STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE

Title	DR.	First Name	**ANIRBAN**	Last Name	**DANDAPAT**	
Designation		**Assistant Professor**				
School /Dept. Name		**University School of Automation and Robotics (USAR)**				
Address:		Room No. A-503 University School of Automation and Robotics (USAR) Guru Gobind Singh Indraprastha University, East Campus Surajmal Vihar, Delhi-110092				
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Email		1. anirban.usar@ipu.ac.in		2. anidandapat85@gmail.com		
Web Page (if any)		https://sites.google.com/view/dandapatreasearchgroup/about?authuser=0				
Subjects Taught		Engineering Chemistry (B. Tech) Inorganic Chemistry (B. Sc and M. Sc) Environmental Chemistry (M. Sc) Analytical Techniques (M. Sc) Environmental Biotechnology (M. Sc)				
Areas of Interest/ Specialization		Nanomaterials: Green Synthesis; Environment Purification; Sensing; Catalysis; Photocatalysis; Thin Films				
Experience (in years)		Total	>12 Years			
		Industry				
		Teaching	07 Years 05 Months			
		Research	03 Years 09 Months			
Educational Qualifications		UG	Chemistry (Hons)			
		PG	Chemistry			
		Doctorate	Nanomaterials			
		Any other – Diploma in IPR	N/A			

Research Publications in Journals (last 5 years)	(*** represents corresponding author**) 1. Suresh Kumar, Megha Pant, Cherish Prashar, Kailash C Pandey, Subhasish Roy, Veena Pande, **Anirban Dandapat**,* Myco-synthesis of multi-twinned silver nanoparticles as potential antibacterial and antimalarial agents, **2024**, 14, 1114-1122. **(IF: 3.9)** 2. Nitish Semwal, Divya Mahar, Manjunath Chatti, Anirban Dandapat, Mahesh Chandra Arya, Adsorptive removal of Congo Red dye from its aqueous solution by Ag–Cu–CeO2 nanocomposites: Adsorption kinetics, isotherms and thermodynamics" Heliyon, **2023**, 9(11), e22027. **(IF: 4.0)** 3. Megha Pant, Suresh Kumar, Kumari Kiran, Narendra Singh Bisht, Veena Pande, **Anirban Dandapat**,* A universal green approach for the synthesis of NPS-codoped carbon quantum dots with enhanced broad-spectrum antibacterial and antioxidant activities. RSC advances, **2023**, 13(14), 9186-9194. **(IF: 3.9)** 4. Narendra Singh Bisht, Ankita H. Tripathi, Megha Pant, Nanda Gopal Sahoo, S.P.S. Mehta, **Anirban Dandapat***, A Facile Synthesis of Palladium Nanoparticles Decorated Bismuth Oxybromide Nanostructures with Exceptional Photo-antimicrobial Activities, , *Colloids and Surfaces B: Biointerface,* **2022,** *217*, 112640**. (IF: 5.8)** 5. Neema Pandey, Bhashkar S. Bohra, Himani Tiwari, Mintu Pal, Pushpa Bhakuni Negi, **Anirban Dandpat,** S. P. S. Mehta, Nanda Gopal Sahoo, Development of Biodegradable Chitosan/ Graphene Oxide Nanocomposite via Spray Drying Method for Drug loading and Delivery Application, *Journal of Drug Delivery Science and Technology*, **2022,** *74*, 103555. **(IF: 5.0)** 6. Nirvik Sahoo, Gaurav Tatrari, Chetna Tewari, Manoj Karakoti, Bhashkar Bohra, **Anirban Dandapat*,** "Vanadium Pentaoxide Doped Waste Plastic Derived Graphene Nanocomposite for Supercapacitors: A Comparative Electrochemical Study of Low and High Metal Oxide Doping", RSC Advances, **2022**. *12*, 5118-5134. **(IF: 3.9)** 7. Sunil Dhali, Sandeep Pandey, **Anirban Dandapat**, Tapan Sahoo, P. S. Sahu, Biswajit Saha, Nanda Gopal Sahoo, Pd-Fe2O3 Decorated Nitrogen-Doped Reduced Graphene Oxide/CNT Nanohybrid as Electrocatalyst for Proton Exchange Membrane Fuel Cell, Diamond & Related Materials, **2022**, *126*, 109115. **(IF: 4.1)** 8. Aman Kumar, Suresh Kumar, Kumari Kiran, Sabyasachi Banerjee, Veena Pande and **Anirban Dandapat*** "Myco-nanotechnological approach to synthesize silver oxide nanocuboids using endophytic fungus isolated from *Citrus pseudolimon* plant" *Colloids and Surfaces B: Biointerfaces*, **2021**, *206*, 111948 **(IF: 5.8)** 9. Narendra S. Bisht, S.P.S. Mehta, N. G. Sahoo, **Anirban Dandapat,* "**The Room temerature synthesis of CuO-Bi-BiOBr ternary Z-scheme photocatalyst for enhanced sunlight driven alcohol oxidation", Dalton Transactions, **2021**, *50*, 5001-5010 **(IF: 4.0)** 10. Deepika Pancholi, Narendra S. Bisht, Veena Pande and **Anirban Dandapat*** "Development of Novel BiOBr0.75I0.25 Nanostructures with Remarkably High Dark Phase Bactericidal Activities". *Colloids and Surfaces B: Biointerfaces*, **2021**, 199, 111558 **(IF: 5.8)** 11. Bhawana Bisht, Deepika Pancholi, Veena Pande and **Anirban Dandapat*** "A green approach to synthesize Au nanoplates using

	Morus indica L. fruit extract and their superior activities in catalysis and surface enhanced Raman scattering". Vegetos, **2021,** 34, 867-875. **(Publisher:** Springer Nature**)** 12. Gaurav Tatrari, Manoj Karakoti, Chetna Tewari, Sandeep Pandey, Bhaskar S. Bohra, **Anirban Dandapat** and Nanda G. Sahoo, "Solid waste derived carbon nanomaterials for supercapacitor application: A recent overview", *Materials Advances*, **2021**, 2, 1454-1484. **(Publisher:** Royal Society of Chemistry**) (IF: 5.0)** 13. Narendra S Bisht, Deepika Pancholi, Nanda G. Sahoo, Anand B. Melkani, SPS Mehta, **Anirban Dandapat*,** "Effect of Ag–Fe–Cu tri-metal loading in bismuth oxybromide to develop a novel nanocomposite for the sunlight driven photocatalytic oxidation of alcohols", Catalysis Science & Technology, 2019, 9, 3923-3932. (**HOT Article**) (**IF: 5.0**)
Patents Granted/Filed (last 5 years)	1. **Anirban Dandapat**, Deepika Pancholi, Narendra S. Bisht, Veena Pande, Sandip Pandey, Nanda Gopal Sahoo, 2020. A Process to Synthesize Crystalline BiOBr/BiOI Solid Solution Nanostructures (Indian Patent Application Number: 202011040517) 2. N. G. Sahoo, Chetna Tewari, Sandeep Pandey, Gourav Tatrari, Anita Rana, Himani Tiwari, **Anirban Dandapat**, **2021**. Graphene based Nanomaterials Derived from Drepanostachyum falcatum for Water Purification (Australian Patent: 2021104582) 3. Kim Donghwan, **Anirban Dandapat**, **2017** "Hierarchical Ag structure and method for preparing the same" (Korea patent: 10-1792437)
Papers Published in Conference Proceedings(last 5 years)	
Books Authored/ BookVolume Chapters	1. Sunil Dhali, Manoj Karakoti, **Anirban Dandapat**, Nanda Gopal Sahoo, Synthesis of graphene from waste plastic and its applications, **2023**, Chapter-3, pp 55-76. (Elsevier) (ISBN 9780323909143,) 2. Ankita H. Tripathi, Narendra Singh Bisht, Santosh K. Upadhyay, **Anirban Dandapat*** Advancement towards Sustainable Management and Utilisation of Agriculture Wastes in the Global Economy, **2022**, Chapter 4, pp: 73-100 (**Nova Science Publishers, USA**) (ISBN: 978-1-68507-369-5) 3. Bhawana Bisht, Aman Kumar, Mahesh Chandra Arya, Veena Pande and **Anirban Dandapat*** The Role of Nanotechnology in Water Quality Management and Waste Water Treatment, **2022**, Chapter 10, pp: 249-294 (**Nova Science Publishers, USA**) (ISBN: 978-1-68507-369-5) 4. Nitish Semwal, Preeti Kapri, **Anirban Dandapat** and Mahesh Chandra Arya, Water Pollution and Its Treatment: From Conventional to Novel Methods, **2022**, Chapter 10, pp: 437-458 (**Nova Science Publishers, USA**) (ISBN: 978-1-68507-369-5) 5. Nitish Semwal, **Anirban Dandapat**, Manjunath Chatti and Mahesh

<table>
<tr><td></td><td colspan="4">Chandra Arya, Metal-Doped Cerium Oxide Nanoparticles: Efficient and Eco-Friendly Photocatalysts for the Degradation of Dyes, 2022, Chapter 3, pp: 93-116 (Nova Science Publishers, USA) (ISBN: 978-1-68507-928-4)
6. Gaurav Tatrari, Manoj Karakoti, Mayank Pathak, Anirban Dandapat, Tanmoy Rath, Nanda Gopal Sahoo, Quantum Dots based Materials for New Generation Supercapacitors Application: A Recent Overview, 2021, (96), chapter-9, pp:215-250 (Materials Research Forum LLC, USA) (ISBN: 978-1-64490-125-0)
7. Suresh Kumar, Megha Pant, Veena Pande and Anirban Dandapat*, Endohytic Fungi: A Potent Biofactory to Produce Biologically-active Natural Products, 2020 (Nova Publishers, USA) (ISBN: 978-1-53618-140-1)
8. Megha Pant, Deepika Pancholi, Veena Pande, Anirban Dandapat*, Immunochromatographic Strip Based Sensor for the Detection of Water Pollutants. 2020, chapter 13, pp: 233-253. DOI: 10.1007/978-981-15-0671-0_13 (Springer, Singapore)
9. Manoj Karakoti, Sandeep Pandey, Anirban Dandapat, Suman Mahendia, Nanda Gopal Sahoo, Polyethylenedioxythiophene (PEDOT) based supercapacitor applications, 2019, Chapter 15, pp: 235-254 (CRC Press)</td></tr>
<tr><td rowspan="3">No. of Conferences</td><td rowspan="2">National</td><td colspan="2">Attended</td><td>Organized</td></tr>
<tr><td colspan="2">10</td><td>--</td></tr>
<tr><td>International</td><td colspan="2">07</td><td>01</td></tr>
<tr><td rowspan="3">Research Guidance</td><td rowspan="2">Awarded</td><td>PG</td><td>M. Phil</td><td>Doctorate</td></tr>
<tr><td>11</td><td>--</td><td>01</td></tr>
<tr><td>Undergoing</td><td>--</td><td>--</td><td>02</td></tr>
<tr><td rowspan="2">Research Projects</td><td>Completed</td><td colspan="3">02 (Sponsored by DST, Govt. of India &)</td></tr>
<tr><td>Undergoing</td><td colspan="3">NIL</td></tr>
<tr><td>Awards & Distinctions</td><td colspan="4">➢ Received Prof. K. S. Valdiya Research Award (2022) by Kumaun University, Nainital
➢ Member, American Chemical Society, 2019
➢ Selected for DST-INSPIRE Faculty Award held on January, 2016.
➢ PBC Postdoctoral Fellowship 2015 (Most prestigious postdoctoral fellowship of Israel)
➢ Chairing a session at the International Conference on Advanced Polymeric Materials (ICAPM 2017) held during 7-9 April 2017at Mahatma Gandhi University, Kottayam, Kerala, India.
➢ Delivering invited lecture at several national/international conferences.
➢ Best Poster Award in the International Conference on Nano</td></tr>
</table>

	Science and Technology (ICONSAT 2012) during January 20–23, 2012 at ARCI, Hyderabad ➢ Best Poster Award in National Review and Coordination of NANO Mission Council, DST held on February 25-27, 2011 at IIT Delhi ➢ Best Poster Award in 20th AGM of Materials Research Society of India (MRSI) held on 10-12th February, 2009 at SINP, Kolkata ➢ Qualified CSIR-NET (2007) for Junior Research Fellowship (JRF) and eligibility for lectureship ➢ Qualified Graduate Aptitude Test in Engineering 2007 (GATE), Indian Institute of Technology, India ➢ Received Four Best poster awards/Young Scientist Awards by PhD students (under my guidance) at different National/International Conferences: **Young Scientist Award** by Ms. Deepika Pancholi at the 2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environmental Management (ICEFN & SEM-2019), Nainital, Uttarakhand, India. **First Prize by** Ms. Megha Pant at the 3rd International Conference on Global Initiative in Agriculture, Forestry and Allied Sciences for Food Security, Environmental Safety and Sustainable Development (GIAFAS-2021) held during 17-18 October 2021 at Shri Guru Ram Rai University, Dehradun, Uttarakhand, India **Second Prize** by Megha Pant at the 2nd International e-Conference on Advances in Agriculture, Technology and Allied Sciences for Sustainable Development (aTsD-2021) held during 09-10 October 2021 at Graphic Era Hill University, Dehradun, Uttarakhand, India. **Young Scientist Award** by Suresh Kumar at 16th Uttarakhand State Science and Technology Congress 2021-22 held during 22-24 Jun, 2022 at Graphic Era University, Clement Town, Dehradun, Uttarakhand, India.
Administrative Assignments Handled	
Association with Professional Bodies	
Any other Achievements	