


STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE

Title	Dr.	First Name	Gulshan	Last Name	Kumar	
Designation		Associate Professor				
School /Dept. Name		USBAS				
Address:		USBAS, GGSIPU, Sector 16C, Dwarka Delhi-110078				
Phone No.	Office	011-25302407				
	Residence	(optional):				
	Mobile	(optional):9350772962				
Email	gulshandhamija@ipu.ac.in					
Web Page (if any)	Nil					
Subjects Taught	Chemistry					
Areas of Interest/Specialization	Polymer Chemistry, Green Composites					
Experience (in years)	Total	22 years				
	Industry	22 Years				
	Teaching	20 years				
	Research	22 years				
Educational Qualifications	UG	B.Sc.				
	PG	M.Sc.				
	Doctorate	Ph.D.				
	Any other	CSIR-NET				
Research Publications in Journals (last 5 years)	<p>1. Ritesh Kumar, Bhuvneshwar Rai, Suman Gahlyan, Gulshan Kumar. A comprehensive review on production, surface modification and characterization of nanocellulose derived from biomass and its commercial applications (2021) Vol.15, No.2 (2021) 104–120. eXPRESS</p>					

Polymer Letters. ISSN: 1788- 618X2020(2021).
202010.3144/expresspolymlett.2021.11. (IF= 3.082)
.https://www.scopus.com/sourceid/11200153519

2. Ritesh Kumar, Sanju Kumari, Bhuvneshwar Rai, Sidharth Sirohi, Rakesh Kumar, Gulshan Kumar. A Facile Chemical Approach to Isolate Cellulose Nanofibers from Jute Fibers. *Journal of Polymers and the Environment* (2020). Vol. 28 pages 2761–277 ISSN: 2053-1591/2020. DOI 10.1007/s10924-020-01808-6. (IF=2.572).<https://www.scopus.com/sourceid/25917>
3. Ritesh Kumar, Habeebur Rahman Sapana Ranwa, Arvind Kumar, Gulshan Kumar Development of cost effective metal oxide semiconductor based gas sensor over flexible chitosan/PVP blended polymeric substrate. *Carbohydrate Polymers* (2020) Vol. 239 116022. ISSN: 18791344, 01448617 239 116213. <https://doi.org/10.1016/j.carbpol.2020.116213>. Springer (IF= 7.182).<https://www.scopus.com/sourceid/25801>
4. Ritesh Kumar, Sapana Ranwa, Gulshan Kumar “Biodegradable Flexible Substrate based on Chitosan/PVP Blend Polymer for Disposable Electronics Device Applications” *The Journal of Physical Chemistry B*. (2019) Vol. 124 149-155. 10.1021/Acs.jpcc.9b08897.ACS (IF- ISSN: 1520-6106 (print) 1520-5207 (web) 2.923).<https://www.scopus.com/sourceid/26970>
5. Ritesh Kumar, Bhuvneshwar Rai, Gulshan Kumar “A Simple Approach for the Synthesis of Cellulose Nanofiber Reinforced Chitosan/PVP Bio Nanocomposite Film for Packaging” *Journal of Polymers and the Environment* (2019) Vol. 27 2963-2973. ISSN: 1566-2543. <https://doi.org/10.1007/s10924-019-01588-8>. (IF=2.572).<https://www.scopus.com/sourceid/25917>
6. Ritesh Kumar, Sanju Kumari, Bhuvneshwar Rai, Raj Das and Gulshan Kumar “Effect of nanocellulosic fiber on mechanical and barrier properties of polylactic acid (PLA) green nanocomposite film” *Mater. Res. Express*. 2053-1591 (2019) Vol. 6 <https://doi.org/10.1088/2053-1591/ab5755>, I.F-1.929 (IOP Publishing).<https://www.scopus.com/sourceid/21100432452>
7. Ritesh Kumar, Sanju Kumari, Shivani Singh Surah, Bhuvneshwar Rai, Rakesh Kumar, Sidharth Sirohi and Gulshan Kumar “A simple approach for the isolation of cellulose nanofibers from banana fibers” *Material Research Express* (2019) Vol. 6 105-601 Express, 2053-1591, <https://doi.org/10.1088/2053-1591/ab3511> I.F-1.929 (IOP Publishing).<https://www.scopus.com/sourceid/21100432452>

8. Sanju Kumari, Ritesh Kumar, Bhuvneshwar Rai, & Gulshan Kumar. Development of Euphorbia Latex and Bamboo Fiber Based Green Composite. *Journal of Nanoscience and Nanotechnology* (2020) Vol. 20 1-6. ISSN:1533-4880. doi:10.1166/jnn.2020.18534. IF=1.354. <https://www.scopus.com/sourceid/28546>
9. Sanju Kumari, Ritesh Kumar, Bhuvneshwar Rai, Sidhharth Sirohi & Gulshan Kumar. Effect of Euphorbia Coagulum content on Fire Retardant and Mechanical properties of Polyester Bamboo Fiber Composite. *Fibers and Polymer* (2020) . ISSN:1229-9197. 2020.DOI 10.1007/s12221-000-0000-0 (Accepted). IF=1.797. <https://www.scopus.com/sourceid/144862>
10. Sanju Kumari, Ritesh Kumar, Bhuvneshwar Rai, Sidhharth Sirohi & Gulshan Kumar. Study on the modification of polyester resin bamboo fiber-based composite with euphorbia coagulum and their effect on mechanical and thermal properties. *Journal of Composite Materials* (2020) .ISSN:0021- 9983 (print) 1530-793X (web) 1-8.DOI: 10.1177/0021998320916542. IF=1.972. <https://www.scopus.com/sourceid/21140>
11. Sanju Kumari, Ritesh Kumar, Bhuvneshwar Rai & Gulshan Kumar “Effect of fiber content on thermal and mechanical properties of euphorbia coagulum modified polyester and bamboo fiber composite” *Material Research* (2019) Vol. 6 125-341. Express,2053-1591, <https://doi.org/10.1088/2053-1591/ab5d53>. IF=1.929. <https://www.scopus.com/sourceid/21100432452>
12. Sanju Kumari, Ritesh Kumar, Bhuvneshwar Rai & Gulshan Kumar “Morphology and Biodegradability Study of Natural Latex-Modified Polyester–Banana Fiber Composites” *Journal of Natural Fibers*,16 (2019) 1-9. Taylor and Francis, <https://doi.org/10.1080/15440478.2019.1652131>. IF=2.622. <https://www.scopus.com/sourceid/130154>
13. Shivani Singh Surah, Manoj Vishwakarma, Ritesh Kumar, Ratyakshi Nain, Sidhharth Sirohi, Gulshan Kumar “Tuning the electronic band alignment properties of TiO₂ nanotubes by boron doping” *Results in Physics*,2211-3797 Volume 12, March 2019, Pages 1725-1731, <https://doi.org/10.1016/j.rinp.2019.01.081>. Elsevier: 4.019. <https://www.scopus.com/sourceid/19900192162>
14. Sanju kumari, Bhuvneshwar rai, Gulshan Kumar, A study on effect of ATH on euphorbia coagulum modified polyester banana fiber composite, *AIP conference proceeding(UGC Care list Journal)*,0094-243X (print) 1551-7616 (web).2018. IF= 0.40 <https://www.scopus.com/sourceid/26916>

	<p>15. Shivani Singh Surah, Ratyakshi Nain, Sidhharth Sirohi, Gulshan Kumar, Antimicrobial activity of TiO₂ nanostructures synthesized by Hydrothermal method, AIP conference proceeding (UGC Care list Journal), 0094-243X (print) 1551-7616 (web). 2018. IF= 0.40 https://www.scopus.com/sourceid/26916</p> <p>16. N Jain, R Singh, G Kumar, B Pani, R Nain, K Dutt, PK Muwal, S Sirohi, Facile Preparation of Biodegradable and Printable Polyester Films, Chemistry select, 2365-6549, 2(11415- 11421), 2017. https://www.scopus.com/sourceid/21100850505.</p> <p>17. Bhuvneshwar Rai, Gulshan Kumar, R.K Diwan, Morphological and biodegradability study of euphorbia latex modified polyester-banana fiber composites, AIP conference proceeding (UGC Care list Journal), 0094-243X (2016) 1551-7616. IF= 0.40 https://www.scopus.com/sourceid/26916.</p>		
Books Authored/Book Volume Chapters	02		
No. of Conferences	National	Attended	Organized
		09	
	International	11	
Research Guidance	Awarded	PG	M. Phil
			04
	Undergoing		04
Research Projects	Completed	04	
	Undergoing	02	
Awards & Distinctions	—		
Administrative Assignments Handled	<ol style="list-style-type: none"> Assigned examination duties from 2007-2012 as Incharge in the capacity of Assistant Registrar. Since 2019 discharging the duties of Associate Director in the Directorate of Students Welfare. Since 2021 handling two branches of Examination Division (Ph.D. & Secrecy) in the capacity of Joint Registrar 		

	(Examination).
Association with Professional Bodies	<ol style="list-style-type: none">1. Indian Society of Analytical Chapter2. Life Time Member of Society of Polymer Science3. Life Time Member Asian Polymer Member4. Member of Academic Council of GGSIPU5. Member of IIQAC of GGSIPU6. Member of Board of Studies, USBAS, GGSIPU
Any other Achievements	—