

## LIST OF PUBLICATIONS OF DR. ALOK SINHA

### *International Journal*

1. Sinha, A. and Bose, P. (2006) "Dehalogenation of 2-chloronaphthalene by cast iron". *Water Air and Soil Pollution*, 172 (1-4), pp. 375-390.
2. Sinha, A. and Bose, P. (2007) "Interaction Of 2-Chloronaphthalene with High Carbon Iron Filings (HCIF): Adsorption, Dehalogenation And Mass Transfer Limitations". *Journal of Colloid and Interface Science*, 314 (2), pp. 552-561.
3. Sinha, A. and Bose, P. (2009) "Interaction Of Chloroethanes And Chloroethenes With Un-Rusted And Rusted High Carbon Iron Filings". *Environmental Engineering Science*, 26(1), pp. 61-70.
4. Sinha, A. and Bose, P. (2009) "Interaction of 2,4,6-Trichlorophenol with High Carbon Iron Filings: Reaction and Sorption Mechanisms". *Journal of Hazardous Materials*, 164(1), pp. 301-309.
5. Singh, G. and Sinha, A. (2011) "Phytoremediation of Cr(VI) Laden Waste by *Eichhornia crassipes*" *Int. J. Environmental Technology and Management*, Vol. 14, Nos. 1/2/3/4, pp. 33-42. (ISSN (Online): 1741-511X - ISSN (Print): 1466-2132).
6. Sinha, A. and Bose, P. (2011) "2-Chloronaphthalene Dehalogenation by High Carbon Iron Filings (HCIF): Impact of Formation of Corrosion Products on HCIF Surface" *Environmental Engineering Science*, 28(10): 701-710.
7. Mishra, B.K., Gupta, S.K., Sinha, A. (2014) Human health risk analysis from disinfection by-products (DBPs) in drinking and bathing water of some Indian cities. *Journal of Environmental Health Science and Engineering*, 12 (1), art. no. 73.
8. Srivastava, R., Yadav, G.K., Sinha A. and Mishra B.K. (2014) "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, (IF 0.25).
9. Sinha A. and Bose P. (2014) Modeling of 2-chloronaphthalene interaction with high carbon iron filings (HCIF) in semi-batch and continuous systems, *Environmental Science and Pollution Research*, 21, [17](#), pp 10442-10452.
10. Mukherjee, R., Sinha, A., Lama, Y., Kumar, V. (2015) Utilization of Zero Valent Iron (ZVI) particles produced from steel industry waste for in-situ remediation of ground water contaminated with organo-chlorine pesticide heptachlor. *International Journal of Environmental Research*, 9 (1), pp. 19-26.
11. Pande, G., Sinha, A., Agrawal, S. (2015) Impacts of leachate percolation on ground water quality: A case study of Dhanbad city. *Global Nest Journal*, 17 (1), pp. 162-174.
12. Lama, Y., Sinha, A., Singh, G. (2015) Reductive dehalogenation of Aldrin by cast Iron. *Ecology, Environment and Conservation*, 21 (2), pp. 777-781.

13. Kumar, R., Sinha, A. (2016). Reductive transformation and enhancement in biodegradability of mono-azo dye by high carbon iron filings (HCIF). *Desalination and Water Treatment*, 57 (7), pp. 3205-3217.
14. Suman, S., Sinha, A., Tarafdar, A. (2016). Polycyclic aromatic hydrocarbons (PAHs) concentration levels, pattern, source identification and soil toxicity assessment in urban traffic soil of Dhanbad, India. *Science of the Total Environment*, 545-546, pp. 353-360.
15. Mukherjee, R., Kumar, R., Sinha, A., Lama, Y., Saha, A.K. (2016). A review on synthesis, characterization, and applications of nano zero valent iron (nZVI) for environmental remediation. *Critical Reviews in Environmental Science and Technology*, 46 (5), pp. 443-466.
16. Lama, Y., Sinha, A., 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), pp. 7155-7165.
17. Lama, Y., Sinha, A., Singh, G., Masto, R.E. (2016). Reductive dehalogenation of endosulfan by cast iron: Kinetics, pathways and modeling. *Chemosphere*, 150, pp. 772-780.
18. Kumar, R., Sinha, A. (2016) Biphasic reduction model for predicting the impacts of dye-bath constituents on the reduction of tris-azo dye Direct Green-1 by zero valent iron (Fe<sup>0</sup>). *Journal of Environmental Sciences*, . **Article in Press.**
19. Kumar, R., Sinha, A. (2016) Impacts of dyebath auxiliaries on the reductive discoloration of Acid Orange 7 Dye by high carbon iron filings. *Water Science and Technology*. Available Online 23 June 2016, wst2016306; DOI: 10.2166/wst.2016.306.
20. Kumar, R., Sinha, A. (2016) Zero valent iron-mediated rapid removal of bis-azo dye in solution amended with dyebath additives: biphasic kinetics and modelling. *Korean Journal of Chemical Engineering*. **Accepted.**
21. Lothe, A.G., Sinha A. (2016). Development of model for prediction of Leachate Pollution Index (LPI) in absence of leachate parameters. *Waste Management*. [http://dx.doi.org/ 10.1016/j.wasman.2016.07.026](http://dx.doi.org/10.1016/j.wasman.2016.07.026). **Article in Press**