

Joint Publications (Journals):

1. R. Singh, P. Kumari, R. K. Rathore, K. Shinjato, T. Ichikawa, A.S. Verma, V. K. Saraswat, K. Awasthi, A. Jain, and M. Kumar, *Int. J. Hydrogen Energy*, 2018, 43, 21709-21714.
2. Pooja Kumari, Pratibha Pal, Keita Shinzato, Kamlendra Awasthi, Takayuki Ichikawa, Ankur Jain, Manoj Kumar. *International Journal of Hydrogen Energy* 45(34) 16992-16999 July 3, 2020.
3. Pooja Kumari, Rini Singh, Kamlendra Awasthi, Takayuki Ichikawa, Ankur Jain, Manoj Kumar, "Electrochemical reaction mechanism for Bi₂Te₃ based anode material in highly durable all solid-state lithium ion batteries" , *Journal of Materials Science: Materials in Electronics* Volume :31 / 16429 / 2020.
4. Pratibha Pal, Pooja Kumari, Yongming Wang, Shigehito Isobe, Manoj Kumar, Takayuki Ichikawa, Ankur Jain, "Destabilization of LiBH₄ by the infusion of Bi₂X₃ (X = S, Se, Te): An in-situ TEM investigation" , *Journal of Materials Chemistry A* Volume :8 / 25706 / 2020.
5. Pooja Kumari, Rini Singh, Kamlendra Awasthi, Takayuki Ichikawa, Manoj Kumar, Ankur Jain, "Highly stable nanostructured Bi₂Se₃ anode material for all solid-state lithium-ion batteries" , *Journal of Alloys and Compounds* Volume :838 / 155403 / 2020.
6. Rini Singh, Pooja Kumari, Manoj Kumar, Takayuki Ichikawa, Ankur Jain, "Implementation of Bismuth Chalcogenides as an Efficient Anode: A Journey from Conventional Liquid Electrolyte to an All-Solid-State Li-Ion Battery" , *Molecules* Volume :25 / 3733 / 2020.
7. Pooja Kumari, Kamlendra Awasthi, Shivani Agarwal, Takayuki Ichikawa, Manoj Kumar and Ankur Jain, "Flower-like Bi₂S₃ nanostructures as highly efficient anodes for all-solid-state lithium-ion batteries" , *RSC Advances* Volume :9 / 29549 / 2019.
8. Pooja Kumari, Khushbu Sharma, Pratibha Pal, Manoj Kumar, Takayuki Ichikawa and Ankur Jain, "Highly efficient & stable Bi & Sb anodes using lithium borohydride as solid electrolyte in Li-ion batteries" , *RSC Advances* Volume :9 / 13077 / 2019.
9. Pooja Kumari, K. Awasthi, Shivani Agarwal, Takayuki Ichikawa, Ankur Jain, Manoj Kumar, "Flower-like Bi₂S₃ nanostructures as highly efficient anode for all-solid-state lithium-ion battery" , *RSC Advances* Volume :9 / 29549 / 2019.
10. Pooja Kumari, Khushbu Sharma, Shivani Agarwal, Kamlendra Awasthi, Takayuki Ichikawa, Manoj Kumar, Ankur Jain, "The Destabilization of LiBH₄ Through the Addition of Bi₂Se₃ Nanosheets" , *International Journal of Hydrogen Energy* Volume :00 / 00-00 / 2019.
11. Pooja Kumari, Khushbu Sharma, Pankaj Kumar Singh, Kamlendra Awasthi, Hiroki Miyaoka, Takayuki Ichikawa, Manoj Kumar, and Ankur Jain, *Int. J. Hydrogen Energy* (Under Review).
12. Rini Singh, Sandeep Gupta, Sapna, Ajay Singh Verma, Vibhav Kumar Saraswat, Kamlendra Awasthi, Ankur Jain, Takayuki Ichikawa and Manoj Kumar, *Separation and purification technology* (Communicated).

13. Sandeep Gupta, Garima Agarwal, VaibhavKulshrestha, Dinesh N Srivastava, Kanad Ray, Sankar L Kothari, KamalendraAwasthi and Manoj Kumar, *Separation and purification technology* (Communicated).
14. Vinayaka R. Kiragi, Amar Patnaik, Tej Singh, Gusztáv Fekete. (2019). Parametric Optimization of Erosive Wear Response of TiAlN-Coated Aluminium Alloy Using Taguchi Method. *Journal of Materials Engineering and Performance* <https://doi.org/10.1007/s11665-018-3816-6>.
15. Tej Singh, Brijesh Gangil, Amar Patnaik, Gusztáv Fekete (2019). Agriculture waste reinforced cornstarch-based biocomposites: Effect of rice husk/walnut shell on physicomechanical, biodegradable and thermal properties. *Materials Research Express*. <https://doi.org/10.1088/2053-1591/aafe45>.
16. Sharma, K., Vyas, R.K., Singh, K., Dalai, A.K "Degradation of a synthetic binary dye mixture using reactive adsorption: Experimental and modeling studies" **Journal of Environmental Chemical Engineering** Volume :6 / 5732-5743 / 2018 ISBN: ISSN: 2213-3437 (Elsevier)
17. Rini Singh, Pooja Kumari, Rajan K Rathore, Keita Shinzato, Takayuki Ichikawa, Ajay S Verma, Vibhav K Saraswat, Kamalendra Awasthi, Ankur Jain, Manoj Kumar , "LiBH₄ as solid electrolyte for Li-ion batteries with Bi₂Te₃ nanostructured anode" , *International Journal of Hydrogen Energy* Volume :43 / 21709 / 2018.
18. Rini Singh, Pooja Kumari, Rajan K Rathore, Keita Shinzato, Takayuki Ichikawa, Ajay S Verma, Vibhav K Saraswat, Kamalendra Awasthi, Ankur Jain, Manoj Kumar , "LiBH₄ as solid electrolyte for Li-ion batteries with Bi₂Te₃ nanostructured anode" , *International Journal of Hydrogen Energy* Volume :43 / 21709 / 2018.
19. Tej Singh , Amar Patnaik ,Gusztáv Fekete , Ranchan Chauhan, Brijesh Gangil. (2019).Application of hybrid analytical hierarchy process and complex proportional assessment approach for optimal design of brake friction materials. *POLYMER COMPOSITES*. doi.org/10.1002/pc.24907.
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25. Parmila Devi, Ajay Dalai and S. P. Chaurasia "Activity and stability of biochar in hydrogen peroxide based oxidation system for degradation of Naphthenic acid" Chemosphere Volume :241 / 1-9 / 2020 ISBN: 0045-6535 (Elsevier)
26. Jharna Gupta, Madhu Agarwal and A.K. Dalai, S.P. Chaurasia. "Preparation and characterization of Cao nanoparticle for biodiesel production from mixture of edible and non-edible oils" International Journal of Renewable Energy Technology Volume :9 / 50-65 / 2018 ISBN: 1757-3971 (International Journal of Renewable Energy Technology)
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39. Kriti Bhandari, S.P. Chaurasia and A.K. Dalai "Hydrolysis of tuna fish oil using *Candida rugosa* lipase for producing fatty acids containing DHA" *International Journal of Applied and Natural Sciences* Volume :2 / 1-12 / 2013 ISBN: 2319-4014 (International academy of Science, Engineering and Technology)
40. Dhabhai, R., Chaurasia, S. P., and Dalai, A. K. "Effect of pretreatment conditions on structural characteristics of wheat straw" *Chemical Engineering Communications* Volume :200 / 1251-1259 / 2013 ISBN: 0098-6445 (Taylor & Francis).
41. Kriti Bhandari, S.P. Chaurasia, A.K. Dalai and Alok Gupta "Purification of free DHA by selective esterification of fatty acids from tuna oil catalyzed by *Rhizopus oryzae* lipase" *Journal of the American Oil Chemists' Society* Volume :90 / 1637-1644 / 2013 ISBN: 1558-9331 (Elsevier)
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51. Jharna Gupta , Madhu Agarwal and A.K.Dalai and S.P. ,"Preparation and Characterization of CaO Nanoparticles for Biodiesel Production From Mixture of Edible and Nonedible Oils" International Conference on New and Renewable Energy Resources for Sustainable Future by Swami Keshvanand Institute of Technology at Jaipur / / 2017.
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53. Jharna Gupta , Madhu Agarwal , A. K. Dalai and S. P. Chaurasia ,"Marble Slurry Derived Heterogeneous Catalyst for Biodiesel Production From Soybean Oil" " International Conference CHEMCON 2016 by Indian Institute of Chemical Engineers at Anna University Chennai / / 2016.
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57. Akshatt Dangayach, Chinmoy Baroi, S. P. Chaurasia and Ajay K. Dalai ,"Techno-Economic and Environmental Impact Assessment of Glycerol to Value Added Products" International Conference Organized by IChE Chemcon 2015 by Indian Institute of Chemical Engineers at IIT Gowahati / / 2015
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78. "Book Chapter" Pervaporation for ethanol-water separation and effect of fermentation inhibitors ISBN:978-1-119-41822-1 published by - John Wiley & Sons Year:2018 authors- A. Jain, A. K. Dalai, and S. P. Chaurasia
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Joint Publications (Conferences):

1. Chauhan, A. S., Yadav, O. P., Soni, G., Rathore, A. P. S. (2017), "Analysis of Risk Sources in New Product Development Process using Fuzzy Failure Mode Analysis", IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), 2017, Singapore, 10-13 Dec. 2017.
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3. N. Jain, O. P. Yadav, A. Rathore, R. Jain , "Multi-State Reliability Framework for a Multi-Component System" International Conference on Mathematical Techniques in Engineering Applications (ICMTEA-2016) by GEU, Dehradun at Dehradun, India / / 2016
4. Rathod, V., Shaikh, U., Yadav, O. P., and Rathore, A. (2015, September). Swine Influenza Model Based Optimization using seasonal flu shots (SIMBO-SS). In Reliability, Infocom Technologies and Optimization (ICRITO)(Trends and Future Directions), 2015 4th International Conference on (pp. 1-5). IEEE.
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