



Faculty Profile

Title:	Dr	First Name: Rakesh	Last Name: Pant	
Designation:	Assistant Professor			
Department:	Chemistry			
Address:	Shakti Nagar, Delhi 110007			
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Web-Page:				

Educational Qualifications (from Bachelor's Degree):			
Degree	Subject	University/ College/Institution	Year
BSc(Hons)	Chemistry	Kirori Mal College, University of Delhi	2011
MSc	Chemistry	IIT, Roorkee	2013
PhD	Chemistry	IISER, Pune	2020

Experience:					
	Name of the University/College/ Institute/Organisation	Designation & Status (Permanent/ Ad-hoc)	From	To	Effective Time Period
Teaching					
Research/ Corporate	IIT, Bombay	Contractual	Aug-2020	Aug-2022	Two Years
Consultancy					

Teaching - Learning Process (During the Academic Year 2019-2020)		
Are You using ICT (LMS, E- Resources)?	If Yes, Please give the details below:	
	Name	Total Numbers
E- Resources		
Techniques and Platforms		

Career Advancement and Contribution to College Corporate Life (Last three years till June 2020):				
	Name of the Committee/ Centre/ Society/ Cell	Designation	From	To
Convenor/Member of Committees				
Any Other Administrative Responsibility (Bursar, Coordinator, Superintendent etc.)				

Areas of Interest/Specialisation:	
S.No.	Areas of Interest/ Specialisation
1	Physical Chemistry
2	Computational Chemistry

Subjects Taught (During the Academic Year 2019-2020)			
S.No.	Subject	S.No.	Subject

Publications: Citation Index in Scopus/Web of Science or Pub Med/ Indian Citation Index

Title of Paper	Name of the Author	Title of the Journal	Year of Publication	Citation Index	h-Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations	Impact factor, if any	
Pair Natural Orbital Equation-of-Motion Coupled-Cluster Method for Core Binding Energies: Theory, Implementation, and Benchmark.	Rakesh Pant ; S Ranga; A Bachhar, and A K Dutta	<i>J. Chem. Theory Comput.</i>	2022			IIT, Bombay	1	6.5	Before June 2022
Ultrafast Proton-Transfer Reaction in Phenol-(Ammonia) _n Clusters: An Ab Initio Molecular Dynamics Investigation	R K Singh, Rakesh Pant , and G. N. Patwari	<i>J. Phys. Chem. B</i>	2022			IIT, Bombay	1	3.46	
Isolation of a Telluroxane Cluster [(R ₂ TeO)(μ-TeO ₂)(OTeR ₂)] [TeO(OH) ₂] (R=C ₆ H ₅ NNC ₆ H ₄) Stabilized by Intra- and Intermolecular Secondary Bonding Interactions: Molecular and Electronic Structure Analysis	R Deka; Rakesh Pant ; et al.	<i>Polyhedron</i>	2021			IIT, Bombay	0	3	
Computational Investigation of a Protic Ionic Liquid doped Polybenzimidazole Fuel Cell Electrolyte	Rakesh Pant et al.	<i>Journal of Molecular Liquids</i>	2020			IISER, Pune	7	6.6	July 2019 - June 2020
Charge delocalization effects on Nafion structure and water/proton dynamics in hydrated environments	Rakesh Pant et al.	<i>Fluid Phase Equilibria</i>	2020			IISER, Pune	1	2.7	
Nanostructure and Dynamics of Humidified Nafion-Graphene Oxide Composites via Molecular Dynamics Simulations	G Kritikos, Rakesh Pant , et al.	<i>J. Phys. Chem. C</i>	2018			IISER, Pune	9	4	

Quantum Mechanical Investigation of Proton Transport in Imidazolium Methanesulfonate Ionic liquid	Rakesh Pant, Milan Kumar, and Arun Venkatnathan	<i>J. Phys. Chem. C</i>	2017			IISER, Pune	4	4	July 2015 -June 2018
Atomistic simulation study of the hydrated structure and transport dynamics of a novel multi-acid side chain polyelectrolyte membrane.	S Sengupta, Rakesh Pant et al.	<i>Int. J. Hydrog.</i>	2017			IISER, Pune	14	7	
Synthesis, Characterization, and Luminescence Studies of Gold(I) Complexes with PNP- and PNB-Based Ligand Systems	S Pal, N Kathewad, Rakesh Pant et al.	<i>Inorg. Chem.</i>	2015			IISER, Pune	25	5.4	
Thermochromic and Mechanochromic Luminescence Umpolung in Isostructural Metal–Organic Frameworks Based on Cu ₆ I ₆ Clusters	M S Deshmukh, A Yadav, Rakesh Pant et al.	<i>Inorg. Chem.</i>	2015			IISER, Pune	130	5.4	

Books and Chapters in edited Volumes/Books published, and paper in National /International conference Proceeding per teacher during the Year

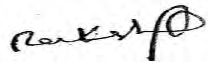
Title of Book/Paper/ Book Chapter	Publisher	National/International	Year	
Multiscale Modeling Examples: New Polyelectrolyte Nanocomposite Membranes for Perspective Fuel Cells and Flow Batteries	Springer, Cham.	International	2021	Before June 2022

Conference/ Seminar/ Symposium/ Workshop/ Presentation:

Sr. No.	National/ International/state	Topic of the Conference/Seminar/Workshop	Paper Presentation/Attend/ Resource Person	Date	Duration	
1	National	IISER Parallel Computing Workshop	Attend	2014	3 Days	Before June 2018
2	International	Theoretical Chemistry Symposium	Attend, Resource Person	2014	4 Days	
3	International	Frontiers in Electronic Structure Theory	Attend	2015	3 Days	
4	National	Ionic Liquids for Clean Energy and Environment	Attend	2015	2 Days	
5	International	International Conference on Polymer Science and Technology	Attend, Resource Person	2018	4 Days	July 2018 -June 2019

Research Projects/ Innovation Projects (Major Grants/Research Collaboration):

S.No.	Title of the Project	Funding Agency	Status/Output

Research Guidance (Ph. D./ M. Phil.):				
	No. of Ph.D. Students	No. of M.Phil. Students		
Awarded				
Submitted				
Under Progress				
Fellowships/Awards /Distinctions/Recognitions:				
Year of Award	Name of the Fellowship/Award/ Distinction/ Recognition	Desination	Name of the Academic Bodies /Association	International /National/ State
Incentive to the teachers who receive recognition/awards				
State	National		International	
Association with the Professional Bodies:				
	Name of the Organisation ²		Year	
Membership				
Any Other				
Development of E-Learning Delivery Process/Material:				
S.No	Title of the Module	Recognised by/Submitted at/ Delivered at any government setup		
Refresher/ Orientation Programme/ FDP / Other Specialised Courses:				
S.No.	Topic	Name of the Organiser	Place	Duration and Year
Declaration				
I do hereby solemnly declare that the information given and the statements made by me are correct and true to the best of my knowledge				
			 (Dr Rakesh Pant) Signature with Full Name	