Dr. Brijesh Kumar Mishra

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ACADEMIC BACKGROUND

Name of Degree	Branch / Specialization	College/Institute/University	Year	CGPA/ %	Class
Ph.D.	Environmental Science & Engg	IIT(ISM) Dhanbad, Jharkhand, India.	**2014**	**N/A**	**N/A**
M. Tech	Environmental Engineering	MNNIT Allahabad, UP, India.	**2004**	**7.66**	**Ist**
B. Tech	Agriculture Engg.	AAI-DU, Allahabad, UP, India.	**2002**	**76.41**	**Ist**

RESEARCH INTERESTS

1. Electrochemical/Electro kinetic/Electro-coagulation/Capacitive Deionization;
2. Water and Wastewater Treatment;
3. Adsorption & Photo-catalysis process for the treatment of water & wastewater;
4. Pollution exposure and human health risk assessment.

PROFESSIONAL APPOINTMENTS

1. **12.04.2021 to Till Now:** Associate Professor of Env. Sci. & Engg., IIT(ISM), Dhanbad
2. **14.06.2011 to 11.04.2021:** Assistant Professor of Env. Sci. & Engg., IIT(ISM), Dhanbad
3. **16.08.2005-13.06.2011:** Assistant Professor of Environmental Sci., SHIATS, Allahabad

LIST OF PUBLICATION

1. International Journal (SCI/SCIE Index): **38 (Average Impact factor: 3.36)**
2. International Journal (Scoups Index): **04**
3. Book Chapter: **03**
4. International & National Conference: **25**

RESEARCH GUIDANCE

1. Ph. D Guidance **(Awarded): 02** (Sole Guide) + **01** (Co-guide)
2. Ph. D Guidance **(Ongoing): 08** (Sole Guide) + **01** (Co-guide)
3. M. Tech Guidance **(Awarded)**: **16** (Sole Guide) + **01** (Co-guide)
4. M. Tech Guidance **(Ongoing)**: **01** (Sole Guide)
5. M.Sc Guidance **(Awarded): 08** (Sole Guide) + **02** (Co-guide)

RESEARCH PROJECTS

1. Research Projects: **03 (Completed)**+ 05 (Ongoing)
2. Major consultancy Projects: **10 (Completed)**

DETAILS OF COURSE TAUGHT

1. Earth System Science-ESD12301: (B. Tech Common)
2. Pollution Control and Management-ESE 201: (B Tech common, ESO)
3. Water and Wastewater Engineering-ESM 16101: (B. Tech Minor)
4. Introduction to Environmental Engineering-ESM 15101: (B. Tech Minor)
5. Principle & Design of Water Supply System-ESC 16101: (B. Tech Env. Engg.)
6. Environmental Engineering Design-II (S)-ESH 17102: (B. Tech Env. Engg.)
7. Environmental Engineering-I- ESC14151: (B Tech Civil Engg.)
8. Environmental Engineering-II- ESC15151: (B Tech Civil Engg.)
9. Environmental Chemistry-ESC 51103: (M. Tech Environmental Science & Engg)
10. Water Supply and Treatment-ESC 502: (M. Tech Env. Science & Engg)
11. Environmental Engineering-ESE 52101: (M. Tech Fuel Engg.)

DETAILS OF ADMINISTRATIVE EXPERIENCE

1. Member of DUGC (August 2018 to till now)
2. Member of DFSC (October 2018 to November 2020)
3. Departmental coordinator of CRF (January 2017 to till now)
4. Departmental member of NABL (July 2020 to till now)
5. Faculty advisor of B Tech Environmental Engg. IIIrd year students (July 2016 to till now)
6. Laboratory in-charge of Environmental Chemistry lab (Since July 2012 to till now)
7. Time table in-charge (January 2016 to August 2020)
8. Departmental coordinator of Library (January 2012 to December 2018)
9. Departmental in-charge of Environmental laboratories of CPCB, New Delhi.
10. Expert member of STAC committee of Jharkhand Government.

MEMBER OF PROFESSIONAL BODIES

1. Indian water works association (Life time)
2. The mining, geological and metallurgical institute of India (Life time)

DETAILS OF ONGOING/COMPLETED RESEARCH & DEVELOPMENT PROJECTS

S. No	Title of the Project	Funding Agency	Sanctioned Date & Amount (Lakhs)	Role	Status
1.	High Ash Coal Gasification and Associated Upstream and Downstream Processes (Coal to Chemicals, CTC) **CIL (8)/2017-2018/539/CHEMICAL ENGG**	CIL	**DoS:** 17.07.2017 **Amount:** 1872.007	Co-PI	On going
2.	Remediation of Ground Water Contaminated with Hexavalent Chromium in Sukhina Valley, Odihsa, using Nano Zero Valent Iron (nZVI) Technology **(MoEF(1)2015- 16/443/ESE)**	MoEF& CC	**DoS:** 03.03.2017 **Amount:** 24.80	Co-PI	On going
3.	Monitoring of air quality and analysis of water samples and noise monitoring at different points of Washery of Chasnalla. **(SAIL/2018-19/617/ESE)**	SAIL	**DoS:**09.01.2019 **Amount:** 16.99	PI	On going
4.	Hydrological study and assessment of ground water/surface water **(HINDALCO/2020-2021/717/ESE)**	Hindalco	**DoS:**02.05.2018 **Amount:** 6.75	PI	On going
5.	Monitoring of air quality and analysis of water samples monitoring at different points of Washery of Jitpur. **(SAIL/2018-19/621/ESE)**	SAIL	**DoS:** 26.11.2018 **Amount:** 4.99	Co-PI	On going
6.	Influence of Chlorine Disinfectant and Natural Organic Matter Gradients on Disinfection By-Product Formation in Drinking Water of Some Indian Cities **(DST(95)/2013-2014/ 381/ESE)**	SERB-DST	**DoS:** 14.02.2014 **Amount:** 23.186	PI	Completed
7.	Control of Disinfection by Products formation in drinking water supplies of India **MDWS/2015-16/453/ESE)**	MRD, New Delhi	**DoS:** 15.03.2016 **Amount:** 25.2	Co-PI	Completed
8	Study to develop and improved nitrification in AIS at BOT Plant **Tata Steel/2017-18/535/ESE**	Tata Steel	**DoS:** 03.05.2017 **Amount:** 11.80	Co-PI	Completed

MAJOR ONGOING/COMPLETED CONSULTANCY PROJECTS

S. No.	Consultancy Name	Funding agency	Sanctioned Date & Amount (Lakhs)	Status	Role
1.	EIA Study on the impact of impact of leaching due to storage of fly ash on the surface and mine voids of the dumping **(CONS/2296/13-14)**	Hindalco Ltd, Muri	**DoS:** 02.09.2013 **Amount:**15.16	Completed	CI
2.	Geo Enviro study of abandoned mines for flyash backfilling **(CONS/2927/15-16)**	MPL, Dhanbad	**DoS:** 24.06.2015 **Amount:**22.80	Completed	CI
3.	Technical Consultancy for Wastewater Management and Control of Water Pollution from plant and Mines of Kirandul Complex **(CONS/2794/14-15)**	NMDC, Kirandul	**DoS:** 08.09.2014 **Amount:**14.88	Completed	Co-CI
4.	Impact of Mining Activities on Hydrology and Hydrogeology of Core Zone Covering all 5 underground Mines of Tata Steel. **(CONS/2674/14-15)**	TSL, Jharia	**DoS:** 10.12.2013 **Amount:** 8.98	Completed	Co-CI
5.	Technical consultancy for Wastewater Management **(CONS/3049/15-16)**	NMDC,	**DoS:** 08.08.2015 **Amount:**15.10	Completed	Co-CI
6.	Assessment of heavy metal pollution index (HPI) in water, sediments and aquatic samples in and around Manikpur open cast mine fly ash fill site. **(CONS/4096/2018-2019)**	NTPC, Kirandul	**DoS:** 30.03.2018 **Amount:**28.32	Completed	CI
7.	Techno Economic Study for Transportation for fly ash from CSPGCL Korba to Manikpur Open Cast Mines. **(CONS/3469/16-17)**	CSEB, Korba	**DoS:** 21.02.2017 **Amount:** 28.32	Completed	CI
8.	Assessment of ground and surface water at Muri. **(CONS/3870/18-19)**	Hindalco, Muri	**DoS:** 12.01.2018 **Amount:** 6.75	Completed	CI
9.	Validation of Data quantitative and Qualatitative for Coal Jal App with respect to BCCL **(TEST/4009/2018-19)**	BCCL, Dhanbad	**DoS:** 26.06.2018 **Amount:**12.803	Completed	CI
10.	Validation of Data quantitative and Qualatitative for Coal Jal App with respect to CCL	CCL, Ranchi	**DoS:** 10.07.2018 **Amount:**12.272	Completed	CI

DETAILS OF PH. D GUIDANCE

S. No	Name of Student	Title of the Dissertation	Role	Status	Date of Award
1.	**Ms Aliya Naz**	**Risk Assessment of Chromium in the Chromite Mine Water and Its Bioremediation**	**Co-Guide**	**Awarded**	**29.03.2017**
2.	**Ms. Tanwi Priya**	**Spectral Indices modelling approach for the treatment of aromatic fractions of Natural Organic Matter to control Trihalomethanes precursors**	**Sole guide**	**Awarded**	**10.01.2019**
3.	**Mr. Hariraj Singh**	**Electrochemical Oxidation of Phenol, Cyanide and Aniline in Coke Oven Wastewater: Parametric Optimization, Reaction Mechanism and By-product Toxicity Evaluation**	**Sole guide**	**Awarded**	**24.08.2020**
4.	Ms. Arkulla Deepa	Sorption and Biological degradation of Pre-treated tannery wastewater in Biochar based laboratory filters with active biofilm	Sole guide	**Ongoing (Thesis Submitted)**	
5.	Mr Prem Prakash	Optimization of Electrokinetic Process for Removal of Organic Compounds and Metals from Soil/Sludge with Modified Electrolytes	Sole guide	Ongoing	
6.	Ms Astha Singh	Kinetics of Hybrid process of Electrochemical & Photo catalytic System for Removal Selected Pharmaceutical Waste	Sole guide	Ongoing	
7.	Ms. Sonalika	Performance Evaluation of Natural and Hybrid Coagulant for Treatment of Dye Wastewater	Sole guide	Ongoing	
8.	Ms Vijay Laxmi	Establishment of suitable aggregation function for development of RPI, Risk factor & cluster zone for selected stretch of Damodar River using Hyperion Data	Sole guide	Ongoing	
9.	Mr Sourav Acharya	Adsorbed metal based Activated Carbon/Polyaniline Nanocomposite: A superior electrode material for Asymmetric Supercapacitor Device	Co-Guide	Ongoing	
10.	Mr Sumit Dhaiya	Synthesis of application materials in flow electrode capacitive deionization for performance enhancement in field of desalination and heavy metal removal from water	Sole guide	Ongoing	
11.	Ms Aakansha Singh	Synthesis of bioanode and its performance evaluation in hybrid microbial fuel cell	Sole guide	Ongoing	

DETAILS OF M. TECH GUIDANCE

S. No.	Title of Thesis	Name of students	Role	Award Year
1.	The study on Geochemistry of Govind Ballabh Pant Sagar, Singrauli, India	Ashish Kumar	Co-Guide	2013
2.	Evaluation and performance of electromagnetic system for removal efficiency of toxic contaminants from municipal sewage sludge	Pravesh Kumar Yadav	Guide	2013
3.	Assessment of water and soil quality in opencast coal mine area, Rajrappa	Tanmoy Hazara	Guide	2014
4.	Air and noise quality assessment of flyash dumping area of Rajrappa	Rakesh Kumar	Guide	2014
5.	Investigation of the Electro-coagulation Treatment process for the Removal of Metals from Mine Water	Hariraj Singh	Guide	2015
6.	In-situ influence of coal ash dump on neighboring surface and ground water	Nitesh Kumar	Guide	2015
7.	Feasibility analysis of sewage treatment plant at TATA steel, West Bokaro, Jharkhand	Vinay Anchal	Guide	2016
8.	Assessment of Removal Efficiency of Disinfection By-Products (DBPs) precursor by Enhanced Coagulation	Vijay Laxmi	Guide	2016
9.	Assessment of water quality in and out abandoned mines of ECL Mugma area Using Water Quality Index(WQI)	Shreya Sharma	Guide	2016
10	Assessment of influence of NOM and oter operational condition during chlorination and control strategies of THMs in drinking water	Bramha Gupta	Guide	2017
11	Assessment of Soil fertility by direct impact of electro kinetic process on chromium contaminated soil	Prasun Kumar Chakraborty	Guide	2017
12	Characterization of biochar derived from Neem seed shell and Its Performance, kinetics, and equilibrium for the adsorption of RBBR from aqueous solution	Provashish Ghosh	Guide	2018
13	Triclosan adsorption by Graphene Oxide: Isotherms, Kinetics and Thermodynamics analyses	Rohit Kumar	Guide	2018
14	Optimization of Air Stripping process for the removal of ammonia in coke oven wastewater.	Tannu Yadav	Guide	2018
15	Understanding the NOM removal mechanism from Mine and surface water through electrocoagulation method	Shivam Snehi	Guide	2019
16	Application of Fuzzy logic for the assessment risk associated with groundwater	Subham Singh	Guide	2019
17	Ionic interaction of mine and surface water during coagulation for the removal of reactive part of NOM	Devayani Ugale	Guide	2019

DETAILS OF M. SC GUIDANCE

S. No.	Title of Thesis	Name of students	Role	Award Year
1.	Assessment of Ambient Air Pollutants At Different Sites Of Allahabad City	Durgesh Kumar	Guide	2007
2.	Survey and Analysis of Solid Waste Management in Allahabad City	Soumyajit Datta	Guide	2007
3.	Impact of Sewage Pollution on Physico Chemical and Microbial Characteristics of Some Water Bodies in Allahabad District	Siddharth Mishra	Guide	2007
4.	Adsorption of fluoride from aqueous solution using fly ash and sawdust	Pawan Kumar Mishra	Guide	2008
5.	Monitoring of drinking water quality index at Naini Allahabad	Anjali Singh	Guide	2008
6.	Assessment of toxic metal in tree bark and soil at road side	Purvee Gupta	Guide	2009
7.	Monitoring of Ambient Air Pollutants At NTPC Tanda	Jyoti Kumari	Guide	2009
8.	Absorption of toxic elements in radish crop & Agricultural soil treated with municipal sewage sludge	Rashi Gupta	Guide	2009
9.	Study on removal of Zn from aqueous solution using tea waste as an adsorbent	Surabhi Singh	Co-Guide	2010
10.	Study of Yamuna river water quality in Allahabad city	Ibadaiahun Murthong	Co-Guide	2010

MAJOR CONFERENCE/ REFRESHER/SHORT TERM COURSES ATTENDED

S. No.	Details
1.	Presented the review paper on the in 2nd Annual International Conference on "Sustainable Energy and Environmental Sciences" at Singapore during 24 to 28 February 2013.
2.	Presented the research paper on the "Performance Evaluation of the Electro-Coagulation Treatment Process for the Removal of Total Suspended Solids and Metals from Water" in World Congress on Sustainable Technologies (WCST-2015) at London during 14 to 16 December 2016.
3.	Presented the research paper on the "Optimization of the operational conditions for the treatment of reactive dyes through a statistical tool: Response Surface Methodology" in 8th International Conference on Environment Science and Biotechnology (ICESB 2018) at Chulaongkorn University, Bangkok, Thailand during 19 to 21 December 2018.
4.	Three days training on "Current Requirements in Environmental Impact Assessment (EIA) – Process & Procedures (as per MOEF Guidelines)" organized by ESCI, Hyderabad during January 23-25, 2012.
5.	One week short term course on "Transportation system planning and GIS Application in Engineering" Sponsored by AICTE, (Govt. of India) held on December 19 to 23 Dec, 2009 at NIT, Hamirpur,(H.P).

ORGANIZATION OF CONFERENCE/SHORT TERM COURSE (EDP)

S.No.	Particulates	Date	Role	Remark
1.	Organized two day national conference on "Sustainable Development of Groundwater Resources in Industrial Regions SDGRIR 2012"	22-23 March, 2012	Treasure	Conference
2.	Organized two day national workshop on "Challenges and Opportunities for Management of Water Supplies in Rural Areas, COMWRA 2015"	23-24 January, 2015	Treasure	Workshop
3.	Organized 5-Days Training Program for Executives of different industry on "Water Quality and Treatment Plant Operation". **(CONS/3404/16-17)**	19– 23 Dec, 2016	CI	EDP
4.	Organized 3-Days Training Program for Executives of different industry/institute on "Fibre Optic sensors in environmental monitoring (FOSEM)" **(EDP/3960/2018-2019)**	22-24 June, 2017	Co-CI	EDP
5.	Organized 3-Days Training Program for Executives of different industry on "Water Quality and Treatment" **(CONS/3080/15-16)**	28-30 January, 2016	Co-CI	EDP
6.	Organized 3-Days Training Program for Executives of thermal power plants on "Water Quality and Management for Thermal Power Plants" **(EDP/3305/2016-2017)**	21-23 Sept, 2016	Co-CI	EDP
7.	Organized 3-Days Training Program for Executives of different industry on "Water Quality and Management" **(EDP/3220/2016-2017)**	25 - 27 May 2016	Co-CI	EDP

PUBLICATION DETAILS

A) List of Publication (SCI/SCIE)

Publication Index					
Q1	**Q2**	**Q3**	**Q4**	**Total Publication (SCI/SCIE)**	**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. *Ecotoxicology and Environmental Safety*, *211*, 111907.	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. International Journal of Environmental Science and Technology. (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. *Chemical Engineering Journal*, 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. Composites Part B: Engineering, 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**.** Separation and Purification Technology, 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. Mine Water and Environment. **(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. Environmental Geochemistry and Health, 42, *4213-4231.*	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. Environmental	3.472 /Q1

	geochemistry and health. ***https://doi.org/10.1007/s10653-020-00590-7.***	
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. RSC Advances, 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. *Environmental Engineering Research*, *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. *Water Science and Technology*, *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 Mishra*** (2018). Performance evaluation of saponin over other organic acid and tap water for removal of chromium in tannery sludge by electrokinetic enhancement. *Separation Science and Technology*, 1-10.	1.718/Q3
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. *Environmental geochemistry and health*, 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. Journal of Water Supply: AQUA, *67*(2):147-161.	1.319/Q4
24.	Tanwi Priya, Abhrajyoti Tarafdar, Bramha Gupta and **B K Mishra*** (2018). Effect of bioflocculants on the coagulation activity of alum for removal of trihalomethane precursors from low turbid water. Journal of Environmental Science, 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. *Polycyclic Aromatic Compounds*, 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. Human and Ecological Risk Assessment, 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. Separation and Purification Technology, 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. Global NEST, 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. Exposure and Health, 9(1):61-75.	4.762/Q1
30.	Hariraj Singh and **B K Mishra*** (2017). Performance evaluation and	1.732/Q4

	kinetic modeling of the electrocoagulation treatment process for the removal of total suspended solids and metals from synthetic water. Environmental Engineering Research. 22(2): 141-148.	
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. Human and Ecological Risk Assessment, 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. Exposure and Health, 8(2): 253-264.	4.762/Q1
33.	Tomar Swati, Gupta S K* and **Mishra B K** (2015). Performance evaluation of the anammox hybrid reactor seeded with mixed inoculum sludge. Environmental Technology, 37(9): 1065-1076.	2.213/Q3
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 electrokineticprocess 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. Disinfection By-products in Drinking Water (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. Microbial Bioremediation & Biodegradation (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 *Contaminants in Drinking and Wastewater Sources* (pp. 209-224). Springer, Singapore.