

Bio – Data of Prof. Jitendra Pandey

Date and Place of Birth : 02.07.1962; Azamgarh, Uttar Pradesh

Present Position : Co-ordinator and Professor of Environmental Science
Environmental Science Division
Centre of Advanced Study in Botany
Banaras Hindu University
Varanasi – 221005, India

Education : M. Sc. (BHU, All Through First)
Ph.D. (1992; BHU)

Specialization : Ganga River Ecology, Water Resource Conservation,
Cross-domain Carbon Linkages, Environmental
Monitoring and Assessment, Sustainable Agriculture and
Food Security

Positions Held

Position held	Name of Institution	Period	
		From	To
1. Junior Research Fellow	DOEn (BHU)	15.09.88	10.04.89
2. Junior Research Fellow	U.G.C. (BHU)	11.04.89	10.04.91
3. Senior Research Fellow	U.G.C. (BHU)	11.04.91	31.12.93
4. Research Associate	C.S.I.R. (BHU)	01.01.94	30.03.94
5. Junior Scientific Officer (Scientist A)	Birbal Sahni Institute of Palaeobotany	31.03.94	09.02.97
6. Assistant Professor	M. L. Sukhadia University	10.02.97	09.11.05
7. Reader	Banaras Hindu University	10.11.05	09.11.08
8. Associate Professor	Banaras Hindu University	10.11.08	09.11.11
9. Professor	Banaras Hindu University	10.11.11	Contd.

No. of Ph. D. Supervised : 20

1. Air quality degradation around a phosphate fertilizer factory and its impact on plants (G. Nagda, 2002)
2. Environmental impact analysis of anthropogenic activities on a fresh – water tropical lake (A. Verma, 2004)
3. Environmental impact of drought and catchment heterogeneity on ecosystem level properties of fresh – water tropical lakes (M. S. Yaduvanshi, 2005)
4. Air quality degradation and its impact on plant in a tropical urban environment (A. Chasta, 2005)
5. Studies on the impact of enhanced UV – B radiation on the ecophysiology of wheat (*Triticum aestivum*) and Gram (*Cicer arietinum*) as modified by moisture and nitrogen status of the root environment (K. Chaplot, 2007)
6. Studies on the impact of SO₂ and NO₂ on the ecophysiology of two woody perennials as modified by moisture and nitrogen status of the root environment (T. Joshi, 2007)
7. Studies on the interactive effects of sulphur dioxide and salt of cadmium and zinc on seedlings of *Mangifera indica* (S. Tamboli, 2009)
8. Impacts of Atmospheric Deposition on Ganga River at Varanasi (K. Shubhashish, 2010)
9. Environmental impacts of atmospheric deposition of pollutant aerosols on organic farming system (R. Pandey, 2011)
10. Environmental impacts of atmospheric deposition of nutrients and trace elements on selected vegetable crops under organic farming (A. Singh, 2012)
11. Environmental impact analysis of atmospheric Deposition and Landscape Composition on Ganga River at Varanasi (Anand Vikram Singh, 2014)

12. Estimation of potential source strength of Indian landfills for emission of greenhouse gases (Monojit Chakrobarty, 2015)
13. Studies on trees of terai region of Uttar Pradesh with special reference to their role as indicator of habitat heterogeneity and anthropogenic disturbances (Omesh Bajpai, 2015)
14. Influence of atmospheric deposition and catchment heterogeneity on carbon capture and storage in River Ganga (Rachna Singh, 2016)
15. Temporal and spatial variability in nutrients and trophic status in Ganga River: Role of trans-boundary drivers (Amita Yadav, 2017)
16. Investigations on cross-boundary determinants of water quality and associated shifts in carbon dynamics in Ganga River: A climate change perspective (Pooja Kaushik, 2017)
17. Catalytic control of carbon monoxide, hydrocarbons and nitrogen oxides from automobiles (Pratichi Singh, 2018)
18. Ecological investigation on Ganga River (Shraddha Tripathi, 2018)
19. Anthropogenically induced carbon and nutrients imbalances and their implications in Ganga River. (Deepa Jaiswal, 2020)
20. A basin-scale study on carbon, nutrient and metal pollution and ecological risk in the Ganga River and the Hooghly River estuary. (Ekabal Siddiqui, 2021)

Ongoing Ph.D/research

21. Investigations on carbon fluxes and transport in Ganga River. (Kavita Verma; NASI, JRF)
22. Investigations on the trophic state variabilities in the Ganga River. (Dilip Kumar Prajapati; CSIR-JRF)

23. Investigations on metal pollution in the Ganga River.
(Neha Naaz; UGC-JRF)

24. Impacts of anthropogenic activities on ecological
Processes in the Ganga River. (Shivam Gupta; CSIR-
JRF)

25. Human induced alterations in the ecology of Ganga
River. (Bunty Gupta; UGC-JRF)

UGC- Dr. D.S. Kothari post doctoral fellow:

1. Alkaline phosphatase as a marker of P-eutrophication
of Ganga River: A metabolic and genomic approach.
(Dr. Madhulika Singh)

No of Ph.D. Evaluated : 30

No. of Students Currently : 05
Supervising

M.Sc. dissertation supervised: More than 76

Research Experience : 31 + years

Teaching Experience : 23 + years (UG and PG both)

Total Publications : 178 (Including 4 text books)

Projects Completed : 04

1. Microbial biomass at land – water interface regulate
ecosystem level properties of a freshwater dry tropical
woodland lake. International Foundation for Science
(Sweden), April 2003-March 2006; Rs. 4,47,205/-

2. Potential for the development of rural and eco-tourism
in Rajasthan. (AS CO-PI). UGC, New Delhi, April 2003-
March 2006; Rs. 5,66,000/-

3. Monitoring and budgeting the atmospheric deposition
of nutrients and trace elements in Ganga River and
possible strategies for its restoration and management in

Varanasi region. UGC, New Delhi, April 2007- March 2009; Rs. 4,90,507/-

4. Methanotrophic community structure and their potential for methane oxidation in tropical dry deciduous forest soils (Collaborative project with SKD (PI) and JP (Co-PI)) DST, New Delhi, February 25th 2016 – February 24th 2019, Rs. 37.95 lakhs.

Projects with NASI Ganga Researchers

1. Environmental impact analysis of atmospheric deposition and landscape composition on Ganga River at Varanasi (Anand Vikram Singh, Ph. D. awarded, 2014)
2. Investigations on carbon fluxes and transport in Ganga River (Kavita Verma; April, 2016 to March 2019)

Member, Editorial Board : **Air Soil and Water Research (Italy)**
: **J. Environ. Chem. Ecotoxicol. (Nigeria)**

Referee to Journal : **2 (India), 8 (Foreign)**

Courses developed

P.G. Courses

1. Env. Sci. (BHU) : 07 Papers
2. Env. Sci.(MLSU):07 Papers
3. Env. Sci. (North Gujarat University) : 01 Paper
4. Botany (BHU) : 01 Paper

U.G. Courses

1. Env. Sci.(MLSU):09 Papers
2. Ancillary Botany (BHU) : 01 Paper

Administrative Experience

1. **In-Charge**, Department of Environmental Science, M. L. S. University, Udaipur (09/ 06 / 2003 – 09/ 11 / 2005)
2. **Member, Board of Studies** (Env. Sciences) MLSU (1997 – 2005)
3. **Member, Board of Studies** (Env. Sciences) North Gujarat University, Patan (2003)
4. **Convener**, Departmental library, (1998 – 2005) MLSU, Udaipur
5. **Convener**, Departmental Purchase Committee (1998 – 2001), MLSU
6. **Officer – In – Charge**, Departmental Store (1998 – 2001), MLSU
7. **Member, Committee of Courses** in Environmental Science and Botany, BHU

- 8. Member,** Time Table Committee, Department of Botany, BHU (2008-09)
- 9. Member,** Various Department and Faculty Level Committees
- 10. Coordinator,** 4th Refresher Course in Env. Sci., ASC, BHU (March 8 to 28, 2006)
- 11. Coordinator,** 6th Refresher Course in Env. Sci., ASC, BHU (Feb.9 to 29, 2008)
- 12. Organizing Secretary,** National Symposium on “Current Challenges in Plant Sciences: Gene to Ecosystem” held at BHU on 24th – 25th March, 2009.
- 13. Coordinator,** 1st Refresher course in Env Science and Technology, ASC, BHU (October 27 to November 16, 2010)
- 14. Organizing Secretary,** National Symposium on Current Status and New Horizons of Ecological Sciences and Environmental Biotechnology (ESEB-13), held at Department of Botany, BHU on 1-3 March, 2013
- 15. Member, Expert Committee on Curriculum Designing** (M.Sc. Env. Sciences) Indira Gandhi National Open University, New Delhi (27th-28th September, 2016)
- 16. Member, Inspection Committee of Bar Council of India** for KIIT and Utkal University, Bhubaneswar (2nd and 3rd November, 2016)
- 17. Member, Expert Committee on Ph.D. program** (Env. Sciences) Indira Gandhi National Open University, New Delhi (30th January, 2017)
- 18. Convener,** National symposium on Issues and Challenges in Ecological Sciences (23rd-25th February, 2017), Department of Botany, BHU, Varanasi
- 19. Coordinator, Environmental Science Program, Department of Botany, BHU from 24th Feb., 2020.**

Award / Prize/ Honor

- 1. “The INTER” Research Essay Grant Prize, Japan, (700 U.S. Dollars) (1992).**
- 2. Ibaraki Kasumigaura Prize – 2009, Japan (2700 US Dollars)**
- 3. Junior and Senior Research Fellowship by University Grant Commission (1988).**
- 4. First Prize in oral presentation at Banaras Hindu University (1992)**
- 5. World Green Award, INGP, New Delhi (1999).**
- 6. Twenty First Century Development Award (2004), Welfare Oriented Weltanschauung and World Institution Building Program, Udaipur.**
- 7. First Best Article Award, IMSA, New Delhi (2005).**
- 8. Full sponsorship for attending Planet under Pressure Conference, Oxford University, London**

Membership / Fellowship of Professional Learned Bodies

- 1. Life Member,** The Indian Science Congress Association
- 2. Elected member,** New York Academy of Sciences
- 3. Fellow,** International Society of Conservators and Explores of Natural Resources
- 4. Fellow,** Indian Association of Aquatic Biologist

5. Fellow, National Academy of Environmental Sciences

Foreign Invitation

1. IFHP/CIB/WMO/IGU International Conference of Urban Climate, Planning and Building Kyoto, Japan.
2. International Symposium on Urban Climate, Air Pollution & Planning in Large Tropical Cities, Mexico.
3. 9th World Clean Air Congress and Exhibition, Canada.
4. The 15th International Energy Conference, Seoul, Korea
5. Millennium Wetland Event, Quebec, Canada.
6. World Congress on Science, Engineering and Technology, Oct 29th – 31st, 2008, Venice, Italy.
7. World Environmental and Water Resources Congress – 2009, Environmental and Water Resources Institute, Kansas city, Missouri, USA.
8. 13th World Lake Conference , Wuhan, China
9. Planet under Pressure Conference, Oxford University, London
10. International Conference on Mountain Hydrology and Meteorology for the Sustainable Development organized by Society of Hydrologists and Meteorologists, Nepal

Orientation / Refresher Course Attended

1. **28 Days** orientation course at ASC, BHU (2000).
2. **21 Days** Refresher Course in Environmental Science at MLSU, Udaipur (Dec 2003).
3. **21 Days** Refresher Course in Environmental Science at MLSU, Udaipur (Dec 2004).
4. **21 Days** Refresher Course in Botany at MLSU, Udaipur (Sept – Oct, 2005).

Workshop and Trainings

1. Workshop on Gas – Chromatography technique for hydrocarbon measurements, Dec. 1988, Bhabha Atomic Research Centre, Bombay.
2. Thirteen Week Professional Course on Palaeo – Climatology at Department of Geology, Lucknow University, Lucknow (1995).

3. One month in – house computer training programme at B. S. I. P., Lucknow (1995).
4. Regional Workshop on application of Satellite Remote Sensing for Natural Resources Management at Rajasthan Vidyapeeth (1999).
5. Workshop on Curriculum designing in Environmental Sciences at North Gujarat University, Patan (Invited member) (2003).
6. Workshop on Remote Sensing and Geographical Information System, Department of Geography, MLSU, Udaipur, Feb 25 – 26, 2005.

Technical Session Chaired

1. National Seminar on Management of Biomedical Waste: Need of 21st Century, 7 – 8 April, 2004, IIEE, Udaipur.
2. National Seminar on Environmental Protection and Sustainable Development: Challenges of the 21st Century, Bihar Industries Association, Industry House, Library Road, Patna 10 – 11 March, (2007).
3. National Conference on Bio-functions, Biodiversity and Plant Resource Utilization at DDU Gorakhpur University, 30 – 31 Jan, 2009.

Invited Lectures / Lead Lectures

1. Delivered **one** lecture on water resource management in “Training Course of Environment Management in Water Sector” organized by Irrigation Management and Training Institute, Government of Rajasthan, Kota on 17th June, 2005.
2. Delivered **one** D. S. Kothari Memorial Lecture in RML Avadh University, Faizabad on 13th Oct. 2007.
3. Delivered **one** lecture in Refresher Course in at ASC, BHU, Varanasi on 10th August 2008.
4. Delivered **three** lectures in Refresher Course in Botany at DDU Gorakhpur University on 13th / 14th Nov., 2008.
5. Delivered **one** lecture in Refresher Course in Botany at ASC, BHU, and Varanasi in 5th Jan 2009.

6. Delivered **one** lead lecture in National Conference on Biofunctions, Biodiversity and Plant Resource Utilization, DDU Gorakhpur University on Jan 31st, 2009.
7. Delivered **two** lectures in Refresher Course in Botany at DDU Gorakhpur University on 26th Oct., 2009.
8. Delivered **one** lecture in Refresher Course in Environmental Science and Technology at ASC, BHU, and Varanasi on 3rd November, 2010.
9. Delivered **one** lecture in 55th Orientation Course at ASC, BHU, Varanasi on 19th November, 2010.
10. Delivered **one** lecture in National Conference on Environmental Problems in India and Challenges to Plant Biologists at UP (Autonomous) College, Varanasi on 4th Feb. 2012.
11. Delivered **one** lecture in National Conference on Climate Change: Problems and Solutions. SB PG College, Baragaon, Varanasi on 17th Dec., 2012.
12. Delivered **two** lectures in Refresher Course in Botany at DDU Gorakhpur University on Feb., 2013.
13. Delivered **two** lectures in Refresher Course in Environmental Science at National Academy of Sciences, India Allahabad on Dec., 18, 2013.
14. Delivered **two** lectures in “Short – Term Course on Water” organized by ASC, in the Department of Zoology, DDU Gorakhpur University on Dec., 21, 2013.
15. Delivered **two** lectures in Refresher Course in Botany at DDU Gorakhpur University on Feb., 1, 2014.
16. Delivered invited talk in the International Conference on Environmental Technology and Sustainable Development: Challenges and Remedies held on 21- 23 Feb., 2014 at Department of Environmental Sciences, B. R. Ambedkar University, Lucknow.
17. Delivered keynote lecture in the National Seminar on Climate Change and Environmental Threat to Public Health and Sustainable Agriculture held on 30- 31 Aug., 2014 at Department of Botany, Sunbeam College for Women, Varanasi.
18. Delivered invited lecture in the National Seminar on Strategies to Understand Sustainable Utilization of Plant Wealth held on 29- 30 September, 2014 at Department of Botany, Gujarat University, Ahmadabad.

19. Delivered two lectures in UGC- short- term course on Soil: A Renewable Resource on November 15, 2014 at ASC, DDU University, Gorakhpur.
20. Delivered keynote lecture in the National Conference on Harmony with Nature- 2014 on 28- 30 November, 2014 at Department of Environmental Sciences, MLS University, Rajasthan.
21. Delivered one lecture as mentor DST- ISPIRE (Innovation in Science Pursuit for Inspired Research) Program on 15th December, 2014 at Kashi Institute of Technology, Varanasi.
22. Delivered guest lecturer in the National Seminar on Impact of industrial effluent on the self purification capacity of Ganga River, held on 29-30, March, 2015 at Department of Chemistry, HC PG College, Varanasi.
23. Delivered keynote lecturer in the National Seminar on Environmental Conservation in Pauranic Literature held on 25-27, April, 2015 at Sampurnanand Sanskrit University, Varanasi.
24. Delivered one lecturer in 2- week summer school- cum- workshop on Water and Waste Water Treatment (May 21 to June 5, 2015) organized by IIT- BHU, Varanasi.
25. Delivered invited lecturer on World Environment Day, 5th June, 2015 as guest of honor in the inaugural function of 2- week summer school at National Academy of Sciences, India (Allahabad).
26. Delivered science extension lecturer organized by National Academy of Sciences, India (Allahabad) on September 19, 2015 at Prime Minister's SAGY village Jayapur, Varanasi.
27. Delivered science extension lecturer organized by National Academy of Sciences, India (Allahabad) on October, 31st 2015 at Columbus International School Ballia.
28. Delivered invited lecturer in "85th Annual Session and Symposium on Marine and Freshwater ecosystems: Role in National Development" organized by National Academy of Sciences, India on 7th December, 2015 (6th to 8th Dec.) at KIIT, Bhubaneswar.
29. Delivered **two** lectures in Refresher Course in Environmental Science at Hari Singh Gaur University, Sagar on Feb., 3, 2017.

30. Delivered **one** lecture on “The significance of microbes on maintaining water quality of Ganga River” in Namami Gange program under National Mission for Clean Ganga organized by Varanasi Forest Division on 29th April, 2017.
31. Delivered invited lecture on “Rejuvenation of Ganga River: Need for integrated river basin management” in the national seminar on environmental and biotechnological prospects and issues at Ranchi Women’s College, Ranchi on 23rd June, 2017.
32. Delivered invited lecture on “Alternative Alert Systems for River Health: Need for Ganga River Basin Management” in 87th Annual Session and Symposium on Basic Research-Its Role in National Development at Mahatma Jyotiba Phule University, Pune on 8-10 December, 2017.
33. Delivered one lecture in Refresher Course in Environmental Studies at UGC-HRD Centre, BHU, on 2nd June 2018.
34. Delivered keynote lecture on “River Conservation” at the eve of World Environment Day, 2018 at National Academy of Sciences, India, Allahabad.
35. Delivered DST-INSPIRE lecture on “The Ganga River: Ecological resilience and rejuvenation” at S. D. Girls College, Allahabad on 27th October, 2018.
36. Delivered invited lecture on “The ecology of Ganga River: Missing links for management” in Annual Conference (27th-28th December, 2018) organized by All India Science Teachers Association (AISTA) at BHU, Varanasi.
37. Delivered invited lecture on “Ganga River: Health Diagnostics from a Conservation Perspective” in National Seminar on Environmental degradation, land-use change and sustainable development (15th-16th February, 2020) organized by M.G.K.V.P. (Gangapur Campus), Varanasi.
38. Delivered lecture (online) in Refresher Course in Environmental Science at Rajasthan University, Jaipur on 13th January, 2021.
39. Delivered invited lecture on “Wetlands: Diversity and ecological significance” on the eve of World Wetland Day organized by Varanasi Forest Division on 2nd February, 2021.

Paper Presented in Seminar / Symposia

1. XIII Botanical Conference and Symposium on New Spheres of Botanical Research and Society BHU, Varanasi (1990).
2. SAARC Countries Conference on Environment Management in Developing Countries, Raebareli (1991).
3. National Conference on Eco restoration of Natural Resources, Varanasi (1994).
4. Golden Jubilee Conference on Physical and Biological Changes Across the Major Geological Boundaries, B.S.I.P., Lucknow (1996).
5. National Symposium on Recent Researches in Sedimentary Basins: Implication for Exploration of Natural Resources, BHU, Varanasi (1996).
6. National Seminar on State of Higher Education and policy Imperatives for its Balance Development, M. L. S.U., Udaipur (2000).
7. XI National Symposium on Environment (Organized by BARC), Udaipur (2002)
8. XIX National Convention of Environmental Engineers (Organised by Institute of Engineers) Udaipur (2003).
9. XIX National Convention of Engineers (Organized by Institute of Engineers) (2003).
10. National Seminar on Management of Biomedical Waste: Need of 21st Century 7 – 8 April 2004, IIEE, Udaipur.
11. National Symposium of Management of Aquatic Resource for Biodiversity Maintenance and Conservation, JNV University, Jodhpur, Feb 24, 2004.
12. National Seminar on Environmental Planning and Management in Mining and Mineral Industries, Department of Geology, MLSU, Udaipur, 11 – 12 March, 2005.
13. Urban Lakes in India: Conservation, Management and Rejuvenation (Part-II) organized by National Institute of Hydrology (Roorkee), Udaipur (2005)
14. National Seminar on Environmental Protection and Sustainable Development: Challenges of the 21st Century Bihar Industries Association, Industry house, Library Road, Patna (2007).
15. National Conference on Biofunctions, Biodiversity and Plant Resource Utilization at DDU Gorakhpur University, 30 – 31 Jan, 2009.

16. National Symposium on The Planet Earth: Its Finite Resources and Human Civilization (17 – 19 March, 2009).
17. National Symposium on Current Challenges in Plant Sciences : Gene to ecosystem (24 – 25 March, 2009)
18. 13th World Lake Conference at Wuhan, China (1st to 5th November, 2009)
19. International Symposium on Phycological Research, BHU, Varanasi (25th to 27th February, 2010)
20. International conference on New Trends in Life Testing, Bayesian Inference, Sampling Theory, Biostatistics, Bioinformatics and Computer Application, BHU, Varanasi (January 5 – 8, 2011)
21. Planet under Pressure Conference, Oxford University, London, 25- 29 March, 2012
22. Third International conference on Mountain Hydrology and Meteorology for the Sustainable Development, Kathmandu, Nepal (10-11 April, 2017).

List of top 10 Publications

1. **Pandey, J.** and M. Agrawal (1993). Protection of plants against air pollutants: role of chemical protectants. **Journal of Environmental Management** 37: 163 – 174. **(Impact Factor-5.647).**
2. **Pandey, J.** and M. Agrawal (1994). Evaluation of air pollution phytotoxicity in a seasonally dry tropical urban environment using three woody perennials. **New Phytologist**, 126: 53 – 61 **(Impact Factor-8.512).**
3. **Pandey, J.** and M. Agrawal (1992). Ozone: concentration variabilities in a seasonally dry tropical climate. **Environment International**, 18: 515 – 520 **(Impact Factor-7.577).**
4. Jaiswal, D. and **Pandey, J.*** (2019). An ecological response index for simultaneous prediction of eutrophication and metal pollution in large rivers. **Water Research**, 161: 423-438 **(Impact Factor-9.130).**
5. Chakraborty, M., Sharma, C., **Pandey, J.** and Gupta, P. K. (2013). Assessment of energy generation potentials of MSW in Delhi under different technological options. **Energy Conversion and Management** 75: 249–255 **(Impact Factor-8.208).**
6. Pandey, U. and **Pandey, J.*** (2008). Enhanced production of biomass, pigments and antioxidant capacity of a nutritionally important cyanobacterium *Nostochopsis lobatus*. **Bioresource Technology**, 99: 4520 – 4523 **(Impact Factor-7.539).**

7. Jaiswal, D. and **Pandey, J.*** (2020). Benthic hypoxia in anthropogenically-impacted rivers provides positive feedback enhancing the level of bioavailable metals at sediment-water interface. **Environmental Pollution**, 258: 113643. (**Impact Factor-6.792**).
8. Jaiswal, D. and **Pandey, J.*** (2021). River ecosystem resilience risk index: A quantitative predictor of resilience and critical transitions in human-impacted large rivers. **Environmental Pollution**, 268: 11557. (**Impact Factor-6.792**).
9. Jaiswal, D. and **Pandey, J.*** (2019). Hypoxia and associated feedbacks at sediment-water interface as an early warning signal of resilience shift in an anthropogenically impacted river. **Environmental Research**, 178: 108712 (**Impact Factor-5.715**).
10. Jaiswal, D. and **Pandey, J.*** (2019). Investigations on peculiarities of land-water interface and its use as a stable testbed for accurately predicting changes in ecosystem responses to human perturbations: A sub-watershed scale study with the Ganga River. **Journal of Environmental Management**, 238: 178-193 (**Impact Factor-5.647**).

Full List of Publications of Prof. Jitendra Pandey

Books

1. **Pandey, J.** and M. S. Sharma (2002). **Environmental Science: Practical and field Manual**. Yash Publishing House, Bikaner (Rajasthan).
2. Choudhary, B. L. and **J. Pandey** (2004). **Environmental Studies** (In Hindi) Apex Publications, Jaipur (Rajasthan).
3. Choudhary, B. L. and **J. Pandey** (2005). **Environmental Studies** (in English) Apex Publications, Jaipur (Rajasthan).
4. Chaudhary, B. L. and **J. Pandey** (2007). **Fundamentals of Ecology and Environment**. Apex publishing House, Udaipur, Jaipur (Rajasthan).

Book chapters/Proceedings

5. **Pandey, J.** and M. Agrawal (1991). Phytomonitoring of air pollution in an urban environment. Emerging issues in Asia. **Proc. 2nd IUAPP' A Regional Conference of Air Pollution 1**: 317 – 320 (**South Korea**).
6. **Pandey, J.** and M. Agrawal (1991). Effect of nitrogen dioxide on growth and yield of tomato. **In: Environmental management in developing countries**. A. K. Sinha, D. D. Pande, R. Kumar and R. Boojh (Eds.), Upper India Publishing House Pvt. Ltd., pp. 67 – 74.

7. Narayan, D., **J. Pandey**, J. Singh, N. Khanam and M. Agrawal (1991). Responses of *Oryza sativa* L. Cv. Mansuri plants to gaseous hydrogen fluoride pollutant. *In: Environmental management in developing countries*. A. K. Sinha, D. D. Pande, R. Kumar and R. Boojh (Eds.), Upper India publishing House Pvt. Ltd. , pp 139 – 146.
8. **Pandey, J.** Agrawal, M. and Narayan, D. (1992). Plant response to Ozone. In: Tropical Ecosystem : Ecology and Management Eds : Singh, K. P. and Singh, J. S., Wiley Eastern Limited, New Delhi.
9. **Pandey, J.**, M. Agrawal and J. Singh (1995) Chemical protectants and air pollutant damage to crop plants. *In: M. M. Srivastava (ed.) XI V 223 p.* Vedams e Books (P) Ltd, New Delhi.
10. Pandey, U. and **J. Pandey** (1999). Response of two strains of *Nostoc muscorum* to graded concentrations of fluoride. *Proc. Nat. Sem. Environ. & Health* **99**: 209 – 213.
11. **Pandey, J.** and A. Verma (2002). The impact of long – term catchment discharge on nutrient loading of two dry tropical fresh water lakes. *In: Proceedings of National Conference on Environmental Biology* (17 – 18 October, 2002), pp. 6-7, Rajkot (India).
12. **Pandey, J.**, G. Nagda and Anuya Verma (2002). Evaluation of air pollution phytotoxicity around a phosphate fertilizer factory. *XI National Symposium on Environment* (Organized by BARC.), Udaipur. pp. 152-155.
13. **Pandey, J.** (2002). Plant fossils as a marker of palaeoenvironment. *In: Modern Trends in Environmental Biology*. G. Tripathi (Ed.) CBS Publishers, New Delhi, pp. 247-254.
14. Pandey, U. and **J. Pandey** (2002). Cultural ecotourism: Placing a value on the environment. *In: Cultural Tourism in India*. A. Singh (Ed.) Raj Book Enterprises, Jaipur (India), pp. 45-52.
15. **Pandey, J.** and M. S. Yaduvansi (2003). Impacts of catchment characteristics on a tropical freshwater woodland lake ecosystem. *Proc.XII National Symposium on Environment* (Organized by BARC), Tehri, Garhwal, pp. 141-147.
16. **Pandey, J.** and M. S. Yaduvansi (2003). The influence of catchment heterogeneity on microbial biomass dynamics at land-water interface of fresh water tropical lakes. *Proc. XIX National Convention of Environmental Engineers* (Organized by Institute of Engineers) Udaipur, pp.156-161.
17. **Pandey, J.** and M. S. Yaduvansi (2004). Impact of catchment nutrient import on microbial biomass dynamics at land water interface of two freshwater tropical lakes. *National Symposium on Management of Aquatic Resources for Biodiversity Maintenance* (Organised by J N V University and NATCON, India), pp. 14 – 15.
18. **Pandey, J.** and M. S. Yaduvansi (2004). Impact of catchment land-use on carbon, nitrogen and phosphorus import in two freshwater lakes of Rajasthan. *Proc. XIII*

National Symposium on Environment. (Organized by BARC). Shillong, pp.240 – 244.

19. Pandey, U. and **Pandey, J.** (2005). The influence of catchment modifications on two freshwater lakes of Udaipur. **In: Urban lakes in India: Conservation, Management and Rejuvenation (Part-I).** K. K. S. Bhatia and S.D. Khobragade (Eds.) National Institute of Hydrology, Roorkee. pp. 256-262.
20. **Pandey, J.** and Yaduvanshi, M. S. (2005). Rejuvenation of urban lakes in dry tropics: Problems and perspectives. **In: Urban Lakes in India: Conservation, Management and Rejuvenation (Part-II).** K.K.S.Bhatia and S.D. Khobragade (Eds.) National Institute of Hydrology, Roorkee. pp. 321-328.
21. Yaduvanshi, M. S. and **Pandey, J.** (2006). Impact of catchment nutrient import on microbial biomass dynamics at land – water interface of two fresh water tropical lakes. **Aquatic Biodiversity Management and Conservation** 9: 87 – 94.
22. **Pandey, J.** and Shubhashish, K. (2006). Atmospheric deposition of nutrient elements at selected urban sites of Varanasi, India. **In: Environmental Degradation and Conservation** (Ed. D. D. Pandey), Jaspal Prakashan, Patna. pp. 10 -15.
23. Chaplot, K. and **Pandey, J.** (2006). Combined effect of UV – B and water stress on wheat. **All India Seminar on Environmental Impact Assessment** (18 – 19 Aug. 2006). Institution of Engineers, Udaipur. pp. 73 – 80.
24. **Pandey, J.** (2007). Environmentally Ethical Decision – making: Corporate Environmental Responsibility. **In: National seminar on environmental protection and sustainable development: Challenges of the 21st century** (10th & 11th March). Bihar Industries Association, Industry House, Library Road, Patna pp. 36 – 42.
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