

PUBLICATION OF Dr. BRIJESH KUMAR MISHRA

A) List of Publication (SCI/SCIE)

Publication Index					
Q1	Q2	Q3	Q4	Total Publication (SCI/SCIE) only	Average Impact factor
16	04	10	08	38	3.36

S. No	Publication Details	I.F./Ranking
1.	Hariraj Singh, Sonalika Sonal and B. K. Mishra* (2021). Understanding the toxicity effect and mineralization efficiency of in-situ electrogenerated chlorine dioxide for the treatment of priority pollutants of coking wastewater. <i>Ecotoxicology and Environmental Safety</i> . (Accepted)	4.966/Q1
2.	Prem Prakash, Sonalika Sonal and B. K. Mishra* (2021). Transportation mechanism of chromium from tannery sludge through an electrokinetic process: Role of Electrolytes and operational conditions. <i>International Journal of Environmental Science and Technology</i> . (Accepted)	2.852/Q2
3.	Dahiya, S., Singh, A., & Mishra, B. K. (2020). Capacitive deionized hybrid systems for wastewater treatment and desalination: A review on synergistic effects, mechanisms and challenges. <i>Chemical Engineering Journal</i> , 128129.	10.652/Q1
4.	Sourav Acharya, Sumanta Sahoo, Sonalika Sonal, Joong Hee Lee, Brijesh K Mishra* and G C Nayak* (2020). Adsorbed Cr(VI) based Activated Carbon/Polyaniline Nanocomposite: A superior electrode material for Asymmetric Supercapacitor Device. <i>Composites Part B: Engineering</i> , 193:107913.	7.635/Q1
5.	S. Dahiya and B. K. Mishra* (2020). Enhancing understandability and performance of flow electrode capacitive deionisation by optimizing configurational and operational parameters: A review on recent progress. <i>Separation and Purification Technology</i> , 240: 116660.	5.774/Q1
6.	Sonalika Sonal, Devyani Ugale, and Brijesh K Mishra* (2020). Combining Surface Water with Mine Water to Improve the Removal of Natural Organic Matter by Enhanced Coagulation. <i>Mine Water and Environment</i> . (Accepted).	3.184/Q1
7.	Aliya Naz, Abhiroop Chowdhury*, Rachna Chandra and Brijesh Kumar Mishra (2020). Potential human health hazard due to bioavailable heavy metal exposure via consumption of plants with ethnobotanical usage at the largest chromite mine of India. <i>Environmental geochemistry and health</i> . https://doi.org/10.1007/s10653-020-00603-5 .	3.472 /Q1
8.	Vijay Laxmi Mohanta and B. K. Mishra* (2020). Integration of cancer and non-cancer human health risk assessment for Aniline enriched groundwater: a fuzzy inference system-based approach. <i>Environmental geochemistry and health</i> . https://doi.org/10.1007/s10653-020-00590-7 .	3.472 /Q1
9.	Sonalika Sonal, Prem Prakash, Brijesh K Mishra* and G C Nayak (2020). Synthesis, characterization and sorption studies of a zirconium (IV) impregnated highly functionalized mesoporous activated carbons. <i>RSC Advances</i> , 10:13783.	3.119/Q2

10.	Arukula Deepa, Astha Singh, Aakansha Singh and B. K. Mishra* (2020). An experimental approach for the utilization of tannery sludge derived Bacillus strain for biosorptive removal of Cr(VI) contaminated wastewater. Environmental Science and Pollution Research.	3.056/Q2
11.	Hariraj Singh, Niwas Kumar and Brijesh Kumar Mishra* (2020). Understanding the by-product formation potential during phenol oxidation from in-situ electro-generated radicals by microalgae harvesting. Environment Technology. (https://doi.org/10.1080/09593330.2020.1733675).	2.213/Q3
12.	Gupta, B., Priya, T., Kumar Mishra, B., Gupta, B., Priya, T., & Mishra, B. K. (2020). Augmentation of the coagulation activity of alum using a porous bio-flocculant for the remediation of trihalomethanes-generating hydrophobic natural organic matter. <i>Environmental Engineering Research</i> , 26(3), 200234	1.732/Q4
13.	Arukula Deepa, Prem Prakash and B. K. Mishra* (2019). Performance of biochar-based filtration bed for the removal of Cr(VI) from pre-treated synthetic tannery wastewater. Environmental Technology. (https://doi.org/10.1080/09593330.2019.1626912).	2.213/Q3
14.	Shivam Snehi, Hariraj Singh, Tanwi Priya and Brijesh Kumar Mishra* (2019). Understanding the natural organic matter removal mechanism from mine and surface water through the electrocoagulation method. Journal of Water Supply: AQUA, 68 (7): 523–534.	1.319/Q4
15.	Astha Singh, Sonalika Sonal, Rohit Kumar and Brijesh Kumar Mishra* (2019). Adsorption of Chlorhexidine Digluconate on acid modified fly ash: Kinetics, isotherms and influencing factors. Environmental Engineering Research 25(2): 205-211.	1.732/Q4
16.	Hariraj Singh, Brijesh Kumar Mishra* (2018). Degradation of cyanide, aniline and phenol in pre-treated coke oven wastewater by peroxide assisted electro-oxidation process. <i>Water Science and Technology</i> , 78(10), 2214-2227.	1.638/Q3
17.	Vijay Laxmi Mohanta, Aliya Naz and B. K. Mishra* (2018). Distribution of heavy metals in the water, sediments, and fishes from Damodar river basin at a steel city, India: A probabilistic risk assessment. Human and Ecological Risk Assessment: An International Journal 26(2), 406-429.	2.300/Q3
18.	Arukula Deepa, Prem Prakash, Tanwi Priya, Hariraj Singh, Vijay Laxmi Mohanta and B. K. Mishra* (2018). Treatment of tannery wastewater using aluminium formate: influence of the formate over sulphate based coagulant. Global NEST, 20(3):20-26.	1.234/Q4
19.	Sonalika Sonal, Astha Singh and B.K. Mishra* (2018). Decolorization of reactive dye Remazol Brilliant Blue R by Zirconium oxychloride as a novel coagulant: Optimization through Response Surface Methodology. Water Science and Technology, 78(2), 379-389.	1.683/Q3
20.	Tanwi Priya, Prem Prakash, B.K. Mishra* (2018). Understanding the coagulant activity of zirconium oxychloride to control THMs formation using response surface methodology. Ecotoxicology and Environmental Safety 159:28–37.	4.872/Q1
21.	Prem Prakash, Prasun Kumar Chakraborty, Tanwi Priya, Brijesh Kumar	1.718/Q3

	Mishra* (2018). Performance evaluation of saponin over other organic acid and tap water for removal of chromium in tannery sludge by electrokinetic enhancement. <i>Separation Science and Technology</i> , 1-10.	
22.	Aliya Naz, Abhiroop Chowdhury*, Brijesh Kumar Mishra and K. Karthikeyan (2018). Distribution of heavy metals and associated human health risk in mine, agricultural and roadside soils at the largest chromite mine of India. <i>Environmental geochemistry and health</i> , 1-21.	3.472 /Q1
23.	Hariraj Singh, Sonalika Sonal B K Mishra* (2018). Hexavalent Chromium removal by Monopolar electrodes based electrocoagulation system: Optimization through Box-Behnken Design. <i>Journal of Water Supply: AQUA</i> , 67(2):147-161.	1.319/Q4
24.	Tanwi Priya, Abhrajyoti Tarafdar, Bramha Gupta and B K Mishra* (2018). Effect of biofloculants on the coagulation activity of alum for removal of trihalomethane precursors from low turbid water. <i>Journal of Environmental Science</i> , 70:1-10.	4.302/Q1
25.	Shruti Chawda, Abhrajyoti Tarafdar, Alok Sinha*, and Brijesh Kumar Mishra (2017). Profiling and health risk assessment of PAHs content in tandoori and tawa bread from India. <i>Polycyclic Aromatic Compounds</i> , 1-12.	1.894/Q3
26.	Shahjad Ali, Minashree Kumari, S K Gupta, Alok Sinha and B K Mishra* (2017). Identification of fluoride endemic areas and associated health risk – A case study of Agra, Uttar Pradesh, India. <i>Human and Ecological Risk Assessment</i> , 23 (3): 590-604.	2.300/Q3
27.	Tanwi Priya, Vijay Laxmi and B K Mishra* (2017). Performance evaluation of zirconium oxychloride for reduction of hydrophobic fractions of Natural Organic Matter. <i>Separation and Purification Technology</i> , 174 (1):104-108.	5.774/Q1
28.	B K Mishra* , Tanwi Priya, S K Gupta and Alok Sinha (2016). Modeling and characterization of natural organic matter and its relationship with the THMs formation. <i>Global NEST</i> , 18(4): 803-816.	1.234/Q4
29.	Tanwi Priya and B K Mishra* (2017). Enzyme mediated chloroform biotransformation and Cancer Risk Analysis of Trihalomethanes Exposure in South -East Asia: A Review. <i>Exposure and Health</i> , 9(1):61-75.	4.762/Q1
30.	Hariraj Singh and B K Mishra* (2017). Performance evaluation and kinetic modeling of the electrocoagulation treatment process for the removal of total suspended solids and metals from synthetic water. <i>Environmental Engineering Research</i> . 22(2): 141-148.	1.732/Q4
31.	Aliya Naz, Abhiroop Chowdhury, Brijesh Kumar Mishra* and Sunil Kumar Gupta (2016). Metal Pollution in Water Environment and the Associated Human Health Risk from Drinking Water: A Case Study of Sukinda Chromite mine, India. <i>Human and Ecological Risk Assessment</i> , 22 (7): 1433-1455.	2.300/Q3
32.	Aliya Naz, B K Mishra* and S K Gupta (2016). Human Health Risk Assessment of Chromium in Drinking Water: A Case Study of Sukinda Chromite Mine, Odisha, India. <i>Exposure and Health</i> , 8(2): 253-264.	4.762/Q1
33.	Tomar Swati, Gupta S K* and Mishra B K (2015). Performance evaluation of	2.213/Q3

	the anammox hybrid reactor seeded with mixed inoculum sludge. Environmental Technology, 37(9): 1065-1076.	
34.	Tomar Swati, Gupta S K* and Mishra B K (2015). A novel strategy for simultaneous removal of nitrogen and organic matter using anaerobic granular sludge in anammox hybrid reactor.. Bioresource Technology, 197: 171-177.	7.539/Q1
35.	Lama Y, Sinha Alok* , Singh G, Sahu S A & Mishra B K (2016). Modeling the impacts of corrosion product formation on simultaneous sorption and reductive dehalogenation of organochlorine pesticide aldrin by high carbon iron filings (HCIF). Desalination and Water Treatment. 57 (16):7155-7165.	0.896/Q4
36.	Minashree Kumari, S.K. Gupta* and B.K. Mishra (2015). Multi-exposure cancer and non-cancer risk assessment of Trihalomethanes in drinking water supplies – A case study of Eastern region of India. Ecotoxicology and Environmental Safety, 113:433–438.	4.872/Q1
37.	Sarkar AK, Ghorai S, Patra AS, Mishra BK , Mandre NR and Pal S* (2015). Modified amylopectin based flocculant for the treatment of synthetic effluent and industrial wastewaters. International Journal of Biological Macromolecules, 72: 356–363.	5.162/Q1
38.	Mishra BK* , Gupta SK and Sinha A (2014). Human health risk analysis from disinfection by-products (DBPs) in drinking and bathing water of some Indian cities. Iranian Journal of Environmental Health Science & Engineering; 12:73.	2.179/Q2

B) List of Publication (Scopus)

S. No	Publication Details
1.	Vijay Laxmi Mohanta, Subham Singh, B. K. Mishra* (2019). Human health risk assessment of fluoride-rich groundwater using fuzzy-analytical process over the conventional technique. Groundwater for Sustainable Development, doi: 10.1016/j.gsd.2019.100291.
2.	Sonalika Sonal and B.K. Mishra* (2019). Optimization of the Operational Conditions for the Treatment of Reactive Dyes through a Statistical Tool: Response Surface Methodology. International Journal of Environmental Science and Development, 10(6), 193-196.
3.	B K Mishra* , Manisha, R Gupta and Alok Sinha (2015). Mobility of Toxic Elements in Crop and Agricultural Soil Treated with Municipal Sewage Sludge. Asian Journal of Water, Environment and Pollution, 12 (2): 13–19.
4.	R Srivastava, GK Yadav, A Sinha* and B K Mishra (2015). Comparative Study for Reduction of Hexavalent Chromium by High Carbon Iron Filings (HCIF) and Electrolytic Iron: Mass Transfer Limitations. Asian Journal of Chemistry, 27 (4):1398-1402.

C) List of Publication (Book Chapter)

S. No	Publication Details
1.	Prem Prakash, Prasun Kumar Chakraborty, Brijesh Kumar Mishra* (2021). Assessment of soil fertility and microbial activity by the direct impact of electrokinetic process on chromium contaminated soil. Electrokinetic Remediation for Environmental Security

	and Sustainability. Wiley, Weinheim Germany.
2.	Tanwi Priya, Brijesh K. Mishra* and MNV Prasad (2020). Physico-chemical techniques for the removal of disinfection by-products precursors from water. <i>Disinfection By-products in Drinking Water</i> (pp. 23-57). Elsevier, Butterworth-Heinemann. United Kingdom.
3.	Arukula Deepa and B. K. Mishra* (2020). Microbial Biotransformation of Hexavalent Chromium [Cr(VI)] in Tannery Wastewater. <i>Microbial Bioremediation & Biodegradation</i> (pp.143-152) Springer Nature Singapore Pte Ltd.
4.	Naz, A.*, Chowdhury, A., & Mishra, B. K (2020) . An Insight into Microbial Remediation of Hexavalent Chromium from Contaminated Water. In <i>Contaminants in Drinking and Wastewater Sources</i> (pp. 209-224). Springer, Singapore.

D) List of Publication (Conference/workshop): 25

Note: * represent the corresponding author

Dr. Brijesh Kumar Mishra
Associate Professor
Dept. of Env. Sci. & Engg., IIT(ISM), Dhanbad