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| **ASHOK PANDEY- List of Publications, including Patents/Books/Book Chapters/Technical Reports/Special Issues of Journals**  **[As on February 7, 2023; most recent listed first]** |

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| **INTERNATIONAL CONFERENCES COMMUNICATIONS** |

1. Chili post-harvest residue biorefinery, R Sindhu, P Binod & Ashok Pandey, 7th International Conference on Agricultural and Biological Sciences & 4th International Conference on Applied Biochemistry and Biotechnology, Virtual Conference, ABB 1271, August 9-11 (2021)
2. Solid waste management: Do biorefineries offer sustainability for crop wastes management? 8th International Conference on Sustainable Solid Waste Management (THESSALONIKI 2021), Greece; June 23-26 (2021) **KEYNOTE LECTURE**
3. Microalgal cultivation on wastewaters for energy and environmental sustainability, Ashok Pandey, Distinguished Lecture Series, Hong Kong Baptist University, Hong Kong; May 25 (2021) **DISTINGUISHED LECTURE**
4. Spirituality vis-a-vis Sustainability: Solid Waste Management for Environment and Health Protection, Ashok Pandey, Eco-theology conference on Sustainability through Simplicity and Spirituality (Virtual), May 22-23 (2021) **KEYNOTE LECTURE**
5. Biochar as sustainable bioabsorbent for the remediation of dyes containing industrial wastewater, Ashok Pandey, Asia-Pacific Biochar Conference, The Hong Kong Polytechnic University; May 12-14 (2021) **KEYNOTE LECTURE**
6. Resource recovery from biowastes: Bioeconomy perspective for energy and environmental sustainability, Ashok Pandey, International Conference on Sustainable Biowste Management, Hong Kong Baptist University, Hong Kong; April 12-15 (2021) **KEYNOTE LECTURE**
7. Technological advancements and innovations for pretreatment strategies of chili post-harvest residue biorefinery, R Sindhu, P Binod & Ashok Pandey, International conference on Bioengineering solutions for Healthcare, Food, Energy, and Environment (BSHFEE- 2021), IIT Jodhpur, India; April 9-10, p104 (2021)
8. Recovery of 2,3-butanediol from the fermented broth using aqueous two-phase extraction(APTS) and vacuum distillation: purification and characterization; V Narisetty, Y Amraoui, P Binod, V Kumar & Ashok Pandey, International conference on Bioengineering solutions for Healthcare, Food, Energy, and Environment (BSHFEE- 2021), IIT Jodhpur, India; April 9-10, p 101 (2021) **BEST PAPER AWARD**
9. Biosynthesis and statistical media optimization for growth and poly-3-hydroxybutyrate production by *Bacillus sp.* characterized through FTIR and NMR, Ranjna Sirohi & Ashok Pandey, International conference on Bioengineering solutions for Healthcare, Food, Energy, and Environment (BSHFEE- 2021), IIT Jodhpur, India; April 9-10, p 99 (2021) **BEST PAPER AWARD**
10. Transcriptome analysis identifies candidate genes involved in regulation of cellulases in *Penicillium janthinellum* NCIM-1366, AthiraRaj SR, M Christopher, Prajeesh KV, A Abraham, DV Gokhale, Ashok Pandey & RK Sukumaran, Inernational Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), Jaipur, India; April 4-8 , p299 (2021)
11. Chlorpyrifos degradation coupled with plant growth promoting activity of *Pseudomonas nitroreducens* AR-3 indicate potential in reclamation of pesticide contaminated soil; Athulya, A Aswathi, Athira VP, Dileep R, Ashok Pandey & RK Sukumaran, Inernational Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), Jaipur, India; April 4-8, (2021) **BEST PAPER AWARD**
12. Waste-to-energy as an attractive solution for resource recovery and sustainable development, Ashok Pandey, International conference on Frontiers in Chemical Technology 2020; Colombo, Sri Lanka; July 20-22 (2020) **KETNOTE LECTURE**
13. International Symposium on Recent Advances in Biotechnology: Bioeconomy Tranformation and Achievement of Sustainable Development Goals, Precious Cornerstone University, Ibadan, Nigeria; February 23-27 (2020) **GUEST SPEAKER**
14. Value-addition through the treatment and management of solid waste for environmental sustainability, Ashok Pandey, Semi-symposium on the Seafood Safety and Environmental Safety, National Kaohsiung University of Science and Technology, Kaohsiung City, Taiwan; December 16-20 (2019) **KETNOTE LECTURE**
15. Solid waste management: The issue of sustainability, Ashok Pandey, 2nd International Conference on Green Technologies for Sustainable Water (GTSW 2019), Ho Chi Minh City, Vietnam; December 1-4 (2019) **KETNOTE LECTURE**
16. Transcriptomic and proteomic approach for understanding microbial tolerance to the organophosphate pesticide- cholorpyrifos, A Aswathi, Ashok Pandey & RK Sukumaran, International Conference on New Horizons in Biotechnology & XVI Annual Convention of the Biotech Research Society, India; Trivandrum, India; November 20-24, p306 (2019)
17. Genome sequencing and functional annotation of the fungus *Penicillium janthinellum* provide insights into its cellulytic system, SR Athria Raj, A Abraham, M Christopher, KV Prajessh, DV Gokhale, Ashok Pandey & RK Sukumaran, International Conference on New Horizons in Biotechnology & XVI Annual Convention of the Biotech Research Society, India; Trivandrum, India; November 20-24, p304 (2019)
18. Comparative study of cellulolytic enzymes secreted during solid and submerged state of fermentation of *Penicillium janthinellum,* S Meena, Ashok Pandey & RK Sukumaran, International Conference on New Horizons in Biotechnology & XVI Annual Convention of the Biotech Research Society, India; Trivandrum, India; November 20-24, p227 (2019) **BEST PAPER AWARD**
19. Optimization for improved production of isobutanol by using *Candida glabrata*, LM Nair, C Salini, M Binoop, P Binod & Ashok Pandey, International Conference on New Horizons in Biotechnology & XVI Annual Convention of the Biotech Research Society, India; Trivandrum, India; November 20-24, p204 (2019)
20. Adaptive evolution of *Lactobacillus brevis* NIE 9.3.3 in sweet sorghum juice and biodiesel derived crude glycerol to improve 1,3-propanediol production, KB Anjali, V Narisetty, Ashok Pandey & P Binod, International Conference on New Horizons in Biotechnology & XVI Annual Convention of the Biotech Research Society, India; Trivandrum, India; November 20-24, p175 (2019)
21. Waste to Resources: Opportunities and Challenges,4th Subject Specialized conference of International Bioprocessing Association on Accelerating Agricultural Biomass Utilization for Sustainable Development, Henan Agriculture University, Zhengzhou, China; November 2-4, (2019) **KETNOTE LECTURE**
22. Waste to wealth: Resource recovery & sustainability, 4th International Conference on Alternative Fuels, Energy and Environment (ICAFEE): Future and Challenges; Feng Chia University, Taichung, Taiwan; October 18-21 (2019) **PLENARY LECTURE**
23. Global energy demand vs sustainability: Bioenergy from agro-industrial wastes for greener climte, Ashok Pandey, International Conference on Advanes and Innovations in Biotechnology for Sustainable Developments, AKS University, Satna, India; April 5-7 (2019) **KETNOTE LECTURE**
24. Microalgal cultivation on wastewaters for energy and environmental sustainability, Ashok Pandey, International Conference Korea Water and Water Association, Daegu, Korea; March 21-22 (2019) **PLENARY LECTURE**
25. Biofuels and biorefineries for energy and environmental sustainability, Ashok Pandey, E2S2-CREATE AND AIChEInternational Waste ManagementConference, National University of Singapore, Singapore; March 11-13 (2019) **PLENARY LECTURE**
26. Computational toxicity screening of biologically derived fuel compounds, Z Arif, Ashok Pandey, E Gnanousou & R Parthasarathi, International Conference on Bio-Innovation for Environmental and Health Sustainable Developments (BEHSD-2018), CSIR-IITR, Lucknow, India; November 27-28 (2018) **BEST POSTER AWARD**
27. Bioconversion of food waste to an eco-friendly biopolymer, R Sindhu, P Mohan, A Manju, A Madhavan, P Binod & Ashok Pandey, International Conference on Bio-Innovation for Environmental and Health Sustainable Developments (BEHSD-2018), CSIR-IITR, Lucknow, India; November 27-28 (2018)
28. Adsorption studies of lactic and acetic acid from simulated solutions and fermented broth using ion exchange resins: Equilibrium and kinetics, N Vivek, Ashok Pandey & P Binod, International Conference on Biotechnological Research and Innovation for Sustainable Development (BioSD-2018) & XV Annual Convention of Biotech Research Society, CSIR-IICT, Hyderabad, India; November 22-25 (2018) **BEST PAPER AWARD**
29. Semi-batch hydrolysis of rice straw to increase yield of fermentable sugars, MP Varghese, J Vakkachan, L Nair, RK Sukumaran, Ashok Pandey & Kiran Kumar M, International Conference on Biotechnological Research and Innovation for Sustainable Development (BioSD-2018) & XV Annual Convention of Biotech Research Society, CSIR-IICT, Hyderabad, India; November 22-25 (2018)
30. Biodegradation of chlorpyrifos *by Pseudomonas nitroreducens*: Investigations into the molecular mechanism of organophosphate degradation, A Aswathi, Ashok Pandey &RK Sukumaran, International Conference on Biotechnological Research and Innovation for Sustainable Development (BioSD-2018) & XV Annual Convention of Biotech Research Society, CSIR-IICT, Hyderabad, India; November 22-25 (2018)
31. Lignin re-deposition during pretreatment is a major factor affecting enzymatic hydrolysis of lignocellulosic biomass, S Meena, A Mathew, Ashok Pandey & RK Sukumaran, International Conference on Biotechnological Research and Innovation for Sustainable Development (BioSD-2018) & XV Annual Convention of Biotech Research Society, CSIR-IICT, Hyderabad, India; November 22-25 (2018)
32. 1,3-propanediol production using *Lactobacillus brevis* N1E9.3.3: Evaluation of control objectives under different feeding strategies in a glycerol-glucose co-fed batch fermentation, KB Anjali, N Vivek, E Burel, Ashok Pandey & P Binod, International Conference on Biotechnological Research and Innovation for Sustainable Development (BioSD-2018) & XV Annual Convention of Biotech Research Society, CSIR-IICT, Hyderabad, India; November 22-25 (2018)
33. Value addition of chili post-harvest residue, R Sindhu, P Binod, AK Mathew, A Abraham, Ashok Pandey & E Gnansounou, International Conference on Biotechnological Research and Innovation for Sustainable Development (BioSD-2018) & xv Annual Convention of Biotech Research Society, India; CSIR-IICT, Hyderabad, India; November 22-25 (2018)
34. Prospects of renewable energy from agri-biomass: Global energy demand vs sustainability, Ashok Pandey, International BioEnergy and Environment Research Cooperative Network (IBEE-RCN), Tianjin University, China; October 29-30 (2018) **INVITED LECTURE**
35. Climate change, global energy demand and sustainability: How do we balance? Ashok Pandey, 1st international conference on Water Resources and Sustainability (ICWRS) & 3rd international conference on Fuels, Energy and Environment (ICAFE): Future and Challenges, Nanjing, China, October 28-31 (2018) **KEYNOTE LECTURE**
36. Technological challenges, advancements and innovations in lignocellulosic based biorefinery for fuels and chemicals, R Sindhu, P Binod, N Vivek, SH Hazeena & Ashok Pandey, 2nd International Conference on Bioresource Technology for Bioenergy, Bioproducts & Environmental Sustainability, Elsevier, Sitges, Spain, September 16-19 (2018) **BEST POSTER AWARD**
37. Biomass to Biofuels: Production of liquid biofuels from agro-industrial residues, Ashok Pandey, 2nd International Conference on Bioresources, Energy, Environment, and Materials Technology (BEEM 2018), Korea Biochar Research Center, Korean Society of Environmental Biology and Korean Society of Water and Wastewater, Gangwon-do, South Korea; June 10-13 (2018) **KEYNOTE LECTURE**
38. Biomass to fuels and chemicals for energy and environmental sustainability, Spring Meeting and International onference, Korean Society of Industrial and Enginerring Chemistry, Daegu, South Korea; May 2-4 (2018) **INVITED LECTURE**
39. Energy and Environmental Sustainability through Biorefineries, Ashok Pandey, International Symposium on Advanced Membranes & Sustainable Technologies, Tianjin Polytechnic University, Tianjin, China, April 13-16 (2018) **KEYNOTE LECTURE**
40. Development of an integrated dilute acid lime pretreatment of chili post harvest residue for bioethanol production, R Sindhu, A Antony, P Binod, E Gnansounou, Ashok Pandey, A Kuruvilla Mathew & A Abraham, In- *Proceedings of the International Conference on Sustainable Energy and Environmental Challenges* (SEEC-2018), December 31, 2017 – January 3, 2018; Indian Institute of Science, Bangalore, India; pp 306-309 (2018)
41. Moving towards a carbohydrate economy: Lignocellulosic biorefineriesfor fuels and chemicals, Ashok Pandey, International Conference on Challenges in Environmental Science and Engineering (CESE-2017), Kunming, China; November 11-15 (2017) **KEYNOTE LECTURE**
42. Waste-to-Energy: Production of liquid biofuel from agro-industrial waste, Ashok Pandey, International Conference on Waste to Energy: Challenges and Opportunties, Shanghai, China; November 10-11 (2017) **KEYNOTE LECTURE**
43. Biomass Based Biorefineries- A Case Study of Sorghum, Ashok Pandey, The 2nd International Conference on Alternative Fuels and Energy: Future and Challenges – ICAFE 2017, Daegu, South Korea; October 23-25 (2017) **KEYNOTE LECTURE**
44. Oil production by microalga *Chlorococcum* sp RAP-13 on seawater and industrial effluents, Ashok Pandey, International Conference on Green Technologies for Sustainable Water, Hanoi, Viet Nam; October 13-15 (2017) **KEYNOTE LECTURE**
45. Coupling of mass cultivation of microalgae with industrial wastewater treatment, Ashok Pandey, 8th International Water Association (IWA) Membrane Technology Conference & Exhibition for Water and Wastewater Treatment and Reuse (IWA-MTC 2017), Singapore, September 5-9 (2017) **PLENARY LECTURE**
46. Biomass to chemicals and fuels, Ashok Pandey, International Workshop on Renewable Energy Materials-2017 (REM17), Manonmaniam Sundaranar University, Tirunelveli; August 28-20 (2017) **PLENARY LECTURE**
47. Biomass to chemicals and fuels- the concept and application of biorefinery, Ashok Pandey, 2ndInternational Conference on Biological Waste as Resource 2017 (BWR-2017), Hong Kong; May 25-27 (2017) **PLENARY LECTURE**
48. Valorization of pineapple post harvest and fruit processing wastes by extraction of high value bromelain and use of residues for ethanol production, AK Mathew, M Christopher, E George, A Abraham, R Sindhu, Ashok Pandey & RK Sukumaran In- Proceedings of the International Conference on Sustainable Energy and Environmental Challenges (SEEC-2017), Mohali, India; February 26-28, p114 (2017)
49. A novel surfactant assisted transition metal pretreatment of chili post harvest residue for the production of bioethanol, R Sindhu, K Jerina, P Binod, AK Mathew, A Abraham, E Gnansounou & Ashok Pandey, In Proceedings of the International Conference on Sustainable Energy and Environmental Challenges (SEEC-2017), Mohali, India; February 26-28 (2017)
50. Evaluation of paragrass from Logtak lake in Manipur as feed stock for bioethanol production. Sabeela Beevi U, OA Kumar, DB Sahoo, RK Sukumaran & Ashok Pandey. In- International Conference on Current Trends in Biotechnology – ICCB 2016, VIT, Vellore, India; December 8-10, p 76 (2016)
51. Evaluation of various encapsulation methods for improving the shelf-life of phenol degrading bacteria, Lakshmi M Nair, Ashok Pandey & P Binod. In- International Conference on Current Trends in Biotechnology – ICCB 2016, VIT, Vellore, India; December 8-10, p 118 (2016)
52. Performance of suspended and immobilized *Lactobacillus brevis* N1E.9.9 strain in batch, fed-batch and continuous processes for 1,3 PDO production, N Vivek, PR Swen, TV Aswathi, Ashok Pandey & P Binod. In- International Conference on Current Trends in Biotechnology – ICCB 2016, VIT, Vellore, India; December 8-10, p 125 (2016)
53. A novel high-throughput assay method to screen enantiospecific ketoreductases, P Ranjan, Ashok Pandey & P Binod. In- International Conference on Current Trends in Biotechnology – ICCB 2016, VIT, Vellore, India, December 8-10, p 132 (2016)
54. Cellulase production using *Trichoderma reesei* in solid-state fermentation and its application in saccharification of alkali pretreated sorghum stover, ASO Idris, Ashok Pandey & RK Sukumaran, In- International Conference on Current Trends in Biotechnology – ICCB 2016, VIT, Vellore, India; December 8-10, p 235 (2016)
55. A biorefinery based approach for the production of ethanol from enzymatically saccharified cotton stalks, M Christopher, A Mathew, K Kumar M, Ashok Pandey & RK Sukumaran. In- International Conference on Current Trends in Biotechnology – ICCB 2016, VIT, Vellore, India; December 8-10, p 235 (2016)
56. Adsorptive separation of fermentation inhibitors by molecular modeling, LP Devendra & Ashok Pandey, In- International Conference on Current Trends in Biotechnology – ICCB 2016, VIT, Vellore, India; December 8-10, p 497 (2016) **BEST POSTER AWARD**
57. Identification of differentially expressed proteins in response to pesticides in *E. coli*, A Aswathi, Ashok Pandey & RK Sukumaran. In- International Conference on Current Trends in Biotechnology – ICCB 2016, VIT, Vellore, India; December 8-10, p 520 (2016).
58. Bioproducts from industrial residues, Ashok Pandey, Asia-PacificConference on Biotechnology for Waste Conversion, Hong Kong, December 6-8 (2016) **KEYNOTE LECTURE**
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2. **Biomass to fuels and chemicals: Production of bioethanol from renewable alternative feedstocks,** Ashok Pandey, 1st Biomass to Bio-value Summit, Centre for Innovative and Applied Bioprocessing, Mohali, February 11-12 (2016)
3. Industrial enzymes: Production and perspectives, Ashok Pandey, Bioprocessing India 2015, Indian Institute of Technology, Chennai; December 17-19 (2015)
4. Second Generation Bioethanol: Availability of Feedstocks in India, Ashok Pandey, Bioprocessing India 2013, December 5-7, IIT, Delhi (2013) **INVITED LECTURE**
5. New generations of biofuels: how sustainable they are? Ashok Pandey, National Conference on Sustainable Development & Role of Technologies, May 18-19, Regional College for Engineering for Woman, Jaipur (2012) **INVITED LECTURE**
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8. Assessment of biological resources for sustainable use: The case of lignocellulosic agro-industrial residues as feedstock for bioconversion to bioethanol, KP Rajasree, Lalitha DG, KU Janu, K Satayanagalakshmi, KV Sajna, N Kurian, A Mathew, Reeta Rani Singhania, P Binod, R Sindhu, VJ Surender, RK Sukumaran & Ashok Pandey**, National Conference on Bioprospecting: Access for Sustainable Development, National Institute of Technology, Allahabad, February 19-20, pp 1-2 (2010) INVITED LECTURE**
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12. Opportunities and challenges in the production of lignocellulosic bioethanol, Reeta Rani Singhania, P Binod, R Sindhu, VJ Surender, Lalitha Devi G, KU Janu, K Satayanagalakshmi, KV Sajna, N Kurian, RK Sukumaran & Ashok Pandey, IIChE & TIFAC seminar on Bioprocess Technologies- Emerging opportunities, New Delhi, October 9 (2009) **INAUGURAL KEY NOTE LECTURE**
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38. Micro-organisms as tools for industrial enzymes, P Binod and Ashok Pandey, National seminar on Advances in Biological Sciences, August 13, Coimbatore, p 20 (2004) **PLENARY TALK**
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42. Bioconversion of agro-industrial residues, Ashok Pandey, Refresher Course on Plant Biotechnology, February 25, Tirunelveli (2003) **INVITED TALK**
43. Bioprocess technology for the production of biopharmaceuticals, Ashok Pandey, National symposium on Biosciences: Biotechnology in Health Care, February 14-15, Coimbatore, p. 15 (2003) **PLENARY TALK**
44. Microbial enzyme- the emerging trend, Ashok Pandey, National Symposium on Environmental Biotechnology and Biodiversity Conservation, January 31- February 1, Vallabh Vidyanagar, p. 9-10 (2003) **INVITED TALK**
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