



Dr. Harisingh Gour Vishwavidyalaya (A Central University)

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Designation	Senior Professor, Head of the Department (Department of Botany; Department of Environmental Sciences)					
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EDUCATIONAL PROFILE						
Degree	Institution				Year	Remarks
B. Sc.	Kanpur University, Kanpur				1980	
M. Sc.	Kanpur University, Kanpur				1982	First Rank in class
Pre-Ph.D.	North Eastern Hill University, Shillong				1985	First Rank in class
Ph. D.	North Eastern Hill University, Shillong				1987	
CAREER PROFILE						
Organization / Institution		Designation		Duration	Role	
Department of Botany, Dr. Harisingh Gour Central University		Senior Professor		March, 2019 till present	Teaching & Research	
Department of Botany, Dr. Harisingh Gour Central University		Professor		June, 2013 to March 2019	Teaching & Research	
Department of Forestry, North Eastern Reg. Inst. of Sci. & Tech. (NERIST), Nirjuli, Itanagar, Arunachal Pradesh		Professor		March, 2012 to June, 2013	Teaching & Research	

Department of Botany, Guru Ghasidas Central University, Bilaspur (CG)	Professor	July, 2011 to March 2012	Teaching & Research
Department of Forestry, North Eastern Reg. Inst. of Sci. & Tech. (NERIST), Nirjuli, Itanagar, Arunachal Pradesh	Professor	April, 2006 to June, 2011	Teaching & Research
Department of Forestry, North Eastern Reg. Inst. of Sci. & Tech. (NERIST)	Associate Professor	April, 1997 to April, 2006	Teaching & Research
Department of Forestry, North Eastern Reg. Inst. of Sci. & Tech. (NERIST)	Assistant Professor	February, 1992- April, 1997	Teaching & Research
Division of Forestry, SK University of Agriculture Science & Tech, Srinagar	Assistant Professor	December, 1989 to February, 1992	Teaching & Research
Botany Department, NE Hill University, Shillong	Post-doctoral Fellow	July, 1987- December, 1989)	Teaching & Research
Botany Department, NE Hill University, Shillong	Senior Research Fellow	August, 1985- July, 1987	Teaching & Research
Botany Department, NE Hill University, Shillong	Junior Research Fellow	April, 1983- August,	Teaching & Research

Areas of Interest / Specialization

My research interests encompass a wide array of topics in forest ecology, conservation biology and sustainable management of natural resources, with a primary focus on the Eastern Himalayas and Central India. My work aims to deepen our understanding of key ecological processes and their implications for conservation, specifically focusing on rare, endangered & threatened (RET) plant species, forest regeneration dynamics, eco-restoration, ecosystem services, carbon sequestration, molecular genetics and phylogeny.

Publications

A. Scopus listed Articles with Impact Factor:

1. Hordijk I., Poorter L., Liang J., Reich P. B., ... **Khan M. L.** (*et al.*). 2024. Effect of climate on traits of dominant and rare tree species in the world's forests. ***Nature Communication*** (under major revision), **IF-14.7**, Q-1.
2. Xiao S., Slik F., Adams J. M., ... **Khan M. L.** (*et al.*). 2024. Analogous Environments Across the Tropics Have Similar Levels of Tree Species Alpha Diversity. ***PNAS*** (USA) (under major revision). **IF-9.4**, Q-1.
3. Pati P. K., Kaushik P., **Khan M. L.**, Khare P. K. 2024. Forest fire frequencies homogenize functional diversity in tropical moist deciduous forest communities of Central India. ***Ecological Applications*** (under minor revision), **IF-4.3**, Q-1.
4. Lone P.A., Dar J.A., Kothandaraman S. and **Khan M.L.** 2024. An invasive shrub (*Lantana camara* L.) alters the tree diversity and ecosystem level carbon pools in tropical forests of Central India, ***Frontiers in Forests and Global Change***, (section Tropical Forests) (under major revision), **IF-2.7**, Q-1.
5. Satish K. V., Shrivastava P. K., Behera M. D., **Khan M. L.**, Srishti ..., Srivastava S. 2024. A prospective study through ensemble of machine learning and global circulation models coupled with geospatial databases for niche mapping of Bell Rhododendron" ***Geocarto International***, <https://doi.org/10.1080/10106049.2024.2421233>, **IF-3.3**, Q-1.
6. Mo L., Crowther T., Maynard D., **Khan M. L.** (*et al.*) 2024. The global distribution and drivers of wood density across angiosperms and gymnosperms and their impact on forest carbon stocks. ***Nature Ecology & Evolution***, <https://doi.org/10.1038/s41559-024-02564-9>, **IF-14.1**, Q-1.
7. Santoro M., Cartus O., **Khan M. L.** (*et al.*) 2024. Design and performance of the Climate Change Initiative Biomass global retrieval algorithm, ***Science of Remote Sensing***, <https://doi.org/10.1016/j.srs.2024.100169>, **IF-4.2**, Q-1.
8. Zou Y., Constantin M. Zohner C. M. **Khan M. L.** (*et al.*) 2024. Positive feedbacks and alternative stable states in forest leaf types. ***Nature Communication***, 15:4658 <https://doi.org/10.1038/s41467-024-48676-5>, PMID: 38821957, **IF-14.7**, Q-1.
9. Hordijk I., Bialic-Murphy L., Lauber T. ... **Khan M. L.** (*et al.*). 2024. Dominance and rarity in tree communities across the globe: patterns, predictors and threats. ***Global Ecology and Biogeography***, 00:e13889, <https://doi.org/10.1111/geb.13889>, **IF-6.3**, Q-1.
10. Bouchard E., Searle E. B., Drapeau P., Liang J., **Khan M. L.** (*et al.*). 2024. Global patterns and environmental drivers of forest functional composition. ***Global Ecology and Biogeography***, 33:303–324. <https://doi.org/10.1111/geb.13790>, **IF-6.3**, Q-1.
11. Kumar, G., Kumar, A., Saikia, P., **Khan, M. L.** 2024. Assessing population diversity and compositional structure in forests in Pachmarhi Biosphere Reserve, Central India. ***Ecological Frontiers***,44:1291-1305, <http://dx.doi.org/10.1016/j.ecofro.2024.08.005>, **IF-4.7**, Q-1.
12. Markam S. S., Raj A., Kumar A., **Khan M. L.** 2024. Microbial biosurfactants: Green alternatives and sustainable solution for augmenting pesticide remediation and

- management of organic waste. *Current Research in Microbial Sciences*, 7: 100266, <https://doi.org/10.1016/j.crmicr.2024.100266>, PMID: 39257939, IF-4.8, Q-1.
13. Husain H. J., Wang X., Pirasteh S., Mafi-Gholami D., Chouhan B., Khan M. L., Gheisari M. 2024. Review and assessment of the potential restoration of ecosystem services through the implementation of the biodiversity management plans for SDG-15 localization, *Heliyon*, 10: e29877, PMID: 38699718 <https://doi.org/10.1016/j.heliyon.2024.e29877>, IF-3.4, Q-1.
 14. Dubey A., Malla M. A., Kumar A., Khan M. L., Kumari S. 2024. Seed bio-priming with ACC deaminase-producing bacterial strains alleviates impact of drought stress in Soybean (*Glycine max* (L.) Merr.). *Rhizosphere*, <https://doi.org/10.1016/j.rhisph.2024.100873>, IF-3.4, Q-1.
 15. Kishore BSPC, Kumar Amit, Saikia P., Khan M. L. 2024. Alpha and Beta Diversity Mapping in Tropical Deciduous Forests using High-fidelity Imaging Spectroscopy. *Advances in Space Research*, 73: 1413-1426. <https://doi.org/10.1016/j.asr.2023.02.031>, IF-2.8, Q-2.
 16. Kishore BSPC, Kumar A., Saikia P., Lele N., Srivastava P., Pulla S., Suresh H., Bhattarcharya B. K., Khan M. L., Sukumar R. 2024. Mapping of understory invasive plant species clusters of *Lantana camara* and *Chromolaena odorata* using airborne hyperspectral remote sensing, *Advances in Space Research*, 73 : 1379-1396, <https://doi.org/10.1016/j.asr.2022.12.026>, IF-2.8, Q-2.
 17. Pati P. K., Kaushik P., Malasiya D., Ray T., Khan M. L., Khare P. K. 2024. Impacts of forest fire frequency on structure and composition of tropical moist deciduous forest communities of Bandhavgarh Tiger Reserve, Central India. *Trees, Forests and People*, 5: 100489, <https://doi.org/10.1016/j.tfp.2023.100489>, IF-2.7, Q-1.
 18. Rajput S., Jain S., Dash D., Gupta N., Rajpoot R., Upadhyaya C. P., Khan M. L. and Koiri R. K. 2024. Role of cyanotoxins in the development and promotion of cancer. *Toxicology Reports*, doi.org/10.1016/j.toxrep.2024.101798, IF-1.7, Q-2.
 19. Kaushik P., Pati P. K., Khan M. L., Khare P. K. 2024. Effect of invasive species on forest composition in tropical dry forest: A case study of invasion by *Gliricidia sepium*,. *Southern Forests: a Journal of Forest Science* <https://doi.org/10.2989/20702620.2024.2322484>, IF-0.70, Q-2.
 20. Mo L., Zohner C. M., Reich P. B., Liang J., Khan M. L. (et al.). 2023. Integrated global assessment of the natural forest carbon potential. *Nature*, 624:92–101, <https://doi.org/10.1038/s41586-023-06723-z>, PMID: 37957399, IF-50.5, Q-1.
 21. Delavaux C.S., Crowther T.W., Zohner C. M., Khan M. L. (et al.). 2023. Native diversity buffers against severity of non-native tree invasions. *Nature*, 621: 773–781, <https://doi.org/10.1038/s41586-023-06440-7>, PMID: 37612513, IF-50.5, Q-1.
 22. Ma H., Crowther T. W., Mo L., Khan M. L. (et al.). 2023. The global biogeography of tree leaf form and habit. *Nature Plants*. 9: 1795–1809. <https://doi.org/10.1038/s41477-023-01543-5>, PMID: 37872262, IF- 15.8, Q-1.
 23. Hordijk I., Maynard D. S. Khan M. L. (et al.). 2023. Evenness mediates the global relationship between forest productivity and richness. *Journal of Ecology*, 11: 1308-1326, <https://doi.org/10.1111/1365-2745.14098>, IF-5.4, Q-1.
 24. Grant, K. R., Davies, T. J., Harish, S. M., Dar, J. A., Kothandaraman, S., Ray, T., Malasiya, D., Dayanandan, S., & Khan, M. L. 2023. Phylogenetic community patterns suggest

Central Indian tropical dry forests are structured by montane climate refuges. ***Diversity and Distributions***, 29: 946-958. <https://doi.org/10.1111/ddi.13708>, **IF-4.6**, Q-1.

25. Ray T., Malasiya D., Verma A., Purswani E., Qureshi A., **Khan M. L.**, Verma S. 2023. Characterization of Spatial–Temporal Distribution of Forest Fire in Chhattisgarh, India. Using MODIS-Based Active Fire Data. ***Sustainability***, 15: 7046. <https://doi.org/10.3390/su15097046>, **IF-3.3**, Q-1.
26. Gupta R., Sharma L. K., Rajkumar M., Naseer Mohammad, **Khan M. L.** 2023. Predicting habitat suitability of *Litsea glutinosa*: a declining tree species, under the current and future climate change scenarios in India. ***Landscape and Ecological Engineering***, <https://doi.org/10.1007/s11355-023-00537-x>, **IF-1.7**, Q-2.
27. Pati P. K., Kaushik P., Maurya D., Adhikari C., Bishwas A. J., **Khan M. L.** & P. K. 2023. Evaluating the role of roadside vegetation in atmospheric carbon dioxide mitigation: a case study. ***Arboricultural Journal*** (The International Journal of Urban Forestry), <https://doi.org/10.1080/03071375.2023.2233868>, **IF- 0.19**, Q-4.
28. Liang J., ... **Khan M.L.** et al. 2022. Evidence of co-limitation in global forest diversity gradients. ***Nature Ecology & Evolution***, 6:1423-1437. PMID: 35941205, <https://doi.org/10.1038/s41559-022-01831-x>, **IF-14.1**, Q-1.
29. Gatti R.C. **Khan M.L.** et al. 2022. The number of tree species on Earth. ***PNAS USA*** 119: e2115329119. PMID: 35101981, doi.org/10.1073/pnas.2115329119, **IF- IF-9.4**, Q-1.
30. Ray T., **Khan M.L.**, Qureshi A., Verma S. 2022. MODIS Derived Fire Characteristics and Greenhouse Gas Emissions from Cropland Residue Burning in Central India. ***Sustainability***, 14: 16612, <https://doi.org/10.3390/su142416612>, **IF-3.3**, Q-1.
31. Kumar G, Kumar A., Saikia P., Roy P.S. and **Khan M.L.** 2022. Ecological impacts of forest fire on composition and structure of Tropical Deciduous forests of Central India. ***Physics and Chemistry of the Earth***, 128: 103240. <https://doi.org/10.1016/j.pce.2022.103240>, **IF-3.0**, Q-2.
32. Gajbhiye T., Pandey S.K., Malik T.G., Kim K.-H. and **Khan M.L.** 2022. Micro-morphological analysis of foliar uptake and retention of airborne particulate matter (PM)-bound toxic metals: Implications for their Phytoremediation. ***Chemistry and Ecology***, 38: 636-654. <https://doi.org/10.1080/02757540.2022.2108021>, **IF-1.3**, Q-2.
33. Dar J.A., Kothandaraman S., Khare P.K. and **Khan M.L.** 2022. Sacred groves of Central India: diversity status, carbon storage and conservation strategies. ***Biotropica***, 54: 1400–1411, <https://doi.org/10.1111/btp.13157>, **IF-1.8**, Q-1.
34. Pati P. K., Kaushik P., **Khan M. L.**, Khare P. K. 2022. Allometric equations for biomass and carbon stock estimation of small diameter woody species from tropical dry deciduous forests: Support to REDD+. ***Trees, Forests and People***, 9:100289-100290, <https://doi.org/10.1016/j.tfp.2022.100289>, **IF-0.60**, Q-1.
35. Kaushik P., Pati P. K., Khan M. L., Khare P. K. 2022. Plant functional traits best explain invasive species' performance within a dynamic ecosystem. ***A review. Trees, Forests and People***, 8: 100260-100273, <https://doi.org/10.1016/j.tfp.2022.100260>, **IF-2.7**, Q-1.
36. Ray T., Malasiya D., Verma S., Kumar T. and **Khan M.L.** 2022. Impact of forest fire frequency on tree biomass and carbon stocks in the tropical dry deciduous forest of Panna Tiger Reserve, Central India. ***Tropical Ecology***, <https://doi.org/10.1007/s42965-022-00248-8>, 64: 337-351, **IF-1.1**, Q-2.

37. Anand A., Srivastava P.K., Pandey P.C., **Khan M.L.** and Behera M.D. 2022. Assessing the Niche of *Rhododendron arboreum* using Entropy and Machine Learning Algorithms: Role of atmospheric, ecological and hydrological variables. **Journal of Applied Remote Sensing**, 16: 042402, [https://doi.org/ 10.1117/1.JRS.16.042402](https://doi.org/10.1117/1.JRS.16.042402), **IF-4.2**, Q-1.
38. Kumar A., Kumar G., Saikia P., Khare P.K. and **Khan M.L.** 2022. Spatial pattern of tree diversity and impacts of ecological disturbances in tropical deciduous forests of Central India. **Biotropica**, 54: 1363-1375. [https://doi.org/ 10.1111/btp.13068](https://doi.org/10.1111/btp.13068), **IF-1.8**, Q-1.
39. Lone P.A., Dar J.A., Kothandaraman S. and **Khan M.L.** 2022. An invasive shrub *Lantana camara* L. alters the flora and soils in tropical dry deciduous forests of Central India. **Biotropica**, 54: 1412–1427. [https://doi.org/ 10.1111/btp.13112](https://doi.org/10.1111/btp.13112), **IF-1.8**, Q-1.
40. Pati P.K., Kaushik P., **Khan M.L.** and Khare P.K. 2022. Effect of habitat specific wood specific gravity on biomass and carbon stock of trees in tropical dry deciduous forest of central India. **Tropical Ecology**. [https://doi.org/ 10.1007/s42965-022-00279-1](https://doi.org/10.1007/s42965-022-00279-1), **IF-1.1**, Q-2.
41. Lal P., Kumar A., Prasad A., Kumar S., Saikia P., Dayanandan A., Roy P.S. and **Khan M.L.** 2021. COVID-19 pandemic hazard–risk–vulnerability analysis: a framework for an effective Pan-India response. **Geocarto International**, [https://doi.org/ 10.1080/10106049.2021.2012529](https://doi.org/10.1080/10106049.2021.2012529), **IF-3.3**, Q-1.
42. Purswani E., Verma S., Jayakumar S., **Khan M.L.** and Pathak B. 2021. Examining and predicting land use change dynamics in Gandhinagar district, Gujarat, India. **Journal of Urban Management**, 11: 82-96. <https://doi.org/10.1016/j.jum.2021.09.003>, **IF-3.9**, Q-1.
43. Anand A., Pandey M.K., Srivastava P.K., Gupta A. and **Khan M.L.** 2021. Integrating Multi-Sensors Data for Species Distribution Mapping Using Deep Learning and Envelope Models. **Remote Sensing**, 13: 3284. doi.org/10.3390/rs13163284, **IF-4.2**, Q-1.
44. Lal P., Kumar A., Saikia P., Das A., Patnaik C., Kumar G., Srivastava P., Pandey A.C., Dwivedi C.S. and **Khan M.L.** 2022. Effect of Vegetation Structure on Above Ground Biomass in Tropical Deciduous Forests of Central India. **Geocarto International**, 37: 6294-6310. <https://doi.org/10.1080/10106049.2021.1936213>, **IF-3.3**, Q-1.
45. Dubey A., Malla M.A., Kumar A., Dayanandan S. and **Khan M.L.** 2020. Plants endophytes: unveiling hidden agenda for bioprospecting toward sustainable agriculture. **Critical Reviews in Biotechnology**, 40: 1210-1231, **PMID: 32862700**, <https://doi.org/10.1080/07388551.2020.1808584>, **IF-8.1**, Q-1.
46. Subashree K., Dar J.A., Sundarapandian S.M., Dayanandan S. and **Khan M.L.** 2020. Ecosystem-level carbon storage and its links to diversity, structural and environmental drivers in tropical forests of Western Ghats, India; **Scientific Reports**, 10: 13444, **PMID: 32778785**, <https://doi.org/10.1038/s41598-020-70313-6>, **IF-3.8**, Q-1.
47. Lal P., Kumar A., Bharti S., Saikia P., Adhikari D. and **Khan M. L.** 2020. Lockdown to Contain the COVID-19 Pandemic: An Opportunity to Create a Less Polluted Environment in India, **Aerosol and Air Quality Research** (Special Issue on COVID-19 Aerosol Drivers, Impacts and Mitigation (XI)), 21: 200229. <https://doi.org/10.4209/aaqr.2020.05.0229>, **IF-2.5**, Q-2.
48. Kumar A., Kumar A., Adhikari D., Gudasalamani R., Saikia P. and **Khan M.L.** 2020. Ecological niche modelling for assessing potential distribution of *Pterocarpus*

- marsupium* Roxb. in Ranchi, eastern India. **Ecological Research**, 35: 1095–1105, <https://doi.org/10.1111/1440-1703.12176>, **IF-1.7**, Q-2.
49. Ray T., Malasiya D., Rajpoot R., Verma S., Dar J.A., Dayanadan A., Raha D., Lone P., Pandey P., Khare P.K. and **Khan M.L.** 2020. Impact of Forest Fire Frequency on Tree Diversity and Species Regeneration in Tropical Dry Deciduous Forest of Panna Tiger Reserve, Madhya Pradesh, India. **Journal of Sustainable Forestry**, 40: 831-845, <https://doi.org/10.1080/10549811.2020.1823853>, **IF-1.2**, Q-2.
 50. Zohner C.M. **Khan M.L.** (et al.) 2020. Late-spring frost risk between 1959 and 2017 decreased in North America but increased in Europe and Asia. **PNAS**, USA, 117: 12192-12200, **PMID: 32393624**, <https://doi.org/10.1073/pnas.1920816117>, **IF-9.4**, Q-1.
 51. Lal P., Kumar A., Kumar S., Kumari S., Saikia P., Dayanandan A., Adhikari D. and **Khan M.L.** 2020. The dark cloud with a silver lining: Assessing the impact of the SARS COVID-19 pandemic on the global environment, **Science of the Total Environment**, 732: 139297, **PMID: 32408041** <https://doi.org/10.1016/j.scitotenv.2020.139297>, **IF-8.2**, Q-1.
 52. Rajpoot R., Adhikari D., Verma S., Saikia P., Kumar A., Grant K. R., Dayanandan A., Kumar A., Khare P.K. and **Khan M.L.** 2020. Climate models predict a divergent future for the medicinal tree *Boswellia serrata* Roxb. in India. **Global Ecology and Conservation**, 23: e01040, <https://doi.org/10.1016/j.gecco.2020.e01040>, **IF-3.5**, Q-1.
 53. Lal P., Prakash A., Kumar A., Srivastava P.K., Saikia P., Pandey A.C., Srivastava P. and **Khan M.L.** 2020. Evaluating the 2018 extreme flood hazard events in Kerala, India. **Remote Sensing Letters**, 11: 436-445, <https://doi.org/10.1080/2150704X.2020.1730468>, **IF-1.4**, Q-2.
 54. Raha D., Dar J.A., Pandey P.K., Lone P.A., Verma S., Khare P.K. and **Khan M.L.** 2020. Variation in tree biomass and carbon stocks in three tropical dry deciduous forest types of Madhya Pradesh, India, **Carbon Management**, 11: 109-120, <https://doi.org/10.1080/17583004.2020.1712181>, **IF-2.8**, Q-2.
 55. Behera M.D., Reddy C.S. and **Khan M.L.** 2019. Advances in terrestrial and ocean dynamics studies in India. **Environmental Monitoring and Assessment**, 191: 811, <https://doi.org/10.1007/s10661-019-7981-3>, **IF-2.9**, Q-2.
 56. Steidinger B.S., **Khan M.L.** (181 authors) 2019. Climatic controls of decomposition drive the global biogeography of forest tree symbioses. **Nature**, 569: 404-408, <https://doi.org/10.1038/s41586-019-1128-0>, **PMID: 31092941**, **IF-50.5**, Q-1.
 57. Deka J., Tripathi O.P., **Khan M.L.** and Srivastava V.K. 2019. Study on land-use and land-cover change dynamics in eastern Arunachal Pradesh, N.E. India using remote sensing and GIS. **Tropical Ecology**, 60: 199–208. <https://doi.org/10.1007/s42965-019-00022-3>, **IF-1.1**, Q-12.
 58. Deka J., Kalita S. and **Khan M.L.** 2019. Vegetation phenological characterization of alluvial plain *Shorea robusta* -dominated tropical moist deciduous forest of Northeast India Using MODIS NDVI Time Series Data. **Journal of the Indian Society of Remote Sensing**, 47: 1287-1293, <https://doi.org/10.1007/s12524-019-00991-x>, **IF-2.2**, Q-2.
 59. Dubey A., Malla M.A., Khan F., Chowdhary K., Yadav S., Kumar A., Sharma S., Khare P.K. and **Khan M.L.** 2019. Soil microbiome: A key player for conservation of soil health under changing climate. **Biodiversity & Conservation**, 28: 2405–2429, <https://doi.org/10.1007/s10531-019-01760-5>, **IF-3.0**, Q-1.

60. Kumar A., Kishore B.S.P.C., Saikia P., Deka J., Bharali S., Tripathi O.P., Singha L.B. and **Khan M. L.** 2019. Tree Diversity Assessment and Above Ground Forests Biomass Estimation using SAR Remote Sensing: A case study of Higher Altitude Vegetation of North-East Himalayas, India. *Physics and Chemistry of the Earth*, 111: 53–64, doi.org/10.1016/j.pce.2019.03.007, **IF-3.0**, Q-2.
61. Dubey A., Kumar A., Allah E.F.A., Hashem A. and **Khan M. L.** 2019. Growing more with less: Breeding and developing drought resilient soybean to improve food security. *Ecological Indicators*, 105: 425-437, doi.org/10.1016/j.ecolind.2018.03.003, **IF-7.0**, Q-1.
62. Verma S., Dar J. A., Malasiya D., Khare P. K., Selvadurai Dayanandan S. and **Khan M. L.** 2019. A MODIS-based spatiotemporal assessment of agricultural residue burning in Madhya Pradesh, India. *Ecological Indicators*, 105: 496-504, <https://doi.org/10.1016/j.ecolind.2018.04.042>, **IF-7.0**, Q-2.
63. Paul A., Dutta P.K., **Khan M. L.** and Das A.K. 2019. Rhododendrons: A major resource of fuelwood in high altitude region of Arunachal Himalaya, India. *Biodiversitas*, 20: 2628-2635, <https://doi.org/10.13057/biodiv/d200927>, **IF-0.32**, Q-3.
64. Singh J.K., Sharma R.K., Ghosh P., Kumar A. and **Khan M. L.** 2018. Imidazolium Based Ionic Liquids: A Promising Green Solvent for Water Hyacinth Biomass Deconstruction. *Frontiers in Chemistry*. <https://doi.org/10.3389/fchem.2018.00548>, **IF- 3.8**, Q-1.
65. Shooner S., T. Davies T.J., Saikia P., Deka J., Bharali S., Tripathi O.P., Singha L.B., **Khan M. L.** and Dayanandan S. 2018. Phylogenetic diversity patterns in Himalayan forests reveal evidence for environmental filtering of distinct lineages. *Ecosphere*, 9: e02157, <https://doi.org/10.1002/ecs2.2157>, **IF-3.5**, Q-1.
66. Behera M.D., Tripathi P., Das P., Srivastava S.K., Roy P.S., Joshi C., Behera P.R., Deka J., Kumar P., **Khan M. L.**, Tripathi O.P., Dash T. and Krishnamurthy Y.V.N. 2018. Remote sensing-based Deforestation analysis in Maha Nadi and Brahmaputra River Basin in India since 1985. *Journal of Environmental Management*, 206: 1192e1203. PMID: 29153551, <https://doi.org/10.1016/j.jenvman.2017.10.015>, **IF-8.0**, Q-1.
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D. Books and Articles in Edited Book volumes, etc.:

a. Books:

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3. Patra S., Anurag S., Saikia P., Kumar A., **Khan M.L.** 2024. ***Traditional Ecological Knowledge for the Management of Medicinal Plants with particular emphasis on Northeast India***. In: Sustainable Forest Resources Management: Issues and Implications, Chakravarty, S., Shukla, G. (eds.), Apple Academic Press (AAP), CRC Press, Taylor & Francis Group, Boca Raton, USA, **Hard ISBN: 9781774917060**
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Research Projects (Major Grants/Research Collaboration)

1. **DBT-BUILDER** – “Interdisciplinary Life Science Programme for Advance Research and Education” under RRSFP programme (Level II). Sponsored by Department of Biotechnology (DBT), New Delhi. (BT/INF/22/SP47619/2022 dated 9th Nov, 2022); Coordinator of the Programme; **Ongoing**, Amount Rs. 3.50 crores; Duration – 5 years.
2. Monitoring forest structure and dynamics in relation to climate change across different biogeographic zones of India. Sponsored under **Long-Term Ecological Observatories (LTEO) under Climate Change Action Plan of MoEF & CC** (No. 13008/72/2019-CC, dt. March, 2020). Co- Principal Investigator; **Ongoing**, Amount Rs. 3.74 crores; Duration – 5 years.
3. Long-term monitoring of soil processes in forests and grasslands. Sponsored under **Long-Term Ecological Observatories (LTEO) under Climate Change Action Plan of MoEF & CC** (No. 13008/72/2019-CC, dt. March, 2020). Co- Principal Investigator; **Ongoing**, Amount Rs. 3.19 crores; Duration – 5 years.
4. Long-term monitoring of biodiversity and ecosystem processes in indian grasslands. Sponsored under **Long-Term Ecological Observatories (LTEO) under Climate Change Action Plan of MoEF & CC** (No. 13008/72/2019-CC, dt. March, 2020). Co-Principal Investigator; **Ongoing**, Amount Rs. 3.19 crores; Duration – 5 years.
5. Impacts of plant invasion on diversity, carbon sequestration and CO₂ efflux in Central Indian forests (No.F.4-2/2006 (BSR)/BL/20-21/0067, 14th September, 2021); Dr. D.S.

- Kothari Postdoctoral Fellowship awarded to Suba K. Raman; Mentor; Completed; Amount: Rs. 24.00 lakhs; Duration – 3 years.
6. Mapping and Quantitative Assessment of Plant Resources and its Distribution in Madhya Pradesh, Central India. Sponsored by Department of Biotechnology, Govt. of India (No.BT/PR12899/NDB/39/506/2015, Dt. 20-06-2017); Coordinator & Principal Investigator; Completed. Amount: Rs. 212.26 lakhs; Duration – 4 years.
 7. Monitoring spatio-temporal dynamics of Above Ground Biomass in forests ecosystems using Airborne L & S band SAR images (Ref:/EPSA/3.1.1/2017, dated 13th November, 2017); Sponsored by Space Application Centre, Ahmadabad; Co- Principal Investigator; Completed. Amount: Rs. 24.30 lakhs; Duration – 3 years.
 8. Monitoring and phenological assessment of invasive plant species using airborne visible/infrared imaging spectrometer – next generation (AVIRIS – NG) and Sentinel-1 SAR images. (Ref:/EPSA/4.1.1/2017, dated 19th December, 2017); Sponsored by Space Application Centre, Ahmadabad; Co- Principal Investigator; Completed. Amount: Rs. 20.50 lakhs; Duration – 3 years.
 9. A study on potential and effects of *Gliricidium sepium* as an invasive tree (File No.PDF/2016/000652; Dated:21-09-2016; DST-SERB National Post-Doctoral Fellowship awarded to Dr. Devika Bajpai); Mentor; Completed; Amount: Rs. 19.20 lakhs; Duration- 2 years.
 10. Exploration and conservation of ecologically and economically important threatened plant species occurred in sacred groves of Assam. Sponsored by GBPIHED-MoEF & CC (No. GBPI/IERP/10-11/11/109, Dated: 29-08-2014); Co-Principal Investigator; Completed; Amount: Rs. 9.96 lakhs; Duration- 3 years.
 11. Assessing the carbon sequestration potential of different forest types in Central India in response to climate change. (File No.PDF/2015/000447, Dated:15-07-2016; DST-SERB National Post-Doctoral Fellowship awarded to Javid Ahmad Dar); Mentor; Completed; Amount: Rs. 19.20 lakhs; Duration- 2 years.
 12. A study on reproduction potential of invasive tree *Gliricidia sepium* in relation to its invasion success (No.F.15/2015-17/PDFWM-2015-17-MAD-30802(SA-II, dated:12-10-2015; UGC-Post-Doctoral Fellowship for Women awarded to Devika Bajpai); Mentor; Completed; Amount: Rs. 28.55 lakhs; Duration- 5 years.
 13. Generation of marker free transgenic potato for increased α -tocopherol production using gamma methyl transferase and HPT gene. (No.100/(IFD)/1024/2014-15, Dated:20-05-2014; DST-Women Scientist Scheme- A, Awarded to Dr. Devanshi Chandel Upadhyaya); Completed; Amount: Rs. 21.60 lakhs; Duration- 3 years.
 14. Effect of *Lantana camara* on Carbon Sequestration and CO₂ Efflux of Different Forest Types in Central India (No.F.4-2/2006 (BSR)/BL/16-17/0164, Dated: 14-12-2016, Dr. D.S. Kothari Postdoctoral Fellowship awarded to Bilal Ahmad Wani); Mentor; Completed; Amount: Rs. 24.00 lakhs; Duration – 3 years.
 15. All India Coordinated project on Sacred Grove Ecosystem Service Assessment of Madhya Pradesh. Sponsored by MoEF New Delhi, Govt. of India (No.22/13/2011-(sg)/RE, dated:28-03-2012); Co- Principal Investigator; Completed. Amount: Rs. 39.84 lakhs; Duration – 5 years.
 16. Inventory, biodiversity value, status and strategies for conservation of sacred groves of central India. Sponsored by CSIR, New Delhi, (38(1318)/12/EMR-II, dated: 03-04-2012); Principal Investigator; Completed. Amount: Rs. 11.29 lakhs; Duration – 3 years.
 17. Studies on ecosystem dynamics of disturbed & undisturbed tropical rain forests of Arunachal Pradesh. Sponsored by Ministry of Env. & Forest and CC, New Delhi, (No.14/26/98-ERS/RE, dated: 04-03-2015); Co-Principal Investigator; Completed. Amount: Rs. 16.00 lakhs; Duration – 3 years.

18. Cultural Landscape: Linking biodiversity conservation with sustainable development in Arunachal Pradesh. Sponsored by UNESCO/Mac Arthur foundation USA (FC003095, dated: 25-07-2012); Co-Principal Investigator; Completed. Amount: Rs. 19.19 lakhs; Duration – 04 years
19. Isolation, characterization and identification of natural pigments of food and industrial values from filamentous fungi. Sponsored by Department of Biotechnology, New Delhi, (BT/22/NE/TBP/ 2010, dated:16-03-2011); Co-Principal Investigator; Completed. Amount: Rs. 56.76 lakhs; Duration – 3 years.
20. Exploration of microbial diversity and microbial role in arsenic mobilization in contaminated ground water of North Eastern states (Arunachal Pradesh & Assam). Sponsored by Department of Biotechnology, New Delhi, (BT/19/NE/TBP/2010, dated: 25-02-2011); Co-Principal Investigator; Completed. Amount: Rs. 68.28lakhs; Duration – 3 years.
21. Monitoring of developmental activities of Wildlife Sanctuaries and National Parks. Sponsored by Govt. of Arunachal Pradesh (Wild life & Bio-Diversity), (No.CWL/D/21(78)/2011/189-91, dated:07-04-2011); Principal Investigator; Completed. Amount: Rs. 6.78 lakhs; Duration – 01 year.
22. Modernization of Plant Biotechnology & Biochemistry Laboratory. Sponsored by AICTE, New Delhi, (FNo. 8024/RIFD/MOD(NER)-64/2010-11, Dated:03-03-2011); Principal Investigator; Completed. Amount: Rs. 7.00 lakhs; Duration – 01 year.
23. Study on species diversity of *Primula* in eastern Himalayan region, India. Sponsored by John D. and Catherine T. MacArthur Foundation, USA (Through ATREE, Bangalore; ATREE-SGRNE/MAF/01, Dated:20-08-2010). Principal Investigator; Completed. Amount: Rs. 10.00 lakhs; Duration – 02 year.
24. Assessment of population structure and regeneration pattern of most preferred food plant species of *Hoolock gibbons* in protected and non-protected areas of northeast India. Sponsored by CSIR, New Delhi (No.37(1409)/10/EMR-II, dated: 01-04-2010). Co-Principal Investigator; Completed. Amount: Rs. 15.00 lakhs; Duration – 03 year.
25. Spatial and temporal changes in Land-use/Land cover of Dehang Debang Biosphere Reserve of Arunachal Pradesh and its effect on plant diversity and population dynamics of important tree species. Sponsored by MoEF & CC, New Delhi (8/04/07-CS/BR/53, dated: 01-02-2010). Principal Investigator; Completed. Amount: Rs. 19.66 lakhs; Duration – 03 year.
26. Establishment of State Biotech Hubs (SBT hubs) by DBT under special programme for North Eastern States of India. Sponsored by Department of Biotechnology, Govt. of India (N.BT/04/NE/2009, dated: 22-12-2010). Principal Investigator; Completed. Amount: Rs. 150.00 lakhs; Duration – 03 year.
27. Expansion of infrastructure in plant microbe interaction & Biotechnology Laboratory. Sponsored by AICTE, New Delhi, (F.No. 8024/RID/BOR/MOD-311/2008-09, dated: 30-03-2009); Principal Investigator; Completed. Amount: Rs. 13.00 lakhs; Duration – 01 year.
28. Conservation and reintroduction of rare, endemic and endangered rhododendron species in the Indian Eastern Himalayas. Sponsored by The American Rhododendron Society, (Am. Rhododendron Society Research Comm. CCC 9/15/09, Dated: 30-07-2009); Co-Principal Investigator; Completed. Amount: Rs. 06.00 lakhs; Duration – 02 years.
29. Land use and land cover dynamics and impact of human dimension in Brahmaputra River basin. Sponsored by NRSC (ISRO) Hyderabad, (ISRO-GBP LULC, dated: 31-03-2009); Principal Investigator; Completed. Amount: Rs. 12.00 lakhs; Duration – 02 years.
30. Mapping of population status and conservation strategies of *Taxus wallichiana* Zucc. and *Illicium griffithii* Hook. – two threatened medicinal tree species in Arunachal Pradesh.

- Sponsored by CSIR, New Delhi (38 (1187)/08/ EMR-II, dated: Dated: 25-02-2008); Principal Investigator; Completed. Amount: Rs. 14.00 lakhs; Duration – 03 years.
31. Inventory of biodiversity in agricultural landscapes, economic uses and conservation for sustainable development in Eastern Himalayan region of Arunachal Pradesh. Sponsored by DST, New Delhi (No. SP/TSP/011 /2008, Dated:15-06-2008); Co-Principal Investigator; Completed. Amount: Rs. 19.00 lakhs; Duration – 02 years.
 32. Rodent control and Ecological analysis of the impact of bamboo flowering in Arunachal Pradesh and Mizoram of Northeast India. Sponsored by DST, New Delhi (ST (Ar.Pr.)/LSR/2K7/544, Dated: 23-7-2008); Co-Principal Investigator; Completed. Amount: Rs. 24.00 lakhs; Duration – 02 years.
 33. Biomass and Carbon Assessment in India.Sponsored by IIRS, Dehra Dun (IIRS:FED:VCP/8, Dated: 08-06-2008); Principal Investigator; Completed. Amount: Rs. 10.00 lakhs; Duration – 02 years.
 34. Establishment of biotech-hub at NERIST. Sponsored by DBT New Delhi, (D.O.BT/BI/04/055/2001, Dated: 14-02-2008); Principal Investigator; Completed. Amount: Rs. 20.00 lakhs; Duration – 01 year.
 35. State of Environment (SOE) Report of Arunachal Pradesh. Sponsored by MoEF & CC, New Delhi (8/6/2007-EI, dated: 28-03-2008); Co-Principal Investigator; Completed. Amount: Rs. 5.80 lakhs; Duration – 01 year.
 36. Mapping and Quantitative Assessment of Geographic Distribution and Population Status of Plant Resources of Eastern Himalayan Region, Sponsored by Department of Biotechnology, Govt. of India BT/PR7928/NDB/52/9/2006; dated 29.09.2006, Principal Investigator; Completed. Amount: Rs. 39. 18 lakhs; Duration –3 years.
 37. Web GIS based digital atlas of the sacred groves of the north-east India: pilot study with sacred groves of Arunachal Pradesh. Sponsored by DSIR (DST), New Delhi, (DSIR/Web/TIF026/2004-2005, Dated: 31-12-2004); Principal Investigator; Completed. Amount: Rs. 5.80 lakhs; Duration – 02 years.
 38. Evaluation of regeneration behavior of selected endangered/threatened tree species in disturbed and undisturbed tropical rain forests of Arunachal Pradesh. Sponsored by DST, New Delhi, (SR/SO/PS-16/ 2002, Dated: 11-06-2004); Principal Investigator; Completed. Amount: Rs. 15.00 lakhs; Duration – 03 years.
 39. Studies on exploration, population status and conservation of Rhododendrons – keystone species in Arunachal Pradesh. Sponsored by CSIR, New Delhi, ((1052)/02/EMR-II, dated: Dated: 20-2-2002); Principal Investigator; Completed. Amount: Rs. 8.28 lakhs; Duration – 03 years.
 40. Exploration of germplasm of bamboos and canes in North Eastern India. Sponsored by Indian Council for Agriculture Research (NATP), New Delhi (NBPGR/NATP/BD/20032388, Dated: 23-01-2002); Principal Investigator; Completed. Amount: Rs. 10.28 lakhs; Duration – 04 years.
 41. Plant population dynamics under varied perturbation regimes and in forest successional environment, i.e., biodiversity fluxes and dynamics over space and time. Sponsored by UNESCO MacArthur Foundation, USA, (F.No. PS(AF)/NRM/2010/2, Dated:23-07-2002); Co-Principal Investigator; Completed. Amount: Rs. 16.00 lakhs; Duration – 3 years.
 42. Inventory, biodiversity value, status and strategies for conservation of sacred groves of Manipur. Sponsored by GB Pant Institute of Himalayan Environment and Development, Almora (GBPI/IERP/98-99/17/409, Dated: 29-02--2000); Principal Investigator; Completed. Amount: Rs. 5.30 lakhs; Duration – 03 years.
 43. Strengthen the existing Botanical Garden at NERIST. Sponsored by MoEF & CC, New Delhi (F.No.13/26/97-CS/BG, dated: 05-03-1998); Co-Principal Investigator; Completed. Amount: Rs. 3.20 lakhs; Duration – 01 year.

44. Seed dispersal, germination and fitness of seedlings of Rudraksh (*Elaeocarpus ganitrus*). Sponsored by DST New Delhi, (F.No. SP/SO/C-04/94, Dated: 06-12-1996); Principal Investigator; Completed. Amount: Rs. 9.00 lakhs; Duration – 03 years.

Fellowship/Honors/Awards/

A. Fellowship:

- Fellow of Linnean Society, London, UK
- Fellow of Royal Society of Biology, London, UK
- Fellow of Shastri Indo Canadian Institute, New Delhi
- Fellow of National Academy of Agricultural Sciences, New Delhi
- Fellow of National Environmental Science Academy, New Delhi
- Fellow of International Society for Environmental Botanists, Lucknow
- Fellow of Society for Science of Climate Change and Sustainable Environment, New Delhi
- Fellow of National Institute of Ecology, New Delhi
- Fellow of International Society for Tropical Ecology, Varanasi
- Fellow of Range Management Society of India, Jhansi

B. Awards:

- Recipients of most prestigious Visitor Award (2021) for Outstanding Research in Biological Sciences conferred by President of India.
- Recipients of the First Hasmukh Shah Memorial Award for Ecological Studies – 2023 instituted by the Gujarat Ecological Society & Kachnar Trust, Vadodara, Gujarat.
- Recipients of First Dr. P. K. Seth Memorial Award for Research in Biological Sciences – 2024 instituted by the PHSS Foundation Lucknow, UP.
- Awarded and delivered 29th Pt. Govind Ballabh Pant Memorial Lecture 'Bridging Voices and Visions: Empowering Communities for Climate Resilience in the Forests' during Annual Day Function - 10th September 2023.
- Recipients of the Professor K G Mukerji Memorial Life Time Achievement Award – 2022 of Society for Plant Research, New Delhi.
- Recipients of the 'Life time Achievement Award - 2022' for Outstanding Contribution in Climate Science and Environmental Sustainability of the Society for Science of Climate Change and Sustainable Environment, New Delhi.
- Recipients of the 'Award for Outstanding Contribution in Climate Science and Environmental Sustainability - 2020' of the Society for Science of Climate Change and Sustainable Environment, New Delhi.
- Recipients of *Nanda Memorial Award for Young Scientist* for 1995 by the Indian Society for Tree Scientists, Solan, Himachal Pradesh, India.

C. Overseas Fellowships:

- **Shastri Mobility Programme Fellowship** (2018) awarded by Shastri Indo-Canadian Institute (SICI) to carryout short-term research project at Concordia University, Montreal, Canada.
- **Overseas Associateship** (March – Nov., 2008) awarded by DBT in the thrust area "Biodiversity Conservation" to work on phylogeny and genetic diversity at Genomic Laboratory at Concordia University, Montreal, Canada.
- **Overseas Associateship** (Sept. – Nov., 2005) awarded by DBT in the thrust area "Biodiversity Conservation" to work on phylogeny and genetic diversity at Genomic Laboratory at Concordia University, Montreal, Canada.
- **DST-BOYSCAST Fellowship** (1995-96) in the thrust area "Biodiversity Conservation" to work at the University of Massachusetts, Boston, USA.

Scientific Services

Professional Associations:

- Included as an expert in the committee (Ecology & Environment) constituted by the Office of the Principal Scientific Adviser to the Government of India to draft the Mega Science Vision-2035 of India (2020- till present).
- On the panel of taskforce of DBT, New Delhi for the project ' Demonstration of cultivation, processing and value addition of selected aromatic crops in Bundelkhand region. (2017-2020)
- UGC nominee in the advisory committee for monitoring the progress of SAP programme of Department of Biosciences, Himachal Pradesh University, Shimla, HP (2016-2019).
- Member of Global Forest Biodiversity Initiatives (GFBI), People, Nature, World, Diversity, USA.
- Member of South Asia Region Network of IUCN – CEM (Critical Ecosystem Management), IUCN CEM South Asia Core Group.
- Elected as Vice President of Executive Council of National Institute of Ecology (NIE), New Delhi (2014-2017, 2018-2020).
- Inducted in the executive body of International Society of Environmental Botanists (2019 till present).
- Executive Council Member of Society for Science of Climate Change and Sustainable Environment (SSCE), New Delhi.
- Editorial Member of the Journal of Climate Change and Sustainable Environment.
- Councilor, Rangeland Management Society of India.
- Councilor, National Institute of Ecology, India.

Membership of Editorial Boards:

- *Vegetos* – Editor – 2023 to continue
- *Sustainability* - Special Issue "Impacts of Climate Change on Biodiversity", IF-3.25 (MDPI) – Guest Editor - 2022
- *Land Degradation & Development* – Special Issue "Biodiversity and Ecosystem Services at Post-mining and Post-industrial Lands", IF-4.977 (Wiley Publisher) - Guest Editor - 2022
- *Journal of Environmental Monitoring and Assessment* (Springer), IF- 2.513 – Guest Editor; Vol. 191 (Suppl. 3), 2019.
- *International Journal of Ecology and Environmental Sciences* - Special Issue on 'Forest dynamics under anthropogenic disturbances and global climate change', Guest Editor – 2021