



Faculty Profile on University Website

www.mjpru.ac.in

Title	Prof./Dr./Mr./ Ms. Dr.	First Name	Sushm ita	Last Name	Gupta	Photograph
Designation		Associate Professor				
Department		Applied Chemistry				
Address	Campus	-				
	Residence	House no. 420, Sadar, Cantt. , Bareilly. 243001.				
Mobile No.		9412328099				
Email ID		Personal	drsushmitagupta12@gmail.com			
		University Domain	drsushmitagupta12@gmail.com			
Professional Networking ID, i.e. Linkedin, Twitter etc.		Zoom	drsushmitagupta12@gmail.com			
		Facebook				
Educational Qualifications (Graduation Onwards)						
Course/Degree		Institution	Year	Details/Thesis Topic/Subjects		
B.Sc. (Hons.)		B.H.U., Varanasi	1993 1995	Botany, Zoology, Chemistry		
M.Sc.		B.H.U., Varanasi	1999	Organic Chemistry		
Ph.D.		B.H.U., Varanasi	1996	Preparation, Characterization and Electrical Conductivity of Monometallic and Bimetallic Complexes of Nitrogen and Sulphur Ligands. Life Sciences		
GATE		MHRD, Govt. of India.				
Career Profile						
Organization / Institution		Designation	Duration	Nature of Duties		

M.J.P.R. University, Bareilly	Assistant professor Stage 1	From 11-07-2007 to 31-08-2013	Teaching , research and other academic &administrative activities
M.J.P.R. University, Bareilly	Assistant professor Stage 2	From 01-09-2013 to 31-08-2018	Teaching , research and other academic &administrative activities
M.J.P.R. University, Bareilly	Assistant professor Stage 3	From 01-09-2018 to 31-08-2021	Teaching , research and other academic &administrative activities
M.J.P.R. University, Bareilly	Associate professor	From 01-09-2021 to 31-8-2021	Teaching , research and other academic &administrative activities

Research Interests / Specialization

Co-ordination complexes and their applications as Semiconductor molecular materials and sensitizer for Dye Sensitized Solar Cells .Biological Applications of coordination complexes.

Research Experiencein Years 19 years except Ph.D.

No of Research Scholars Successfully Guided 06 [03 (Degree awarded) +03 (working)]

Name of Programme	Awarded	Under Supervision
Ph.D.	03	03
M.Phil.	NA	
Dissertation (M.Ed./M.A.)	09	

Researcher/ Expert ID	Scopus	Orchid	Publons	Vidwan	Google Scholar
		https://orcid.org/0000-0002-2321-9043			

Teaching Experience (Subjects/Courses Taught)									
B.Tech. : Engineering Chemistry, Applied Organic Chemistry& Environmental Studies- 19 years									
M.Sc. : Applied Organic Chemistry, Physical Chemistry I ,Analytical Chemistry and Bio-inorganic Chemistry- 19 years									
Ph. D. Course work ; Analytical Chemistry and Bio-inorganic Chemistry									
Honours/ Awards & Fellowship FOR OUTSTANDING WORK FOREIGN ASSIGNMENT PANEL, GOVT. OF INDIA (YEAR:1996)									
Name of Award/ Fellowship		Awarded By							
		Name of Governmental Agency		Name of Government Supported Organization/ Department		Name of International Recognized Body			
Enrolment in : Foreign Assignment Panel		Govt. of India							
Banaras Hindu University Research Scholarship		Banaras Hindu University		Department of Chemistry					
Junior Research Fellowship		Institute of Vegetable Research, Varanasi.		I.C.A.R .					
Publications /Academic Activities (Numbers Only)									
Books & Monograph s (Single Author)		Research Papers Published in International Journals	21	Papers Presented in Seminars/ Conferences	14	Seminars/ Conferenc es Organized	02	Research Projects (Comple d)	02
Books (Co- authored)		Research Papers Published in Other Journals	1	Seminar/ Conferences Attended	17	Worksho ps Organize d	01	Research Projects (Ongoing)	
Books (Edited)		Articles Published in Popular Fora,	01	Sessions Chaired in Seminars/ Conferences		Membersh ip of	01	Foreign Countries Visited for	
Chapters in	05								

Edited Books	e.g., Websites, Blogs, Newspapers, Magazines etc.	Resource Lectures Delivered	Academic/ Professional Bodies	Academic Assignments
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Details of Publications /Academic Activities (2010 Onwards)

(a) Authored Books/ Monographs

Name of Book	Year of Publication	Publisher	ISBN No

(b) Edited Books

Book chapter/Paper Published in Edited Books

Year of Publication	Title (Book Chapter) and Edited book	Publisher	ISBN	Co-Author (s) (if any)
2020	Symptoms,transmissions and pathogenesis of Covid-19	In Sc Publishing House	9788194637028	Anjali Sharma,Vikky Singh
2021	Post Covid-19 work emerging HR-skills.	Orange Book Publication	978-93-90489-1	Anjali Sharma,Vikky Singh
2021	Covid-19 :Community transmission and herd immunity	Lexicon International Publisher	978-81-9491470-9	Anjali Sharma,Vimal Kumar,Sunita Singh , Navneet Singh
2021	Covid-19:Clinical management with corticosteroids	Lexicon International Publisher	978-81-9491470-1	S.B.Tiwari S.D Singh,Deepak Tripathi
2022	Research Compendium 2015-2021. (Edited book)	Astral Press	978-93-5222-161-5	SudhirKumar (Chief Editor),Sushmita Gupta,Gaurav Kumar,Iram Naim , Lalit Kumar Pandey

(c)

(b) Papers Published in Indexed/ Peer Reviewed Journals

Year of Publication	Title	Journal	ISSN/ Indexing	Co-Author (s) (if any)
2013	Basic Concept for development of dye sensitized solar cells	International Journal of Creative Research Thoughts	2320-2882	

2013	Prodrug of 5-FU for cancer therapy	International Journal of Creative Research Thoughts	2320-2882	Ritu Rathore and Jay Devee Gangwar
2017	A Saga of Women Health.	International Journal of Creative Research Thoughts	2320-2882	Preeti Mishra and Amit Verma
2018	Dye Sensitized Solar Cells as Futuristic Green Energy Technology	International Journal of Creative Research Thoughts	2320-2882	Samarveer Singh ,Deepshikha and Vikky Singh
2018	Synthesis,Characterization and Electrical Behaviour of some Chalcone based Heterobimetallic Complexes of Dithio Ligands	International Journal of Creative Research Thoughts	2320-2882	Vikky Singh, Samarveer Singh Ritu Rani Chaudhary and Amit Verma
2018	Design and Spectroscopic Characterization of Some Novel Tetrazolium Formazan Based Transition Metal Complexes	International Journal of Creative Research Thoughts	2320-2882	Deepshikha Samarveer Singh and Vikky Singh
2019	Preparation of Novel Sanitizer from the Ethanol Obtained from Potato Starch	International Journal of Creative Research Thoughts	2320-2882	Amit Verma Vikky Singh
<u>2019</u>	Synthesis ,Characterization and Electrical Conductivity of Transition Metal Complexes of Trithio Carbonate and Chalcone based Ligands	Stochastic Modeling and Applications	0072-3641	Vikky Singh,Deepshikha and Samarveer Singh
2020	Synthesis Characterization and Electrical Conductivity of Transition Metal Complexes of Trithio Carbonate and Phenol Thiourea based Ligands	Solid State Technology	0032-111X	Vikky Singh,Samarveer Singh,Amit Verma and Ritu Rani Chaudhary
2021	Synthesis,Characterization and Solid State Conductivity of Nitro Phenol Benzaldehyde Urea based Ligand and Trithio Carbonate	Materials Today Proceedings	2314-7853	Vikky Singh,Samarveer Singh,,Amit Verma and Ritu Rani Chaudhary
2021	Enhancement of Photogalvanic Effect of Toluidine Blue Dye Using Sodium Lauryl Sulphate as an Efficient Additive for Solar Energy Conversion and Storage	Asian journal of Chemistry	0970-7077	Samarveer Singh, Vikky Singh,Deepshikha
2022	In -silico ligand and structure based design of HIV-1protease as inhibitors: history, current and future.	Research Journal of Pharmacy and Technology	0974-3618	S. Ramasamy, Amit Verma and Ritu Rani Chaudhary
2022	Design of some novel dithio pai conjugated ligand based metal complexes and their semiconductor behaviour.	International Journal of Health Sciences	2550-6978	Samarveer Singh,Biplab

				Kumar Kuila and Vikky Singh
2022	Review:Perovskite structure, Characterization and synthetic methods	International Journal of Mechanical Engineering	0974-5823	Deepshikha,R.R. Chaudhary and Vikky Singh
2022	Review:Perovskite Materials,properties and their multifunctional applications.	International Journal of Mechanical Engineering	0974-5823	Samarveer Singh,Ritu Rani Chaudhary and Vikky Singh
2022	Quinoline derivative and their pharmacological and medicinal potential.	International Journal of Health Sciences	2550-6978	Preeti Mishra,Avinash Kumar,Umesh Chand Sharma,Ankit Saxena A.Elphine Prabahar and Amit Kumar Verma
2024	Research development and future aspects of quantum dot and perovskite sensitized solar cells .	International Research Journal of Pure and Applied Chemistry	2231-3443	Pravendra Kumar,Brijesh and Rudrani
2026	Scalable Perovskite Solar Cells: Challenges Toward Commercial Development	The Academic	2583-973X	Prashant Kumar Pal, Sushmita Gupta, Pravendra Kumar, Brijesh
2026	Perovskite Solar Cells: Progress , Challenges and Future Prospects	The Academic	2583-973X	Prashant Kumar Pal, Sushmita Gupta, Pravendra Kumar, Brijesh
2026	Perovskite Solar Cells as an Advanced Solar Technology	Research Journal of Chemical Sciences	2231-606X	Prashant Kumar Pal, Sushmita Gupta, Pravendra Kumar, Brijesh
2026	Formazan Based Coordination Complexes as Emerging Wide Band Gap Semiconductorsfor Opto electronic Applications	Rasayan Journal of Chemistry	0974-1496	Deepshikha, Sushmita Gupta, Vikky Singh, Samarveer Singh, Pravendra Kumar, Brijesh , Prashant Kumar Pal

(c) Articles

Boond -boond jahareela dansh, article published in Dainik Jagaran, (news paper) in 1996.

(d) Seminar/Conference Presentations

1. Poster Presentation on the title:Review: Perovskite Materials,properties and their multifunctional applications., in the International Conference on Recent Advances in Futuristic Materials at ASRD College,(University of Delhi) , held on 14-16 March'2022.
- 2.Poster presentation on the title:Perovskite,structure,characterization and synthetic methods, in International Conference on Recent Advances in Futuristic Materials at ASRD College (University of Delhi),held on 14-16 March'2022.

3. Paper presentation on the title : Preparation, Characterization and Photovoltaic Applications of Metal Formazan Complexes, in International Conference on Advanced Futuristic Materials for Sustainable Society, Chandigarh School of Business, Jhanjeri, Mohali., held on 22 August '2022.
4. Poster presentation on the title: Synthesis, Spectroscopic Characterization and Study of Copper (II) Complexes , in International Conference on Advanced Futuristic Materials , held on 22 August '2022.
5. Paper presentation on the title: Sahitya aur Rashtrawad in Anter rashtriya Shodh-Sangoshthi, Vrindavan , held on 12-13 Feb. '2022.
6. Paper presentation on the title: Rashtriya Chetana ke Vikas me Sahitya , in Anter rashtriya Shodh-Sangoshthi, Pilibhit, held on 11-12 Dec. '2022.
6. Paper presentation on the title: Advancement of Perovskite Sensitized Solar Cells as Emerging Renewable Energy Solution , in International Conference: 3rd Virtual Congress on Material Science and Engineering held on London at 27 Sept. - 1 October '2021.
7. Paper presentation on the title: Electrical Conductivity of Organo mercury and organo tin dithio complexes, in International Conference on , Innovation of Chemical, Biological and Environmental Science, at S.S. College, held on 12 Feb. '2016.
8. Paper presentation on the title: Dye sensitized solar cells as new generation energy resources, in National Conference on : Impact of Rapid Advancement in Management, Science and Technology, on Rajashri Institute of Management & Technology, Bareilly held on 26-27 Dec ' 2015.
9. Paper presentation on the title : Synthesis, Characterization and Semi Conducting Behaviour of some Chalcone based Mono and Bi- metallic Derivatives , in International Conference on New Scintillations on Material Origin , at Department of Applied Physics MJPRU Bareilly held on 21-23 October '2016.
10. Poster presentation on the title: Effect of Global Warming, in National Seminar on: Climate Change , Environmental and Economic Development , at Department of Humanity, MJPRU, Bareilly , held on 7-8 Feb. '2014.
11. Poster presentation on the title : Semi Conducting Behaviour of some thiolate complexes, in International Conference on: Recent Trends in Material Science, Organized by Department of Applied Physics MJPRU Bareilly held on 21 Nov '2013.
12. Poster presentation on the title: Acid rain and Sustainable Development , in National Seminar Organized by Department of Plant Science MJPRU Bareilly, held on 10-11 April '2010.
13. Poster presentation on the title: Synthesis , Spectroscopic Characterization and Solid State Conductivity of Organo dithio heterobimetallics , in National Conference, Organized by Department of Applied Physics MJPRU Bareilly, held on April 2011.

(e) Resource Lectures Delivered

Invited Lecture delivered entitled: "Quantum dot solar cells as futuristic green energy technology ", at Khandelwal College in International Conference: Frontiers in Pure and Applied Sciences. On: 05/04/2024

(f) Seminars/Conferences/Workshops Organized

- 1) Organizing committee member in organization of National Conference: 'Simulation and Characterization of Advanced Materials 'at Department of Applied Physics MJPRU, Bareilly on 17-18 April, 2010.
- 2) Organizing committee member in organization of National Conference 'Advancement of Futuristic Trends in Material Science', at Department of Applied Physics MJPRU, Bareilly on 26-27 March '2011.
- 3)
Joint Secretary in Organizing National Workshop on " Innovative Research on Materials in Science and Engineering " under FDP sponsored by world Bank TEQIP-II at Department of Applied Chemistry, MJPRU , Bareilly on 17-22 April '2016.

(g) Public Service / University Service / Consulting Activity

Social Service as a member of 'Manosamarpan Team' working for mentallyretarded hopelessness helpless people.

(h) Memberships of Academic/Professional Bodies

Member of : The Indian Science Congress Association, Kolkata (2013).

Projects (With Title, Year, Grants, Funding Agency and Collaborations)

1)Synthesis,Characterization and Study of Complex Polymetallic Advanced Materials for Semiconductor Applications (Year:2019-2021) Grant: 2 lakh , Funded by World Bank TEQIP-II.

2)Synthesis,Characterization and Application of Inorganic Metal Based Chromophoric Material for DSSC. (Year:2022-2025), 3 lakh ,Funded by U.P.Govt R& D.

Administrative Positions/Assignments Held

- 1.Time table and Examination in-charge at Department level.
2. Observer in B. Ed. Entrance exam.
3. Co-ordinator in copy evaluation centre, M.J.P.R.U.
4. Member of EXAM committteeof F.E.T., M.J.P.R.U.

Any Other Details

Details about the Patent published :

Name of Inventor : Dr. Sushmita Gupta, Department of applied Chemistry

s.no.	Name of the patent	Year	& Issue Number
1.	Sanitizer composition of <u>Madhuka longifolia</u> .	2021	02/2021
2.	Extract of <u>Curculi orchiodergaertn</u> root having anti obesity	2021	42/2021

Selection in 'Foreign Assignment Panel', maintained by Govt. of India in year 1996.

Slyupta

Signature of Faculty Member
(in Hard Copy Only)

Note: Please submit this file to E-mail ID: rkg@mjprou.ac.in through your own E-mail ID.

