



Title	Dr.	First Name	Lalit Kumar	Last Name	Pandey	Photograph
Designation		Assistant Professor (Level 12)				
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	22 nd 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		01		
M.Phil.	0		0		
Dissertation (M.Sc.)	23		0		
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 8 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/ Conferenc es Organized	0	Research Projects (Complete d)	2
Books (Co-authored)	0	Research Papers Published in Other Journals	5	Seminar/ Conferences Attended	22	Workshop s 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	Membersh ip of Academic/ Profession al Bodies	2	Foreign Countries Visited for Academic Assignmen ts	1
Chapters in Edited Books	05			Resource Lectures Delivered	6				

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. 214). 46 paper published.					
Year of Publication	Title	Name of Journal	ISSN No	Citations	Impact Factor (WoS)/Scopus
2025	Diversity and Phylogenetic Relationships of Cylindrospermum Species from the Aquatic and Semi-Aquatic Habitats of Western Uttar Pradesh, Bharat	Egyptian Journal of Aquatic Biology & Fisheries	2536-9814	0	Scopus
2024	Exploring the Diversity of the Bacillariophytes from Meerut and Adjoining Areas of Western Uttar Pradesh, India	Egyptian Journal of Aquatic Biology & Fisheries	2536-9814	1	Scopus
2026	Morphological, biochemical, and physiological responses of a mixed periphytic diatom community to single and concurrent exposure to elevated Fe and Hg levels	Protoplasma	1615-6102	0	2.9
2026	Understanding the impact of dust deposition	Biofouling	1029-2454	0	1.9

	and CO ₂ level on biofilm development causing biodeterioration of historic buildings and monuments in India				
2026	Carbon dioxide sequestration, bioremediation, and production of value-added products from freshwater filamentous green algae	Systems Microbiology and Biomanufacturing	2662-7655	01	3.5
2024	Pandey et al. Harnessing green tide Ulva biomass for carbon dioxide sequestration	Reviews in Environmental Science and Biotechnology	https://link.springer.com/article/10.1007/s11157-024-09705-3#citeas	13	8.6
2024	Pandey et al. Harnessing the power of tidal flat diatoms to combat climate change	Critical Reviews in Environmental Science and Technology	https://www.tandfonline.com/doi/abs/10.1080/10643389.2024.2315004	9	12.6
2023	Pandey et al. Qualitative and quantitative assessment of diatom deformities and protoplasmic condition under metal and metalloid stress	Protoplasma	https://link.springer.com/article/10.1007/s00709-023-01864-4	03	2.9
2023	Yadav and Pandey. In situ effects of arsenic, aluminium and chromium stresses on	Journal of Limnology	https://www.jlimnol.it/jlimnol/article/view/2112/1969	1	1.1

	algal periphyton of the river Ganga at Varanasi, India				
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 from <i>Oscillatoria princeps</i>	Vegetos	https://doi.org/10.1007/s42535-023-00588-3	0	Scopus
2021	Werdel, G.M., Pandey, L.K. , Bergey, E.A., (2021). Cigarette butt effects on diatom health in a stream ecosystem.	Aquatic Ecology	https://link.springer.com/article/10.1007/s10452-021-09876-z	08	1.8
2021	Park, Jihae; Lee, H; Choi, S; Pandey, LK ; Depuydt, S; Saeger, JD; Park, Extract of red seaweed, <i>Pyropia yezoensis</i>, inhibit melanogenesis but stimulate collagen synthesis	Journal of Applied Phycology	https://link.springer.com/article/10.1007/s10811-020-02305-y	18	3.0
2020	Park, J., Bergey, E.A., Han, T., Pandey, L.K. ,	Aquatic Toxicology	https://www.sciencedirect.com/sci	16	4.344

	Diatoms as indicators of environmental health in Korean islands.		ence/article/abs/pii/S0166445X20303441		
2020	Park, J., Lee, H., Depuydt, S., Han, T., Pandey, L.K., Assessment of five live-cell characteristics in periphytic diatoms as a measure of copper stress	Journal of Hazardous Materials	https://www.sciencedirect.com/science/article/abs/pii/S030438942031102X	14	11.3
2020	Pandey, L.K., et al. In situ assessment of metal toxicity in riverine periphytic algae as a tool for biomonitoring of fluvial ecosystems.	Environmental Technology and Innovation	https://www.sciencedirect.com/science/article/abs/pii/S2352186419307503	30	7.1
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).	Photosynthesis	http://ps.ueb.cas.cz/pdfs/phs/2019/03/16.pdf	24	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	Environmental Monitoring and Assessment	https://link.springer.com/article/10.1007/s10661-019-7234-5	22	3.0

	fluvial water.				
2018	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	https://doi.org/10.1051/limn/2018025	14	1.036
2019	Lee, H., Brown, M.T., Choi, S., Pandey, L. K., Saeger, J.D., Shin, K., Kim, J.K., Depuydt, S., Han, T. Park, J., Reappraisal of the toxicity test method using the green alga <i>Ulva pertusa</i> Kjellman (Chlorophyta).	Journal of Hazardous Materials	https://www.sciencedirect.com/science/article/abs/pii/S0304389418312251	15	11.3
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	https://www.sciencedirect.com/science/article/abs/pii/S0048969718334934	130	8.0
2018	Pandey, L.K., Bergey, E.A., Metal toxicity and recovery response of riverine	Science of The Total Environment	https://www.sciencedirect.com/science/article/abs/pii/S0048969718334934	36	8.0

	periphytic algae.		21405		
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	https://www.sciencedirect.com/science/article/abs/pii/S0166445X17303193	49	4.3
2018	Pandey, L.K., Lavoie, I., Morin, S., Park, J., Jie, L., Choi, S., Lee, H., Han, H., River water quality assessment based on a multi- descriptor approach including chemistry, diatom assemblage structure, and non- taxonomical diatom metrics.	Ecological Indicators	https://www.sciencedirect.com/science/article/abs/pii/S1470160X17304569	78	7.4
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	https://www.sciencedirect.com/science/article/abs/pii/S0043135417300696	121	12.4

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 Environme nt	https://www.sciencedirect.com/science/article/abs/pii/S0048969715311323	79	8.0
2015	Pandey, L.K., Han, T and Gaur J.P. Response of a phytoplanktoni c assemblage to copper and zinc enrichment in microcosm.	Ecotoxicolo gy	https://link.springer.com/article/10.1007/s10646-014-1405-5	60	2.7
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	https://www.sciencedirect.com/science/article/abs/pii/S1470160X13003014	123	7.4
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.	Environme ntal Technology and Innovation	https://www.sciencedirect.com/science/article/abs/pii/S2352186416300086	31	7.1

2017	Ojha, K.K., Mishra, S., Pandey, L.K., A comprehensive genometrics database of Archaeal viruses.	Trends in Bioinformat ics	https://scialert.net/abstract/?doi=tb.2018.1.6	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 waters by root elongation in <i>Lactuca sativa</i> L.	Ecotoxicolo gy and Environme ntal Safety	https://www.sciencedirect.com/science/article/abs/pii/S0147651317307601	121	6.1
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	https://www.sciencedirect.com/science/article/abs/pii/S1470160X17303904	106	7.4
2017	Gautam, S., Pandey, L.K., Vinayak, V., Arya, A. Morphological and physiological	Ecological Indicators	https://www.sciencedirect.com/science/article/abs/pii/S1470160X16304630	77	7.4

	alterations in the diatom <i>Gomphonema pseudoaugur</i> due to heavy metal stress.				
2016	Kumar, D., Pandey, L.K., Gaur, J.P. Metal sorption by algal biomass: from batch to continuous system.	Algal Research	https://www.sciencedirect.com/science/article/abs/pii/S2211926416301825	188	4.5
2016	Rai, J., Kumar, D., Pandey, L.K., Yadav, A., Gaur, J.P. Potential of cyanobacterial biofilms in phosphate removal and biomass.	Journal of Environmental Management	https://www.sciencedirect.com/science/article/abs/pii/S0301479716301670	38	8.4
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	https://www.cabidigitallibrary.org/doi/full/10.5555/20183206154	5	1.186
2012	Kumar, D, Singh, A. Pandey, L.K. and Gaur, J.P. Sorption of Methylene blue by an <i>Oscillatoria</i> sp.-Dominated cyanobacterial mat.	Bioremediation Journal	https://www.tandfonline.com/doi/abs/10.1080/10889868.2011.628349	7	1.724
2010	Kumar, D., Pandey, L.K. and Gaur, J.P.	Colloids and Surfaces B:	https://www.sciencedirect.com/sci	37	5.6

	Evaluation of various isotherm models, and metal sorption potential of cyanobacterial mats in single and multi-metal systems.	Biointerface s	ence/article/abs/pii/S0927776510004224		
2010	Kumar, D., Prakash, B., Pandey, L.K. and Gaur, J.P. Sorption of paraquat and 2,4-D by <i>Oscillatoria</i> sp.-dominated cyanobacterial mat.	Applied Biochemistry and Biotechnology	https://link.springer.com/article/10.1007/s12010-009-8710-0	25	2.277
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	https://www.tandfonline.com/doi/abs/10.1080/00986441003626193	15	1.802

(d) Chapter/Paper Published in Edited Books

Publication		Title of the Book	Title of the Chapter	Name & Address of Publisher	Year	ISBN	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,	UV-B radiation and the green-tide forming macroalgae <i>Ulva</i>	CRC press	2018	9781138350052	http://hdl.handle.net/10026.1/13126	1

		T., Aquatic ecosystems in a changing climate						
	2.	Lee, H., Depuydt, S., Choi, S., Kim, G., Kim, Y., Pandey, L.K., Häder, D-P., Han, T., Park, J., Natural Bioactive Compounds: Technological Advancements	Potential use of nuisance cyanobacteria as a source of anticancer agents	Elsevier	2020	9780128206553	https://doi.org/10.1016/B978-0-12-820655-3	8
	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/9781527587029	0

							-1	
	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 Coronavirus	Springer Nature Singapore	2022	978-981-16-9779-1	https://link.springer.com/book/10.1007/978-981-16-9779-7	06
	5.	Diatoms: Ecology and Biotechnological Applications	Climate Change and Diatoms	CRC Press	2023	9781003322115	https://doi.org/10.1201/9781003322115	01

(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 Environment)	Diatoms as an effective tool for biomonitoring and biofuel production	October 28-29, 2015	Incheon, South Korea

	al Health Sciences)				
(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 newer diatom metrics for assessing the integrity of fluvial ecosystem	SERB-SRG	29 Lakhs	06 Feb. 2021	2023
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	Biosorption of metals and methylene blue by	Banasthali University		October 19-21, 2008	

and Biotechnology (ICMBB)	<i>Oscillatoria</i> sp. dominated cyanobacterial mat.		
International symposium on phycological 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 and biofuel production) presentation	Incheon, Korea	Oct 28-29 2015
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	Biosorptive removal of	BHU, Varanasi	2009

plant sciences: gene to ecosystem	paraquat and 2,4-D by an Oscillatoria sp.-dominated cyanobacterial mat. In: Current challenges in plant sciences		
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 Fluorescence and Confocal Microscopy	Participated	BHU, Varanasi	06-08 Feb. 2023
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			
-STP plant at Harulnagla and Bamboo National Mission			
(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