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On-going Research Projects

 Techniques for protecting infrastructure, forest plantation and utilization of pine needles funded by Govt. of Himachal Pradesh under Research and Development Fund Scheme (Co-PI)

Important Research Publications

- Kumar D, Thakur C L, Bhardwaj D R, Sharma N, Sharma P and Sankhyan N. 2022. Biodiversity conservation and carbon storage of Acacia catechu Willd. dominated northern tropical dry deciduous forest ecosystems in north-western Himalaya: Implications of different forest management regimes. *Frontier in Environment Science*. DOI: https://doi.org/ 10.3389/fenvs.2022.981608.
- **Kumar D,** Bhardwaj DR, Sharma P, Sankhyan N, Al-Ansari N and Linh NTT. 2022. Population Dynamics of *Juniperus macropoda* Bossier Forest Ecosystem in Relation to Soil Physico-Chemical Characteristics in the Cold Desert of North-Western Himalaya. *Forests*, **13**(10):1624.
- **Kumar D**, Bhardwaj DR, Thakur CL, Sharma P and Ayele GT. 2022. Vegetation Shift of *Juniperus macropoda* Boisser Forest in Response to Climate Change in North-Western Himalayas, India. *Forests*, **13**(12): 2088.
- Kumar D, Bhardwaj D R, Sharma H, Sharma P and Pala AN. 2022. Species diversity assessment along altitudinal gradient in cold desert Juniperus forest of North-Western Himalaya. *Indian Forester* 148(7):459-466 DOI: https://doi.org/10.36808/if/2022/v148i7/156300
- Bhardwaj DR, Kumar A, Pala NA, Sharma P, Kumar D, Kumar A and Zahoor S. 2022. Carbon density and C-sequestration of tree plantation ecosystems in the mid-hills of the NW-Himalayas: Implications for climate change mitigation. *Land Degradation and Development* 33(12): 2115-2126. DOI: https://doi.org/10.1002/ldr.4307
- Sharma P, Bhardwaj DR, Singh MK, Nigam R, Pala NA, Kumar A, Verma K, Kumar D and Thakur P. 2022. Geospatial technology in agroforestry: status, prospects, and constraints. *Environment Science and Pollution Research*. https://doi.org/10.1007/s11356-022-20305-y
- Panwar P, Mahalingappa DG, Kaushal R, Bhardwaj DR, Chakravarty S, Shukla G, Kumar D, ... and Gurung T. 2022. Biomass production and carbon sequestration potential of different agroforestry systems in India: A Critical Review. *Forests.* 13(8):1274. https://doi.org/10.3390/f13081274
- Navale MR, Bhardwaj DR, Bishist R, Thakur CL, Sharma S, Sharma P, **Kumar D** and Probo M. 2022. Seasonal variations in the nutritive value of fifteen multipurpose fodder tree species: A case study of north-western Himalayan mid-hills. *PloS one*, **17**(10): p.e0276689.

- Bhardwaj DR, Tahiry H, Sharma P, Pala AN, Kumar D, Kumar A and Bharti. 2021. Influence of aspect and elevational gradient on vegetation pattern, tree characteristics and ecosystem carbon density in North-western Himalayas. *Land* **10**, 1109 DOI: https://doi.org/10.3390/land10111109
- Garima, Bhardwaj D R, Thakur C L, Kaushal R, Sharma P, Kumar D and Kumari Y. 2021. Bamboo based agroforestry system effects on soil fertility: Ginger performance in the bamboo subcanopy in the Himalayas (India). *Journal of Agronomy* 1-14. DOI: https://doi.org/10.1002/agj2.20684

Awards & Recognitions

• Young Achiever Award-2022, Agricultural Technology Development Society (ATDS), Ghaziabad, Uttar Pradesh