




FACULTY PROFILE

Rahul Bhadouria



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Designation		Assistant Professor				
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Educational Qualifications						
Degree	Institution				Year	
Ph.D.	Banaras Hindu University, Varanasi, U.P.				2016	
PG (M. Sc.)	A P S University, Rewa, M.P.				2003	
UG (B. Sc.)	Dr. RML Awadh University, Faizabad, U. P.				2000	
UGC-NET	UGC- New Delhi				2003	
Career Profile						
<ul style="list-style-type: none"> ➤ UGC-Dr. DS Kothari Post-Doctoral Fellow at Department of Botany, University of Delhi, (12/03/201 to 11/03/2021) <p>Title: Plant community assembly, functional diversity and soil attributes along forest-savanna continuum in India</p> <ul style="list-style-type: none"> ➤ Post doctoral researcher at School of Environmental Science, Jawaharlal Nehru University, New Delhi (08/04/2022-20/11/2022) 						
Research Interests / Specialization						
<ul style="list-style-type: none"> ➤ Management of Soil C Dynamics to Mitigate Climate Change ➤ A perspective on tree seedling survival and growth attributes in tropical dry forests under the realm of Climate Change ➤ Plant community assembly, functional diversity, and soil attributes along the forest-savanna-grassland continuum in India. ➤ Restoration of degraded mountainous landscape 						
Teaching Experience (Subjects/Courses Taught)						
AEC- Environmental Science: Theory into Practice-1 AEC- Environmental Science: Theory into Practice-2 GE: Green Technologies G.E. - Circular Economy and Environmental Sustainability SEC: Sustainability plans for a business SEC- Environmental Auditing						

Research Guidance
<u>NA</u>
Publications Profile
Scopus Author ID: 57192911833
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Google Scholar ID: https://scholar.google.co.in/citations?hl=en&user=_bM9c0oAAAAJ
Books
<ul style="list-style-type: none"> ➤ Bhadouria R, Tripathi SN, Srivastava P, Singh P (2020) Handbook of Research on the Conservation and Restoration of Tropical Dry Forests, IGI Global, Hershey PA, ISBN-1799800148, DOI: 10.4018/978-1-7998-0014-9 ➤ Singh P, Singh R, Singh V, Bhadouria R (2021), Pollutants and Water Management: Resources, Strategies, and Scarcity, John Wiley & Sons Ltd., United Kingdom, ISBN- 978-1-119-69367-3, DOI: 10.1002/9781119693635 ➤ Singh P, Singh R. Varma P, Bhadouria R, Kumar A (2021) Plant-Microbes-Engineered Nano-particles (PM-ENPs) Nexus in Agro-Ecosystems - Understanding the Interaction of Plant, Microbes and Engineered Nano-particles (ENPS), Springer Nature Switzerland, ISBN- 978-3-030-66955-3, DOI: https://doi.org/10.1007/978-3-030-66956-0 ➤ Chaturvedi RK, Singh R, Bhadouria R (2021) Tropical Dry Forests: Emerging Features and Ecological Perspectives. Nova Science Publishers, NY, USA, ISBN: 978-1-53619-543-9 ➤ Bhadouria R, Upadhyay S, Tripathi S, Singh P (2022) Urban Ecology and Global Climate Change, John Wiley & Sons Ltd., United Kingdom, ISBN-978-1-119-80718-6, DOI:10.1002/9781119807216

- **Bhadouria R**, Singh S, Tripathi SN, Singh P (2023) **Understanding Soils of Mountainous Landscapes: Sustainable Use of Soil Ecosystem Services and Management**, Elsevier, **ISBN:** 9780323959254, DOI: <https://doi.org/10.1016/C2021-0-01577-7>
- Sachchidanand Tripathi, Rahul Bhadouria, Pratap Srivastava, Rishikesh Singh, Rajkumari Sanayaima Devi (2023), **Ecophysiology of Tropical Plants: Recent Trends and Future Perspectives**, CRC Press, **ISBN-** 9781003335054, DOI: <https://doi.org/10.1201/9781003335054>
- Rahul Bhadouria, Sachchidanand Tripathi, Pardeep Singh, P. K. Joshi, Rishikesh Singh, (2023), **Urban Metabolism and Climate Change: Perspective for Sustainable Cities**, Springer Cham, **ISBN-** 978-3-031-29421-1, DOI: <https://doi.org/10.1007/978-3-031-29422-8>
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- Rishikesh Singh, Pardeep Singh, Sachchidanand Tripathi, K. K Chandra, **Rahul Bhadouria** (2023), **Xenobiotics in Urban Ecosystems: Sources, Distribution and Health Impacts**, Springer, **ISBN-** 978-3-031-35774-9, **DOI:** <https://doi.org/10.1007/978-3-031-35775-6>
- Sachchidanand Tripathi, Rahul Bhadouria, Rishikesh Singh, Rajkumari Sanayaima Devi (2024), **Eco-Politics and Global Climate Change**, Springer, **ISBN-** 978-3-031-48098-0, **DOI:** <https://doi.org/10.1007/978-3-031-48098-0>
- **Rahul Bhadouria**, Sachchidanand Tripathi, Pardeep Singh, Rishikesh Singh, Harminder Pal Singh (2024), Organic Micropollutants in Aquatic and Terrestrial Environments, **Springer Nature Switzerland**, **ISBN:** 978-3-031-48976-1, **DOI:** <https://doi.org/10.1007/978-3-031-48977-8>
- P. K. Joshi, K. S. Rao, **Rahul Bhadouria**, Sachchidanand Tripathi, Rishikesh Singh (2024)) Blue-Green Infrastructure for Sustainable Urban Settlements:

Implications for Developing Countries Under Climate Change **Springer Nature Switzerland**, **ISBN:** 978-3-031-62292-2, **DOI:** <https://doi.org/10.1007/978-3-031-62293-9>

- Sachchidanand Tripathi, **Rahul Bhadouria**, Satish Chandra Garkoti (2024), Warming Mountains: Implications for Livelihood and Sustainability, **Springer International Publishing AG**, ISBN: 978-3031621963
- Rishikesh Singh, Vipin Kumar Singh, Arun Kumar, Sachchidanand Tripathi, **Rahul Bhadauria** (2024) Neonicotinoids in the Environment: Emerging Concerns to the Human Health and Biodiversity, **Springer Cham**, ISBN: 978-3-031-45342-7.

International Journals

- Srivastava P, Singh R, **Bhadouria R**, Tripathi S, Singh P, Singh H, Raghubanshi AS (2016) Organic amendment impact on SOC dynamics in dry tropics: A possible role of relative availability of inorganic- N pools. ***Agriculture, Ecosystems and Environment***, 235: 38-50 (**IF- 4.241**, Research article, **Elsevier**), **ISSN:** 0167-8809
- Tripathi S, **Bhadauria R**, Srivastava P, Singh R, Raghubanshi AS (2016) Abiotic determinants of tree seedling growth in tropical dry forests, ***Advances in Plant Physiology***, 17: 119-131, (**Scientific Publishers, India**), **ISSN-** 978-81-7233.
- Srivastava P, Singh PK, Singh R, **Bhadouria R**, Singh DK, Singh S, Afreen T, Tripathi S, Singh P, Singh H, Raghubanshi AS (2016) Relative availability of inorganic N pools sifts under land use changes: an unexplored variable in soil carbon dynamics. ***Ecological indicators***, 64: 228-236. (**IF- 4.229**, Research article, **Elsevier**), **ISSN:** 1470-160X
- **Bhadouria R**, Srivastava P, Singh R, Raghubanshi AS (2016) Understanding the ecology of tree seedling growth in dry tropical environment: a management perspective, ***Energy, Ecosystem and Environment***, 1: 296–309 (*Review article*, **Springer**), **ISSN:** 2363-8338

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- Singh A, Sheeba B, Singh H, Singh N, Pandey R, **Bhadouria R*** (2017) Biodiversity of Woody Species in Kamla Nehru Institute of Physical & Social Sciences, Sultanpur U.P. INDIA. ***G-Journal of Environmental Science and Technology*** 3(6): 56-60. (Research article), ISSN: 2360-7955
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- Singh R, Singh A, **Bhadouria R** (2017) Water Quality Assessment Using Physico-Chemical Parameters and Heavy Metals of Lilour Lake, Bareilly,

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Book Chapter

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- **Bhadouria R**, Singh R, Singh VK , Borthakur A , Ahamad A , Kumar G , Singh P (2019), *Agriculture in the Era of Climate Change: Consequences and Effects*, In: **Climate Change and Agricultural Ecosystems**, Choudhary KK,

Kumar A, Singh AK (ed.), pp, 1-23, (**Elsevier**), DOI: <https://doi.org/10.1016/B978-0-12-816483-9.00001-3>,

ISBN: 9780128164839

- Srivastava P, Singh R, **Bhadouria R**, Tripathi S, Singh H, Raghubanshi AS (2019) *Understanding soil aggregate dynamics and its relation with land use and climate change*, In: **Climate Change and Agricultural Ecosystems**, Choudhary KK, Kumar A, Singh AK (ed.), pp. 331-354, (**Elsevier**), DOI: <https://doi.org/10.1016/B978-0-12-816483-9.00021-9>, **ISBN-** 9780128164839
- Tripathi SN, Singh VK, Srivastava P, Singh R, Devi RS, Kumar A, **Bhadouria R*** (2019) *Phytoremediation of organic pollutants: Current status and future directions*, In: **Abatement of Environmental Pollutants**, Singh P, Kumar A, Borthakur A (ed.), pp. 81-105, DOI: <https://doi.org/10.1016/B978-0-12-818095-2.00004-7> (**Elsevier**), **ISBN-** 9780128180952
- Tripathi SN, Srivastava P, Devi RS, **Bhadouria R*** (2020) Influence of synthetic fertilizers and pesticides on soil health and soil microbiology, In: **Agrochemicals Detection, Treatment and Remediation**, Prasad MNV (ed.) pp. 25-54, (**Elsevier**), DOI: <https://doi.org/10.1016/B978-0-08-103017-2.00002-7>, **ISBN:** 9780081030172
- **Bhadouria R**, Das S, Kumar A, Singh R, Singh VK (2020) *Mycoremediation of agrochemicals*, In: **Agrochemicals Detection, Treatment and Remediation**, Prasad MNV (ed.), pp. 593-620, DOI: <https://doi.org/10.1016/B978-0-08-103017-2.00022-2> (**Elsevier**), **ISBN-** 9780081030172
- Singh VK, Singh R, Tripathi SN, Devi RS, Srivastava P, Singh P, Kumar A, **Bhadouria R*** (2020) *Seed priming: state of the art and new perspectives in the era of climate change*, In: **Climate Change and Soil Interactions**, Prasad, MNV. Pietrzykowski, Marcin (ed.), pp. 143-170, DOI: <https://doi.org/10.1016/B978-0-12-818032-7.00006-0>, (**Elsevier**), **ISBN-** 9780128180327

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Varying Resource Availability, **In:** Tripathi S, Bhadouria R, Srivastava P, Singh R, Devi RS (eds), **Ecophysiology of Tropical Plants: Recent Trends and Future Perspectives** (pp. 73-81). **(CRC Press)**, ISBN: 9781003335054

- Afreen T, Kumari S, **Bhadouria R**, Devi RS, Singh S, Tripathi S (2023) *Plant Invasion and Soil Processes: A Mechanistic Understanding*. **In:** Tripathi S, Bhadouria R, Srivastava P, Singh R, Batish DR (eds), **Plant Invasions and Global Climate Change** (227-246), **(Springer, Singapore)** DOI: https://doi.org/10.1007/978-981-99-5910-5_10, ISBN: 978-981-99-5909-9
- Chaurasia M, Patel K, Singh R, **Bhadouria R**, Rao KS (2024), *Integrating Blue-Green as Next-Generation Urban Infrastructure in Developing Countries* **In:** Joshi PK, Rao KS, Bhadouria R, Tripathi S, Singh R (eds.), **Blue-Green Infrastructure for Sustainable Urban Settlements, (Springer Nature Switzerland AG)**, (pp- 57-82), DOI: https://doi.org/10.1007/978-3-031-62293-9_3, ISBN: 9783031622939
- Patel K, Chaurasia M, Singh R, **Bhadouria R**, Rao KS (2024), *Role of Blue-Green Infrastructure in Achieving Sustainable Development Goals in Urban Centres of Developing countries*, **In:** Joshi PK, Rao KS, Bhadouria R, Tripathi S, Singh R (eds.), **Blue-Green Infrastructure for Sustainable Urban Settlements**, (pp-11-135) **(Springer Nature Switzerland AG)**, DOI: [10.1007/978-3-031-62293-9_5](https://doi.org/10.1007/978-3-031-62293-9_5), ISBN: 9783031622939.

Conference Organization/ Presentations

International

- **Bhadouria R**, *Restoration and Development of Dry Tropical Forest in India*, in 2nd international conference on climate change at ITM, Gwalior (M.P.) during 5th -7th December 2010.
- **Bhadouria R**, *Restoration and Development of Dry Tropical Forest in India for Mitigation of Climate Change*, in Fourth International Conferences on Plants & Environmental Pollution (ICPEP-4) at NBRI Lucknow (U.P) during 8th -11th December 2010.

- **Bhadouria R**, Chaturvedi RK, *Dry deciduous forest in Vindhyan Highlands: the interplay between abiotic environment and tree seedling interactions*, In: IUFRO symposium at Department of Forestry, PAU, Ludhiana during 10 – 11 February 2011.
- **Bhadouria R**, *Combined effect of various environmental factors on tree seedling growth in dry tropical environment*, In: 3rd international conference on climate change at ITM, Gwalior (M.P.) during 5th -7th February 2012.
- Singh PK, Swapnil P, Meena M, Singh AV, Kedia A, Singh DK, **Bhadouria R**, Singh S, *Ethnomedicinally important tree species of district Sonbhadra, Uttar Pradesh, India*, In: International congress on ‘Ecological Integrity and Environmental Ethics, Living for a Sustainable Future’ during 8-11 November, 2014 at GB Pant university of agriculture and technology.
- **Bhadouria R**, Singh S, Srivastava P, Singh R, *Problems in doctoral research*, In: International conference on issues and challenges in doctoral research on 25th August 2015 at I A Sc. BHU.

National

- **Bhadouria R**, *Tree seedling management: implication for restoration of dry tropical forest and mitigation of global warming*, In: National Workshop on “Role of higher education in disaster management: issues and challenges” during 29 -30 April 2011 at IESD, BHU, Varanasi.
- Chaturvedi RK, Pandey SK, **Bhadouria R**, Singh S, *Soil moisture availability and Status of carbon sequestration potential of a tropical dry forest, India* In: National Workshop on “Role of higher education in disaster management: issues and challenges” during 29 -30 April 2011 at IESD, BHU, Varanasi.
- **Bhadouria R**, In National conference on impact of global waring and climate change on biodiversity at RHSPG College, Jaunpur, on 20-21 February, 2012.
- Tripathi S, **Bhadouria R** & Raghubanshi AS, *Impact of resource interaction on seedlings of tree species in tropical dry forests – research needs* In: EICC - 2013, organized by Bareilly College Bareilly, UP.

- **Bhadouria R**, *Effect of grass on tree seedling establishment in dry tropical forest*, In: 10th National Symposium on biotechnological Approaches: Constraints and Opportunities during 27-29 January, 2013 at Goa organized by Society of Plant Protection Sciences, IARI, New Delhi.
- Tripathi S, **Bhadouria R**, Raghubanshi AS, *The effect of interacting gradient of irradiance on seedlings of five tropical dry forest tree species* In: ESEB-2013, during 1-3 March 2013 Organized by Centre for Advanced Study in Botany, BHU, Varanasi, UP.
- Singh A, **Bhadouria R**, *Status of Biomedical waste and their possible health risk with controlling measures in Bareilly city*, In: ABHE- 2013 on 11 March, 2013 organized by Bareilly College Bareilly, UP.
- **Bhadouria R**, *Interactive effect of water nutrient and grass competition on tree seedling growth of four dry tropical tree species*, In: National seminar on environmental issues for socio ecological development during February, 25-26, 2015 at Bareilly College Bareilly, UP.
- **Bhadouria R**, In National conference on climate change at Deen Dayal Upadhyaya College, (University of Delhi)
- Singh A, Sheeba B, Singh H, Singh N, Pandey R, **Bhadouria R***, *Biodiversity of woody species in Kamla Nehru Institute of Physical and Social Sciences*, In: National conference on efficient management of solid waste to protect environment on 5 June 2017, at Bareilly college Bareilly.
- Kumar A, **Bhadouria R***, *Issues and challenges for doubling farmers income in India by 2022*, In: National conference on Role of Modern biological sciences for enhancing Farmers economy and welfare of the society on 12th - 13th November 2018, organised by Faculty of Science, RRPg college, Amethi.
- Invited talk on the topic 'Plastic pollution: a perspective on matters arising challenges and opportunities in National Conference on plastic pollution: Strategies and solutions for Effective pollution control' at Department of Environmental Science, Bareilly College, Bareilly, UP, India on 5 June 2023

- Invited Talk on the topic: 'Emerging environmental challenges in urban centers of India' in NSS unit of DDU college, University of Delhi, India (Online) on 3 May 2023 at DDU college, University of Delhi, India

Administrative Assignments

Teacher in Charge, Environmental Studies (16 December 2022- 15 December 2024)

Research Projects (Major Grants/Research Collaboration)

NA

Awards and Distinctions

- UGC –Research Fellowship of Science for Meritorious students (RFSMS)- 2012
- National Post-Doctoral Fellowship DST-SERB- 2017
- UGC-Dr. DS Kothari Post-Doctoral Fellowship, 2018

Association With Professional Bodies

Membership of Professional/academic Bodies

- The Society for Science of Climate Change and Sustainable Environment (SSCE), New Delhi, India, Since 14 march 2024 (Life member)
- International society for tropical ecology since 2012
- The IRED Institute of research engineers and doctors, New York, USA, since July 2017 (Membership No.-AM10100058579)
- Hong Kong Chemical, Biological & Environmental Engineering Society (HKCBEEES), Hong Kong, since July, 2017 (Member NO.: 202410)
- Grace and Peace Welfare Society, Bareilly, UP, India since July, 2016 (Life member, Ref. No.:2016/07-002)

Editorial Board Member

- AR Research Publication and conference World, Modinagar, UP, India, Since July 2017 (Ref. No. CW/2017/646)
- Cell Biology Research, (Whioce Publishing Pvt Ltd., Singapore) (<http://ojs.whioce.com/index.php/cbr/about/editorialTeam>)
- Community and Ecology (Singapore), (<https://ojs.as-pub.com/index.php/CE/about/editorialTeam>)


- Frontiers in Forests and Global Change - Forest Disturbance
(<https://www.frontiersin.org/research-topics/15663/variation-in-plant-strategies-with-levels-of-forest-disturbance#impact>)
- Frontiers in Water- Blue-Green Infrastructure: Key to Sustainable Urban Development (<https://www.frontiersin.org/research-topics/61603/blue-green-infrastructure-key-to-sustainable-urban-development>)
- International Journal of Natural Resource Ecology and Management, Science Publishing Group, New York, USA,
(<http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=207>)
- International Journal of Ecology (Hindawi Publication),
(<https://www.hindawi.com/journals/ijecol/editors/>)
- Frontiers in Microbiology
(<https://www.frontiersin.org/journals/microbiology/sections/microbiotechnology#editorial-board>)
- Frontiers in Ecology and Evolution
(<https://www.frontiersin.org/journals/ecology-and-evolution/sections/ecophysiology#editorial-board>)
- Community and Ecology (<https://ojs.as-pub.com/index.php/CE/about/editorialTeam>)

Other Activities

Training Programme (s)/ Faculty Development Programme

- Participated in Latex Training Programme organized by DST- CIMS, BHU, Varanasi, held from February 27 to March 03, 2012.
- Participated in USAID supported Training programme on Biopesticide production- quality assurance and uses on March 27-29, 2012.
- Summer School in Environmental Impact Assessment (EIA) organized by IIITM- Kerala, Thiruvananthapuram from April 22-26, 2013.

- Participated in Faculty Development Program on Biostatistics: Theoretical and Practical Aspects from 14 to 18 March 2018 at Deen Dayal Upadhyaya College, (University of Delhi).
- 2- week Interdisciplinary Refresher Course at Teaching Learning Centre, Ramanujan College, University of Delhi from 22/08/2023-05/09/2023 (Sponsoring Agency: MINISTRY OF EDUCATION PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING) (Online).
- 4-Week Faculty Induction/Orientation Programme at Teaching Learning Centre, Ramanujan College, University of Delhi from 22/07/2023-20/08/2023 (Sponsoring Agency: MINISTRY OF EDUCATION PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING) (Online).



Rahul Bhadouria

Signature of Faculty Member