


## Curriculum Vitae

<b>Full Name:</b>	<b>DR. SHIKHA DUBEY</b>	
<b>Designation:</b>	Assistant Professor (Analytical Chemistry)	
<b>Department:</b>	Department of Chemistry	
<b>Campus:</b>	Hemwati Nandan Bahuguna Garhwal University Srinagar (Garhwal), 246174, Uttarakhand, India	
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<b>Education Qualification:</b>	<input type="checkbox"/> <b>B.Sc.(Chemistry)</b> Banaras Hindu University, Varanasi, India. (2007) <input type="checkbox"/> <b>M.Sc.(Analytical Chemistry)</b> Banaras Hindu University, Varanasi, India. (2009) <input type="checkbox"/> <b>Ph.D.(Chemistry)</b> Indian Institute of Technology(BHU) Varanasi, India. (2017)	
<b>Research Interest and Fields of Specialization</b>		
<ol style="list-style-type: none"> <li>1. Nano-biomaterial synthesis and characterization</li> <li>2. Development of low-cost adsorbents/nano adsorbents/magnetic nano-sorbents for water remediation</li> <li>3. Green synthesis of materials, characterization and application in environmental remediation.</li> </ol>		
<b>Honours &amp; Awards</b>		
<ol style="list-style-type: none"> <li>1. Senior Research Fellowship (SRF) by Defence Research and Development Organization (DRDO), Ministry of Defence, Govt. of India, New Delhi, India (January, 2015-December, 2015).</li> <li>2. Junior Research Fellowship by Defence Research and Development Organization (DRDO), Ministry of Defence, Govt. of India, New Delhi, India (January, 2013-December, 2014).</li> <li>3. Qualified CSIR-NET Exam with 22<sup>nd</sup> Rank in December, 2011.</li> </ol>		
<b>Membership of Scientific Organizations</b>		
<ol style="list-style-type: none"> <li>1. Material Research Society of India (MRSI)</li> <li>2. The Biotech Research Society of India (BRSI)</li> </ol>		
<b>Conference/Symposium Attended</b>		
<b>International</b>		
<ol style="list-style-type: none"> <li>1. <i>International Conference on Recent Advances in Analytical Science (RAAS)</i>, March 27-29, 2014, Department of Chemistry, IIT (BHU), Varanasi, India, (Poster Presentation).</li> <li>2. <i>International Conference on Multifunctional Materials for Future Applications (ICMFA)</i>, 27-29 October 2015, Department of Chemistry, IIT (BHU), Varanasi, India, (Poster Presentation).</li> <li>3. <i>4th International Conference on Advanced Nanomaterials and Nanotechnology (ICANN-2015)</i>, December 8-11, 2015, Department of Chemistry, IIT Guwahati, India, (Poster Presentation).</li> <li>4. <i>International Conference on Nanoscience and Technology (ICONSAT 2016)</i>, February 29-March 2, 2016, IISER Pune, India, (Poster Presentation).</li> <li>5. <i>International Conference on Recent Advances in Analytical Science (RAAS)</i>, April 7- 9, 2016, Department of Chemistry, IIT (BHU), Varanasi, India, (Poster Presentation).</li> <li>6. <i>International Conference on Advances in Biological System and Materials Science in NanoWorld (ABSMSNW)</i>, February, 19-23, 2017, Department of Physics, IIT (BHU), Varanasi, India, (Poster Presentation).</li> </ol>		
<b>National</b>		
<ol style="list-style-type: none"> <li>1. <i>National Symposium on Nanomaterials &amp; Sustainable Synthetic Strategies</i>, March 21-22, 2015, Department of Chemistry, BHU, Varanasi, India, (Poster Presentation)</li> <li>2. <i>18<sup>th</sup> CRSI-RSC National Symposium in Chemistry</i>, February 5-7, 2016, Punjab University, Chandigarh, India, (Poster Presentation).</li> <li>3. <i>20<sup>th</sup> CRSI-RSC National Symposium in Chemistry</i>, February 3-5, 2017, Guwahati University, Assam, India, (Poster Presentation).</li> </ol>		

### Workshop Attended

1. Summer School on Development and Characterization of Advanced Materials -2013, Physics, Department, B.H.U., Varanasi.
2. Training Programme on 'Latex and other open source Software-2013, DST-Centre for Interdisciplinary Mathematical Sciences, B.H.U., Varanasi.
3. Hands on Training Program on MATLAB-2014, DST-Centre for Interdisciplinary Mathematical Sciences, B.H.U., Varanasi.
4. Workshop on Understanding Statistics by MS-Excel and SPSS-2015, DST-Centre for Interdisciplinary Mathematical Sciences, B.H.U., Varanasi.
5. Workshop on Challenges & Opportunities towards Sustainable Energy & Environmental Technology in India-2022, NIT Uttarakhand, Srinagar (Garhwal).

### Total Research Publications: 10

#### Journals

1. *Kinetic and isotherm parameter determination for the removal of chromium from aqueous solutions by nanoalumina, a nanoadsorbent*, **Dubey, Shikha**; Gusain, Deepak; Sharma, Yogesh C., J. Mol. Liq., 219, 1-8, 2016. (Impact Factor= **6.633**)
2. *Application of common nanomaterials for removal of selected metallic species from water and wastewaters: A critical review*, **Dubey, Shikha**; Banerjee, Sushmita; Upadhyay, S.N.; Sharma, Yogesh C., J. Mol. Liq., 240, 656-677, 2017. (Impact Factor= **6.633**)
3. *Adsorption characteristics of alumina nanoparticles for the removal of hazardous dye, Orange G from aqueous solutions*, Banerjee, Sushmita; **Dubey, Shikha**; Gautam, R.K.; Chattopadhyay, M.C.; Sharma, Yogesh C., Arab. J. Chem., 12, 5339-5354, 2019. (Impact Factor= **6.212**)
4. *Facile and green synthesis of highly dispersed cobalt oxide (Co<sub>3</sub>O<sub>4</sub>) nano powder: Characterization and screening of its eco-toxicity*, **Dubey, Shikha**; Kumar Jay; Kumar, A.; Sharma, Yogesh C., Adv. Powder Technology, 29(11), 2583-2590, 2018. (Impact Factor= **4.969**)
5. *Optimization of removal of Cr by  $\gamma$ -alumina nano-adsorbent using response surface methodology*, **Dubey, Shikha**; Upadhyay, S.N.; Sharma, Yogesh C., Ecol. Eng., 97, 272-283, 2016. (Impact Factor= **4.379**)
6. *Studies on optimization of removal of orange G from aqueous solutions by a novel nano adsorbent, nano zirconia*, Gusain, Deepak; **Dubey, Shikha**; Upadhyay, S.N.; Weng, C.H.; Sharma, Yogesh C., J. Indus. Eng. Chem., 33, 42-50, 2015. (Impact Factor= **4.326**)
7. *Calotropis procera mediated one pot green synthesis of Cupric oxide nanoparticles (CuO-NPs) for adsorptive removal of Cr(VI) from aqueous solutions*, **Dubey, Shikha**; Sharma, Yogesh C., App. Organo. Chem, 31, 3849-3863, 2017. (Impact Factor= **4.105**)
8. *Optimization of reclamation of Ni(II)- rich solutions by  $\gamma$ -alumina nanoparticles*, **Dubey, Shikha**; Sharma, Gopesh C.; Sharma Yogesh C., J. Hazard. Toxic Radioact. Waste, 23, xx, 2019. (Impact Factor= **2.44**)
9. *Application of fly ash for adsorptive removal of malachite green from aqueous solutions*, **Dubey, Shikha**; Uma; Sujarittanonta, L.; Sharma, Yogesh C., Desalin. Water Treat., 53(1), 91-98, 2013. (Impact Factor= **1.23**)
10. *Adsorption Characteristics of a Low Cost Activated Carbon for the Removal of Victoria Blue from Aqueous Solutions*, Banerjee, Sushmita; Sharma, Gopesh C.; **Dubey, Shikha**; Sharma, Yogesh C., J. Mater. Env. Sci., 6(8), 2045-2052, 2015. (Impact Factor= **0.229**)

#### Book Chapters: 09

1. *The occurrence of various types of disinfectant by-products (trihalomethanes, haloacetic acids, haloacetonitrile) in drinking water*, **Shikha Dubey**, Deepak Gusain, Yogesh Chandra Sharma, and Faizal Bux, Disinfection By-products in Drinking Water, Elsevier, 2020.
2. *Introduction*, Deepak Gusain, **Shikha Dubey**, Faizal Bux, Yogesh Chandra Sharma, *Batch Adsorption Process of Metals and Anions for Remediation of Contaminated water*. CRC Press, Taylor & Francis, 2021.
3. *Adsorbents: Classification, Characteristics, Chemical Nature, and Interaction with Contaminants*, **Shikha Dubey**, Deepak Gusain, Faizal Bux, Yogesh Chandra Sharma, *Batch Adsorption Process of Metals and Anions for Remediation of Contaminated water*. CRC Press, Taylor & Francis, 2021.
4. *Impact of Factors on Remediation of Major Toxic Elements (Vanadium, Chromium, Nickel, Arsenic, Strontium, Cadmium, Mercury, Lead, Uranium) Via Batch Adsorption Process*, Deepak Gusain, **Shikha Dubey**, Faizal Bux, Yogesh Chandra Sharma, *Batch Adsorption Process of Metals and Anions for Remediation of Contaminated water*. CRC Press, Taylor & Francis, 2021.
5. *Remediation of Essential Elements Exerting Toxicity on Excessive Exposure (Mn, Co, Cu, Zn, Se) Via Batch Adsorption in Response to Variable Factors and Elucidation of the Mechanism for the Batch Adsorption Process*, Deepak Gusain, **Shikha Dubey**, Faizal Bux, Yogesh Chandra Sharma, *Batch Adsorption Process of Metals and Anions for Remediation of Contaminated water*. CRC Press, Taylor & Francis, 2021.

6. *Impact of Factors on Remediation of Miscellaneous (Fe, Cs) and Nontoxic Elements (Sc, Ti, Ga, Ge) Via Batch Adsorption Process*, Deepak Gusain, **Shikha Dubey**, Faizal Bux, Yogesh Chandra Sharma, *Batch Adsorption Process of Metals and Anions for Remediation of Contaminated water*. CRC Press, Taylor & Francis, 2021.
7. *Impact of Factors on Remediation of Anions (Fluoride, Nitrate, Perchlorate, and Sulfate) Via Batch Adsorption Processes*, Deepak Gusain, **Shikha Dubey**, Faizal Bux, Yogesh Chandra Sharma, *Batch Adsorption Process of Metals and Anions for Remediation of Contaminated water*. CRC Press, Taylor & Francis, 2021.
8. *Impact of Initial Concentration, Adsorbent Dose, and Ionic Strength on Batch Adsorption of Metals and Anions and Elucidation of the Mechanism*, Deepak Gusain, **Shikha Dubey**, Faizal Bux, Yogesh Chandra Sharma, *Batch Adsorption Process of Metals and Anions for Remediation of Contaminated water*. CRC Press, Taylor & Francis, 2021.
9. *Kinetic, Isotherm, and Thermodynamic Studies for Batch Adsorption of Metals and Anions, and Management of Adsorbents after the Adsorption Process*, Deepak Gusain, **Shikha Dubey**, Faizal Bux, Yogesh Chandra Sharma, *Batch Adsorption Process of Metals and Anions for Remediation of Contaminated water*. CRC Press, Taylor & Francis, 2021.