




## Faculty Profile on University Website

www.mjpru.ac.in

<b>Title</b>	<b>Dr.</b>	<b>First Name</b>	<b>Lalit Kumar</b>	<b>Last Name</b>	<b>Pandey</b>	<b>Photograph</b> 
<b>Designation</b>		<b>Assistant Professor</b>				
<b>Department</b>		<b>Plant Science</b>				
<b>Address</b>	<b>Campus</b>	<b>Warden House No. 1, Boys Hostel, MJPRU, Bareilly-243006</b>				
	<b>Residence</b>	<b>Village-Dhundhpur, Post-Souna, District-Ghazipur, Uttar Pradesh-233221</b>				
<b>Mobile No.</b>		<b>8318246379/7078596450</b>				
<b>Email ID</b>		Personal	<b>lalitplantscience@gmail.com</b>			
		University Domain	<b>lalitplantscience@mjpru.ac.in</b>			
<b>Professional Networking ID, i.e. LinkedIn, Twitter etc.</b>		<b>Z-3221-2019 (Web of Science Research Id on Publons)</b>				
<b>Educational Qualifications (Graduation Onwards)</b>						
<b>Course/Degree</b>		<b>Institution</b>	<b>Year</b>	<b>Details/Thesis Topic/Subjects</b>		
<b>B.Sc.</b>		<b>University of Allahabad</b>	<b>2002-2005</b>	<b>Botany, Zoology, Chemistry</b>		
<b>M.Sc.</b>		<b>University of Allahabad</b>	<b>2005-2007</b>	<b>Botany</b>		
<b>Ph.D.</b>		<b>Banaras Hindu University</b>	<b>2013</b>	<b>Botany (Impact of heavy metal stress on algal communities)</b>		
<b>Career Profile</b>						
<b>Organization / Institution</b>		<b>Designation</b>	<b>Duration</b>	<b>Nature of Duties</b>		
<b>Incheon National University, South Korea</b>		<b>Post-doctoral fellow</b>	<b>2014-2017</b>	<b>Research and Teaching</b>		
<b>MJP Rohilkhand University, Bareilly</b>		<b>Assistant Professor</b>	<b>22<sup>nd</sup> June 2018</b>	<b>Teaching and Research</b>		
<b>Research Interests / Specialization</b>						

<b>Environmental Biology/Environmental Phycology/Environmental management/ Data Base Construction/Biodiversity/Biofuels/Bioremediation/Climate Change</b>					
<b>Research Experience in Years- 6+ Years after Ph.D.</b>					
<b>No of Research Scholars Successfully Guided</b>					
Name of Programme		Awarded		Under Supervision	
<b>Ph.D.</b>		<b>0</b>		<b>0</b>	
<b>M.Phil.</b>		<b>0</b>		<b>0</b>	
<b>Dissertation (M.Sc.)</b>		<b>0</b>		<b>2</b>	
<b>Researcher/ Expert ID</b>	<b>Scopus</b>	<b>Orcid</b>	<b>Publons</b>	<b>Vidwan</b>	<b>Google Scholar</b>
	<b>170731-011389</b>	<b>0000-0003-2225-0206</b>	<b>Z-3221-2019</b>	<b>165622</b>	<b><a href="https://scholar.google.co.in/citations?user=h_XZeDYA AAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=h_XZeDYA AAAJ&amp;hl=en</a></b>
<b>Teaching Experience (Subjects/Courses Taught)</b>					
<b>- More than 3 years (Algae, Bryophytes, Pteridophytes, Gymnosperms, Angiosperms, Micropropagation, Analytical Techniques, Microbial Diversity and Microbial Metabolism)</b>					
<b>Honours /Awards &amp; Fellowship FOR OUTSTANDING WORK</b>					
<b>Name of Award/ Fellowship</b>	<b>Awarded By</b>				
	<b>Name of Governmental Agency</b>	<b>Name of Government Supported Organization/ Department</b>	<b>Name of International Recognized Body</b>		
<b>RA</b>	<b>UGC</b>	<b>Dr. Hari Singh Gour, Sagar University, MP</b>	<b>NA</b>		
<b>NPDF</b>	<b>SERB</b>	<b>SERB</b>	<b>NA</b>		
<b>DSKPDF</b>	<b>UGC</b>	<b>UGC</b>	<b>NA</b>		

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

<b>Details of Publications /Academic Activities (2010 Onwards)</b>					
<b>(a) Authored Books/ Monographs-NA</b>					
<b>Name of Book</b>	<b>Year of Publication</b>	<b>Publisher</b>	<b>ISBN No</b>		
<b>(b) Edited Books-NA</b>					
<b>Year of Publication</b>	<b>Title</b>	<b>Publisher</b>	<b>ISBN</b>	<b>DOI No.</b>	<b>Citations</b>
<b>(c) Papers Published in UGC Care Listed /Indexed/ Peer Reviewed Journals- Cumulative SCI Impact Factor (117). 30 paper published.</b>					
<b>Year of Publication</b>	<b>Title</b>	<b>Name of Journal</b>	<b>ISSN No</b>	<b>Citations</b>	<b>Impact Factor</b>
<b>2021</b>	Werdel, G.M., <b>Pandey, L.K.</b> , Bergey, E.A., (2021).Cigarette butt effects on diatom health in a stream ecosystem. (Accepted, 27/05/2021; AECO-D-21- 00046R1)	Aquatic Ecology	<b>1573-5125</b>	<b>0</b>	<b>1.429</b>
<b>2021</b>	Park, Jihae; Lee, H; Choi, S; <b>Pandey, LK</b> ; Depuydt, S; Saeger, JD; Park, <b>Extract of red seaweed, Pyropia yezoensis, inhibit melanogenesis but stimulate collagen synthesis</b>	Journal of Applied Phycology	<b>1573-5176</b>	<b>0</b>	<b>3.016</b>
<b>2020</b>	Park, J., Bergey, E.A., Han, T., <b>Pandey, L.K.</b> , <b>Diatoms as indicators of environmental health in Korean islands.</b>	<b>Aquatic Toxicology</b>	<b>0166-445x</b>	<b>0</b>	<b>4.344</b>
<b>2020</b>	Park, J., Lee, H., Depuydt, S., Han, T.,	<b>Journal of Hazardous Materials</b>	<b>0304-3894</b>	<b>1</b>	<b>9.038</b>

	<b>Pandey, L.K., Response of live periphytic diatoms to a range of dissolved copper concentrations.</b>				
<b>2020</b>	<b>Pandey, L.K., In situ assessment of metal toxicity in riverine periphytic algae as a tool for biomonitoring of fluvial ecosystems.</b>	<b>Environme ntal Technology and Innovation</b>	<b>2352-1864</b>	<b>0</b>	<b>3.356</b>
<b>2019</b>	Lyu, J., Wang, C., Liu, L., <b>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).</b>	<b>Photosynthe tica</b>	<b>0300-3604</b>	<b>0</b>	<b>2.365</b>
<b>2019</b>	<b>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.</b>	<b>Environme ntal Monitoring and Assessment</b>	<b>0167-6369</b>	<b>3</b>	<b>1.903</b>
<b>2019</b>	Yadav, A., Kumar, D., Singh, R. S., <b>Pandey, L.K., Rai, J., Seasonal variations in</b>	<b>Annales de Limnologie- Internation al Journal of Limnology</b>	<b>0003-4088</b>	<b>1</b>	<b>0.885</b>

	<b>response of periphytic algal community to nutrient enrichment in the river Ganga (Varanasi, India).</b>				
<b>2019</b>	Lee, H., Brown, M.T., Choi, S., <b>Pandey, L. K.</b> , Saeger, J.D., Shin, K., Kim, J.K., Depuydt, S., Han, T. Park, J., <b>Reappraisal of the toxicity test method using the green alga <i>Ulva pertusa</i> Kjellman (Chlorophyta).</b>	<b>Journal of Hazardous Materials</b>	<b>0304-3894</b>	<b>3</b>	<b>9.038</b>
<b>2019</b>	<b>Pandey, L.K.</b> , Park, J., Son, D.H., Kim, W., Islam, M.S., Choi, S., Lee, H., Han, H., <b>Assessment of metal contamination in water and sediments from major rivers in South Korea from 2008 to 2015.</b>	<b>Science of The Total Environment</b>	<b>0048-9697</b>	<b>28</b>	<b>6.551</b>
<b>2018</b>	<b>Pandey, L.K.</b> , Bergey, E.A., <b>Metal toxicity and recovery response of riverine periphytic algae.</b>	<b>Science of The Total Environment</b>	<b>0048-9697</b>	<b>10</b>	<b>6.551</b>
<b>2018</b>	<b>Pandey, L.K.</b> , Sharma, Y.C., Park, J., Choi, S., Lee, H., Jie, L., Han, H., <b>Evaluating</b>	<b>Aquatic Toxicology</b>	<b>0166-445x</b>	<b>10</b>	<b>4.344</b>

	<b>features of periphytic diatom communities as biomonitoring tools in fresh, brackish and marine waters.</b>				
<b>2018</b>	<b>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.</b>	<b>Ecological Indicators</b>	<b>1470-160X</b>	<b>22</b>	<b>4.229</b>
<b>2017</b>	<b>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.</b>	<b>Water Research</b>	<b>0043-1354</b>	<b>39</b>	<b>9.31</b>
<b>2016</b>	<b>Pandey, L.K., Bergey, E.A., Exploring the status of motility, lipid bodies, deformities and size reduction</b>	<b>Science of the Total Environment</b>	<b>0048-9697</b>	<b>35</b>	<b>6.551</b>

	<b>in periphytic diatom community from chronically metal polluted (Cu, Zn) polluted waterbodies as a biomonitoring tool.</b>				
<b>2015</b>	<b>Pandey, L.K., Han, T and Gaur J.P. Response of a phytoplanktonic assemblage to copper and zinc enrichment in microcosm.</b>	<b>Ecotoxicology</b>		<b>35</b>	<b>2.535</b>
<b>2014</b>	<b>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.</b>	<b>Ecological Indicators</b>	<b>1470-160X</b>	<b>64</b>	<b>4.221</b>
<b>2016</b>	<b>Pandey, L.K., Ojha, K.K., Singh, PK., Singh, C.S., Dwivedi, S., Bergey, E.A. Diatoms image database of India: a research tool.</b>	<b>Environmental Technology and Innovation</b>	<b>2352-1864</b>	<b>19</b>	<b>3.356</b>
<b>2017</b>	<b>Ojha, K.K., Mishra, S., Pandey, L.K., A comprehensive genometrics database of Archaeal</b>	<b>Trends in Bioinformatics</b>	<b>1994-7941</b>	<b>0</b>	<b>0</b>



	<b>viruses.</b>				
<b>2018</b>	Jie, L., Park, J., <b>Pandey, L.K.</b> , Choi, S., Lee, H., Saeger, J.D., Depuydt, S., Han, T., <b>Testing the toxicity of metals, phenol, effluents, and receiving waters by root elongation in <i>Lactuca sativa</i> L.</b>	<b>Ecotoxicology and Environmental Safety</b>	<b>0147-6513</b>	<b>32</b>	<b>4.872</b>
<b>2017</b>	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., <b>Pandey, L.K.</b> , Taylor, J.C., <b>Diatom teratologies as biomarkers of contamination: are all deformities ecologically meaningful?</b>	<b>Ecological Indicators</b>	<b>1470-160X</b>	<b>33</b>	<b>4.221</b>
<b>2017</b>	Gautam, S., <b>Pandey, L.K.</b> , Vinayak, V., Arya, A. <b>Morphological and physiological alterations in the diatom <i>Gomphonema pseudoaugur</i> due to heavy metal stress.</b>	<b>Ecological Indicators</b>	<b>1470-160X</b>	<b>19</b>	<b>4.221</b>

<b>2016</b>	Kumar, D., <b>Pandey, L.K.</b> , Gaur, J.P. <b>Metal sorption by algal biomass: from batch to continuous system.</b>	<b>Algal Research</b>	<b>2211-9264</b>	<b>69</b>	<b>4.008</b>
<b>2016</b>	Rai, J., Kumar, D., <b>Pandey, L.K.</b> , Yadav, A., Gaur, J.P. <b>Potential of cyanobacterial biofilms in phosphate removal and biomass.</b>	<b>Journal of Environme ntal Managemen t</b>	<b>0301-4797</b>	<b>17</b>	<b>5.647</b>
<b>2018</b>	Kumar, D., <b>Pandey, L.K.</b> , and Gaur J.P. <b>Growth of <i>Phormidium bigranulatum-</i> dominated mat in relation to nature of the substratum, time, pH and nutrient availability.</b>	<b>Environme ntal engineering and managemen t journal</b>	<b>1582-9596</b>	<b>3</b>	<b>1.186</b>
<b>2012</b>	Kumar, D, Singh, A. <b>Pandey, L.K.</b> and Gaur, J.P. <b>Sorption of Methylene blue by an <i>Oscillatoria sp.-</i> Dominated cyanobacterial mat.</b>	<b>Bioremediat ion Journal</b>	<b>1088-9868</b>	<b>3</b>	<b>1.724</b>
<b>2010</b>	Kumar, D., <b>Pandey, L.K.</b> and Gaur, J.P. <b>Evaluation of various isotherm models, and metal sorption potential of</b>	<b>Colloids and Surfaces B: Biointerface s</b>	<b>0927-7765</b>	<b>3</b>	<b>4.389</b>

	<b>cyanobacterial mats in single and multi-metal systems.</b>				
<b>2010</b>	Kumar, D., Prakash, B., <b>Pandey, L.K.</b> and Gaur, J.P. <b>Sorption of paraquat and 2,4-D by <i>Oscillatoria</i> sp.-dominated cyanobacterial mat.</b>	<b>Applied Biochemistry and Biotechnology</b>	<b>0273-2289</b>	<b>16</b>	<b>2.277</b>
<b>2010</b>	Kumar, D., Kumar, M., <b>Pandey, L.K.</b> and Gaur, J.P. <b>Methylene blue sorption capacity of some common waste plant materials.</b>	<b>Chemical Engineering Communications</b>	<b>0098-6445</b>	<b>13</b>	<b>1.802</b>

**(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							
	<b>1.</b>	Park, J., Brown, M.T., Lee, H., Vieira, C., <b>Pandey, L K,</b> Choi, E., Depuydt, S., Hader, D-P., Han, T., <b>Aquatic ecosystems in a</b>	<b>UV-B radiation and the green-tide forming macroalgae <i>Ulva</i></b>	<b>CRC press</b>	<b>2018</b>	<b>9781138350052</b>	<b>http://hdl.handle.net/10026.1/13126</b>	<b>1</b>

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

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

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

	<b>al Health Sciences)</b>				
<b>(f) Seminars/Conferences/Workshops Organized-NA</b>					
<b>(g) Projects (With Title, Year, Grants, Funding Agency and Collaborations)</b>					
Year	Name of Project	Funding Agency	Amount	Duration	
				From	Till
<b>2019-2020</b>	<b>Evaluating potential of diatoms as a tool for biomonitoring, bioremediation and biofuel production</b>	<b>UGC Start Up Grant (BSR)</b>	<b>10 Lakhs</b>	<b>06 Sep. 2019</b>	<b>2021</b>
<b>2021-2023</b>	<b>Exploring newer diatom metrics for assessing the integrity of fluvial ecosystem</b>	<b>SERB-SRG</b>	<b>29 Lakhs</b>	<b>06 Feb. 2021</b>	<b>2023</b>
<b>2020-2023</b>	<b>Exploring deformities and lipid bodies in diatoms as an indicator of metal pollution in aquatic ecosystem</b>	<b>ICMR-EMR</b>	<b>38 Lakhs (Recommended)</b>	<b>NA</b>	<b>NA</b>
<b>(h) Administrative Positions/Assignments Held</b>					
Post	Organization	Duration			
		From	To		
<b>Warden</b>	<b>MJPRU (Nanaji Deshmukh chatravas)</b>	<b>30.12.2019</b>	<b>24.12.2020</b>		
<b>Asst. Warden</b>	<b>MJPRU (Mains hostel)</b>	<b>11.03.2019</b>	<b>24.12.2020</b>		
<b>Asst. DSW</b>	<b>MJPRU</b>	<b>12.07.2018</b>	<b>Continue</b>		
<b>(i) Seminar/Conference Presentations</b>					
<b>International</b>					
Name of Conference	Conference Paper	Place of Conference	Date of Conference		
<b>International Conference on Molecular Biology and Biotechnology (ICMBB)</b>	<b>Biosorption of metals and methylene blue by <i>Oscillatoria</i> sp. dominated cyanobacterial mat.</b>	<b>Banasthali University</b>	<b>October 19-21, 2008</b>		
<b>International symposium on phycological research</b>	<b>Participated</b>	<b>BHU, Varanasi</b>	<b>February 25-27, 2010</b>		
<b>International conference</b>	<b>Sorptive removal of</b>	<b>BHU, Varanasi</b>	<b>Dec, 4-6, 2009</b>		

on emerging trends in biotechnology	methylene blue by an <i>Oscillatoria</i> sp. dominated cyanobacterial mat		
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 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	BHU, Varanasi	2009

	<b>plant sciences</b>		
<b>Impact of environmental changes on human life</b>	<b>Heavy metal toxicity to a periphytic assemblage</b>	<b>S.S.K.G.D.C. Allahabad</b>	<b>November 20-21, 2010</b>
<b>Emerging trends in plant sciences</b>	<b>Metal sorption potential of cyanobacterial mats in single and multi-metal systems</b>	<b>BHU, Varanasi</b>	<b>March 03-04, 2011</b>
<b>Emerging trends in plant sciences</b>	<b>Morphological abnormalities in diatoms exposed to heavy metal stress</b>	<b>BHU, Varanasi</b>	<b>March 03-04, 2011</b>
<b>Writing research papers</b>	<b>Participated</b>	<b>BHU, Varanasi</b>	<b>June 10-11, 2011</b>
<b>Faculty Development Program on "Research Methods and Data Analysis Using SPSS &amp; AMOS"</b>	<b>Participated</b>	<b>MJP Rohilkhand University, Bareilly</b>	<b>Jan 27 - Feb 1, 2020</b>
<b>(j) Memberships of Academic/Professional Bodies</b>			
<b>1. The Korean Society of Phycology.</b>			
<b>2. The Indian Botanical Society.</b>			
<b>(k) Participation in Community Service / Exchange Programme / Consulting Activity</b>			
<b>-No.</b>			
<b>(l) International Academic Exposure</b>			
<b>More than 2 years of post doctoral research experience in Incheon National University, Incheon, South Korea.</b>			
<b>(m) Any Other Details</b>			
<b><a href="http://indianalgae.co.in">http://indianalgae.co.in</a></b>			

Signature of Faculty Member