 355-359 (2010)
568. Biotechnological development of a coconut water probiotic beverage, CR Soccol, FC Prado, Ashok Pandey, ABP Medeiros, LPS Vandenberghe & VT Soccol, In: *Current Topics on Bioprocesses in Food Industry*, Volume III, LV Rao, Ashok Pandey, C Larroche, CR Soccol & CG Dussap (eds), Asiatech Publishers, Inc., New Delhi, pp 49-57 (2010)
569. Technological challenges in the production and application of cellulases for lignocellulosic bioethanol production, RK Sukumaran, KP Rajasree, Reeta Rani Singhanian, A Mathew, Lalitha Devi G, KU Janu, K Satyanagalakshmi, KV Sajna, N Kurian, VJ Surender, P Binod, R Sindhu & Ashok Pandey, In: *Proceedings of International Symposium on Bioenergy*, Indian Institute of Technology, Kharagpur, India, pp 56-62 (2010)
570. Solid-state fermentation technology for bioconversion of biomass and agricultural residues, P Nigam & Ashok Pandey, In- *Biotechnology for Agro-industrial residues utilization*, P Nigam & Ashok Pandey (eds), Springer, USA, Ch 10, pp 197-221 (2009)
571. Bioprocess technology and product development, P Binod & Ashok Pandey, In- *Bioprocess and Bioproducts: Technology Trends and Opportunities*, S Biswas, N Kaushik & A Pandey (eds), Asiatech Publishers, Inc., New Delhi, pp 10-29 (2009)
572. Ethanol from biomass, RK Sukumaran & Ashok Pandey, In- *Bioprocess & Bioproducts- Emerging Trends*, Editors- S Biswas, PR Basak, N Kaushik, TIFAC, New Delhi, pp 13-26 (2008)
573. Industrial enzymes for bioethanol from lignocelluloses- Cellulases, RK Sukumaran & Ashok Pandey, In- *Bioprocess & Bioproducts- Emerging Trends*, Editors- S Biswas, PR Basak, N Kaushik, TIFAC, New Delhi, pp 85-103 (2008)
574. Plant-based biofuels: An introduction, Reeta Rani Singhanian, P Binod & Ashok Pandey, In- *Handbook of Plant-Based Biofuels*, Editor- A Pandey, CRC Press, Francis & Taylor, Boca Raton, USA, pp 3-12 (2008)
575. Bioethanol from starchy biomass: Part I- Production of starch saccharifying enzymes, SU Nair, Sumitra Ramachandran & Ashok Pandey, In- *Handbook of Plant-Based Biofuels*, Editor- A Pandey, CRC Press, Francis & Taylor's, Boca Raton, USA, pp 87-104 (2008)
576. Solid-state fermentation, JA Rodríguez León, CR Soccol, Reeta Rani Singhanian, Ashok Pandey, W Sturm, LA Jr Letti, LPS Vandenberghe & DE Rodríguez Fernández, In- *Advances in Fermentation Technology*, A Pandey, C Larroche, CR Soccol & CG Dussap (eds), Asiatech Publishers, Inc, New Delhi, India, pp 539-554 (2008)
577. Production of mushrooms, L Fan, CR Soccol, Ashok Pandey & H Pan, In- *Advances in Fermentation Technology*, A Pandey, C Larroche, CR Soccol & CG Dussap (eds), Asiatech Publishers, Inc, New Delhi, India, pp 429-447 (2008)
578. Industrial enzymes, P Binod, Reeta Rani Singhanian, CR Soccol & Ashok Pandey, In- *Advances in Fermentation Technology*, A Pandey, C Larroche, CR Soccol & CG Dussap (eds), Asiatech Publishers, Inc, New Delhi, India, pp 291-320 (2008)
579. Microbial aminopeptidases and their application in food processing, KM Nampoothiri, R Rahulan & Ashok Pandey, In- *Recent Research Developments in Food Biotechnology: Enzymes as Additives or Processing Aids*, R Porta, P Di Pierro & L Mariniello (eds), Research Signpost, Trivandrum, India, pp 55-84 (2008)
580. Biotechnological potential of crop residues for developing bioprocess, Reeta Rani Singhanian & Ashok Pandey, In- *Genome Characterisation-Basics and Applications*, V Padmaja (ed), Aavishkar Publishers, Jaipur, pp 19-33 (2007) ISBN: 978-81-7910-195-7
581. Mycoremediation, MSM Anuar, S Vikineswary, A Noorlidah, M Sekaran, Ashok Pandey & EBG Jones, In: *Malaysian Fungal Diversity* (EBG Jones, KD Hyde & S Vikineswary (eds), Mushroom Research Centre, University of Malaya and Ministry of Natural Resources and Environment, Malaysia, pp 319-332 (2007)
582. Microbial chitinases: Effective biocontrol agents, C Sandhya, P Binod & Ashok Pandey, In- *Biological Control of Plant Diseases*, SB Chincholkar & KG Mukerji (eds), Haworth Food & Agricultural Products Press, New York, USA, pp 379-400 (2007)
583. Introduction, Ashok Pandey, CR Soccol & C Larroche, In- *Current Developments in Solid-state Fermentation*, A Pandey, CR Soccol & C Larroche (eds), Springer Science, New York, USA & Asiatech Publishers, Inc, New Delhi, India, pp 3-12 (2007)

584. General considerations about solid-state fermentation processes, Ashok Pandey, C Larroche & CR Soccol, In- *Current Developments in Solid-state Fermentation*, A Pandey, CR Soccol & C Larroche (eds), Springer Science, New York, USA & Asiatech Publishers, Inc, New Delhi, India, pp 13-25 (2007)
585. Factors affecting solid-state fermentation, JA Rodriguez-Leon, CR Soccol, Ashok Pandey & DE Rodriguez, In- *Current Developments in Solid-state Fermentation*, A Pandey, CR Soccol & C Larroche (eds), Springer Science, New York, USA & Asiatech Publishers, Inc, New Delhi, India, pp 26-47 (2007)
586. Kinetics in solid-state fermentation, JA Rodriguez-Leon, CR Soccol, Ashok Pandey & DE Rodriguez, In- *Current Developments in Solid-state Fermentation*, A Pandey, CR Soccol & C Larroche (eds), Springer Science, New York, USA & Asiatech Publishers, Inc, New Delhi, India, pp 48-73 (2007)
587. Production of enzymes, SK Singh, G Szakacs, CR Soccol & Ashok Pandey, In- *Current Developments in Solid-state Fermentation*, A Pandey, CR Soccol & C Larroche (eds), Springer Science, New York, USA & Asiatech Publishers, Inc, New Delhi, India, pp 181-204 (2007)
588. Production of organic acids, CR Soccol, LPS Vandenberghe, C Rodrigues, ABP Mediros, C Larroche & Ashok Pandey, In- *Current Developments in Solid-state Fermentation*, A Pandey, CR Soccol & C Larroche (eds), Springer Science, New York, USA & Asiatech Publishers, Inc, New Delhi, India, pp 205-229 (2007)
589. Production of spores in SSF, Sumitra Ramachandran, C Larroche & Ashok Pandey, In- *Current Developments in Solid-state Fermentation*, A Pandey, CR Soccol & C Larroche (eds), Springer Science, New York, USA & Asiatech Publishers, Inc, New Delhi, India, pp 230-252 (2007)
590. Mushroom production, L Fan, CR Soccol & Ashok Pandey, In- *Current Developments in Solid-state Fermentation*, A Pandey, CR Soccol & C Larroche (eds), Springer Science, New York, USA & Asiatech Publishers, Inc, New Delhi, India, pp 253-274 (2007)
591. Production of pigments, JC de Carvalho, CR Soccol, S Babitha, Ashok Pandey & AL Woiciechowski, In- *Current Developments in Solid-state Fermentation*, A Pandey, CR Soccol & C Larroche (eds), Springer Science, New York, USA & Asiatech Publishers, Inc, New Delhi, India, pp 337-355 (2007)
592. Production of aroma compounds, CR Soccol, ABP Medeiros, LPS Vandenberghe, M Soares & Ashok Pandey, In- *Current Developments in Solid-state Fermentation*, A Pandey, CR Soccol & C Larroche (eds), Springer Science, New York, USA & Asiatech Publishers, Inc, New Delhi, India, pp 356-378 (2007)
593. Application of tropical agro-industrial residues as substrates for solid-state fermentation processes, Reeta Rani Singhanian, CR Soccol & Ashok Pandey, In- *Current Developments in Solid-state Fermentation*, A Pandey, CR Soccol & C Larroche (eds), Springer Science, New York, USA & Asiatech Publishers, Inc, New Delhi, India, pp 412-442 (2007)
594. Natural food colorants from *Monascus purpureus*, S Babitha, C Sandhya, JC Carvalho, CR Soccol & Ashok Pandey, In- *Current Topics on Bioprocesses in Food Industry*, C Larroche, A Pandey & CG Dussap (eds), Asiatech Publishers, Inc, New Delhi, pp 186-196 (2006)
595. Production of bio-additives for food industry from agro-industrial residues, CR Soccol, Ashok Pandey, ABP Medeiros, LPS Vandenberghe, JC Carvalho & AL Woiciechowski, In- *Current Topics on Bioprocesses in Food Industry*, C Larroche, A Pandey & CG Dussap (eds), Asiatech Publishers, Inc, New Delhi, pp 128-140 (2006)
596. Process developments in solid-state fermentation for food applications, Ashok Pandey & Sumitra Ramachandran, In- *Food Biotechnology*, 2<sup>nd</sup> edition, K Shetty, G Paliyath, A Pometto & RE Levin (eds), Taylor & Francis, New York, pp 87-110 (2005)
597. Vistas of fermentation technology for value addition of sugar industry by-products, KM Nampoothiri, Sumitra Ramachandran, AK Patel, K Roopesh, CR Soccol & Ashok Pandey, In- *Sugar Cane: Production Management and Agro-Industrial Imperatives*, S Solomon, SS Grewal, Y Li, RC Magarey & GP Rao (eds), International Book Distribution Co, Lucknow, pp 743-757 (2005)
598. L-glutaminase as therapeutic enzyme of microbial origin, A Sabu, KM Nampoothiri & Ashok Pandey, In- *Microbial enzymes and biotransformations*, JL Barredo (ed), Humana Press, USA, pp 75-90 (2005)
599. Microbial proteases, C Sandhya, KM Nampoothiri & Ashok Pandey, In- *Microbial Enzymes and Biotransformations*, JL Barredo (ed), Humana Press, USA, pp 165-180 (2005)
600. Role of glucoamylase in Biotechnology, C Sandhya & Ashok Pandey, In- *Microbial Diversity: Current Perspectives and Potential Applications*, T Satyanarayana & BN Johry (eds), IK International Publishers, New Delhi, pp 679-694 (2005), ISBN: 81-88237-43-4
601. Cellulase production using cassava bagasse as a substrate, Reeta Rani Singhanian, RK Sukumaran & Ashok Pandey, In- *Root and Tuber Crops, Post-harvest Management and Value Addition*, G Padmaja, T Premkumar, S Edison and Bala Nambisan (eds), Published by CTCRI, Trivandrum, pp 247-251 (2005)
602. Cassava bagasse- an inexpensive carbon source for L(+) lactic acid production using mixed culture of lactobacilli, RP John, KM Nampoothiri & Ashok Pandey, In- *Root and Tuber Crops, Post-harvest Management and Value Addition*, G Padmaja, T Premkumar, S Edison and Bala Nambisan (eds), Published by CTCRI, Trivandrum, pp 242-246 (2005)



603. Therapeutic enzymes, KM Nampoothiri, A Sabu & Ashok Pandey, In- *Enzyme Technology*, A Pandey, C Webb, CR Soccol & C Larroche (eds), Asiatech Publishers, Inc., New Delhi, pp 697-708 (2004)
604. Chitinase, P Binod, C Sandhya, Ashok Pandey & CR Soccol, In- *Enzyme Technology*, A Pandey, C Webb, CR Soccol & C Larroche (eds), Asiatech Publishers, Inc., New Delhi, pp 433-448 (2004)
605. Phytase, K Roopesh, Sumitra Ramachandran, CR Soccol and Ashok Pandey, In- *Enzyme Technology*, A Pandey, C Webb, CR Soccol & C Larroche (eds), Asiatech Publishers, Inc., New Delhi, pp 359-380 (2004)
606. Inulinase, C Sandhya & Ashok Pandey, In- *Enzyme Technology*, A Pandey, C Webb, CR Soccol & C Larroche (eds), Asiatech Publishers, Inc., New Delhi, pp 347-358 (2004)
607. Protease, C Sandhya, A Sumantha & Ashok Pandey, In- *Enzyme Technology*, A Pandey, C Webb, CR Soccol & C Larroche (eds), Asiatech Publishers, Inc., New Delhi, pp 319-332 (2004)
608. Glucoamylase: CR Soccol, PJ Rojan, AK Patel, AL Woiciechowski, LPS Vandenberghe & Ashok Pandey, In- *Enzyme Technology*, A Pandey, C Webb, CR Soccol & C Larroche (eds), Asiatech Publishers, Inc., New Delhi, pp 221-238 (2004)
609. General Introduction, Ashok Pandey & Sumitra Ramachandran, In- *Enzyme Technology*, A Pandey, C Webb, CR Soccol & C Larroche (eds), Asiatech Publishers, Inc., New Delhi, pp 1-10 (2004)
610. L-glutaminase as a therapeutic enzyme of microbial origin, A Sabu, KM Nampoothiri & Ashok Pandey, In- *Methods in Biotechnology, Vol. 17: Microbial Enzymes and Biotransformation* JL Barredo (ed), Humana Press Inc, Totowa, NJ, pp 75-90 (2004)
611. Microbial proteases, C Sandhya, KM Nampoothiri & Ashok Pandey, In- *Methods in Biotechnology, Vol. 17: Microbial Enzymes and Biotransformation*, JL Barredo (ed), Humana Press Inc, Totowa, NJ, 181-195 (2004)
612. Biotechnology in India, Ashok Pandey, KM Nampoothiri & R Banerjee In- *Biotechnological Advances and Applications in Bioconversion of Renewable Raw Materials*, R Jonas, A Pandey & G Tharun (eds), Doehring Druck, Braunschweig, Germany, pp. 53-56 (2004)
613. Microbial degradation of caffeine and tannins present in coffee husk under solid-state fermentation, D Brand, Ashok Pandey, JA Rodriguez-Leon, S Roussos, I Brand & CR Soccol, In- *Biotechnological Advances and Applications in Bioconversion of Renewable Raw Materials*, R Jonas, A Pandey & G Tharun (eds), Doehring Druck, Braunschweig, Germany, pp 102-107 (2004)
614. Physical and nutritional factors influencing gibberellic acid production by solid-state fermentation using coffee husk and cassava bagasse, CMM Machado, CR Soccol, BH. Oliveira & Ashok Pandey, In- *Biotechnological Advances and Applications in Bioconversion of Renewable Raw Materials*, R Jonas, A Pandey & G Tharun (eds), Doehring Druck, Braunschweig, Germany, pp.157-162 (2004)
615. On-line monitoring of citric acid production in solid-state fermentation with cassava bagasse, LPS Vandenberghe, CR Soccol, Ashok Pandey & JM Lebeault, In- *Biotechnological Advances and Applications in Bioconversion of Renewable Raw Materials*, R Jonas, A Pandey & G Tharun (eds), Doehring Druck, Braunschweig, Germany, pp.210-212 (2004)
616. General aspects of solid-state fermentation, Ashok Pandey, F Francis, A Sabu & CR Soccol, Concise Encyclopaedia of Bioresource Technology, A Pandey (ed), Haworth Press, New York, USA, pp 702-708 (2004)
617. Organic acids: Production and application- Citric acid, CR Soccol, FC Prado, LPS Vandenberghe & Ashok Pandey, In- *Concise Encyclopaedia of Bioresource Technology*, A Pandey (ed), Haworth Press, New York, USA, pp 617-628 (2004)
618. Microbial enzymes: Production and applications- Phytases, C Krishna, Ashok Pandey & A Mohandas, Concise Encyclopaedia of Bioresource Technology, A Pandey (ed), Haworth Press, New York, USA, pp 569-577 (2004)
619. Bioconversion of agro-industrial residues for bioprocesses- Coffee industry residues, CR Soccol & Ashok Pandey, Concise Encyclopaedia of Bioresource Technology, A Pandey (ed), Haworth Press, New York, USA, pp 453-459 (2004)
620. Bioconversion of agro-industrial residues for bioprocesses- Cassava industry residues, CR Soccol & Ashok Pandey, Concise Encyclopaedia of Bioresource Technology, A Pandey (ed), Haworth Press, New York, USA, pp 443-452 (2004)
621. Microbial phytase- a tool for enhanced phosphorus removal, KM Nampoothiri, K Begum, A Sabu, G Szakacs & Ashok Pandey, In- *Proceedings of Indo-Italian Workshop on Emerging Technologies for Industrial Wastewater Treatment and Environment*, L Szpyrkowicz, SN Kaul, NN Rao & DM Dharmadhikari (eds), NEERI, Nagpur, pp. 364-370 (2002)
622. Producao do cogumelo comestivel- *Flammulina velutipes* em casca e bora de cafe. L Fan, CR Soccol & Ashok Pandey. *Proceedings of I Symposio de Pesquisa dos Cafes do Brasil*, Embrapa Cafe e MINASPLAN, Brazil, Vol I, pp 691-694 (2000)

623. Producao de cogumelo comestivel *Pleurotus* em casca de cafe e avaliacao do grau de detoxificacao do substrato. Leifa Fan, Carlos Ricardo Soccol and Ashok Pandey. *Proceedings of I Symposio de Pesquisa dos Cafes do Brasil*, Embrapa Cafe e MINASPLAN, Brazil, Vol. I, pp. 687-690 (2000)
624. Producao de goma xantana a partir de residuos da agroindustria do cafe. Adenise Lorenci Woiciechowski, Carlos R Soccol, Flavera Camargo and Ashok Pandey. *Proceedings of I Symposio de Pesquisa dos Cafes do Brasil*, Embrapa Cafe e MINASPLAN, Brazil, Vol I, pp. 677-680 (2000)
625. Production of mushrooms on Brazilian coffee industry residues. F Leifa, Ashok Pandey and C R Soccol. *In- Coffee Biotechnology and Quality* (Eds., T Sera, C R Soccol, A Pandey and S Roussos), Kluwer Academic Publishers, Dordrecht, The Netherlands, 427-436 (2000)
626. Development of bioprocesses for the conservation, detoxification and value-addition of coffee pulp and coffee husk- Biopulca project. S Roussos, C Augur, I Perraud-Gaime, D L Pyle, G Saucedo-Castaneda, C R Soccol, Ashok Pandey, I Ferrao and M Raimbault. *In- Coffee Biotechnology and Quality* (Eds- T Sera, C R Soccol, A Pandey and S Roussos), Kluwer Academic Publishers, Dordrecht, The Netherlands, 377-392 (2000)
627. Evaluation of physical factors for the production of gibberellic acid by solid-state fermentation using coffee husk and cassava bagasse. Cristina M M Machado, Carlos R Soccol, Bras H Oliviera and Ashok Pandey, *Proceedings of XIII Brazilian Congress of Chemical Engineering & XIX Inter-American Congress of Chemical Engineering, Brazil* (2000)
628. Citric acid production in solid-state fermentation with cassava bagasse. Luciana P S Vandenberghe, Carlos R Soccol, Ashok Pandey and Jean-Michel Lebeault. *Proceedings of XIII Brazilian Congress of Chemical Engineering & XIX Inter-American Congress of Chemical Engineering, Brazil* (2000)
629. Bioconversion of sugarcane bagasse in solid-state fermentation by micro-organisms. Ashok Pandey, Poonam Nigam, Carlos R Soccol, P Selvakumar, Dalel Singh and Vanete T Soccol, *In- Microbial Biotechnology for Sustainable Developments*, (Ed. R C Rajak), Scientific Publishers (India), Jodhpur, 253-261 (2000)
630. Detoxificacao biologica da casca de café por fungos filamentosus em fermentacao no estado solido. Debora Brand, F. Kawata, Ashok Pandey, S. Roussos, Maria C. dos Santos and Carlos R. Soccol. *Anais III Seminario Internacional sobre Biotecnologia na Agroindustria Cafeeira*, T Sera, CR Soccol & S Roussos (Eds.), IAPAR, Londrina, Brazil, pp. 401-403 (1999)
631. Producao de acido citrico por *Aspergillus niger* LPB21 em fermentacao no estado solido casca de café. Luciana P. S. Vandenberghe, Ashok Pandey, Jean-Michael Lebeault and Carlos R Soccol. *Anais III Seminario Internacional sobre Biotecnologia na Agroindustria Cafeeira*, T Sera, CR Soccol & S Roussos (Eds.), IAPAR, Londrina, Brazil, pp. 389-392 (1999)
632. Producao de aroma frtal por *Ceratocystis fimbriata* em residuo solido de agroindustrias de café. M. Soares, P. Christen, Ashok Pandey, M. Raimbault and C. R. Soccol. *Anais III Seminario Internacional sobre Biotecnologia na Agroindustria Cafeeira*, T Sera, CR Soccol & S Roussos (Eds.), IAPAR, Londrina, Brazil, pp. 385-387 (1999)
633. Production of edible mushroom *Lentinus edodes* on the coffee spent ground. F Leifa, Ashok Pandey, CR Soccol & R Mohan. *Anais III Seminario Internacional sobre Biotecnologia na Agroindustria Cafeeira*, T Sera, CR Soccol & S Roussos (eds.), IAPAR, Londrina, Brazil, pp. 377-380 (1999)
634. Experiencia Brasileria na valorizacao biotecnologica de subprodutos da agroindustria do café, CR Soccol, F Leifa, AL Woiciechowski, D Brand, CMM Machado, M Soares, P Christen & Ashok Pandey, *Anais III Seminario Internacional sobre Biotecnologia na Agroindustria Cafeeira*, T Sera, CR Soccol & S Roussos (eds.), IAPAR, Londrina, Brazil, pp. 323-328 (1999)
635. Enterobacteriaceae, coliforms and *E. coli*. Ashok Pandey, VK Joshi, P Nigam & CR Soccol. *In- Encyclopaedia of Food Microbiology*, R Robinson, C Batt & P Patel (eds), ISBN: 0-12-227070-3, Academic Press, London, Vol. I, pp. 604-611 (1999)
636. Biotechnology: Food Fermentation, VK Joshi & Ashok Pandey, *In - Biotechnology: Food Fermentation*, VK Joshi & A Pandey (eds), Educational Publishers & Distributors, New Delhi, Vol. I, pp. 1-24 (1999)
637. Fermentation types and factors affecting it. Ashok Pandey, W Azmi, J Singh & UC. Banerjee. *In - Biotechnology: Food Fermentation*, VK Joshi & A Pandey (eds), Educational Publishers & Distributors, New Delhi, Vol. I, pp 383-426 (1999)
638. Fermentation technology for food industry waste utilization VK Joshi, Ashok Pandey & DK Sandhu. *In - Biotechnology: Food Fermentation*, VK Joshi & A Pandey (eds), Educational Publishers & Distributors, New Delhi, Vol. II, pp. 1291-1348 (1999)
639. Potential applications of cellulosic residues for the production of bulk chemicals and value added products, Ashok Pandey and Carlos R. Soccol, *In- Trends in Carbohydrate Chemistry*, (Eds. P. L. Soni & Vineet Kumar), Vol. 5, Surya International Publications, Dehradun, India, pp. 83-88 (1998)
640. Solid-state fermentation: An overview. Ashok Pandey. *In - Solid State Fermentation*. (Ed. Ashok Pandey), Wiley Eastern Limited, New Delhi, India. pp. 3-10 (1994)

641. An integrated approach through science and technology for industrial development of the State utilizing its regional resources. Ashok Pandey and A. D. Damodaran. *Proceedings of Kerala Science Congress.*, 4, 336-338 (1992)
642. Towards a focus for biotechnology research in India and other developing countries - S & T policies and issues, S. Sureshkumar & Ashok Pandey. *Proceedings of VIII Carbohydrate Conference*, pp 128-132 (1992)
643. Bioconversion of agricultural biomass into value added products: The solid-state fermentation approach. Ashok Pandey & S Radhakrishnan,. *Proceedings of Kerala Academy of Sciences*, 1, 69-79 (1990)

## PATENTS

644. Process for the preparation of clavulanic acid employing *Streptomyces clavuligerus* MTCC 1142 in a solid-state fermentation, P Saudagar, SK Singh, R Singhal & Ashok Pandey, CN102933717A, Feb 13, 2013
645. A process on lactic acid production from starchy agro-residues, R Banerjee, M Bishai, B Adhikari, G Reddy, KM Nampoothiri & Ashok Pandey, 1251/KOL/2012 Dated 31.10.2012
646. Process of production of arginine employing *Corynebacterium glutamicum* ATCC 21831 or *Corynebacterium glutamicum* ATCC 21493 in a fermentation medium comprising cassava bagasse or jackfruit seed as a carbon source, Ashok Pandey, KM Nampoothiri & R Subramanyam, No 20120309061 (2011)
647. Utilization of agro-industrial residues for the fermentative production of arginine, KM Nampoothiri, Ashok Pandey & R Subramanyam, PCT/US2010/025371(2011)
648. Process of producing arginine employing ATCC 21831 or ATCC 21493 in an a fermentation medium comprising cassava bagasse or jackfruit seed as a carbon source, Ashok Pandey, KM Nampoothiri & R Subramanyam, PCT no 9150892 (2010)
649. An improved bioprocess for the production of extracellular L-methionine aminopeptidase (L-MAP) from *Streptomyces gedanensis* under solid-state fermentation (SSF), KM Nampoothiri, R Rahulan & Ashok Pandey, Indian Patent, 0155NF (2010)
650. Improved fermentation process for the production of microbial lipid containing high amounts of gamma-linolenic acid, SU Ahmed, SK Singh and Ashok Pandey, Indian Patent NF 009, 2008; IN200900182-II
651. A solid-state fermentation process for the preparation of clavulanic acid, PS Saudagar, SK Singh, RS Singhal & Ashok Pandey, Indian Patent NF/042/2006, 30<sup>th</sup> March 2006; PCT/IB07/001095, dated 27.4.07; **WO2008132531-A1**
652. Development of fermented jack fruit seed powder & use the same as potential substrate for the production of food grade red pigments by SSF, S Babitha & Ashok Pandey, Indian Patent, NF257/04 (2004)
653. A process for the production of phytase by solid-state fermentation with jack fruit seed powder using *Aspergillus ficcum*, KM Nampoothiri & Ashok Pandey, Indian Patent NF/006/2004; IPANo 1891/DEL/04, dated 30.9.04
654. An improved process for the production of phytase by *Aspergillus ficuum* under solid-state fermentation. Ashok Pandey, S Sarita, A Sabu & G Szakacs. Indian Patent, NF/338/01, IPA No 1892/DEL/04, dated 30/9/04
655. Production of xanthan gum from cassava bagasse hydrolysate. CR Soccol, AL Woiciechowski & Ashok Pandey, Brazilian Patent no INPI No 001544, Instituto Nacional de Propriedade Industrial, Brazil, December 27, 2000
656. A novel process for the production of cyclosporin A. Ashok Pandey & K Balakrishnan. Indian Patent 184,003; IPA 1920/DEL/95, dated 19.10.95
657. A novel process for the production of fungal spores in solid-state fermentation. Ashok Pandey, P Selvakumar, L Ashakumary & AD Damodaran. Indian, IPA no 379/DEL/96, dated 23.2.96
658. An improved process for the preparation of glucoamylase enzyme, Ashok Pandey, Indian Patent 178612; IPA No 1041/DEL/91, dated 29.10.91

## DESIGN COPYRIGHT

659. Engineering design for Centr for Biofuels, Ashok Pandey & RK Sukumaran, IPU 015CR2011, New Delhi, 27<sup>th</sup> August (2011)