

Abhishek Kumar

SENIOD RESEARCH FELLOW

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Education

Panjab University

DOCTOR OF PHILOSOPHY (BOTANY)

Panjab University

MASTER OF SCIENCE (BOTANY)

Arya PG College

BACHELOR OF SCIENCE (BOTANY, CHEMISTRY, ZOOLOGY)

Chandigarh, India 2017-Present

Chandigarh, India

2015-2017

Panipat, India

2012-2015

Selected Publications

Please check my website for a complete list of publications.

JOURNAL ARTICLES

- 1. Singh, A. N., & Kumar, A. (2022). Comparative soil restoration potential of exotic and native woody plantations on coal mine spoil in a dry tropical environment of India: A case study. *Land Degradation & Development*, 33(12), 1971–1984. https://doi.org/10.1002/ldr.4286
- 2. Kumar, P., Kumar, A., Patil, M., Sharma, N. K., & Singh, A. N. (2022). Herbaceous vegetation under planted woody species on coal mine spoil acts as a source of organic matter. *Acta Oecologica*, 114, 103809. https://doi.org/10.1016/j.actao.2021.103809
- 3. Kumar, A., Patil, M., Kumar, P., Kumar, M., & Singh, A. N. (2022). Plant ecology in Indian Siwalik range: A systematic map and its bibliometric analysis. *Tropical Ecology*, 63(3), 338–350. https://doi.org/10.1007/s42965-022-00229-x
- 4. Singh, A. N., & Kumar, A. (2022). Ecological performances of exotic and native woody species on coal mine spoil in Indian dry tropical region. *Ecological Engineering*, 174, 106470. https://doi.org/10.1016/j.ecoleng.2021.106470
- 5. Patil, M., Kumar, A., Kumar, P., Cheema, N. K., Kaur, R., Bhatti, R., & Singh, A. N. (2020). Comparative litter decomposability traits of selected native and exotic woody species from an urban environment of north-western siwalik region, India. *Scientific Reports*, 10(1), 7888. https://doi.org/10.1038/s41598-020-64576-2

BOOK CHAPTERS

- 1. Kumar, A., Patil, M., Kumar, P., & Singh, A. N. (2021). Phosphorus and litter decomposability traits in tropical forest ecosystems under changing environment: A synthesis. In R. K. Chaturvedi, R. Singh, & R. Bhadouria (Eds.), *Tropical dry forests: Emerging features and ecological perspectives* (pp. 311–336). Nova Science Publishers, Inc.
- 2. Kumar, A., Yadav, R., Patil, M., Kumar, P., Zhang, L., Kaur, A., Sharma, S., Hussain, S., Tokas, D., & Singh, A. N. (2020). Sustainable management of national parks and protected areas for conserving biodiversity in India. In *Advances in forest management under global change* (pp. 75–91). IntechOpen. https://doi.org/10.5772/intechopen.92435

Awards and Distinctions

Young Scientist Award

PUNJAB ACADEMY OF SCIENCES, PATIALA

2022

2020

2017

Junior Research Fellowship

University Grants Commission, New Delhi

Research Interests

- Macroecology Elevational patterns of plant species richness; Climate associated plant redistributions
- Community Ecology Diversity and distribution of plant communities along elevation and their controlling factors
- **Population Ecology** Population dynamics of mountain trees (*Pinus*, *Quercus* and *Rhododendron*); species distribution modelling
- **Ecophysiology** Variation of functional traits with environmental variables (elevation, temperature, rainfall and atmospheric pressure)
- **Ecosystem Ecology** Nutrient cycling in tropical forests; role of phosphorus and mycorrhizal fungi in litter decomposition
- Restoration Ecology Ecological restoration of coal mine spoils

Skills and Qualifications

Please check my website for a comprehensive list of accomplishments and certificates

- R
- Microsoft Office (Excel, PowerPoint, Word)
- Biostatistics
- · Data analysis and visualisation
- Systematic reviews and meta-analysis
- · Scientific and technical writing

Professional Memberships_

- Student Member (#67527876), International Association for Vegetation Science
- Life Member (#L-1599), Punjab Academy of Sciences, Patiala

References_

- Dr. Anand Narain Singh, Panjab University, Chandigarh, dranand1212@gmail.com
- Prof. Amrik Singh Ahluwalia, Eternal University, Sirmaur, amrik.s511@gmail.com
- Dr. Balkar Singh, Arya PG College, Panipat, balkararya@gmail.com