




Faculty Profile on University Website

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महात्मा ज्योतिबा फुले
रुहेलखण्ड विश्वविद्यालय, बरेली

Title	Dr.	First Name	Anil	Last Name	Kumar	
Designation	Assistant Professor					
Department	Physics					
Address	Department of Physics					
(Campus)	Constituent Degree College Hasanpur Amroha					
(Residence)						
Phone No						
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(Residence)						
Mobile	6393572349					
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Web-Page						
Educational Qualifications (Graduation Onwards)						
Course/Degree	Institution			Year	Details/Thesis Topic/Subjects	
B.Sc.	University of Allahabad Prayagraj			2013	Maths and Physics	
M.Sc.	Banaras Hindu University Varanasi			2015	Physics	
Ph.D.	Motilal Nehru National Institute of Technology			2022	Wet-Chemical Synthesis and Characterizations of Some Electrochromic Transition Metal Oxide Thin Films for Smart Window Applications.	
Career Profile						
Organization / Institution		Designation	Duration		Role	
Research Interests / Specialization						
<p>In recent years there has been an enormous increase in the global demand for energy owing to population growth and an increase in quality of life. Therefore, to achieve specific energy and environment-related goals in building architecture. EC smart windows must exhibit favorable performance in all dimensions such as thermal, optical, and electrical properties. My research goal is to enhance the electrochromic performance of Transition Metal Oxides by incorporating appropriate dopants in host lattice.</p>						
Teaching Experience (Subjects/Courses Taught)						
<p>-Physics lab and Tutorial classes for undergraduate students, in the Department of Physics, MNNIT Allahabad for two semesters in the academic session 2018-2019, 2019-2020.</p> <p>-Working as Assistant Professor in Physics at constituent Government Degree College in the academic session 2022-2023 to till date.</p>						
Honors & Awards						
<p>-Graduate Aptitude Test in Engineering (GATE) Qualified 2020, conducted by IIT Delhi India.</p> <p>-Graduate Aptitude Test in Engineering (GATE) Qualified 2015, conducted by IIT Kanpur India.</p> <p>-Junior Research Fellowship and Senior Research Fellowship during 2017-2021 sponsored by</p>						

Ministry of Education Government of India.								
-All India Rank 184 in CSIR NET 2022, conducted by National Testing Agency (NTA).								
Publications /Academic Activities (Numbers Only)								
Books & Monographs (Single Author)		Research Papers Published in International Journals		Papers Presented in Seminars/ Conferences		Seminars/ Conferences Organized		Research Projects (Completed)
Books (Co-authored)		Research Papers Published in Other Journals		Seminar/ Conferences Attended		Workshops Organized		Research Projects (Ongoing)
Books (Edited)		Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.		Sessions Chaired in Seminars/ Conferences		Membership of Academic/ Professional Bodies		Foreign Countries Visited for Academic Assignments
Chapters in Edited Books				Resource Lectures Delivered				
Details of Publications /Academic Activities (2010 Onwards)								
(a) Books / Monographs								
Year of Publication	Title			Publisher	ISBN	Co-Author (s) (if any)		
(b) Papers Published in Indexed/ Peer Reviewed Journals								
Year of Publication	Title			Journal	ISSN/ Indexing	Co-Author (s) (if any)		
2019	“Modification in the microstructural and electrochromic properties of spray-pyrolysed WO ₃ thin films upon Mo doping			Journal of Sol-Gel Science and Technology	https://doi.org/10.1007/s10971-019-04960-1	Anil Kumar, Chandra Shekhar Prajapati, P.P. Sahay		
2019	Results on the microstructural, optical and electrochromic properties of spray deposited MoO ₃ thin films by the influence of W doping			Materials Science in Semiconductor Processing	https://doi.org/10.1016/j.msps.2019.104668	Anil Kumar, Chandra Shekhar Prajapati, P.P. Sahay		
2019	Microstructural, optical and electrochromical properties of W-doped Nb ₂ O ₅ thin films prepared by dip-coating process using sols obtained by the chloroalkoxide route			Journal of Materials Science: Materials in Electronics	https://doi.org/10.1007/s10854-019-02153-8	Anil Kumar, P.P. Sahay		
2020	Influence of Ti doping on the microstructural and electrochromic properties of dip-coated nanocrystalline V ₂ O ₅ thin films			Journal of Sol-Gel Science and Technology	https://doi.org/10.1007/s10971-020-05298-9	Anil Kumar, P.P. Sahay		
2021	Lithium doping in spray-pyrolyzed NiO thin films: results on their microstructural, optical and electrochromic properties			Applied Physics A	https://doi.org/10.1007/s00339-021-04436-6	Anil Kumar, P.P. Sahay		
2022	Precursor-Dependent Spray-Pyrolyzed Co ₃ O ₄ Thin Films: Comparative Results on Their			Brazilian Journal of Physics	https://doi.org/10.1007/s13538-022-	Anil Kumar, P.P. Sahay		

	Structural, Optical, and Electrical Properties		01108-5	
<u>(c) Articles</u>				
<u>(d) Seminar/Conference Presentations</u>				
<p>-Poster presentation: International Conference on Emerging Trends in Nanomaterials Science and Technology (ICETNMST-2022), January 27-29, 2022. Organized by Department of Science and Humanities NIT Nagaland India.</p> <p>-Poster presentation: 64th DAE Solid State Physics Symposium, December 18 22, 2019, at IIT Jodhpur, Rajasthan India Organized by Bhabha Atomic Research Centre, Mumbai, India.</p> <p>-Oral presentation: International Conference on Current Trends in Materials Science and Engineering (CTMSE2019) during July 18-20, 2019, held at S. N. Bose National Centre for Basic Sciences, Kolkata, India.</p> <p>-Oral presentation: National Conference on Recent Advances in Material Science and Electronics (RAMSE-2019) during February 27-28, 2019, held at Department of Physics and Electronics, Dr. Ram Manohar Lohia Avadh University, Ayodhya, India.</p> <p>-Poster presentation: National Conference on Advanced Nanomaterials and their Applications (ANA-2018) during December 21-23, 2018, held at Department of Physics, Motilal Nehru National Institute of Technology Allahabad, India</p> <p>-Poster presentation: International Conference on Frontiers in Chemical Sciences 2018 (FICS 2018) during December 6-8, 2018, held at Department of Chemistry, IIT Guwahati, India.</p> <p>-Poster presentation: Research Scholar Symposium and ChEmference during May 19- 20, 2018, held at Department of Chemical Engineering, IIT Bombay, India.</p> <p>-Attended one week course on “X-Ray Absorption Spectroscopy and its Application to Nanomaterials” (XASAN-2017) held at Department of Physics, MNNIT Allahabad, India, December 21-28, 2017.</p> <p>-Attended one week GIAN Course on Experimental Techniques for Nonmagnetic Materials (ETNM-2017). Oct.30-Nov. 04, 2017, Organized by Department of Physics, MNNIT Allahabad India.</p>				
<u>(e) Resource Lectures Delivered</u>				
<u>(f) Seminars/Conferences/Workshops Organized</u>				
<u>(g) Public Service / University Service / Consulting Activity</u>				
<u>(h) Memberships of Academic/Professional Bodies</u>				
<u>Indian Solid State Ionics Society</u>				
Projects (With Title, Year, Grants, Funding Agency and Collaborations)				

Administrative Positions/Assignments Held
Student Representative in Department Doctoral Programme Committee (DDPC) in the academic session 2020-2021, Department of Physics, Motilal Nehru National Institute of Technology Allahabad Prayagraj.
Academic Foreign Visits
Any Other Details



Signature of Faculty Member