

PUBLICATIONS OF Dr. ALOK SINHA

A) List of Publication (SCI/SCIE)

S. No	Publication Details	Impact Factor/ Quartile Ranking
1.	Ken, D.S., Sinha, A. 2021 Dimensionally stable anode (Ti/RuO ₂) mediated electro-oxidation and multi-response optimization study for remediation of coke-oven wastewater. Journal of Environmental Chemical Engineering , 9 (1), art. no. 105025, . DOI: 10.1016/j.jece.2021.105025	4.3/Q1
2.	Ali, S., Khan, S.U., Gupta, S.K., Sinha, A., Gupta, M.K., Abbasnia, A., Mohammadi, A.A. 2021. Health risk assessment due to fluoride exposure from groundwater in rural areas of Agra, India: Monte Carlo simulation. International Journal of Environmental Science and Technology , . DOI: 10.1007/s13762-020-03084-2	2.54/Q2
3.	Burman, I. and Sinha, A*. 2020. Anaerobic hybrid membrane bioreactor for treatment of synthetic leachate: Impact of organic loading rate and sludge fractions on membrane fouling. Waste Management , 108, pp.41-50.	5.448/Q1
4.	Sivodia, C. and Sinha, A* ., 2020. Assessment of graphite electrode on the removal of anticancer drug cytarabine via indirect electrochemical oxidation process: Kinetics & pathway study. Chemosphere , 243, p.125456.	5.778/Q1
5.	Kumar, R., Sinha, A* ., Mondal, G.C. and Masto, R.E., 2020. Effective scrap iron particles (sip) pre-treatment for complete mineralization of benzidine based azo dye effluent. Arabian Journal of Chemistry , 13(1), pp.134-145. (https://doi.org/10.1016/j.arabjc.2017.03.001)	4.762/Q1
6.	Upadhyay, S., Tarafdar, A. and Sinha, A* ., 2018. Assessment of <i>Serratia</i> sp. isolated from iron ore mine in hexavalent chromium reduction: kinetics, fate and variation in cellular morphology. Environmental technology . (https://doi.org/10.1080/09593330.2018.1521875)	2.213/Q3
7.	Kamal, N., Tarafdar, A., Sinha, A* . and Kumar, V., 2020. Effect of Glucose Cometabolism on Biodegradation of Gabapentin (an Anticonvulsant Drug) by Gram-Positive Bacteria <i>Micrococcus luteus</i> N. ISM. 1. Applied Biochemistry and Microbiology , 56(4), pp.433-440. (https://doi.org/10.1134/S0003683820040067)	1.022/Q4
8.	Tarafdar, A., Chawda, S. and Sinha, A. , 2018. Health Risk Assessment from Polycyclic Aromatic Hydrocarbons (PAHs) Present in Dietary Components: A Meta-analysis on a Global Scale. Polycyclic Aromatic Compounds , pp.1-12. (https://doi.org/10.1080/10406638.2018.1492426)	1.894/Q3
9.	Burman, I. and Sinha, A* ., 2020. Performance evaluation and organic mass balance for treatment of high strength wastewater by anaerobic hybrid membrane bioreactor. Environmental Progress & Sustainable Energy , 39(2), p.e13311. (https://doi.org/10.1002/ep.13311)	1.989/Q3
10	Burman, I. and Sinha, A* ., 2020. Performance evaluation and substrate removal kinetics in an up-flow anaerobic hybrid membrane bioreactor treating simulated high-strength wastewater. Environmental technology , 41(3), pp.309-321. (https://doi.org/10.1080/09593330.2018.1498132)	2.213/Q3

11	Mishra, P., Burman, I. and Sinha, A* . 2020. Performance enhancement and optimization of the anammox process with the addition of iron. Environmental Technology , pp.1-12. (DOI: 10.1080/0959330.2020.1746408)	2.213/Q3
12	Chawda, S., Tarafdar, A., Sinha, A* . and Mishra, B.K., 2020. Profiling and health risk assessment of PAHs content in tandoori and tawa bread from India. Polycyclic Aromatic Compounds 40(1), pp. 21-32. (https://doi.org/10.1080/10406638.2017.1349679)	1.894/Q3
13	Saha, S., Sarkar, S. and Sinha, A* ., 2019. Use of Basic Oxygen Furnace (BOF) Steel Slag for Acid Mine Drainage Treatment: A Laboratory Study. Mine Water and the Environment , 38(3), pp.517-527. (https://doi.org/10.1007/s10230-019-00615-3)	3.184/Q1
14	Upadhyay, S., Saha, A.K. and Sinha, A.* , 2019. High carbon iron filings (HCIF) and metal reducing bacteria (<i>Serratia sp.</i>) co-assisted Cr (VI) reduction: Kinetics, mechanism and longevity. Journal of Environmental Management , 236, pp.388-395. (https://doi.org/10.1016/j.jenvman.2019.02.015)	5.647/Q1
15	Tarafdar, A. and Sinha, A* ., 2019. Discussion on the technical note entitled,“public health risk assessment following exposure to PAH-contaminated soils-specific considerations for bioaccessibility and other exposure parameters”. Science of The Total Environment , 656, pp.1448-1451. (https://doi.org/10.1016/j.scitotenv.2018.12.231)	6.551/Q1
16	Saha, S., Saha, P. and Sinha, A* ., 2019. Assessment of hazard on human health and aquatic life in acid mine drainage treated with novel technique. Human and Ecological Risk Assessment: An International Journal , 25(8), pp.1925-1941. (https://doi.org/10.1080/10807039.2018.1476966)	2.300/Q3
17	Tarafdar, A. and Sinha, A. , 2019. Health risk assessment and source study of PAHs from roadside soil dust of a heavy mining area in India. Archives of environmental & occupational health , 74(5), pp.252-262. (https://doi.org/10.1080/19338244.2018.1444575)	1.180/Q4
18	Saha, A.K., Sinha, A* . and Pasupuleti, S., 2019. Modification, characterization and investigations of key factors controlling the transport of modified nano zero-valent iron (nZVI) in porous media. Environmental technology , 40(12), pp.1543-1556. (https://doi.org/10.1080/0959330.2018.1426637)	2.213/Q3
19	Priya, K.S., Burman, I., Tarafdar, A. and Sinha, A* . 2019. Impact of ammonia nitrogen on COD removal efficiency in anaerobic hybrid membrane bioreactor treating synthetic leachate. International Journal of Environmental Research , 13(1), pp.59-65. (https://doi.org/10.1007/s41742-018-0153-4)	2.007/Q3
20	Thakur, R.N., Gupta, S.K., Sinha, A. , Chawla, S. and Vadavadagi, S.S., 2019. A Durability Study of Jute Geotextile Treated with Bitumen Emulsion. Journal of Natural Fibers , pp.1-19. (https://doi.org/10.1080/15440478.2019.1623749)	2.622/Q1
21	Saha, S. and Sinha, A* . 2018. A review on treatment of acid mine drainage with waste materials: A novel approach. Global Nest Journal , 20(3), pp.512-528. (https://doi.org/10.30955/gnj.002610)	1.234/Q4
22	Tarafdar, A., Sarkar, T.K., Chakraborty, S., Sinha, A. and Masto, R.E., 2018. Biofilm development of <i>Bacillus thuringiensis</i> on MWCNT buckypaper:	4.874/Q1

	Adsorption-synergic biodegradation of phenanthrene. Ecotoxicology and environmental safety , 157, pp.327-334.(https://doi.org/10.1016/j.ecoenv.2018.03.090)	
23	Tarafdar, A. and Sinha, A* ., 2018. Public health risk assessment with bioaccessibility considerations for soil PAHs at oil refinery vicinity areas in India. Science of the Total Environment , 616, pp.1477-1484.(https://doi.org/10.1016/j.scitotenv.2017.10.166)	6.551/Q1
24	Mondal, S.K., Saha, A.K. and Sinha, A* ., 2018. Removal of ciprofloxacin using modified advanced oxidation processes: kinetics, pathways and process optimization. Journal of Cleaner Production , 171, pp.1203-1214.(https://doi.org/10.1016/j.jclepro.2017.10.091)	7.246/Q1
25	Upadhyay, S. and Sinha, A* ., 2018. Role of microorganisms in Permeable Reactive Bio-Barriers (PRBBs) for environmental clean-up: A review. Global NEST J. , 20, pp.269-280.(https://doi.org/10.30955/gnj.002525)	1.234/Q4
26	Pal, S., Tarafdar, A., Sinha, A. , Bhunia, A., Harms, K. and Nayek, H.P., 2017. Mononuclear metal (II) complexes of a Bis (organoamido) phosphate ligand with antimicrobial activities against Escherichia coli. Applied Organometallic Chemistry , 31(12), p.e3821.(https://doi.org/10.1002/aoc.3821)	3.14/Q1
27	Tarafdar, A. and Sinha, A. , 2017. Cancer risk assessment of polycyclic aromatic hydrocarbons in the soils and sediments of India: A meta-analysis. Environmental Management , 60(4), pp.784-795.(https://doi.org/10.1007/s00267-017-0920-6)	2.56/Q2
28	Tarafdar, A., Sinha, A* . and Masto, R.E., 2017. Biodegradation of anthracene by a newly isolated bacterial strain, <i>Bacillus thuringiensis</i> AT. ISM. 1, isolated from a fly ash deposition site. Letters in applied microbiology , 65(4), pp.327-334. (https://doi.org/10.1111/lam.12785)	2.173/Q3
29	Patolia, P. and Sinha, A* ., 2017. Fluoride contamination in Gharbar Village of Dhanbad District, Jharkhand, India: source identification and management. Arabian Journal of Geosciences , 10(17), p.381. (https://doi.org/10.1007/s12517-017-3164-0)	1.327/Q4
30	Lothe, A.G. and Sinha, A* ., 2017. Development of model for prediction of Leachate Pollution Index (LPI) in absence of leachate parameters. Waste Management , 63, pp.327-336.(https://doi.org/10.1016/j.wasman.2016.07.026)	5.448/Q1
31	Ali, S., Kumari, M., Gupta, S.K., Sinha, A. and Mishra, B.K., 2017. Investigation and mapping of fluoride-endemic areas and associated health risk—A case study of Agra, Uttar Pradesh, India. Human and Ecological Risk Assessment: An International Journal , 23(3), pp.590-604.(https://doi.org/10.1080/10807039.2016.1255139)	2.300/Q3
32	Tarafdar, A. and Sinha, A* ., 2017. Estimation of decrease in cancer risk by biodegradation of PAHs content from an urban traffic soil. Environmental Science and Pollution Research , 24(11), pp.10373-10380.(https://doi.org/10.1007/s11356-017-8676-3)	3.056/Q2
33	Kumar, R. and Sinha, A* ., 2017. 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 (Fe0). Journal of Environmental Sciences , 52, pp.160-169.(https://doi.org/10.1016/j.jes.2016.04.002)	4.302/Q1
34	Mishra, B.K., Priya, T., Gupta, S.K. and Sinha, A. , 2016. Modeling and characterization of natural organic matter and its relationship with the THMs	1.234/Q4

	formation. Global Nest J, 18(4), pp.803-816.(https://doi.org/10.30955/gnj.001361)	
35	Kumar, R. and 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 , 33(11), pp.3281-3288.(https://doi.org/10.1007/s11814-016-0189-0)	2.690/Q2
36	Kumar, R. and 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 , 74(5), pp.1217-1226.(https://doi.org/10.2166/wst.2016.306)	1.683/Q3
37	Lama, Y., Sinha, A* ., Singh, G. and Masto, R.E., 2016. Reductive dehalogenation of endosulfan by cast iron: kinetics, pathways and modeling. Chemosphere , 150, pp.772-780.(https://doi.org/10.1016/j.chemosphere.2015.11.034)	5.778/Q1
38	Lama, Y., Sinha, A* ., Singh, G., Sahu, S.A. and 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.(https://doi.org/10.1080/19443994.2015.1017007)	0.896/Q4
39	Mukherjee, R., Kumar, R., Sinha, A* ., Lama, Y. and 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.(https://doi.org/10.1080/10643389.2015.1103832)	8.302/Q1
40	Suman, S., Sinha, A* . and 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, pp.353-360. (https://doi.org/10.1016/j.scitotenv.2015.12.061)	6.551/Q1
41	Kumar, R. and 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.(https://doi.org/10.1080/19443994.2014.981224)	0.896/Q4
42	Pande, G., Sinha, A* . and Agrawal, S., 2015. Impacts of leachate percolation on ground water quality: A case study of Dhanbad city. Global Nest J , 17(1), pp.162-174. (DOI: https://doi.org/10.30955/gnj.001377)	1.234/Q4
43	Mukherjee, R., Sinha, A* ., Lama, Y. and Kumar, V., 2015. Utilization of ZeroValent 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.(https://doi.org/10.22059/IJER.2015.869)	2.007/Q3
44	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.(https://doi.org/10.1007/s11356-014-2866-z)	3.056/Q2
45	Mishra, B.K., Gupta, S.K. and 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), p.73. (https://doi.org/10.1186/2052-336X-12-73)	2.179/Q3

46	Sinha, A. and Bose, P., 2011. 2-Chloronaphthalene dehalogenation by high-carbon iron filings: formation of corrosion products on high-carbon iron filings surface. Environmental Engineering Science , 28(10), pp.701-710.(https://doi.org/10.1089/ees.2010.0056)	1.681/Q3
47	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.(https://doi.org/10.1016/j.jhazmat.2008.08.005)	9.038/Q1
48	Sinha, A. and Bose, P., 2009. Interaction of chloroethanes and chloroethenes with unrustred and rusted high carbon iron filings. Environmental engineering science , 26(1), pp.61-70.(https://doi.org/10.1089/ees.2007.0084)	1.681/Q3
49	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.(https://doi.org/10.1016/j.jcis.2007.05.045)	7.489/Q1
50	Sinha, A. and Bose, P., 2006. Dehalogenation of 2-chloronaphthalene by cast iron. Water, air, and soil pollution , 172(1-4), pp.375-390.(https://doi.org/10.1007/s11270-006-9102-5)	1.900/Q3

B) List of Publication (Scopus)

S. No	Publication Details
1.	Ken, D.S. and Sinha, A* ., 2020. Recent developments in surface modification of nano zero-valent iron (nZVI): remediation, toxicity and environmental impacts. <i>Environmental Nanotechnology, Monitoring & Management</i> , p.100344. (https://doi.org/10.1016/j.enmm.2020.100344)
2.	Lama, Y., Sinha, A* and Singh, G 2015. Reductive dehalogenation of aldrin by cast iron. Ecology, Environment and Conservation Paper, 21(2): 777-781
3.	Srivastava, R.K., Yadav, G.K., Sinha, A* . and Mishra, B.K., 2015. Comparative study for reduction of hexavalent chromium by high carbon iron filings and electrolytic iron: mass transfer limitations. Asian Journal of Chemistry, 27(4), p.1398.
4.	Mishra, B.K., Gupta, R. and Sinha, A. , 2015. Mobility of Toxic Elements in Crop and Agricultural Soil Treated with Municipal Sewage Sludge. <i>Asian Journal of Water, Environment and Pollution</i> , 12(2), pp.13-19.
5.	Singh, G. and Sinha, A. , 2011. Phytoremediation of chromium (VI)-laden waste by Eichhornia crassipes. <i>International Journal of Environmental Technology and Management</i> , 14(1-4), pp.33-42. (https://doi.org/10.1504/IJETM.2011.039256)

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C) List of Publication (Book Chapter)

S. No	Publication Details
1.	Kamal, N. Sinha,A* . and Kumar, V., 2020. Role of Microorganisms in Degradation and Removal of Anticonvulsant Drugs: A Review. In <i>Measurement, Analysis and Remediation of Environmental Pollutants</i> (pp. 319-331). Springer, Singapore.
2.	Tarafdar, A. and Sinha, A* ., 2019. Polycyclic Aromatic Hydrocarbons (PAHs) Pollution Generated from Coal-Fired Thermal Power Plants: Formation Mechanism, Characterization, and Profiling. In <i>Pollutants from Energy Sources</i> (pp. 73-90). Springer, Singapore.
3.	Lama, Y. and Sinha, A* ., 2018. Degradation of Heptachlor by High-Carbon Iron Filings (HCIF). In <i>Environmental Pollution</i> (pp. 217-222). Springer, Singapore.
4.	Burman I, Sinha A* . A review on membrane fouling in membrane bioreactors: control and mitigation. In <i>Environmental Contaminants 2018</i> (pp. 281-315). Springer, Singapore.

D) List of Publication (Conference/workshop): 63

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