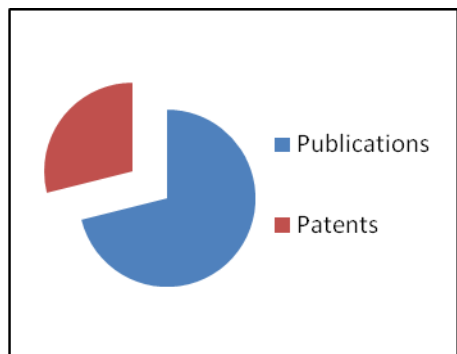


Research Output



	All	Since 2017
Citations	581	373
h-index	12	10
I10-index	13	13

Publications

- 1) Arijit Dutta Gupta, Eldon R. Rene, Balendu Shekhar Giri, Ashok Pandey, Harinder Singh (2021). Adsorptive and photocatalytic properties of metal oxides towards arsenic remediation from water: A review, *Journal of Environmental Chemical Engineering*, Volume 9, Issue 6. <https://doi.org/10.1016/j.jece.2021.106376>(IF= \sim 5)
- 2) Arijit Dutta Gupta, K.P. Rawat, Vivek Bhadauria, Harinder Singh (2021). Recent trends in the application of modified starch in the adsorption of heavy metals from water: A review, *Carbohydrate Polymers*, Volume 269. <https://doi.org/10.1016/j.carbpol.2021.117763>(If= \sim 9.381)
- 3) Harinder Singh, Navdeep Singh Sodhi, Bhavinta Dhillon, Yung Ho Chang & and Jheng Hua Lin (2021). Physicochemical and structural characteristics of sorghum starch as affected by acid-ethanol hydrolysis. *Journal of Food Measurement and Characterization*, 15, 2377-2385. link.springer.com/article/10.1007/s11694-020-00792-8. (IF= \sim 2)
- 4) Arijit Dutta Gupta., K.P. Rawat, Vivek Bhadauria, Harinder Singh (2021) Recent Trends in the Application of Modified Starch in the Adsorption of Heavy Metals from Water: A Review. *Carbohydrate Polymers* 269, 117763. <https://doi.org/10.1016/j.carbpol.2021.117763> (I.F. = 9.381).
- 5) Arijit Dutta Gupta., Vivek Bhadauria, Harinder Singh (2021) Silica derived from rice husk ash and loaded with iron oxide for As(III) adsorption from water: experimental and modeling studies. *International Journal of Environmental Analytical Chemistry*, 1-24. <https://doi.org/10.1080/03067319.2021.1943373> (I.F. = 2.826)
- 6) Arijit Dutta Gupta, Vivek Jaiswal, Vivek Bhadauria, Harinder Singh (2021) Application of Chemically Modified Industrial Slag to As(III) Adsorption from Wastewater: Kinetics and Mass Transfer Analysis. *Acta Chimica Slovenica*, 68, 341-354. <http://dx.doi.org/10.17344/acsi.2020.6283> (I.F. = 1.735)
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- with Surface Functionalized by Quaternary Ammonium Ions. *International Journal of Environmental Science and Technology*, 1-20. <https://doi.org/10.1007/s13762-020-03013-3> (I.F. = 2.860)
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 - 9) Vivek Jaiswal, K.P. Rawat, Arijit Dutta Gupta, Vivek Bhadauria, Uttam Chavan, Dipankar Kalita, Harinder Singh (2020) Comparison of Starch Characteristics from Pigmented and Non-Pigmented Sorghum Cultivars before and after Electron Beam Irradiation. *Starch/Starke* 73, 2000143. <https://doi.org/10.1002/star.202000143> (I.F. = 2.741)
 - 11) Aditya Ganesh, Bhavana Singh, Arijit Duttgupta, Dipankar Kalita, Yuyue Zhong, Andreas Blennow, Harinder Singh (2020) Preparation of Starch Citrates using Solvent Free Reaction and Comparison with Aqueous and Ethanol Mediated Reactions. *Starch/Starke*, 72, 1900260. <https://doi.org/10.1002/star.201900260> (I.F. = 2.741)
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 - 13) Arijit Dutta Gupta, Rupanjali Singh, Vivek Kumar Jaiswal, K.P. Rawat, Harinder Singh, Vivek Bhadauria & Rakesh Punia (2020) "Functional Characteristics, Dry Heating And Irradiation Treatment of Starch- A Short Review", *The Annals of the University Dunarea de Jos of Galati, Fascicle VI - FOOD TECHNOLOGY*, vol.44, Issue 1, 04/2020, Published By Galati Press. (Scopus). <https://doi.org/10.35219/foodtechnology.2020.1.13>.
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- 19) Harinder Singh, Sheetal Thakur, Jagriti Mukhrjee, Tarkeshwar Nayak, Sushil Kumar, and Barjinder Kaur (2017). Influence of acid hydrolysis on physico-chemical, structural, and pasting properties of moth bean (*Vigna aconitifolia*) starch. *Starch - Stärke (Wiley)*, 69, 1600242. <https://doi.org/10.1002/star.201600242>, (I.F. = 2.26).
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Conference Publication

Singh, D., Mukherjee, R., Singh, H., Gaur, A., & Hasan, S. U. (2021). Effect of Pseudo-Homogeneous Concentration Based Kinetics on Hybrid Reactive Distillation Columns for Selectivity Engineering. *31st European Symposium on Computer Aided Process Engineering*. Istanbul: Elsevier B.V.

Total Patents Filed:12; Patents Granted:1

- 1) Harinder Singh, Atul Mangal, BS Chordiya & Biplab Kr. Sarkar: I-UV- Light Box: Intelligent UV- Light Box/Equipment to Disinfect Corona Virus, Bacteria, Virus. Application No.202011020635 A. Filing Date 15/05/2020.
- 2) Aditya Ganesh, Arijit Dutta Gupta, Harinder Singh, Mandavi Goswami :A Novel Method for preparing Octenyl Succinic Anhydride (OSA) modified Starch. Application No: 202011038429. Filing Date: 2020-09-05.