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| Dr. Brijesh Kumar Mishra | |  |
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ACADEMIC BACKGROUND

| Name of Degree | Branch / Specialization | College/Institute/University | Year |
|----------------|------------------------------|-------------------------------------|-------------|
| Ph.D. | Environmental Science & Engg | IIT(ISM) Dhanbad, Jharkhand, India. | 2014 |
| M. Tech | Environmental Engineering | MNNIT Allahabad, UP, India. | 2004 |
| B. Tech | Agriculture Engg. | AAI-DU, Allahabad, UP, India. | 2002 |

RESEARCH INTERESTS

1. Water and Wastewater Treatment.
2. Waste to Wealth.
3. Pollution Exposure and Human Health Risk Assessment.
4. Mine Environment Management.

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

LIST OF PUBLICATION

1. International Journal (SCI/SCIE Index): **45 (Average Impact factor: 5.45)**
2. International Journal (Scopus Index): **03**
3. Book Chapter: **10**
4. International & National Conference: **32**

RESEARCH GUIDANCE

1. Ph. D Guidance (**Awarded**): **07** (Sole Guide) + **01** (Co-guide)
2. Ph. D Guidance (**Ongoing**): **03** (Sole Guide) + **01** (Co-guide)
3. M. Tech Guidance (**Awarded**): **22** (Sole Guide) + **01** (Co-guide)
4. M. Tech Guidance (**Ongoing**): **02** (Sole Guide)
5. M.Sc Guidance (**Awarded**): **08** (Sole Guide) + **02** (Co-guide)

RESEARCH PROJECTS

1. Research Projects: **09 (Completed)**+ 05 (Ongoing)
2. Consultancy Projects: **23 (Completed)** +02 (Ongoing)

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.)
12. Advanced Water & Wastewater Treatment-ESD 505: (B Tech & M Tech)
13. Research Methodology-ESC 700: (Research Scholar of ESE)

DETAILS OF ADMINISTRATIVE EXPERIENCE

1. Expert member of the Technical cum verification committee of Jharkhand Pollution Control Board (**June 2022 to till now**)
2. Departmental Training & Placement In charge (**March 2022 to till now**)
3. Convener DPGC (**September 2022 to till now**)
4. Departmental member of NABL (**July 2020 to till now**)
5. Nodal Officer/Coordinator of Key resource center (**June 2021 to till now**)
6. Expert member of STAC committee of Jharkhand Government (**May 2018 to till now**)
7. Departmental in charge of Environmental laboratories of CPCB, New Delhi (**February 2018 to till now**)
8. Departmental coordinator of CRF (**January 2017 to till now**)
9. Laboratory in-charge of Environmental Chemistry lab (**Since July 2012 to till now**)
10. Member M Tech admission committee (**November 2021 to October 2022**)
11. Member of DUGC (**August 2018 to September 2022**)
12. Faculty advisor of B Tech Environmental Engg. IIIrd year students (**July 2016 to October 2020**)
13. Member of DFSC (**October 2018 to November 2020**)
14. Timetable in-charge (**January 2016 to August 2020**)
15. Departmental coordinator of Library (**January 2012 to December 2018**)

MEMBER OF PROFESSIONAL BODIES

1. Indian water works association (Lifetime)
2. The Mining, geological and metallurgical institute of India (Life time-10163)

DETAILS OF ONGOING/COMPLETED PROJECTS

| Research Projects (14) | | | | Consultancy Projects (25) | |
|------------------------|-------------------|--------------------|-------|---------------------------|---------|
| S&T Projects | Industry projects | Institute Projects | TEQIP | PSU/Government | Private |
| 06 | 04 | 03 | 01 | 16 | 9 |

A) Details of ongoing/completed R&D projects

| S. No | Title of the Project | Funding Agency | Sanctioned Date & Amount (Lakhs) | Role | Status |
|-------|---|------------------------|-----------------------------------|-------|-----------|
| 1. | Cow dung derived hybrid adsorbent for heavy metal removal and its subsequent utilization as cheaper electrodes for energy storage devices (DST(SEED)(290)/2021-2022/805/ESE) | DST | DoS:25.06.2021 Amount: 36.16 | PI | Ongoing |
| 2. | Key resource centre (DDWS(NJJM)/2021-2022/807/ESE) | Ministry of Jal Shakti | DoS:23.07.2021 Amount: 1.77 | PI | Completed |
| 3. | Identification of suitable sites and designing of environmental friendly rainwater harvesting structures for catching the rain where it falls when it falls in the IIT(ISM) campus area (DRD-11014/43/2021-ES) | IIT(ISM) | DoS:23.06.2021 Amount: 8.80 | Co-PI | Ongoing |
| 4. | 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 | Ongoing |
| 5. | Remediation of Ground Water Contaminated with Hexavalent Chromium in Sukhina Valley, Odisha, using Nano Zero Valent Iron (nZVI) Technology (MoEF(1)2015- 16/443/ESE) | MoEF& CC | DoS:03.03.2017 Amount: 24.80 | Co-PI | Completed |
| 6. | 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: 8.49 | PI | Completed |
| 7. | Hydrological study and assessment of ground water/surface water (HINDALCO/2020-2021/717/ESE) | Hindalco | DoS:02.05.2018 Amount: 6.75 | PI | Completed |
| 8. | Monitoring of air quality and analysis of water samples | SAIL | DoS: 26.11.2018 Amount: 4.99 | Co-PI | Completed |

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|-----|---|----------------|----------------------------------|-------|-----------|
| | monitoring at different points of Washery of Jitpur. (SAIL/2018-19/621/ESE) | | | | |
| 9. | 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 |
| 10. | 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 |
| 11. | 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 |
| 12. | Investigation of the electrocoagulation technique process for the removal of Fe (II) from tap water of ISM campus (TEQIP/BKM/ESE) | TEQIP - II | DoS:01.06.2013 Amount: 1.00 | PI | Completed |
| 13. | Assessment of disinfection requirement for drinking water in ISM Campus Dhanbad (Minor/BKM/ESE) | ISM Dhanbad | DoS:01.09.2012 Amount:0.99 | PI | Completed |
| 14. | Electro Kinetic Removal of Toxic Contaminants from Municipal Sewage Sludge (FRS(39)/2012-13/ESE) | ISM Dhanbad | DoS:01.03.2013 Amount:8.65 | PI | Completed |

B) Details of ongoing/completed consultancy projects

| S. No. | Consultancy Name | Funding agency | Amount (Lakhs) | Role | Status |
|---------------|---|-----------------------|-----------------------|-------------|---------------|
| 1. | Environmental Studies for Pond Ash Filling in Coal Mines Voids (CONS/7069/2022-23) | NTPC | 47.20 | CI | Ongoing |
| 2. | Cumulative Impact Assessment Study, Carrying Capacity Study and Ecosystem Services Study as per condition of terms of References (ToR) for Expansion of Nigahi Opencast Mining Project from 21 Mtpa to 25 Mtpa with increase in leasehold area from 3018.40 ha to 3582.732 ha. (CONS/6096/2021-2022) | NCL | 130.626 | Co-CI | Ongoing |
| 3. | Validation of Data quantitative for Coal Jal App with respect to ECL (TEST/4012/2018-2019) | ECL | 21.43 | Co-CI | Completed |
| 4. | Validation of Data Quantitative for Coal Jal App with respect to ECL (TEST/4010/2018-2019) | ECL | 21.00 | Co-CI | Completed |
| 5. | Validation of Data Quantitative for Coal Jal App with respect to BCCL (TEST/4009/2018-2019) | BCCL | 12.803 | CI | Completed |
| 6. | Validation of Data Quantitative for Coal Jal App with respect to CCL (TEST/4008/2018-2019) | CCL | 12.272 | CI | Completed |
| 7. | 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 | 28.32 | CI | Completed |
| 8. | Monitoring of Air quality and analysis of water samples at different points of washery at Chasnalla (CONS/3871/2018-2019) | SAIL | 6.73 | Co-CI | Completed |
| 9. | Assessment of ground and surface water at Muri. (CONS/3870/18-19) | Hindalco, Muri | 6.75 | CI | Completed |
| 10. | Assessment of Surface Water at Different Locations of Dhanbad (CONS/3829/2018-2019) | Tata Consulting Ltd. | 2.47 | CI | Completed |
| 11. | Water quality Analysis of Surface and Mine Water at Block - B, NCL Singrauli. (CONS/3732/2017-2018) | NCL | 1.24 | CI | Completed |
| 12. | Analysis of Mercury Content in 22 Coal Samples. (CONS/3709/2017-2018) | NCL | 1.30 | CI | Completed |
| 13. | Assessment of Ground Water and Surface Water at Muri. (CONS/3519/2017-2018) | Hindalco | 2.99 | CI | Completed |

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|-----|---|-------------------|-------|-------|-----------|
| 14. | Monitoring of Air Quality analysis and Water Samples at different point of Washery Chasnalla. (CONS/3507/2017-2018) | SAIL | 1.72 | Co-CI | Completed |
| 15. | Techno Economic Study for Transportation for fly ash from CSPGCL Korba to Manikpur Open Cast Mines. (CONS/3469/16-17) | CSEB | 28.32 | CI | Completed |
| 16. | Assessment of ground water and surface water at Muri (CONS/3196/2016-2017) | Hindalco | 2.96 | CI | Completed |
| 17. | Water Quality and Treatment Plant Operation (CONS/3404/2016-2017) | NCL | 2.20 | CI | Completed |
| 18. | Environmental Audit of Matrix Fertilizer by Third Party (CONS/3408/2016-2017) | Matix Fertilisers | 2.30 | CI | Completed |
| 19. | Geo Enviro study of abandoned mines for flyash backfilling (CONS/2927/15-16) | MPL | 22.80 | CI | Completed |
| 20. | Testing of Water Sample near Rajrappa Area (CONS/3021/15-16) | HIL | 1.46 | CI | Completed |
| 21. | Technical consultancy for Wastewater Management (CONS/3049/15-16) | NMDC, | 15.10 | Co-CI | Completed |
| 22. | Technical Consultancy for Wastewater Management and Control of Water Pollution from plant and Mines of Kirandul Complex (CONS/2794/14-15) | NMDC | 14.88 | Co-CI | Completed |
| 23. | Impact of Mining Activities on Hydrology and Hydrogeology of Core Zone Covering all 5 underground Mines of Tata Steel. (CONS/2674/14-15) | TSL | 8.98 | Co-CI | Completed |
| 24. | Monitoring of Environmental Parameters in Respect of (i) Stack Emission test (ii) Effluent discharge test (iii) Ambient air quality test (iv) Noise level Measurement for unit 1,2,3,7 & 8 DVC CTPS Chandrapura (CONS/2675/14-15) | DVC | 5.1 | Co-CI | Completed |
| 25. | 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 | 15.16 | CI | Completed |

DETAILS OF PH. D GUIDANCE

Awarded: As Sole Guide

| S. No | Name of Student | Title of the Dissertation | Award Year |
|-------|-------------------|--|------------|
| 1. | Ms. Tanwi Priya | Spectral Indices modelling approach for the treatment of aromatic fractions of Natural Organic Matter to control Trihalomethanes precursors | 2019 |
| 2. | Mr. Hariraj Singh | Electrochemical Oxidation of Phenol, Cyanide and Aniline in Coke Oven Wastewater: Parametric Optimization, Reaction Mechanism and By-product Toxicity Evaluation | 2020 |
| 3. | Ms. Arkulla Deepa | Sorption and Biological degradation of Pre-treated tannery wastewater in Biochar based laboratory filters with active biofilm | 2021 |
| 4. | Ms. Sonalika | Feasibility of zirconium oxychloride for the dye wastewater remediation based on coagulation and adsorption process | 2021 |
| 5. | Mr Prem Prakash | Optimization of Electrokinetic Process for Removal of Organic Compounds and Metals from Soil/Sludge with Modified Electrolytes | 2022 |
| 6. | Ms Astha Singh | Kinetics of Hybrid process of Electrochemical & Photo catalytic System for Removal Selected Pharmaceutical Waste | 2022 |
| 7. | Ms Vijay Laxmi | Establishment of water profile near steel industry and identification of suitable disinfection cum remediation process for dominating pollutants in groundwater | 2022 |

Awarded: Co-Guide

| S. No | Name of Student | Title of the Dissertation | Award Year |
|-------|-----------------|---|------------|
| 1. | Ms Aliya Naz | Risk Assessment of Chromium in the Chromite Mine Water and Its Bioremediation | 2017 |

Ongoing: As Sole Guide

| S. No | Name of Student | Research Theme |
|-------|---------------------|------------------------------|
| 1. | Mr Sumit Dhaiya | Water & Wastewater Treatment |
| 2. | Ms Aakansha Singh | Water & Wastewater Treatment |
| 3. | Ms. Sikha Jha | Water & Wastewater Treatment |
| 4. | Mr. Aditya Tripathi | Water & Wastewater Treatment |

Ongoing: Co-Guide

| S. No | Name of Student | Research Theme |
|-------|-------------------|--|
| 1. | Mr Sourav Acharya | Wastewater Treatment & Waste to Energy |

DETAILS OF M. TECH GUIDANCE

Awarded: As Sole Guide

| S. No. | Name of students | Title of Thesis | Award Year |
|--------|--------------------------|--|------------|
| 1. | Pravesh Kumar Yadav | Evaluation and performance of electromagnetic system for removal efficiency of toxic contaminants from municipal sewage sludge | 2013 |
| 2. | Tanmoy Hazara | Assessment of water and soil quality in opencast coal mine area, Rajrappa | 2014 |
| 3. | Rakesh Kumar | Air and noise quality assessment of flyash dumping area of Rajrappa | 2014 |
| 4. | Hariraj Singh | Investigation of the Electro-coagulation Treatment process for the Removal of Metals from Mine Water | 2015 |
| 5. | Nitesh Kumar | In-situ influence of coal ash dump on neighboring surface and ground water | 2015 |
| 6. | Vinay Anchal | Feasibility analysis of sewage treatment plant at TATA steel, West Bokaro, Jharkhand | 2016 |
| 7. | Vijay Laxmi | Assessment of Removal Efficiency of Disinfection By-Products (DBPs) precursor by Enhanced Coagulation | 2016 |
| 8. | Shreya Sharma | Assessment of water quality in and out abandoned mines of ECL Mugma area Using Water Quality Index(WQI) | 2016 |
| 9. | Bramha Gupta | Assessment of influence of NOM and other operational condition during chlorination and control strategies of THMs in drinking water | 2017 |
| 10. | Prasun Kumar Chakraborty | Assessment of Soil fertility by direct impact of electro kinetic process on chromium contaminated soil | 2017 |
| 11. | Provashish Ghosh | Characterization of biochar derived from Neem seed shell and Its Performance, kinetics, and equilibrium for the adsorption of RBBR from aqueous solution | 2018 |
| 12. | Rohit Kumar | Triclosan adsorption by Graphene Oxide: Isotherms, Kinetics and Thermodynamics analyses | 2018 |
| 13. | Tannu Yadav | Optimization of Air Stripping process for the removal of ammonia in coke oven wastewater. | 2018 |
| 14. | Shivam Snehi | Understanding the NOM removal mechanism from Mine and surface water through electrocoagulation method | 2019 |
| 15. | Subham Singh | Application of Fuzzy logic for the assessment risk associated with groundwater | 2019 |
| 16. | Devayani Ugale | Ionic interaction of mine and surface water during coagulation for the removal of reactive part of NOM | 2019 |
| 17. | Mamta Murmu | Fuzzy Analytical based approach for evaluation of Cancer and Non-cancer risk assessment due to Arsenic contaminated groundwater | 2020 |
| 18. | Manoj Mantri | Understanding the sorption of Chromium (VI) ions using flow electrode capacitive deionization technique over conventional adsorption | 2020 |
| 19. | Prateek Pathak | Remediation of e-waste contaminated soil through | 2020 |

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| | | electrokinetic process using different electrolyte | |
| 20. | Sumit Kumar | Removal of natural organic matter (NOM) in drinking water treatment by coagulation | 2021 |
| 21. | Amit Kumar Arya | Synthesis of Zirconium Based Adsorbent for the Removal of Nitrate from Groundwater | 2022 |
| 22. | Saikat Das | Mineralization Enhancement of Dye Wastewater by Integrating Different Advanced Oxidation Processes | 2023 |

Awarded: Co-Guide

| S. No. | Name of students | Title of Thesis | Award Year |
|--------|------------------|--|------------|
| 1. | Ashish Kumar | The study on Geochemistry of Govind Ballabh Pant Sagar, Singrauli, India | 2013 |

DETAILS OF M. SC GUIDANCE

Awarded: As Sole Guide

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

Awarded: Co-Guide

| S. No. | Name of students | Title of Thesis | Award Year |
|--------|---------------------|--|------------|
| 1. | Surabhi Singh | Study on removal of Zn from aqueous solution using tea waste as an adsorbent | 2010 |
| 2. | Ibadaiahun Murthong | Study of Yamuna river water quality in Allahabad city | 2010 |

MAJOR CONFERENCE/ REFRESHER/SHORT TERM COURSES ATTENDED

| S. No. | Details |
|--------|---|
| 1. | 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. |
| 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 review paper on the in 2nd Annual International Conference on “Sustainable Energy and Environmental Sciences” at Singapore during 24 to 28 February 2013. |
| 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 |
| 8. | Monitoring of Ecological Restoration Success and Carbon Sequestration using Remote Sensing and GIS (EDP/3263/2016-2017) | 27-29 July, 2016 | Expert Member | EDP |
| 9. | Occupational Health, Safety & Environment (EDP/3266/2016-2017) | 07-09 January, 2016 | Expert Member | EDP |
| 10. | Occupational Health, Safety & Environment (EDP/3540/2017-2018) | 17-19 May, 2017 | Expert Member | EDP |
| 11. | Sustainable Coal Mining Practices' for the students of University of South Florida-St. Peterburg, USA (EDP/3622/2017-2018) | 03-11 August, 2017 | Expert Member | EDP |
| 12. | Online Training Programme on Low-cost treatment method for Fluoride and Arsenic contaminated groundwater (DDWS(NJJM)/2021-2022/807/ESE) | 21-22 September, 2021 | CI | EDP |
| 13. | Online Training Programme on Low-cost treatment method for Fluoride and Arsenic contaminated groundwater (DDWS(NJJM)/2021-2022/807/ESE) | 23-24 September, 2021 | CI | EDP |

PUBLICATION DETAILS

A) List of Publications (SCI/SCIE)

| Publication Index | | | | | |
|-------------------|----|----|----|------------------------------|-----------------------|
| Q1 | Q2 | Q3 | Q4 | Total Publication (SCI/SCIE) | Average Impact factor |
| 22 | 13 | 08 | 02 | 45 | 5.45 |

Note: * Represent the corresponding author

| S. No | Publication Details | I.F./Ranking |
|-------|---|--------------|
| 1. | Sonalika Sonal, Sourav Acharya, Brijesh K Mishra* (2022). Mesoporous carbon structure impregnated with 2D engineered zirconium: A sustainable adsorbent for the removal of dyes from the aqueous solution, <i>Journal of Environmental Management</i> , 314, 115009. | 8.7/Q1 |
| 2. | Arukula Deepa, Sonalika, and B. K. Mishra* (2022). Application of co-immobilized microbial biochar beads in hybrid biofilter towards effective treatment of chrome tanning wastewater. <i>Journal of Water Process Engineering</i> , 48, 102821. | 7.0/Q1 |
| 3. | Astha Singh and Brijesh Kumar Mishra* (2022). Removal of chlorhexidine digluconate from aqueous solution by heterogenous photocatalysis using Sunlight-Driven Ni-Doped TiO ₂ material. <i>Environmental Engineering Research</i> . (Accepted) | 3.5/Q2 |
| 4. | Sonal, S., & Mishra, B. K.* (2021). Synthesis and performance of different Zirconium-based adsorbents for the removal of various water contaminants. <i>Chemical Engineering Journal</i> , 424, 130509. | 15.1/Q1 |
| 5. | Dahiya, S., Singh, A., & Mishra, B. K.* (2021). Capacitive deionized hybrid systems for wastewater treatment and desalination: A review on synergistic effects, mechanisms and challenges. <i>Chemical Engineering Journal</i> , 417, 128129. | 15.1/Q1 |
| 6. | Astha Singh and Brijesh Kumar Mishra* (2021). Solar light-driven photocatalysis using BaFe ₂ O ₄ /rGO for Chlorhexidine digluconate contaminated water: comparison with artificial UV and visible light-mediated photocatalysis. <i>Environmental Science and Pollution Research</i> , 29 , 30739–30753 (2022). | 5.8/Q1 |
| 7. | Singh, A., Dahiya, S. & Mishra, B. K. (2021). Microbial fuel cell coupled hybrid systems for the treatment of dye wastewater: A review on synergistic mechanism and performance. <i>Journal of Environmental Chemical Engineering</i> , 9(6), 106765. | 7.7/Q1 |
| 8. | 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> , 211, 111907. | 6.8/Q1 |

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| 9. | Arukula Deepa, Astha Singh, Aakansha Singh and B. K. Mishra* (2021). An experimental approach for the utilization of tannery sludge derived <i>Bacillus</i> strain for biosorptive removal of Cr(VI) contaminated wastewater. <i>Environmental Science and Pollution Research</i> , 28(8), 9864-9876. | 5.8/Q1 |
| 10. | Arukula Deepa, Prem Prakash and B. K. Mishra* (2021). Performance of biochar-based filtration bed for the removal of Cr(VI) from pre-treated synthetic tannery wastewater. <i>Environmental Technology</i> , 42:2, 257-269, | 2.8/Q3 |
| 11. | Sonalika Sonal, Devyani Ugale, and Brijesh K Mishra* (2021). Combining Surface Water with Mine Water to Improve the Removal of Natural Organic Matter by Enhanced Coagulation. <i>Mine Water and Environment</i> . (Accepted) . | 2.8/Q2 |
| 12. | 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) | 3.1/Q3 |
| 13. | Gupta, B., Priya, T., Kumar Mishra, B., Gupta, B., Priya, T., & Mishra, B. K. (2021). 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), 209-217. | 3.5/Q2 |
| 14. | 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. | 13.1/Q1 |
| 15. | 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. | 8.6/Q1 |
| 16. | 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> . 42, 4213-4231. | 4.2 /Q2 |
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