


Curriculum Vitae

Full Name:	Dr Munesh Kumar	
Designation:	Professor	
Department:	Forestry and Natural Resources	
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Date of Birth:	30 June 1972	
Educational Qualification:	M.Sc., PhD (Forestry)	
Fields of Specialization:	Forest Ecology and Biodiversity	
Teaching Experience:	18 years (Permanent Faculty)	
Area of Interest:	Forest Ecology, carbon sequestration, Ethnobotany, soil science	
Honours & Awards: <ul style="list-style-type: none"> ➤ World Sustainable Agriculture Development Award (2018), International Benevolent Research foundation. ➤ Senior Scientist Award (2019), Cooch Bihar Association of Agriculture Sciences. ➤ Best Researcher Award (Certificate of excellence), International Research Awards on New Science Inventions (NESIN 2020), Science Father (SF), Identification Number:6762 ➤ Distinguished Scientist Award. Astha Foundation (Meerut, U.P). The outstanding contribution in the field of Forest Ecology and Biodiversity on international web conference on Global Research Initiatives for sustainable Agriculture and Allied Sciences (GRISAAS-2021) on 13-15 December 2021. ➤ Outstanding Scientist Award-2022 for contribution in the field of “Forest Ecology” on the occasion of National seminar on Conservation of Biodiversity held on September 2 & 3, 2022. 		
Membership/Associations: <ul style="list-style-type: none"> • Life Membership of Cooch Bihar Association of Agriculture Sciences • Member of Economic Botany 		
Research Supervision (No. of PhD. Degree Awarded/ Submitted/Registered): <ul style="list-style-type: none"> • Five (05): 04 Main supervisions, 01 Co-supervision 		
Research Projects/ MoU undertaken (Title, Funding Agency, Total Cost, Completed/ Ongoing): <ul style="list-style-type: none"> • PI of the project: Titled “<i>Carbon stock estimation of Pinus roxburghii stands in Garhwal Himalaya</i>” funded by SERB-DST (Science and Engineering Research Board, Department of Science and Technology, New Delhi. (SB/EMEQ-205/2013 dated 04-10-13, 12 lakh) (Completed) • PI of the project: titled Developing a strategy for Fiber Based Livelihood Enterprise through <i>Grewia oppositifolia</i> (Bhimal) for SC and ST communities in Narendranagar Block of Tehri Garhwal” NRDMs-DST New Delhi 10.54 lakh (2017-2020) (Completed) • PI of the project: titled “Assessment of soil health and plants-based product from different land use pattern for livelihood dependency in Rudryprayag/Chamoli District of Uttarakhand”. UCS&T/R&D 36-20-21, 6.83 lakh (20-21 to 21-22). (Ongoing) • CO-PI of the project: titled “Improvising decentralized forest governance in Central Himalaya converging on livelihood and policy concerns”. UCS&T/R&D-33/20-21/9337/1 20-21,21-22,22-23 (14.86 lakh) (Ongoing) 		

Administrative Experience:

- Hostel Warden: Forestry Boys Hostel

Scientific visits Abroad/ International Collaboration during last 5 years

- International Collaboration (i.e., Exchange ideas for Joint research publications, Special Issues, Book) with Prof Rainer W. Bussmann (USA), Dr Amit Kumar (China), Dr Marina Cabral Pinto (Portugal), Prof H.B. Ticeman (Turkey), Prof Wil De Jong (Japan).

Conference/Symposium/Workshops Attended during the last 5 years:

- Presented Poster on “Distribution of soil organic carbon (SOC) in different landuse pattern in Srinagar Valley of Garhwal Himalaya” on October 21-23, 2018. In the Department of Physics, HNB Garhwal University, in International Conference on “Aerosols o, Air Quality & Climate Change n Himalayan Region of Uttarakhand (AAC-2018).
- Presented a Poster on Developing fiber livelihood enterprise through Bhimal (*Grewia oppositifolia*) mountain of Garhwal Himalaya on May, 2-4, 2018 At Forest Research Institute Dehradun organized by Watershed Management Directorate Dehradun. On Summit on Climate Resilient Mountain Agriculture.
- Presented a Poster on Bhimal (*Grewia oppositifolia*) fiber based livelihood enterprise for SC and ST communities in Narendar Nagar Block, Tehri Garhwal, Uttarkahand. On October 4-6,2018 At Forest Research Institute Dehradun organized by Navadhayan, Dehradun.
- Presented paper on “Agroforestry trees: Source for livelihood security of the villagers/farmers in Garhwal Himalaya on October 25-27, 2018. In the Department of Geography, HNB Garhwal University, Srinagar Garhwal, in National Conference on Environment, Resources and Development of the Indian Himalaya.
- Presented paper on “Fiber based Micro Enterprise & Livelihood of SC and ST communities: A study of Narendar Nagar Block, Tehri Garhwal on 12 & 13 October, 2019. In the Department of Economics, HNB Garhwal University, Srinagar Garhwal, in National Conference on Agriculture Transformation and Rural Development in India: Issues, Challenges and possibilities.

Scientific Publication: Some important publications (Total research paper-150)

- Bhatt, B.P., **Munesh Kumar** and Todaria, N.P. 1997. Studies on the Allelopathic Effects on *Terminalia* species on Garhwal Himalaya. *Journal Sustainable Agriculture* 11(I): 71-84. (IF= 1.381)
- Archana Verma and, **Munesh Kumar** and Rainer W. Bussmann 2007. Medicinal plants in an urban environment: the medicinal flora of Banares Hindu University, Varanasi, Uttar Pradesh. *Journal of Ethnobiology and Ethnomedicine*, 3:35 (IF=3.4)
- **Munesh Kumar**, Lakiaing, J.J and Siiolyne Siangshai 2008. Tree-crop interactions in agro forestry system of Mizoram. *Journal of Tropical Forest Science* 20(2):1-8 (IF=0.957)
- **Munesh Kumar**, Siiolyne Singshi and Bhupendra Singh 2008. Screening indigenous tree species for suitable tree-crop combination in the agroforestry system of Mizoram, India. *Estonian Journal of Ecology*. 57(4):269-278
- **Munesh Kumar**, Bhupendra Singh and Mukesh Joshi 2008 Effect of aspect on distribution pattern of *Anogeissus latifolia* in subtropical belt of Garhwal Himalaya *Tanzania Journal of Forestry and Nature Conservation* 78:21-27
- Vikrant Malik, Rakesh Mohan and **Munesh Kumar** 2008 Inter cropping studies of *Sorghum bicolor* three varieties in hilly mountains of Mizoram. *Agricultura* 7:1-4
- **Munesh Kumar**, C. M. Sharma and G.S. Rajwar 2009 Effect of disturbance on community composition and structure of Forests along altitudinal gradients of Garhwal Himalaya *South Chinese Journal of Ecology* 28(3):424-432
- **Munesh Kumar** C. M. Sharma and G. S. Rajwar 2009. Energy Budget of Traditional Hill Agroecosystems along Altitudinal Gradient in Garhwal Himalaya, India. *World Journal of Agricultural Sciences* 5(6): 729-736
- **Munesh Kumar**, Sharma, C.M. 2009. Fuel wood consumption pattern at different altitudes in rural areas of Garhwal Himalaya. *Biomass and Bioenergy* 33:1413-1418. (IF=5.77)

- Sheikh, M. A., **Munesh Kumar** and Bussmann, R. W. 2009. Altitudinal variation in soil organic carbon stock in coniferous subtropical and broadleaf temperate forests in Garhwal Himalaya. *Carbon Balance and Management*, 4:6 doi: 10.1186/1750-0680-4-6. (IF=4.3)
- **Munesh Kumar**, Joshi Mukesh and N. P. Todaria 2010. Regeneration status and plant bio-diversity in a sub-tropical forest of Garhwal Himalaya. *Journal of Forestry Research* 21(4):439-444 (IF 2.3)
- **Munesh Kumar** Rainer Bussmann Mukesh Joshi and Pramod Kumar 2011. Ethnomedicinal uses of plants close to rural habitation in Garhwal Himalaya. *Journal of Medicinal Plant Research* 5(1):2252-2260
- **Munesh Kumar** 2011. Yield production and energy budget of traditional agricultural crops in Garhwal Himalaya. *Agricultural Sciences in China* 10(1): 101-105 (IF=1.042)
- Govind S. Rajwar and **Munesh Kumar** 2011. Fuelwood consumption in two tribal villages of the Nanda Devi Biosphere Reserve of the Indian Himalaya and strategies for fuel wood Sustainability. *Environment, Development and Sustainability*. 13 (4):727-741 (IF=4.0)
- Mehraj A. Sheikh, **Munesh kumar** and Jahangeer A. Bhat 2011. Wood Specific Gravity in Species from Sub-tropical and temperate forests of Garhwal Himalayas. *Forestry Studies in China* 13(3):225-230. (DOI 10.1007/s11632-011-03108)
- **Munesh Kumar**, Sheikh MA and Bussmann R.W. 2011. Ethnomedicinal and ecological status of plants in Garhwal Himalaya, India *Journal of Ethnobiology and Ethnomedicine* 7:32 (doi:10.1186/1746-4269-7-32) (IF=3.4)
- Mehraj A. Sheikh, **Munesh Kumar** and Rainer W. Bussmann and N. P. Todaria. 2011. Carbon stock and net flux in physiographic zones of India. *Carbon Balance Management* 6:15. (IF=4.3)
- Jahangeer A Bhat, **Munesh Kumar** and Rainer W Bussmann 2013. Ecological status and traditional knowledge of medicinal plants in Kedarnath Wildlife Sanctuary of Garhwal Himalaya, India, *Journal of Ethnobiology and Ethnomedicine* 2013, 9:1 (IF=3.4)
- **Munesh Kumar**, Mehraj A. Sheikh and Rainer W Bussman 2013 Effect of fire on soil nutrient in *Pinus roxburghii* forest in Garhwal Himalaya. *Acta Ecologica Sinica*, 33:59-63
- Sanjay Kumar and **Munesh Kumar** 2012. Carbon stock variation of *Pinus roxburghii* Sargent forest along altitudes of Garhwal Himalaya, India. *Russian Journal of Ecology* (IF-0.74)
- Animesh Kanawjia, **Munesh Kumar**, Mehraj A. Sheikh 2013. Specific gravity of some woody species in the Srinagar Valley of the Garhwal Himalayas, India. *Forest Science and Practice* 15(1):85-88
- Jahangeer A. Bhat, Kaiser Iqbal, **Munesh Kumar**, A. K. Negi, N. P. Todaria 2013. Carbon stock of trees along an altitudinal gradient in temperate forests of Kedarnath Wildlife Sanctuary. *Forest Science and Practice* 15(2): 137-143
- **Munesh Kumar**, Manish Kumar, Sajid Singh, Sunil Prasad and GS Rajwar. 2013. Change in Community Composition and Soil Carbon Stock Along Transitional Boundary in a Sub-Tropical Forest of Garhwal Himalaya. *Journal of Forest Science* 29(2), 147-156
- **Munesh Kumar**, Mehraj A Sheikh Sajjed S. Khan. 2014. Carbon stock in the proposed submergence forest of Srinagar Hydroelectric Project, Uttarakhand, India. *Forest Science and Technology*: 10(2): 61-66. DOI:10.1080/21580103.2013.842942
- **Munesh Kumar**, Mehraj A Sheikh, Sajjed S. Khan. 2014. Carbon stock in the proposed Influenced forest of Srinagar Hydroelectric Project, Uttarakhand, India. *Journal of Forest Science and Technology* 10(3):125-129 DOI:10.1080/21580103.2013.874375
- Shipra Shah, D. P. Sharma, Nazir A. Pala, Priyanka Tripathi and **Munesh Kumar**. 2014. Temporal variations in carbon stock of *Pinus roxburghii* sergent forests of Himachal Pradesh, India. *Journal of Mountain Science*, 11(4): 959-966. DOI 10.1007/s11629-013-2725-2 (IF-2.3)
- Kehar S. Thakur, **Munesh Kumar**, Rajan Bawa, and Rainer W. Bussmann. 2014. Ethnobotanical study of herbaceous flora along an altitudinal gradient in Bharmour Forest Division, District Chamba of Himachal Pradesh, India. *Evidence-Based Complementary and Alternative Medicine* 1-7 DOI

10.1155/2014/946870 (IF-1.931)

- **Munesh Kumar** 2015. Carbon stock in standing dead trees of *Pinus roxburghii* Sarg. in sub-tropical part of Garhwal Himalaya. *Forestry Ideas*: 21,1(49): 75–83.
- Saha, S., Rajwar, G.S., **Munesh Kumar** 2016. Forest structure, diversity and regeneration potential along altitudinal gradient in Dhanaulti of Garhwal Himalaya. *Forest Systems*, 25(2):, e058. <http://dx.doi.org/10.5424/fs/2016252-07432>. (IF-1.45).
- Sushil Saha, G.S.Rajwar and **Munesh Kumar** and Kalidas Upadhaya. 2016. Litter production, decomposition and nutrient release of woody tree species in Dhanaulti region of temperate forest in Garhwal Himalaya. *Eurasian Journal of Forest Science* 4(1):17-30
- Maria Debbarma, Nazir A. Pala, **Munesh Kumar**, Rainer W. Bussmann 2017. Traditional knowledge of medicinal plants in tribes of Tripura in Northeast India. *African Journal of Traditional Complement Alternate Medicine* 14 (4): 156-168 <https://doi.org/10.21010/ajtcam.v14i4.19> (IF =0.553)
- Bhuvnesh Nagar, Sushma Rawat and **Munesh Kumar** 2017. Role of Agroforestry Trees in Sustaining Livelihood: A Case of Communities in Western Himalayas., *Journal of Forest and Environmental Science* 33(2): 91-96 (ISSN-1226-8267)
- Jahangeer A. Bhat, **Munesh Kumar**, Nazir A. Pala, Shipra Shah, Suchindra Dayal, Champathi Gunathilake 2018. Influence of altitude on the distribution pattern of flora in a protected area of Western Himalaya *Acta Ecologica Sinica* (ISSN-1872-2032) in press
- Antony Joseph Raj, Saroj Biswakarma, Nazir A. Pala, Gopal Shukla, Vineeta, **Munesh Kumar**, Sumit Chakravarty and Rainer W. Bussmann 2018. Indigenous uses of ethnomedicinal plants among forest-dependent communities of Northern Bengal, India. *Journal of Ethnobiology and Ethnomedicine* (ISSN: 1746-4269) (IF=3.4)
- Atul Pratap Singh, **Munesh Kumar**, Bhuvnesh Nagar, Nazir A. Pala, and Rainer W. Bussmann 2019. Ethnomedicinal use of plant resources in Kirtinagar Block of Tehri Garhwal in Western Himalaya *Ethnobotany Research and Applications* 18(14):1-11 (ISSN 1547-3465)
- **Munesh Kumar**, Rahul Kumar, Bobbymoore Konsam, Mehraj A. Sheikh and Rajiv Pandey 2019. Above- and below-ground biomass production in *Pinus roxburghii* forests along altitudes in Garhwal Himalaya, India *Current Science* (ISSN 0011-3891) 116 (9): (IF-0.756).
- Mehraj A. Sheikh, **Munesh Kumar**, N.P. Todaria, Rajiv Pandey 2019. Biomass and soil carbon along altitudinal gradients in temperate *Cedrus deodara* forests in Central Himalaya, India: Implications for climate change mitigation. *Ecological Indicators* 111, 106025 (IF:6.3)
- Amit Kumar and **Munesh Kumar** 2020. Estimation of Biomass and Soil Carbon Stock in the Hydroelectric Catchment of India and its Implementation to Climate Change. *Journal of Sustainable Forestry*, DOI: 10.1080/10549811.2020.1794907 (IF:1.77)
- Monika Chauhan, **Munesh Kumar** and Amit Kumar. 2020 Impact of carbon stocks of *Anogeissus latifolia* on climate change and socio-economic development: A case study of Garhwal Himalaya, India. *Water, Air, & Soil Pollution* 231:436 <https://doi.org/10.1007/s11270-020-04803-8> (IF:2.9)
- Krishna Rana, **Munesh Kumar**, Amit Kumar 2020. Assessment of annual shoot biomass and carbon storage potential of *Grewia optiva*: An approach to combat Climate Change in Garhwal Himalaya. *Water, Air, & Soil Pollution* DOI: 10.1007/s11270-020-04825-2 (IF:2.9).
- Jahangeer A. Bhat, **Munesh Kumar**, A.K. Negi, N.P. Todaria, Zubair A. Malik, Nazir A. Pala, Amit Kumar, Gopal Shukla. (2020). Species diversity of woody vegetation along altitudinal gradient of the Western Himalayas. *Global Ecology and Conservation* 24: e01302 (IF: 4.6).
- Amit Kumar, Marina Cabral-Pinto, Amit Kumar, **Munesh Kumar** and Pedro A. Dinis. Estimation of Risk to the Eco-Environment and Human Health of Using Heavy Metals in the Uttarakhand Himalaya, India. *Applied Sciences*. 10, 7078; doi:10.3390/app10207078 (IF:2.6) ISSN 2076-3417
- **Munesh Kumar**, Amit Kumar, Rahul Kumar, Bobbymoore Konsam, Nazir A Pala and Jahangeer A.

Bhat 2021. Carbon stock potential in *Pinus roxburghii* forests of Indian Himalayan regions. *Environment, Development and Sustainability* <https://doi.org/10.1007/s10668-020-01178-y> (IF= 4.0).

- Mehraj A Sheikh, **Munesh Kumar**, N. P. Todaria, Jahangeer A Bhat, Amit Kumar, Rajiv Pandey 2021. Contribution of *Cedrus deodara* forests for climate mitigation along altitudinal gradient in Garhwal Himalaya, India. *Mitigation and Adaptation Strategies for Global Change*. DOI: 10.1007/s11027-021-09941-w (IF= 3.9).
- **Munesh Kumar**, Sushma Rawat, Bhuvnesh Nagar, Amit Kumar, Nazir A. Pala, Jahangeer A. Bhat, Rainer W. Bussmann, Marina Cabral-Pinto and Ripu Kunwar 2021. Implementation of the Use of Ethnomedicinal Plants for Curing Diseases in the Indian Himalayas and Its Role in Sustainability of Livelihoods and Socioeconomic Development. *International Journal of Environmental Research and Public Health* 18(3):1509 (IF= 3.9).
- Lakpa D. Lepcha, Gopal Shukla, Mohammad Moonis, Vineeta, Jahangeer A. Bhat, **Munesh Kumar**, Sumit Chakravarty Seasonal relation of NTFPs and socio-economic indicators to the household income of the forest-fringe communities of Jaldapara National Park. *Acta Ecologica Sinica*, <https://doi.org/10.1016/j.chnaes.2021.03.002>.
- Prakash Rai, Vineeta, Gopal Shukla, Abha Manohar K, Jahangeer A Bhat, Amit Kumar, **Munesh Kumar**, Marina Cabral-Pinto, and Sumit Chakravarty 2021. Carbon Storage of Single Tree and Mixed Tree Dominant Species Stands in a Reserve Forest—Case Study of the Eastern Sub-Himalayan Region of India. *Land* 10, 435. <https://doi.org/10.3390/land10040435> (IF: 3.9).
- Mendup Tamang, Roman Chettri, Vineeta, Gopal Shukla, Jahangeer A. Bhat, Amit Kumar, **Munesh Kumar**, Arpit Suryawanshi, Marina Cabral-Pinto and Sumit Chakravarty 2021. Stand Structure, Biomass and Carbon Storage in *Gmelina arborea* Plantation at Agricultural Landscape in Foothills of Eastern Himalayas. *Land* 10, 387. <https://doi.org/10.3390/land10040387> <https://www.> (IF: 3.9).
- Usha Thakur, Narendra Singh Bisht, **Munesh Kumar** and Amit Kumar 2021. Influence of altitude on diversity and distribution pattern of tree in Himalayan Temperate forests of Churdhar Wildlife Sanctuary, India. *Water, Air, & Soil Pollution* (IF: 2.9).
- Bhuvnesh Nagar, Sushma Rawat, Rajiv Pandey, Munesh Kumar and Juha M. Alatalo 2021. Fuelwood and fodder consumption patterns among agroforestry-practicing smallholder farmers of the lower Himalayas, India. *Environment, Development and Sustainability* <https://doi.org/10.1007/s10668-021-01673-w> (IF: 4.0)
- Kiran K. Murasinga, Munesh Kumar a, and Amit Kumar. 2021. Effect of altitude on the mechanical strength of *Grewia optiva* fiber in Garhwal Himalaya, India. *Journal of Natural Fibers* <https://doi.org/10.1080/15440478.2021.1929652> (IF: 5.2)
- Bhuvnesh Nagar Sushma Rawat Rajiv Pandey Munesh Kumar 2021. Variation in specific gravity and carbon proportion of agroforestry tree species of Himalaya. *Environmental Challenges* 4 (2021) 100156 [HTTPS://DOI.ORG/10.1016/J.ENVC.2021.100156](https://doi.org/10.1016/J.ENVC.2021.100156)
- Tarun Kumar Thakur, Joystu Dutta Prachi Upadhyay Digvesh Kumar Patel Anita Thakur Munesh Kumar Amit Kumar 2021. Assessment of land degradation and restoration in coal mines of central India: A time series analysis. *Ecological Engineering* 175: 106493 <https://doi.org/10.1016/j.ecoleng.2021.106493> (IF: 4.3)
- Amit Kumar, **Munesh Kumar**, Rajiv Pandey, Yu ZhiGuo, Marina Cabral-Pinto 2021. Forest soil nutrient stocks along altitudinal range of Uttarakhand Himalayas: An aid to Nature Based Climate Solutions *Catena* 207,105667, <https://doi.org/10.1016/j.catena.2021.105667>.
- Usha Thakur, N. S. Bishth, Amit Kumar, **Munesh Kumar** and Uttam Kumar Sahoo 2021. Regeneration Potential of Forest Vegetation of Churdhar Wildlife Sanctuary of India: Implication for Forest Management *Water, Air, & Soil Pollution* 232: 373 <https://doi.org/10.1007/s11270-021-05315-9> (IF=2.9).
- Thakur, T. K., Patel, D.K., Thakur, A., Kumar, A., Bijalwan. A., Bhat. J.A., Kumar, A., Dobriyal, M.J., Kumar, M. and Kumar, A. 2021. Biomass Production Assessment in a Protected Area of Dry Tropical forest Ecosystem of India: A Field to Satellite Observation Approach. *Front. Environ. Sci.*

9:757976.doi: 10.3389/fenvs.2021.757976 *Frontiers in Environmental Science* www.frontiersin.org
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- Tarun Kumar Thakur, Joystu Dutta, Prachi Upadhyay, Digvesh Kumar Patel, Anita Thakur **Munesh Kumar** and Amit Kumar 2021. Assessment of land degradation and restoration in coal mines of central India: A time series analysis. *Ecological Engineering* 175: 106493 <https://doi.org/10.1016/j.ecoleng.2021.106493> (4.29)
- Amit Kumar, **Munesh Kumar**, Rajiv Pandey, Yu ZhiGuo, Marina Cabral-Pinto 2021. Forest soil nutrient stocks along altitudinal range of Uttarakhand Himalayas: An aid to Nature Based Climate Solutions *Catena* 207,105667, <https://doi.org/10.1016/j.catena.2021.105667>. (IF: 6.3).
- Usha Thakur, N. S. Bisth, Amit Kumar, Munesh Kumar and Uttam Kumar Sahoo 2021. Regeneration Potential of Forest Vegetation of Churdhar Wildlife Sanctuary of India: Implication for Forest Management *Water, Air, & Soil Pollution* **232**: 373 <https://doi.org/10.1007/s11270-021-05315-9>. (IF: 2.9)
- Thakur, T.K., Patel. D.K., Thakur. A., Kumar. A., Bijalwan. A., Bhat. J.A., Kumar. A., Dobriyal. M.J., **Munesh Kumar** and Kumar. A. 2021. Biomass Production Assessment in a Protected Area of Dry Tropical forest Ecosystem of India: A Field to Satellite Observation Approach. *Front. Environ. Sci.* 9:757976.doi: 10.3389/fenvs.2021.757976 *Frontiers in Environmental Science* | www.frontiersin.org 9: 29 doi: 10.3389/fenvs.2021.757976. (IF: 5.4).
- Bhuvnesh Nagar, Sushma Rawat, Rajiv Pandey, **Munesh Kumar** and Juha M. Alatalo 2021. Fuelwood and fodder consumption patterns among agroforestry-practicing smallholder farmers of the lower Himalayas, India. *Environment, Development and Sustainability* <https://doi.org/10.1007/s10668-021-01673-w> (IF: 4.0).
- Bhuvnesh Nagar Sushma Rawat Rajiv Pandey **Munesh Kumar** (2021).Variation in specific gravity and carbon proportion of agroforestry tree species of Himalaya. *Environmental Challenges* 4 100156 [HTTPS://DOI.ORG/10.1016/J.ENVC.2021.100156](https://doi.org/10.1016/j.envc.2021.100156), 4: 2021, 100156
- Shweta Rawat, Vinod Prasad Khanduri, Bhupendra Singh, Manoj Kumar Riyal, Tarun Kumar Thakur, **Munesh Kumar**, Marina MS Cabr al-Pinto. 2022. Variation in carbon stock and soil properties in different *Quercus leucotrichophora* forests of Garhwal Himalaya. *Catena* 213 (2022) 106210 (IF: 6.3).
- Amit Kumar, Saurabh Mishra, Rajiv Pandey, Zhi Guo Yu, **Munesh Kumar**, Kuan Shiong Khoo, Tarun Kumar Thakur, Pau Loke Show 2022 Microplastics in terrestrial ecosystems: Un-ignorable impacts on soil characterizes, nutrient storage and its cycling. *Trends in Analytical Chemistry* 158 (2023) 116869 (IF: 14.9).
- Singh, B.; **Kumar, M.**; Cabral-Pinto, M.M.S.; Bhatt, B.P. 2022. Seasonal and Altitudinal Variation in Chemical Composition of *Celtis australis* L. Tree Foliage. *Land* 2022, 11, 2271. <https://doi.org/10.3390/land11122271> (IF: 3.9)
- Anand, J.; Rawat, J.S.; Rawat, V.; Singh, B.; Khanduri, V.P.; Riyal, M.K.; Kumar, P.; Pinto, M.M.S.C.; **Munesh Kumar**, 2022 Climatic and Altitudinal Variation in Physicochemical Properties of *Citrus sinensis* in India. *Land* 2022, 11, 2033. <https://doi.org/10.3390/land11112033> (IF: 3.9)
- Ricky Pradhan, Biplov Ch. Sarkar, K. Abha Manohar, Gopal Shukla, Mendup Tamang, Vineeta, Jahangeer A. Bhat, **Munesh Kumar** and Sumit Chakravarty (2022). Biomass carbon and soil nutrient status in urban green sites at foothills of eastern Himalayas: Implication for carbon management. *Current Opinion in Environmental Sustainability* DOI: 10.1016/j.crsust.2022.100168
- **Munesh Kumar**, Amit Kumar, Tarun Kumar Thakur, Uttam Kumar Sahoo, Rahul Kumar, Bobbymoore Konsam, Rajiv Pandey 2022. Soil organic carbon estimation along an altitudinal gradient of chir pine forests in the Garhwal Himalaya, India: A field inventory to remote sensing approach . *Land Degradation and development* <https://doi.org/10.1002/ldr.4393> (IF= 4.77)
- Tariyal, N.; Bijalwan, A.; Chaudhary, S.; Singh, B.; Dhanai, C.S.; Tewari, S.; Kumar, M.; Kumar, S.; Cabral Pinto, M.M.S.; Thakur, T.K. 2022. Crop Production and Carbon Sequestration Potential of *Grewia oppositifolia*-Based Traditional Agroforestry Systems in Indian Himalayan Region. *Land*, 11,

839. <https://doi.org/10.3390/land11060839> **Impact Factor 3.9**)

- Thakur, T.K., Eripogu, K.K., Thakur, A., Kumar, A., Bakshi, S., Swamy, S.L., Bijalwan, A. and **Munesh Kumar** 2022. Disentangling Forest Dynamics for Litter Biomass Production in a Biosphere Reserve in Central India. *Front. Environ. Sci.* 10:940614. doi: 10.3389/fenvs.2022.940614 (**IF 5.4**)
- Bhupendra Singh, **Munesh Kumar**, Marina M. S. Cabral-Pinto and Bhagwati Prasad Bhatt 2022 Seasonal and Altitudinal Variation in Chemical Composition of *Celtis australis* L. Tree Foliage Land. *Land* 2022, 11(12), 2271; <https://doi.org/10.3390/land11122271>