

Publication

1. PAPERS IN REFEREED JOURNALS

(* Corresponding author, underline: students)

PUBLISHED: (n = 66)

1. Arbind Kumar Patel, Nilotpall Das and **Manish Kumar** (2019) Multilayer arsenic mobilization and multimetal co-enrichment in the alluvium (Brahmaputra) plains of India: A tale of redox domination along the depth. *Chemosphere* 224; 140-150 (IF: 4.427)
2. Shim, Jaehong, **Manish Kumar***, Ritusmita Goswami, Payal Mazumder, Byung-Taek Oh, and Patrick J. Shea. (2019) "Removal of p-cresol and tylosin from water using a novel composite of alginate, recycled MnO₂ and activated carbon." *Journal of hazardous materials* 364: 419-428. (IF: 6.434)
3. Devi, Upasona, Kaling Taki, Tanya Shukla, Kali P. Sarma, Raza R. Hoque, and **Manish Kumar*** (2019). "Microzonation, ecological risk and attributes of metals in highway road dust traversing through the Kaziranga National Park, Northeast India: implication for confining metal pollution in the national forest." *Environmental geochemistry and health* : 1-17. (IF: 2.994)
4. Shim, Jaehong, **Manish Kumar***, Santanu Mukherjee, and Ritusmita Goswami. (2019) "Sustainable removal of pernicious arsenic and cadmium by a novel composite of MnO₂ impregnated alginate beads: A cost-effective approach for wastewater treatment." *Journal of environmental management* 234: 8-20. (IF: 4.005)
5. Taki, Kaling, Anindita Gogoi, Payal Mazumder, Satya Sunder Bhattacharya, and **Manish Kumar*** (2019). "Efficacy of vermitechnology integration with Upflow Anaerobic Sludge Blanket (UASB) and activated sludge for metal stabilization: A compliance study on fractionation and biosorption." *Journal of Environmental Management* 236: 603-612. (IF: 4.005)
6. **Manish Kumar***, Vikrant Jain, Tsutomu Yamanaka, Yusong Li, and Prosun Bhattacharya. "Contaminant transport and fate in freshwater systems-Integrating the fields of geochemistry, geomorphology and nanotechnology." *Groundwater for Sustainable Development* 7 (2018): 336-342. (IF: 0.6)
7. Borah, Rinkumoni, Kaling Taki, Anindita Gogoi, Pallavi Das, and **Manish Kumar***. "Contemporary distribution and impending mobility of arsenic, copper and zinc in a tropical (Brahmaputra) river bed sediments, Assam, India." *Ecotoxicology and environmental safety* (2018) 161:769-776. (IF: 3.974)
8. Jaehong Shim, P. Mazumder, **Manish Kumar ***. (2018). Corn cob silica as an antibacterial support for silver nanoparticles: efficacy on Escherichia coli and Listeria monocytogenes. *Environmental Monitoring and Assessment*. (2018) 190(10):583 (IF: 1.687)
9. Kumari, Deepa, Payal Mazumder, **Manish Kumar***, Jyoti Prakash Deka, and Jaehong Shim. "Simultaneous removal of Cong red and Cr (VI) in aqueous solution by using Mn powder extracted from battery waste solution." *Groundwater for Sustainable Development* (2018). (IF: 0.6)
10. Das, Nilotpall, Aparna Das, Kali Prasad Sarma, and **Manish Kumar***. "Provenance, prevalence and health perspective of co-occurrences of arsenic, fluoride and uranium in the aquifers of the Brahmaputra River floodplain." *Chemosphere* 194 (2018): 755-772. (IF: 4.427)
11. Borah, Rinkumoni, Deepa Kumari, Anindita Gogoi, Sunayana Biswas, Ritusmita Goswami, Jaehong Shim, Naznin Ara Begum, and **Manish Kumar***. "Efficacy and field applicability of Burmese grape leaf extract (BGLE) for cadmium removal: An implication of metal removal from natural water." *Ecotoxicology and environmental safety* 147 (2018): 585-593. (IF: 3.974)

12. Gogoi, A., Mazumder, P., Tyagi, V. K., Chaminda, G. T., An, A. K., & **Kumar, M.*** (2018). Occurrence and fate of emerging contaminants in water environment: A review. *Groundwater for Sustainable Development*, 6, 169-180. (IF: 0.000)
13. **Kumar, Manish***, Anindita Gogoi, Deepa Kumari, Rinkumoni Borah, Pallavi Das, Payal Mazumder, and Vinay Kumar Tyagi. "Review of perspective, problems, challenges, and future scenario of metal contamination in the urban environment." *Journal of Hazardous, Toxic, and Radioactive Waste* 21, no. 4 (2017): 04017007. (IF: 0.000)
14. Goswami, Ritusmita, and **Manish Kumar***. "Removal of fluoride from aqueous solution using nanoscale rice husk biochar." *Groundwater for Sustainable Development* (2017). (IF: 0.6)
15. Saikia, Ruprekha, Ritusmita Goswami, Neonjyoti Bordoloi, Kula K. Senapati, Kamal K. Pant, **Manish Kumar**, and Rupam Kataki*. "Removal of arsenic and fluoride from aqueous solution by biomass based activated biochar: Optimization through response surface methodology." *Journal of Environmental Chemical Engineering* 5, no. 6 (2017): 5528-5539. (IF: 1.38)
16. Das, Nilotpal, Kali P. Sarma, Arbind K. Patel, Jyoti P. Deka, Aparna Das, Abhay Kumar, Patrick J. Shea, and **Manish Kumar***. "Seasonal disparity in the co-occurrence of arsenic and fluoride in the aquifers of the Brahmaputra flood plains, Northeast India." *Environmental Earth Sciences* 76, no. 4 (2017): 183. (IF: 1.765)
17. Kumari, Deepa, Ritusmita Goswami, **Manish Kumar***, Rupam Kataki, and Jaehong Shim. "Removal of Cr (VI) ions from the aqueous solution through nanoscale zero-valent iron (nZVI) Magnetite Corn Cob Silica (MCCS): A bio-waste based water purification perspective." *Groundwater for Sustainable Development* (2017). (IF: 0.6)
18. Kumar, Pankaj, Maki Tsujimura, Chitresh Saraswat, Prashant K. Srivastava, **Manish Kumar***, and Ram Avtar. "Quantitative Analysis of Transient Intertidal Submarine Groundwater Discharge in Coastal Aquifer of Western Japan." *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences* 87, no. 3 (2017): 423-432. (IF: 0.396)
19. Khanikar, Latu, Rashmi Rekha Gogoi, Nilotpal Das, Jyoti Prakash Deka, Aparna Das, **Manish Kumar**, and K. P. Sarma*. "Groundwater appraisal of Dhekiajuli, Assam, India: an insight of agricultural suitability and arsenic enrichment." *Environmental Earth Sciences* 76, no. 15 (2017): 530. (IF: 1.765)
20. Das, Aparna, Francisco Munoz-Arriola, Sudhir Kumar Singh, Pawan Kumar Jha, and **Manish Kumar***. "Nutrient dynamics of the Brahmaputra (tropical river) during the monsoon period." *Desalination Water Treatment* 76 (2017): 212-224. (IF: 1.383)
21. **Kumar, Manish***, Nilotpal Das, Ritusmita Goswami, Kali Prasad Sarma, Prosun Bhattacharya, and A. L. Ramanathan. "Coupling fractionation and batch desorption to understand arsenic and fluoride co-contamination in the aquifer system." *Chemosphere* 164 (2016): 657-667. (IF: 4.427)
22. Gogoi, Anindita, GG Tushara Chaminda, Alicia KJ An, Daniel D. Snow, Yusong Li, and **Manish Kumar***. "Influence of ligands on metal speciation, transport and toxicity in a tropical river during wet (monsoon) period." *Chemosphere* 163 (2016): 322-333.
23. **Kumar, Manish***, Aparna Das, Nilotpal Das, Ritusmita Goswami, and Umesh Kumar Singh. "Co-occurrence perspective of arsenic and fluoride in the groundwater of Diphu, Assam, Northeastern India." *Chemosphere* 150 (2016): 227-238. (IF: 4.427)
24. Goswami, Ritusmita, Jaehong Shim, Shantanu Deka, Deepa Kumari, Rupam Kataki, and **Manish Kumar***. "Characterization of cadmium removal from aqueous solution by biochar produced from Ipomoea fistulosa at different pyrolytic temperatures." *Ecological Engineering* 97 (2016): 444-451. (IF: 3.023)
25. **Kumar, Manish***. "Understanding the remobilization of copper, zinc, cadmium and lead due to ageing through sequential extraction and isotopic exchangeability." *Environmental monitoring and assessment* 188, no. 6 (2016): 381. (IF: 1.804)

26. Akbariyeh, Simin, Bradley M. Patterson, **Manish Kumar**, and Yusong Li*. "Quantification of Vapor Intrusion Pathways: An Integration of Modeling and Site Characterization." *Vadose Zone Journal* 15, no. 10 (2016). (IF: 2.710)
27. Das, Nilotpal, Jyoti Prakash Deka, Jaehong Shim, Arbind Kumar Patel, Abhay Kumar, Kali Prasad Sarma, and Manish Kumar*. "Effect of river proximity on the arsenic and fluoride distribution in the aquifers of the Brahmaputra floodplains, Assam, northeast India." *Groundwater for Sustainable Development* 2 (2016): 130-142. (IF: 0.6)
28. **Kumar, Manish***, Roger Herbert, Pawan Kumar Jha, Jyoti Prakash Deka, M. S. Rao, A. L. Ramanathan, and Bhishm Kumar. "Understanding the Seasonal Dynamics of the Groundwater Hydrogeochemistry in National Capital Territory (NCT) of India Through Geochemical Modelling." *Aquatic geochemistry* 22, no. 3 (2016): 211-224. (IF: 1.418)
29. Bhuyan, Pranamika, Nivedita Barman, Sabrina Begum, Dharitri Gogoi, Sudakshina Borah, **Manish Kumar**, Kali Prasad Sarma, and Raza Rafiqul Hoque*. "Spatial and Seasonal Variations of Water Soluble Ions in PM 10 of Mid-Brahmaputra Plain of Assam Valley." *Asian Journal of Water, Environment and Pollution* 13, no. 2 (2016): 69-81. (IF: 0.000)
30. Das, Pallavi, Kali Prasad Sarma, Pawan Kumar Jha, Rajnish Ranjan, Roger Herbert, and Manish Kumar*. "Understanding the Cyclicity of Chemical Weathering and Associated CO₂ Consumption in the Brahmaputra River Basin (India): The Role of Major Rivers in Climate Change Mitigation Perspective." *Aquatic geochemistry* 22, no. 3 (2016): 225-251. (IF: 1.418)
31. Das, Aparna, Sumi Handique, Monalisa Chaowlu, and Manish Kumar*. "Geochemical Characterization and Mineralogical Assemblage of Burhi-Dihing and Noa-Dihing—The Largest South Bank Tributaries of the Brahmaputra River." *Asian Journal of Water, Environment and Pollution* 13, no. 4 (2016): 13-24. (IF: 0.000)
32. Prabha, Shashi, Anindita Gogoi, Payal Mazumder, A. L. Ramanathan, and Manish Kumar*. "Assessment of the impact of textile effluents on microbial diversity in Tirupur district, Tamil Nadu." *Applied Water Science* 7, no. 5 (2016): 2267-2277. (IF: 0.125)
33. Deka, Jyoti Prakash, Sangeeta Singh, Pawan Kumar Jha, Umesh Kumar Singh, and Manish Kumar*. "Imprints of long-range-transported pollution on high-altitude Eastern Himalayan lake water chemistry." *Environmental Earth Sciences* 75, no. 4 (2016): 285. (IF: 1.765)
34. Deka, Jyoti Prakash, Tsutomu Yamanaka, Sangeeta Singh, Rahul Choudhry, Goman Tyang, and Manish Kumar*. "Tracing the Imprints of Climate Change through Hydrogeochemical Studies on the Eastern Himalayan High Altitude Lakes." *Journal of Climate Change* 2, no. 1 (2016): 69-78. (IF: 0.344)
35. Das, Nilotpal, Arbind Kumar Patel, Gopashree Deka, Aparna Das, Kali Prasad Sarma, and Manish Kumar*. "Geochemical controls and future perspective of arsenic mobilization for sustainable groundwater management: A study from Northeast India." *Groundwater for Sustainable Development* 1, no. 1-2 (2015): 92-104. (IF: 0.6)
36. **Kumar, Manish***, M. Someshwar Rao, Jyoti Prakash Deka, A. L. Ramanathan, and Bhishm Kumar. "Integrated hydrogeochemical, isotopic and geomorphological depiction of the groundwater salinization in the aquifer system of Delhi, India." *Journal of Asian Earth Sciences* 111 (2015): 936-947. (IF: 2.866)
37. Das, Aparna, and Manish Kumar*. "Arsenic Enrichment in the Groundwater of Diphu, Northeast India: Coupled Application of Major Ion Chemistry, Speciation Modeling, and Multivariate Statistical Techniques." *CLEAN—Soil, Air, Water* 43, no. 11 (2015): 1501-1513. (IF: 1.338)
38. Deka, Jyoti Prakash, Goman Tayeng, Sangeeta Singh, Raza Rafiqul Hoque, Amit Prakash, and Manish Kumar*. "Source and seasonal variation in the major ion chemistry of two eastern Himalayan high altitude lakes, India." *Arabian Journal of Geosciences* 8, no. 12 (2015): 10597-10610. (IF: 0.860)

39. Gogoi, Anindita, Sudipta Biswas, Janumoni Bora, Satya Sundar Bhattacharya, and Manish Kumar*. "Effect of vermicomposting on copper and zinc removal in activated sludge with special emphasis on temporal variation." *Ecohydrology & Hydrobiology* 15, no. 2 (2015): 101-107. (IF: 1.592)
40. Das, S., J. Bora, L. Goswami, P. Bhattacharyya, P. Raul, M. Kumar, and S. S. Bhattacharya*. "Vermiremediation of water treatment plant sludge employing *Metaphire posthuma*: a soil quality and metal solubility prediction approach." *Ecological Engineering* 81 (2015): 200-206. (IF: 3.023)
41. Deka, Jyoti Prakash, Beli Baruah, Sangeeta Singh, Rahul Chaudhury, Amit Prakash, Pradip Bhattacharyya, M. Tamil Selvan, and Manish Kumar*. "Tracing phosphorous distributions in the surficial sediments of two eastern Himalayan high altitude lakes through sequential extraction, multivariate and HYSPLIT back trajectory analyses." *Environmental Earth Sciences* 73, no. 11 (2015): 7617-7629. (IF: 1.765)
42. Das, Pallavi, Kali Prasad Sarma, and Manish Kumar*. "Understanding of Chemical Speciation of Lead, Zinc and Copper in Vertical Profile of the Sediments of the Brahmaputra River, Assam, India." *Asian Journal of Water, Environment and Pollution* 12, no. 1 (2015): 21-28. (IF: 0.000)
43. Patel, Arbind K, Jyoti P. Deka, A. Aparna Das, Manish Kumar* (2015) "Alluvial Plains of Darbhanga Province, Bihar: A Zone of Arsenic Vulnerability" *Indian Groundwater, IV*,16-26. (IF: 0.000)
44. Pallavi, Das, Manish Kumar, and Kali Prasad Sarma. "Speciation of heavy metals in surface sediment of the Brahmaputra river, Assam, India." *Journal of Environmental Research And Development Vol9*, no. 3A (2015). (IF: 0.000)
45. Krishan, Gopal, M. S. Rao, C. P. Kumar, Manish Kumar, and Bhishm Kumar. "Investigation of geospatial effects on moisture dynamics in Tezpur (Assam) and Roorkee (Uttarakhand) through isotopes observations." *IWRA (India) Journal (Half Yearly Technical Journal of Indian Geographical Committee of IWRA)* 3, no. 2 (2014): 21-24. (IF: 0.000)
46. Krishan, G., M. S. Rao, B. Kumar, C. P. Kumar, S. Kumar, R. K. Jaiswal, Y. R. S. Rao Tripathi, Manish Kumar*, P. K. Garg and P. Kumar "Monitoring of Southwest Monsoon using isotope analysis of ground level vapour (Glv) in Indian Sub-Continent." *Journal of Earth Science and Climate Change* 5, no. 8 (2014). (IF: 1.66)
47. Prabha, Shashi, A. L. Ramanathan, Anindita Gogoi, Pallavi Das, Jyoti Prakash Deka, Vinay Kumar Tayagi, and Manish Kumar*. "Suitability of conventional and membrane bioreactor system in textile mill effluent treatment." *Desalination and Water Treatment* 56, no. 1 (2015): 14-23. (IF: 1.383)
48. Kumar, Manish*, Roger Herbert Jr, A. L. Ramanathan, M. Someshwar Rao, Kangjoo Kim, Jyoti Prakash Deka, and Bhishm Kumar. "Hydrogeochemical zonation for groundwater management in the area with diversified geological and land-use setup." *Chemie der Erde-Geochemistry* 73, no. 3 (2013): 267-274. (IF: 1.723)
49. Kumar, Manish*, Hiroaki Furumai, Futoshi Kurisu, and Ikuro Kasuga. "Tracing source and distribution of heavy metals in road dust, soil and soakaway sediment through speciation and isotopic fingerprinting." *Geoderma* 211 (2013): 8-17. (IF: 3.740)
50. Kumar, Manish*, Hiroaki Furumai, Futoshi Kurisu, and Ikuro Kasuga. "Potential mobility of heavy metals through coupled application of sequential extraction and isotopic exchange: comparison of leaching tests applied to soil and soakaway sediment." *Chemosphere* 90, no. 2 (2013): 796-804. (IF: 4.427)
51. Prabha, Shashi, Manish Kumar*, Alok Kumar, Pallavi Das, and A. L. Ramanathan. "Impact assessment of textile effluent on groundwater quality in the vicinity of Tirupur industrial area, southern India." *Environmental earth sciences* 70, no. 7 (2013): 3015-3022. (IF: 1.435)

52. P. Kumar*, **Manish Kumar**, P. Tripathi, AL., Ramanathan (2012). Arsenic poisoning of Groundwater in parts of Middle Gangetic plain, Bhagalpur district, Bihar, India. *Memoir, Indian Society of Applied Geochemists*. (159-170). (IF: 0.000)
53. **Kumar, Manish**, M. Someshwar Rao*, Bhishm Kumar, and Algappan Ramanathan. "Identification of aquifer-recharge zones and sources in an urban development area (Delhi, India), by correlating isotopic tracers with hydrological features." *Hydrogeology journal* 19, no. 2 (2011): 463-474. (IF: 2.071)
54. Kim, Jinyoung*, Yuji Kuwahara, and **Manish Kumar**. "A DEM-based evaluation of potential flood risk to enhance decision support system for safe evacuation." *Natural hazards* 59, no. 3 (2011): 1561-1572. (IF: 1.901)
55. **Kumar, Manish***, Pankaj Kumar, A. L. Ramanathan, Prosun Bhattacharya, Roger Thunvik, Umesh K. Singh, M. Tsujimura, and Ondra Sracek. "Arsenic enrichment in groundwater in the middle Gangetic Plain of Ghazipur District in Uttar Pradesh, India." *Journal of Geochemical Exploration* 105, no. 3 (2010): 83-94. (IF: 2.858)
56. **Kumar, Manish***, Hiroaki Furumai, Futoshi Kurisu, and Ikuro Kasuga. "Evaluating the mobile heavy metal pool in soakaway sediment, road dust and soil through sequential extraction and isotopic exchange." *Water Science and Technology* 62, no. 4 (2010): 920-928. (IF: 1.247)
57. Kumar, Pankaj, **Manish Kumar***, A. L. Ramanathan, and Maki Tsujimura. "Tracing the factors responsible for arsenic enrichment in groundwater of the middle Gangetic Plain, India: a source identification perspective." *Environmental geochemistry and health* 32, no. 2 (2010): 129-146. (IF: 2.994)
58. Thakur, Jay Krishna, Rinku Kumari Thakur, A. L. Ramanathan, **Manish Kumar**, and Sudhir Kumar Singh. "Arsenic contamination of groundwater in Nepal—an overview." *Water* 3, no. 1 (2010): 1-20. (IF: 2.069)
59. **Kumar, Manish**, Hiroaki Furumai*, Futoshi Kurisu, and Ikuro Kasuga. "Understanding the partitioning processes of mobile lead in soakaway sediments using sequential extraction and isotope analysis." *Water Science and Technology* 60, no. 8 (2009): 2085-2091. (IF: 1.247)
60. **Kumar, Manish**, A. L. Ramanathan*, and A. K. Keshari. "Understanding the extent of interactions between groundwater and surface water through major ion chemistry and multivariate statistical techniques." *Hydrological Processes: An International Journal* 23, no. 2 (2009): 297-310. (IF: 3.181)
61. **Kumar, Manish***, Bhawna Sharma, A. L. Ramanathan, M. Someshwar Rao, and Bhishm Kumar. "Nutrient chemistry and salinity mapping of the Delhi aquifer, India: source identification perspective." *Environmental Geology* 56, no. 6 (2009): 1171-1181. (IF: 1.078)
62. Jha, Pawan Kumar*, Jaya Tiwari, Umesh Kumar Singh, **Manish Kumar**, and V. Subramanian. "Chemical weathering and associated CO₂ consumption in the Godavari river basin, India." *Chemical Geology* 264, no. 1-4 (2009): 364-374. (IF: 3.570)
63. **Kumar, Manish***, Kalpana Kumari, Umesh Kumar Singh, and A. L. Ramanathan. "Hydrogeochemical processes in the groundwater environment of Muktsar, Punjab: conventional graphical and multivariate statistical approach." *Environmental Geology* 57, no. 4 (2009): 873-884. (IF: 1.078)
64. Singh, Umesh Kumar, **Manish Kumar***, Rita Chauhan, Pawan Kumar Jha, A. L. Ramanathan, and V. Subramanian. "Assessment of the impact of landfill on groundwater quality: a case study of the Pirana site in western India." *Environmental monitoring and assessment* 141, no. 1-3 (2008): 309-321. (IF: 1.804)
65. **Kumar, Manish***, Kalpana Kumari, A. L. Ramanathan, and Rajinder Saxena. "A comparative evaluation of groundwater suitability for irrigation and drinking purposes in two intensively cultivated districts of Punjab, India." *Environmental Geology* 53, no. 3 (2007): 553-574. (IF: 1.078)

66. **Kumar, Manish***, A. L. Ramanathan, M. S. Rao, and Bhishm Kumar. "Identification and evaluation of hydrogeochemical processes in the groundwater environment of Delhi, India." *Environmental Geology* 50, no. 7 (2006): 1025-1039. (IF: 0.000)

2. BOOKS & CHAPTERS IN BOOKS: Edited: 4: Chapters: 22

PUBLISHED/In press: (n = 4)

1. Kurisu, F., Ramanathan, AL., Kazmi, A., and **Kumar Manish. (2015)** "Trends in Environmental Science and Technology" *Capital-Springer Publication*, ISBN 978-93-81891-28-5
2. **Kumar Manish. (2012)** "Problems, Perspectives and Challenges of Agricultural *Water Management*" *In-Tech international publication*, ISBN 979-953-307-706-1
3. Chidambaram, S., Srinivasamoorthy, K., Ramanathan, AL., Anandhan, P., Manivannan, R., Parasad, M.B.K., **Kumar Manish. (2010)** "Groundwater Monitoring and Management through hydrogeochemical Modeling approach", IK international, 142p ISBN 978-93-80578-16-3. ISBN-10: 9380578164 ISBN-13: 978-9380578163.

IN PRESS: (n = 1)

1. "Emerging Issues in the Water Environment during Anthropocene: A South East Asian Perspective" (ISBN 978-93-81891-41-4) to be published by **Springer**. Editors (Manish Kumar, Daniel Snow and Ryo Honda)