




Faculty Profile on University Website

www.mjpru.ac.in

Title	Dr.	First Name	Lalit Kumar	Last Name	Pandey	Photograph 
Designation		Assistant Professor				
Department		Plant Science				
Address	Campus	Warden House No. 1, Boys Hostel, MJPRU, Bareilly-243006				
	Residence	Village-Dhundhpur, Post-Souna, District-Ghazipur, Uttar Pradesh-233221				
Mobile No.		8318246379/7078596450				
Email ID		Personal	lalitplantscience@gmail.com			
		University Domain	lalitplantscience@mjpru.ac.in			
Professional Networking ID, i.e. LinkedIn, Twitter etc.		https://www.webofscience.com/wos/author/record/GPF-8303-2022 (Web of Science Research Id on Publons)				
Educational Qualifications (Graduation Onwards)						
Course/Degree		Institution	Year	Details/Thesis Topic/Subjects		
B.Sc.		University of Allahabad	2002-2005	Botany, Zoology, Chemistry		
M.Sc.		University of Allahabad	2005-2007	Botany		
Ph.D.		Banaras Hindu University	2013	Botany (Impact of heavy metal stress on algal communities)		
Career Profile						
Organization / Institution		Designation	Duration	Nature of Duties		
Incheon National University, South Korea		Post-doctoral fellow	2014-2017	Research and Teaching		
MJP Rohilkhand University, Bareilly		Assistant Professor	22nd June 2018	Teaching and Research		
Research Interests / Specialization						

Environmental Biology/Environmental Phycology/Environmental management/ Data Base Construction/Biodiversity/Biofuels/Bioremediation/Climate Change					
Research Experience in Years- 11+ Years after Ph.D.					
No of Research Scholars Successfully Guided					
Name of Programme		Awarded		Under Supervision	
Ph.D.		0		0	
M.Phil.		0		0	
Dissertation (M.Sc.)		10		05	
Researcher/ Expert ID	Scopus	Orcid	Publons	Vidwan	Google Scholar
	170731-011389	0000-0003-2225-0206	https://www.webofscience.com/wos/author/record/GPF-8303-2022	165622	https://scholar.google.com/citations?user=wS2XcCQAAAAJ&hl=en
Teaching Experience (Subjects/Courses Taught)					
- More than 6 years (Algae, Bryophytes, Pteridophytes, Gymnosperms, Angiosperms, Micropropagation, Analytical Techniques, Microbial Diversity and Microbial Metabolism)					
Honours /Awards & Fellowship FOR OUTSTANDING WORK					
Name of Award/ Fellowship	Awarded By				
	Name of Governmental Agency	Name of Government Supported Organization/ Department	Name of International Recognized Body		
RA	UGC	Dr. Hari Singh Gour, Sagar University, MP	NA		
NPDF	SERB	SERB	NA		
DSKPDF	UGC	UGC	NA		

UGC Start Up Grant		UGC		UGC		NA			
SERB-SRG		SERB		SERB		NA			
Publications /Academic Activities (Numbers Only)									
Books & Monographs (Single Author)	0	Research Papers Published in International Journals	30	Papers Presented in Seminars/ Conferences	0	Seminars/ Conferences Organized	0	Research Projects (Completed)	0
Books (Co-authored)	0	Research Papers Published in Other Journals	1	Seminar/ Conferences Attended	17	Workshops Organized	0	Research Projects (Ongoing)	2
Books (Edited)	0	Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.	0	Sessions Chaired in Seminars/ Conferences	0	Memberships of Academic/ Professional Bodies	2	Foreign Countries Visited for Academic Assignments	1
Chapters in Edited Books	5			Resource Lectures Delivered	3				

Details of Publications /Academic Activities (2010 Onwards)					
(a) Authored Books/ Monographs-NA					
Name of Book	Year of Publication	Publisher	ISBN No		
(b) Edited Books-NA					
Year of Publication	Title	Publisher	ISBN	DOI No.	Citations
(c) Papers Published in UGC Care Listed /Indexed/ Peer Reviewed Journals- Cumulative SCI Impact Factor (approx. 150). 30 paper published.					
Year of Publication	Title	Name of Journal	ISSN No	Citations	Impact Factor
2023	Qualitative and quantitative assessment of diatom deformities and protoplasmic condition under metal and metalloid stress	Protoplasma	1615-6102	02	2.9
2023	In situ effects of arsenic, aluminium and chromium stresses on algal periphyton of the river Ganga at Varanasi, India	Journal of Limnology	1723-8633	0	1.6
2023	Smit Patel, Jitesh Adwani, Raushan Singh, Debolina Majumdar, Anjali Dahiya, Kumar Sambhav Verma, Lalit Kumar Pandey, Nitesh Singh Rajput, Shweta Kulshreshtha (2023). A comparative study on biomass processing methods for oil production	Vegetos	0970-4078	0	Scopus

	from <i>Oscillatoria princeps</i>				
2021	Werdel, G.M., Pandey, L.K. , Bergey, E.A., (2021).Cigarette butt effects on diatom health in a stream ecosystem. (Accepted, 27/05/2021; AECO-D-21- 00046R1)	Aquatic Ecology	1573-5125	0	1.429
2021	Park, Jihae; Lee, H; Choi, S; Pandey, LK ; Depuydt, S; Saeger, JD; Park, Extract of red seaweed, Pyropia yezoensis, inhibit melanogenesis but stimulate collagen synthesis	Journal of Applied Phycology	1573-5176	0	3.016
2020	Park, J., Bergey, E.A., Han, T., Pandey, L.K. , Diatoms as indicators of environmental health in Korean islands.	Aquatic Toxicology	0166-445x	0	4.344
2020	Park, J., Lee, H., Depuydt, S., Han, T., Pandey, L.K. , Response of live periphytic diatoms to a range of dissolved copper concentrations.	Journal of Hazardous Materials	0304-3894	1	9.038
2020	Pandey, L.K. , In situ assessment of metal toxicity in riverine	Envirnonme ntal Technology and Innovation	2352-1864	0	3.356

	periphytic algae as a tool for biomonitoring of fluvial ecosystems.				
2019	Lyu, J., Wang, C., Liu, L., Pandey, L.K. , Xu, H.W., Zhou, X.F., Sensitivity of wild and domesticated <i>Rhododendron chrysanthum</i> to different light regime (UVA, UVB and PAR).	Photosynthetic	0300-3604	0	2.365
2019	Pandey, L K , Lavoie, I, Morin, S., Park, J., Depuydt, S., Jie, L., Lee, H., Jung, J., Yum, D-H., Han, T., Towards a multibioassay-based index for toxicity assessment of fluvial water.	Environmental Monitoring and Assessment	0167-6369	3	1.903
2019	Yadav, A., Kumar, D., Singh, R. S., Pandey, L.K. , Rai, J., Seasonal variations in response of periphytic algal community to nutrient enrichment in the river Ganga (Varanasi, India).	Annales de Limnologie-International Journal of Limnology	0003-4088	1	0.885
2019	Lee, H., Brown, M.T., Choi, S., Pandey, L. K. , Saeger, J.D., Shin, K., Kim,	Journal of Hazardous Materials	0304-3894	3	9.038

	J.K., Depuydt, S., Han, T. Park, J., Reappraisal of the toxicity test method using the green alga <i>Ulva pertusa</i> Kjellman (Chlorophyta).				
2019	Pandey, L.K., Park, J., Son, D.H., Kim, W., Islam, M.S., Choi, S., Lee, H., Han, H., Assessment of metal contamination in water and sediments from major rivers in South Korea from 2008 to 2015.	Science of The Total Environment	0048-9697	28	6.551
2018	Pandey, L.K., Bergey, E.A., Metal toxicity and recovery response of riverine periphytic algae.	Science of The Total Environment	0048-9697	10	6.551
2018	Pandey, L.K., Sharma, Y.C., Park, J., Choi, S., Lee, H., Jie, L., Han, H., Evaluating features of periphytic diatom communities as biomonitoring tools in fresh, brackish and marine waters.	Aquatic Toxicology	0166-445x	10	4.344
2018	Pandey, L.K., Lavoie, I., Morin, S., Park, J., Jie, L., Choi, S., Lee, H., Han,	Ecological Indicators	1470-160X	22	4.229

	H., River water quality assessment based on a multi-descriptor approach including chemistry, diatom assemblage structure, and non-taxonomical diatom metrics.				
2017	Pandey, L.K., Bergey, E.A., Jie, L., Park, J., Choi, S., Lee, H., Depuydt, S., Oh, Y.T., Lee, S.M., Han, T. The use of diatoms in ecotoxicology and bioassessment: insights, advances and challenges.	Water Research	0043-1354	39	9.31
2016	Pandey, L.K., Bergey, E.A., Exploring the status of motility, lipid bodies, deformities and size reduction in periphytic diatom community from chronically metal polluted (Cu, Zn) polluted waterbodies as a biomonitoring tool.	Science of the Total Environment	0048-9697	35	6.551

2015	Pandey, L.K., Han, T and Gaur J.P. Response of a phytoplanktonic assemblage to copper and zinc enrichment in microcosm.	Ecotoxicology		35	2.535
2014	Pandey, L.K., Kumar, D., Yadav, A. Rai, J and Gaur J.P. Morphological abnormalities in periphytic diatoms as a tool for biomonitoring of heavy metal pollution in a river.	Ecological Indicators	1470-160X	64	4.221
2016	Pandey, L.K., Ojha, K.K., Singh, PK., Singh, C.S., Dwivedi, S., Bergey, E.A. Diatoms image database of India: a research tool.	Environmental Technology and Innovation	2352-1864	19	3.356
2017	Ojha, K.K., Mishra, S., Pandey, L.K., A comprehensive genometrics database of Archaeal viruses.	Trends in Bioinformatics	1994-7941	0	0
2018	Jie, L., Park, J., Pandey, L.K., Choi, S., Lee, H., Saeger, J.D., Depuydt, S., Han, T., Testing the toxicity of metals, phenol, effluents, and receiving	Ecotoxicology and Environmental Safety	0147-6513	32	4.872

	waters by root elongation in <i>Lactuca sativa</i> L.				
2017	Lavoie, I., Hamilton, P.B., Morin, S., Tiam, S.K., Gonçalves, S., Falasco, E., Fortin, C., Gontero, B., Heudre, D., Kahlert, M., Kojadinovic-Sirinelli, M., Manoylov, K., Pandey, L.K. , Taylor, J.C., Diatom teratologies as biomarkers of contamination: are all deformities ecologically meaningful?	Ecological Indicators	1470-160X	33	4.221
2017	Gautam, S., Pandey, L.K. , Vinayak, V., Arya, A. Morphological and physiological alterations in the diatom <i>Gomphonema pseudoaugur</i> due to heavy metal stress.	Ecological Indicators	1470-160X	19	4.221
2016	Kumar, D., Pandey, L.K. , Gaur, J.P. Metal sorption by algal biomass: from batch to continuous system.	Algal Research	2211-9264	69	4.008
2016	Rai, J., Kumar, D., Pandey, L.K. , Yadav, A., Gaur, J.P.	Journal of Environmental Management	0301-4797	17	5.647

	Potential of cyanobacterial biofilms in phosphate removal and biomass.	t			
2018	Kumar, D., Pandey, L.K. , and Gaur J.P. Growth of <i>Phormidium bigranulatum</i>-dominated mat in relation to nature of the substratum, time, pH and nutrient availability.	Environmental engineering and management journal	1582-9596	3	1.186
2012	Kumar, D, Singh, A. Pandey, L.K. and Gaur, J.P. Sorption of Methylene blue by an <i>Oscillatoria sp.</i>-Dominated cyanobacterial mat.	Bioremediation Journal	1088-9868	3	1.724
2010	Kumar, D., Pandey, L.K. and Gaur, J.P. Evaluation of various isotherm models, and metal sorption potential of cyanobacterial mats in single and multi-metal systems.	Colloids and Surfaces B: Biointerfaces	0927-7765	3	4.389
2010	Kumar, D. Prakash, B., Pandey, L.K. and Gaur, J.P. Sorption of paraquat and 2,4-D by <i>Oscillatoria sp.</i>-dominated	Applied Biochemistry and Biotechnology	0273-2289	16	2.277

	cyanobacterial mat.				
2010	Kumar, D., Kumar, M., Pandey, L.K. and Gaur, J.P. Methylene blue sorption capacity of some common waste plant materials.	Chemical Engineering Communications	0098-6445	13	1.802

(d) Chapter/Paper Published in Edited Books

Publication		Title of the Book	Title of the Chapter	Name & Address of Publisher	Year	ISB N	DOI	Citation Google/web of science
National	International							
	1.	Park, J., Brown, M.T., Lee, H., Vieira, C., Pandey, L K, Choi, E., Depuydt, S., Hader, D- P., Han, T., Aquatic ecosystems in a changing climate	UV-B radiation and the green-tide forming macroalgae <i>Ulva</i>	CRC press	2018	9781138350052	http://hdl.handle.net/10026.1/13126	1
	2.	Lee, H., Depuydt, S., Choi, S., Kim, G., Kim, Y., Pandey	Potential use of nuisance cyanobacteria as a source of anticancer agents	Elsevier	2020	9780128206553	https://doi.org/10.1016/B978-0-12-820655-5-	0

		, L.K., Häder, D-P., Han, T., Park, J., Natural Bioactive Compounds: Technological Advancements					3.00 010- 0	
	3.	Current Trends in Marine Biology	MARINE ALGAL BLOOMS : PAST, PRESENT , AND FUTURE	Cambridge Scholars Publishing	2022	1-5275 - 8702 -9	https://www.cambridge.org/holrs.com/product/978-1-5275 - 8702 -1	0
	4.	Biodiversity in India: Status, Issues and Challenges	Diatoms: the Living Jewels and their Biodiversity, Phycosphere and Associated Phenotypic Plasticity: A Lesson to Learn from the Current Pandemic of	Springer Nature Singapore	2022	978-981-16-9779 -1	https://link.springer.com/book/10.1007/978-981-16-9777 -7	0

			Coronavirus					
	5.	Diatoms: Ecology and Biotechnological Applications	Climate Change and Diatoms	CRC Press	2023	978 100 332 211 5	https://doi.org/10.1201/9781003322115	0

(e) Invited as Resource Lectures Person/Examiner/Expert

Resource person	Detail of Event	Title of Lecture	Date	Institution
Dr. Lalit Kumar Pandey	Webinar	The use of Diatoms in Ecotoxicology and Bioassessment	June 27, 2020	Lovely Professional University
Dr. Lalit Kumar Pandey	Webinar	Advances in Biotechnology to Produce vaccine against SARS-CoV2	July 12, 2020	Shri Agrasen Kanya Post Graduate College
Dr. Lalit Kumar Pandey	8th ICoEHS (International Conference on Environmental Health Sciences)	Diatoms as an effective tool for biomonitoring and biofuel production	October 28-29, 2015	Incheon, South Korea

(f) Seminars/Conferences/Workshops Organized-NA

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

Year	Name of Project	Funding Agency	Amount	Duration	
				From	Till
2019-2020	Evaluating potential of diatoms as a tool for biomonitoring, bioremediation and biofuel production	UGC Start Up Grant (BSR)	10 Lakhs	06 Sep. 2019	2021
2021-2023	Exploring	SERB-SRG	29 Lakhs	06 Feb.	2023

	newer diatom metrics for assessing the integrity of fluvial ecosystem			2021	
2020-2023	Exploring deformities and lipid bodies in diatoms as an indicator of metal pollution in aquatic ecosystem	ICMR-EMR	38 Lakhs (Recommended)	NA	NA

(h) Administrative Positions/Assignments Held

Post	Organization	Duration	
		From	To
Warden	MJPRU (Nanaji Deshmukh chatravas)	30.12.2019	24.12.2020
Asst. Warden	MJPRU (Mains hostel)	11.03.2019	24.12.2020
Asst. DSW	MJPRU	12.07.2018	04.08.2023
Asst. Director	DoR. MJPRU	2022	Continue
IQAC Member	MJPRU	Aug. 2022	04.08.2023
Asst. Proctor	MJPRU	2023	Continue

(i) Seminar/Conference Presentations

International

Name of Conference	Conference Paper	Place of Conference	Date of Conference
International Conference on Molecular Biology and Biotechnology (ICMBB)	Biosorption of metals and methylene blue by <i>Oscillatoria</i> sp. dominated cyanobacterial mat.	Banasthali University	October 19-21, 2008
International symposium on phycolgical research	Participated	BHU, Varanasi	February 25-27, 2010
International conference on emerging trends in biotechnology	Sorptive removal of methylene blue by an <i>Oscillatoria</i> sp. dominated cyanobacterial mat	BHU, Varanasi	Dec, 4-6, 2009
7th ICoEHS (International Conference on Environmental Health Sciences)	1. Algal image database of India (AIDI): as potent tool for diatom identification. 2. Response of a phytoplanktonic community to copper and zinc stress in microcosm.	KIST, Seoul, Korea	Oct 28-29, 2014
8th ICoEHS (International Conference on Environmental Health Sciences)	Poster (Cu toxicity endpoints in periphytic diatoms) and Oral (Diatoms as an effective tool for biomonitoring	Incheon, Korea	Oct 28-29 2015

	and biofuel production) presentation		
Korean Society of Marine and fisheries life science	Exploring lipid bodies in periphytic diatoms as an effective biomonitoring tool	Busan, Korea	17-04-2015
9th ICoEHS (International Conference on Environmental Health Sciences)	1. Biostimulatory effect of algal extracts on radish. (S28). 2. Periphytic diatom community as a biomonitoring tool for assessing the ecological health of Korean waterbodies (S49).	Global Campus, Incheon, Korea	Nov 02-03 2016

National

Name of Conference	Conference Paper	Place of Conference	Date of Conference
Training programme on applied statistical methods for biological sciences	Participated	BHU, Varanasi	4-10 April, 2014
Symposium on biotechnology and stress biology of algal and cyanobacteria	Heavy metals induce deformities in periphytic diatoms	BHU, Varanasi	24-26 February, 2014
Springer summit on materials and protocols	Participated	BHU, Varanasi	2013
Recent advances in microbial biofertilizers, production & utilization technology	Participated	ISDC, Allahabad	13-14 December, 2007
Emerging trends in biotechnology	Sorptive removal of methylene blue by an <i>Oscillatoria</i> sp.-dominated cyanobacterial mat. In: Emerging trends in biotechnology	BHU, Varanasi	3-4 March, 2009
Current challenges in plant sciences: gene to ecosystem	Biosorptive removal of paraquat and 2,4-D by an <i>Oscillatoria</i> sp.-dominated cyanobacterial mat. In: Current challenges in plant sciences	BHU, Varanasi	2009
Impact of environmental changes on human life	Heavy metal toxicity to a periphytic assemblage	S.S.K.G.D.C. Allahabad	November 20-21, 2010
Emerging trends in plant sciences	Metal sorption potential of cyanobacterial mats in single and multi-metal systems	BHU, Varanasi	March 03-04, 2011
Emerging trends in plant sciences	Morphological abnormalities in diatoms exposed to heavy metal stress	BHU, Varanasi	March 03-04, 2011
Writing research papers	Participated	BHU, Varanasi	June 10-11, 2011
Faculty Development Program on "Research Methods and Data Analysis Using SPSS & AMOS"	Participated	MJP Rohilkhand University, Bareilly	Jan 27 - Feb 1, 2020
Hands on training on	Participated	BHU, Varanasi	06-08 Feb. 2023

Fluorescence and Confocal Microscopy			
One week online workshop on advance statistical data analysis using SPSS	Participated	Uttar Pradesh University of Medical Science, Saifai, Etawah UP	21-27 Jan. 2023
Two week refresher course in Botany	Participated	Teaching Learning Centre, Ramanujan College, University of Delhi	18 Feb-04 March 2023
(j) Memberships of Academic/Professional Bodies			
1. The Korean Society of Phycology.			
2. The Indian Botanical Society.			
(k) Participation in Community Service / Exchange Programme / Consulting Activity			
-No.			
(l) International Academic Exposure			
More than 2 years of post doctoral research experience in Incheon National University, Incheon, South Korea.			
Editorial Board Member in the journal "Ecological Indicators" (IF-6.9).			
(m) Any Other Details			
https://iaps.org.in/lalit/			



Signature of Faculty Member