



Faculty Profile on University Website

www.mjpru.ac.in

Title	Dr.	Pramendra	Last Name	Kumar	Photograph
Designation		Professor			
Department		Chemistry			
Address	Campus	Science Block, MJPRU, Bareilly			
	Residence	Mahanagar colony, Bareilly			
Mobile No.		(+91) 9412602921			
Email ID		Personal	pramendra2002@gmail.com		
		University Domain	pramendra@mjpru.ac.in		
Educational Qualifications (Graduation Onwards)					
Course/Degree	Institution		Year	Subjects	
B. Sc.	C C S University, Meerut		1998	PCM group	
M.Sc.	C C S University, Meerut		2000	Organic Chemistry	
M. Tech.	Delhi College of Engineering, Delhi		2002	Polymer Technology	
Doctorate	University of Allahabad, Allahabad		2011	Chemistry	
Career Profile					
Organization / Institution		Designation	Duration	Nature of Duties	
M J P Rohilkhand University, Bareilly		Lecturer/Assistant Professor	Since 2002 to 2016	Teaching & Research	
M J P Rohilkhand University, Bareilly		Associate Professor	2016-2019	Teaching & Research	
M J P Rohilkhand University, Bareilly		Professor	2019 Onwards	Teaching & Research	
Research Interests / Specialization					
Polymer modification, Green Chemistry					
Research Experience in Years - 25 Years					
No. of Research Scholars Successfully Guided					
Name of Programme		Awarded	Under Supervision		
Ph.D.		04 Awarded	02		
Researcher/ Expert ID	Scopus	Orchid	Publons	Vidwan	Google Scholar
	55466583100	0000-0001-9805-3669	AAY-2434-2020	Vidwan-ID : 165171	pramendra@mjpru.ac.in

I. Papers Published in UGC Care Listed /Indexed/ Peer Reviewed Journals, (2010 Onwards)									
Teaching Experience (Subjects/Courses Taught)- 24 years									
PG level: - <i>Advanced Organic Chemistry, Physical Chemistry</i>									
UG level: - Polymer Science, Engineering Chemistry, Environmental Chemistry									
Memberships of Academic/Professional Bodies									
➤ Elected Fellow, <i>Indian Chemical Society, Kolkata</i> (No. F/7949/ (LM). ➤ Life Member, <i>Indian Science Congress Association, India</i> (L14369). ➤ Life Member of <i>Material Research Society of India, IISc Bangalore, India</i> (LMB1268). ➤ LifeMember, <i>The Society for Polymer Science (NCL Pune)</i> . No. is 292. ➤ LifeMember, Asian polymer Association, New Delhi ➤ LifeMember, nano and material society, Farah, Mathura									
Publications /Academic Activities (Numbers Only)									
Books & Monographs (Single Author)	01	Research Papers Published in International /national Journals	32	Papers Presented in Seminars/ Conferences	14	Seminars/ Conf. Organized	-	Research Projects (Completed)	03
Books (Co-authored)	-	Patent	01	Seminar/ Conferences Attended	5	Workshops Organized	4	Research Projects (Ongoing)	-
Books (Edited)	-	Articles Published in Popular For a, e.g., Websites, Blogs, Newspapers, Magazines etc.	03	Sessions Chaired in Seminars/ Conferences	-	Membership of Academic/ Professional Bodies	06	Foreign Countries Visited for Academic Assignments	-
Chapters in Edited Books	6			Resource Lectures Delivered	02				

Year of Publication	Title	Name of Journal	Vol./ Pp	ISSN No	Citations	Impact Factor
2011	Design of nano structured tamarind seed kernel polysaccharide- silica hybrids for mercury (II) removal	<i>Sep. Sci. Technol.</i>	46 / 825-838	1900-1977	20	2.5
	Carboxymethyl tamarind gum–silica nanohybrids for effective immobilization of amylase	<i>J. Mol. Catal. B: Enzym.</i>	70/67-73	1381-1177	59	2.2
	Sol-gel synthesis and characterization of adsorbent and photoluminescent nanocomposites of starch and silica	<i>J. of Non-Cryst. Solids</i>	357/ 194-201	0022-3093	38	3.6
2012	Use of microwave irradiation in the grafting modification of the polysaccharides- A review	<i>Prog. Polym. Sci.</i>	37(2)/34 0-364	0079-6700	303	32.8
2013	Determination of water quality index and fitness of urban water bodies in Bilari town of Moradabad (Uttar Pradesh)	<i>J. Chem. Pharm. Res.</i>	5(11)/ 726-731	0975-7384	5	6.2
2016	Evolution of surface coverage of $\text{CH}_3\text{NH}_2\text{PbI}_{3-x}\text{Cl}_x$ in a heat assisted solvent vapour treatment and their effect on photovoltaic performance	<i>RSC Adv.</i>	6/94731-94738	2446-2069	23	6.1
	Improve the nature characteristics of polysaccharides by grafting through the γ radiation: A review	<i>Green Chem. Techno. Lett.</i>	2 (3)/151-159	2455-3611	10	-----
	Polyvinyl butyral (PVB), versatile template for designing nano composites/composite materials; A review	<i>Green Chem. Techno. Lett.</i>	2(3)/ 185-194	2455-3611	72	-----
2017	A review on the modification of polysaccharides through graft copolymerization for various potential applications	<i>Open Med. Chem. J.</i>	11/109-126	1874-1045	189	4.4
	Psyllium mucilage and its use in pharmaceutical fields, An overview	<i>Curr. Synth. Syst. Biol.</i>	5(1)/100 0134	2332-0737	68	5.67
2018	Synthesis and characterization of modified chitosan via	<i>Int. J. Biol. Macromol.</i>	107/ 1388-	0141-8130	55	8.7

	microwave route for novel antibacterial application		1394			
	Microwave assisted synthesis of binary grafted psyllium and its utility in anticancer formulation	<i>Carbohydr. Polym.</i>	179/408-414	0144-8617	35	13.2
	Binary grafted chitosan film: Synthesis, characterization, antibacterial activity and prospects for food packaging	<i>Int. J. Biol. Macromol.</i>	115/341-348	0141-8130	127	8.7
2019	Microwave assisted synthesis of poly vinyl butyral-silica composites for mercury removal application	<i>Chem. Sel.</i>	4/1979 - 1984.	2365-6549	21	2.3
	Novel binary grafted chitosan nano-carrier for sustained release of curcumin	<i>Int. J. Biol. Macromol.</i>	131/184-191	0141-8130	52	8.7
	Synthesis and characterization of binary grafted psyllium for mercury removing toxic mercury (II) ions from aqueous solution	<i>Mater. Sci. EngC</i>	104/109900	0928-4931	49	7.9
	Synthesis and characterization of antibacterial cross linked material of chitosan for effective dye removal and antibacterial activity	<i>Int. J. Biol. Macromol.</i>	139/752-759	0141-8130	44	8.7
2020	Silver nanoparticles embedded Guar Gum/ Gelatin nanocomposite: Green synthesis, characterization and antibacterial activity	<i>Colloid and Interface Sci. Commun.</i>	35/100242	2215-0382	89	6.7
	A review on synthesis of graft copolymers of Chitosan and their potential applications	<i>Int. J. Biol. Macromol.</i>	163/2097-2112	0141-8130	260	8.7
	Synthesis and characterization of Novel green adsorbent hydrogel for efficient removal of methylene blue dye	<i>Pol. polar Res.</i>	41(11)/1-22	0138-0338	-----	0.9
2021	The effect of cesium and lead bromide quantum dots on the performance of copper phthalocyanine-based organic field effect transistors	<i>Nanotechnology</i>	32	0957-4484	14	2.9
	Facile synthesis of novel pH-sensitive grafted guar gum for effective removal of mercury (II) ions from aqueous solution	<i>Carbohydrate Polymer Technologies and Applications</i>	2	2666-8939	42	7.6

2023	Microwave-assisted synthesis of curcumin-encapsulated silica-chitosan composite for drug release study	<i>Bulgarian Chemical Communications</i>	55	0324-1130	2	0.4
	Synthesis of pH-sensitive nanocarrier-based acrylic acid-grafted-flaxseed gum for quercetin delivery for anti-cancer application	<i>Bioactive Carbohydrates and Dietary Fibre</i>	30	2212-6198	10	3.3
2024	Synthesis and characterization of pH-sensitive nanocarrier based chitosan-g-poly(itaconic acid) for ciprofloxacin delivery for anti-bacterial application	<i>International Journal of Biological Macromolecules</i>	268	0141-8130	17	8.7
	A review on sources, modification techniques, properties and potential applications of alginate-based modified polymers	<i>European Polymer Journal</i>	213	0014-3057	88	6.8
	Review of emerging trends and challenges in the modification of xanthan gum for various applications	<i>Carbohydrate Research</i>	538	0008-6215	79	3.4
2025 Patent	Biodegradable Sodium Alginate and Deacetylated Gum Karaya Composite Films with Citric Acid Crosslinking for Packaging	<i>Indian Patent</i>	124243	202511103974 A	----	---
2026	Basil seed gum: extraction, modification, and Applications in food and pharmaceuticals	<i>RASĀYAN Journal of Chemistry</i>	19	0976-0083	----	0.79
	Acrylic Acid-Grafted Guar Gum Scaffold: A Novel Platform for Sustained Quercetin Release	<i>Bioactive Carbohydrates and Dietary Fibre</i>	<i>accepted</i>	2212-6198	----	3.3
	Cross-Linked Composite Film: Synthesis, Properties, Antimicrobial Activity, and Potential Applications in Food Packaging	<i>Oriental Journal of Chemistry</i>	<i>accepted</i>	2231-5039	----	0.8
	Galactomannan-Based Hydrogels: Advances in Extraction, Structural Modification, and Emerging Drug Delivery Applications	<i>Oriental Journal of Chemistry</i>	<i>accepted</i>	2231-5039	----	0.8
	Water Chestnut Stem-Derived Biochar Supported Ag-NPs/AC-CTS-PVA Composite	<i>Journal of Polymer & Composite</i>	14	2321-2810	----	6

	Gel for Wastewater Treatment and Potent Antibacterial Performance					
(d) Chapter/Paper Published in Edited Books						
Publication	Title of the Book	Title of the Chapter	Name & Address of Publisher	Year	ISBN	D OI Citation Google/web of science
National/International						
National	Viksith Bharat@2047: Multidisciplinary Perspectives on Knowledge, Innovation and Nation Building	Plant Biomass and Waste Management: Towards Biodegradable, Renewable, and Sustainable Alternatives	Neel Kamal Prakashan	2025	978-93-49491-47-2.	
International	Challenges and Opportunities for Innovation in India	Synthesis and Characterization of Grafted Gum Karaya via Microwave Route for Mercury (II) Ions Removal from Aqueous Solution	AAP, CRC press, Taylor and Francis	2025	978-0-42902-343-9	1
International	Applications of Nanocomposite Materials in Drug Delivery	Alginate hydrogels as colon-targeted drug delivery system	AAP, CRC press, Taylor and Francis	2019	978-0-42902-343-9	3
International	Recent Developments in Bio-Nanocomposites for Biomedical Applications	Polysaccharide-silica nanocomposites: Synthesis, Characterization and potential applications	Nova Publishers, New York, USA, pp.133-152	2010	978-1-61761-513-9	
International	Handbook of Biopolymers and Their Applications	Cassia Seed Gums: A renewable reservoir for synthesizing high performance materials for water remediation	Wiley-Scrivener, USA	2012	978-0-47063-923-8	13

National	Advancement and Futuristic trends in materials science	Role of synthetic polymers for the fabrication of isotropic pitch-based carbon fiber	Allied Publishers, Delhi	2011	978-81-8424-706-0		
I Invited as Resource Lectures Person/Examiner/Expert							
Resource person	Detail of Event	Title of Lecture	Date	Institution			
Invited Talk	National Seminar on Advances in Spectroscopy	Raman Spectroscopy	06 Jan. 2017	KCMT, Bareilly			
(f) Seminars/Conferences/Workshops Organized							
 National Workshop on Recent Advances in Organic and Polymer Chemistry (RAOPC-14), FDP, 17-22 Feb. 2014), Applied Chemistry, MJPRU, Bareilly. (Organizing Secretary)							
 Symposium on Wavelets and its applications in Engineering problems, 20-21 Dec. 2016, FET, MJPRU, Bareilly (Programme Coordinator)							
 FDP on Innovative research on Materials in Science and Engg. [IRMSE-16], FET, MJPRU, Bareilly, 17-22 April 2016. (Assistant. Coordinator)							
(g) Projects (With Title, Year, Grants, Funding Agency and Collaborations)							
Year	Name of Project	Funding Agency	Amount (lacs)	Duration		From	Till
2013	Microwave-Assisted Synthesis of Polymer-Silica Composites for Enzyme Immobilization studies	UGC, New Delhi	9	2013			2016
2019	Minor research project (Seed Grant)	TEQIP-3 MJPRU, Bareilly	2	2019			Ongoing
(h) Administrative Positions/Assignments Held							
Post	Organization			Duration			
				From		To	
ADSW	MJPRU, Bareilly			2011		Till date	
(i) Seminar/Conference Presentations							
1. Microwave promoted graft copolymerization of ethyl acrylate on to guar gum, National Conference on Application of material science of the society-second series, September-12-13, 2009, Department of Chemistry, C.M.P. College, Allahabad. pp- 23.							
2. Synthesis and Characterization of Guar gum-graft poly(acrylamide) templated silica: A luminescent adsorbent nanocomposite, 97 th Indian Science congress, January 03-07, 2010, Hosted by Indian Space organization Research (ISRO) and University of Kerala, Thiruvananthapuram, Kerala, (India) [OP-3].							
3. Modification of Cassia Seed Polysaccharides for Water Remediation, National							

Conference on Emerging Trends in Biochemistry & Satellite Symposium of the Academy of Environmental Biology (AEB), Department of Bio-Chemistry, University of Allahabad, Allahabad, January 23-24, 2010, P-52. 4. <i>Synthesis of Silica Nano Bio-composites for Bi-valent metal ions extraction from their aqueous Solutions</i>, National Seminar on Contemporary Research in Material Science & Chemical Biology, January 31st to 2nd February-2010, Department of Chemistry, University of Allahabad, Allahabad. 5. <i>Synthesis of vinyl modified chitosan using redox system via thermal route</i>, CONIAPS-XIth Conference of International Academy of Physical Sciences, University of Allahabad, Allahabad, February 20-22, 2010, C031. 6. <i>Microwave Assisted Synthesis of Poly(Acrylic acid)-g-Cassia-javanica Seed Gum and its Application for Heavy Metal Extraction from Aqueous Solution</i>, National Seminar on “Recent Trends in Chemical Sciences”, Department of Chemistry, A.P. S. University, Rewa (MP). 12-13 May 2010, (RCTS-OP-09). 7. Enzyme immobilization on polymer-silica nanocomposites, National seminar on “Interface of Industry, Biology and Chemistry Research in 21st Century, Department of Chemistry, Allahabad University, Allahabad, 05-07th February, 2011, pp-13. 8. Fabrication of silica nano bio-composites templated on to polysaccharides as potential metal adsorbent, National Seminar on Advancements and Futuristic trends in material science (AFTMS 2011), Physics Department, M. J.P. Rohilkhand University, Bareilly, 26-27th March, 2011, OP-16. 9. Role of synthetic polymers for the fabrication of isotropic pitch based carbon fiber, National Seminar on Advancements and Futuristic trends in material science (AFTMS 2011), Physics Department, M.J.P. Rohilkhand University, Bareilly, 26-27th March, 2011, OP-52. 10. Synthesis of Organic-Inorganic composites through non-conventional method. One day international Seminar on Recent trends on materials science (RTMS-2013) organized by Department of Physics (FET), M J P Rohilkhand University, Bareilly on November’21-2013. 11. Modification of polysaccharides through high energy radiation initiation techniques, National Conference Brass Metal works, Health & Environment, Sponsored by ICSSR, 02-03 May-2015, at MM Degree College, Katghar, Moradabad. 12. Synthesis and characterization of Carboxymethyl tamarind gum/silica nanohybrids for enzyme immobilization study. National Conference on advanced materials and processing (CAMP-2015) MNIT, Jaipur, 2-4 Dec. 2015. 13. Improvement in native characteristics of by gamma radiation, 2nd International conference 2016, on <i>Innovations in chemical, biological and Environmental Sciences</i> at SS (PG) college UP, on 12th February, 2016. 14. Spectroscopy! Powerful...for chemists, National seminar on Advances in spectroscopy (AIS-2017) at KCMT, Bareilly on 6th Jan. 2017. 15. One Day Live Webinar on “Opportunities and challenges of virtual labs and simulation” held on 30th August 2020 at Department of Chemistry, S. S. College, Shahajanpur.
(k) Participation in Community Service / Exchange Programme / Consulting Activity

(l) International Academic Exposure

-----	-----	-----	-----
(m) Any Other Details (FDP/OP/RC/STC attended)			
1. Faculty Development Programme on “Ambient Air Quality and Stack Monitoring” under the sponsorship of TEQIP-II organized by Department of Chemical Engineering (FET), M.J.P. Rohilkhand University Bareilly, during 08-10 Feb. 2016. 2. One-week National workshop on “Innovations and Research Trends in Mechanical and Production Engineering under FDP scheme sponsored by World Bank under TEQIP-II at Department of Mechanical Engineering (FET), M.J.P. Rohilkhand University Bareilly, during 25-29 April 2016. 3. Six days National workshop on “Innovative Research on Materials in Science & Engineering” under FDP scheme sponsored by World Bank under TEQIP-II at Department of Applied Chemistry (FET), M.J.P. Rohilkhand University Bareilly, during 17-22 April 2016. 4. Faculty Development Programme on “Ambient Air Quality and Stack Monitoring” under the sponsorship of TEQIP-II organized by Department of Chemical Engineering (FET), M.J.P. Rohilkhand University Bareilly, during 08-10 Feb. 2016 5. Symposium on “Wavelet and Its Applications in Engineering Problems” organized by Department of Mathematics (FET), M.J.P. Rohilkhand University Bareilly, during 20-21 December 2015. 6. Six days International workshop on Futuristic Materials: Characterization, Properties & Applications in Technologies (FMCPAT-14) under TEQIP-II (World Bank Scheme) at Department of Applied Physics (FET), M.J. P. Rohilkhand University Bareilly, during 17-22 July 2014. 7. Faculty Development Programme on “Frontier Areas on Research in Mechanical Engineering” under TEQIP-II (World Bank Scheme) at Department of Mechanical Engineering (FET), M.J. P. Rohilkhand University Bareilly, during 25-29 March. 2014. 8. Six days National Workshop on “Recent Advances in Organic & Polymer Chemistry” under TEQIP-II (world Bank Scheme) at Department of Applied Chemistry (FET), M.J. P. Rohilkhand University Bareilly, during 17-22 Feb. 2014. 9. TEQIP-II sponsored National Workshop on Communication Skills for Change management in Classroom” under TEQIP-II (world Bank Scheme) at Department of Humanities (FET), M.J. P. Rohilkhand University Bareilly, during 9-14 Dec. 2013. 10. International Workshop on “Biomedical imaging (BMI-2012)” Conducted by Department of CSIT (FET) M J P Rohilkhand University, Bareilly on 12-13 May 20012. 11. UGC sponsored Refresher programme in Chemistry Discipline (ID) from <i>Jan. 27, 2012 to Feb.18, 2012</i> at, University of Lucknow, Lucknow. 12. A Five days SERC school on “Polymer Based composites & Nano composites” sponsored by DST, New Delhi, India from 26th November to 1st December,2007 at Centre for Polymer Science and Engineering (CPSE), Indian Institute of Technology, Delhi. 13. UGC sponsored Refresher programme in Chemistry Discipline from <i>Nov. 17, 2006 to Dec. 7, 2006</i> from Department of Chemistry, University of Allahabad, Allahabad. 14. UGC sponsored orientation programme from <i>March 16, 2005 to April 12, 2005</i> from ASC, University of Allahabad, Allahabad.			