


Curriculum Vitae

Full Name:	Dr Munesh Kumar	
Designation:	Associate Professor	
Department:	Department of Forestry and Natural Resources	
Campus:	Chaurash	
Telephone:	01346267529	
Mobile:	09411789420	
Email:	muneshmzu@yahoo.com	
Date of Birth:	30 June 1972	
Educational Qualification:	M.Sc PhD (Forestry)	
Fields of Specialization:	Forest Ecology and Biodiversity	
Teaching Experience:	16 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, 2nd World Clean Environment Summit • Senior Scientist Award (2019), Cooch Bihar Association for cultivation of Agriculture Sciences (COBACAS) 		
Membership/Associations: <ul style="list-style-type: none"> • Life Membership of Cooch Bihar Association of Agriculture Sciences 		
Research Supervision (No. of PhD. Degree Awarded/ Submitted/Registered): <ul style="list-style-type: none"> • Five (05): 04 Main supervisions, 01 Co-supervision 01 Registered 		
Research Projects/ MoU undertaken (Title, Funding Agency, Total Cost, Completed/ Ongoing): <ul style="list-style-type: none"> • <i>Carbon stock estimation of Pinus roxburhii stands in Garhwal Himalaya</i>” funded by SERB-DST (Science and Engineering Research Board, Department of Science and Technology, New Delhi. (<u>SB/EMEQ-205/2013 dated 04-10-13, Rs 12 lakh</u>) • 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) Ongoing 		

Administrative Experience:

Scientific visits Abroad/ International Collaboration:

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

- Presented a research paper on “SOC stock under *Pinus roxburghii* forests at different altitudes of Garhwal Himalaya” on 28-30, October 2015, At Department of Geography, in National Seminar on Climate Change, Resources, Biodiversity & Environmental Challenges: Issues and Strategies for Sustainable Development.
- Presented a Poster on “Impact of Aspects on litter production and soil carbon stock of *Pinus roxburghii* forests in Garhwal Himalaya” on 30-31, October 2015, At Department of Forestry and Natural Resources of HNB Garhwal University, in National Conference on Climate Change Social Vulnerability Assessment
- 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 Mangment 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 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 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.

Conference/Symposium/Workshop Organized during last five years:

Scientific publications

1. 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(1): 71-84. (IF= 1.381).
2. Vikrant Malik, **Munesh Kumar** and Rakesh Mohan 2006 “Growth performance of three *Sorghum bicolor* Linn. varieties under newly established *Melia azadirachta* plantation in Mizoram. *Range Management and Agroforestry* 27 (1):58-60 pp (IF-0.643)
3. **Munesh Kumar**, Butola, B.S., Bhatt. S. Vikas Pal and Semwal, S. 2008. Effect of *Lyonia ovalifolia* on germination and growth of test crops. *Journal of Range Management and Agro forestry*.29(1):64-65 (IF-0.643)
4. 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=2.273)
5. **Munesh Kumar**, Lakiain, J.J and Siolyne Siangshai 2008. Tree-crop interactions in agro forestry system of Mizoram. *Journal of Tropical Forest Science* 20(2):1-8 (IF=0.466)
6. **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 (IF 0.29)
7. **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=3.219)
8. 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=4.37)
9. **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 1.155)
10. **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)
11. 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=1.676)
12. **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=2.273)
13. 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=4.37)

14. Jahangeer A. B. **Munesh Kumar**, Ajeet K. Negi N. P. Todaria 2012. *Acacia dealbata* Link. (Silver Wattle), an invasive species growing in high altitudes of the Himalaya. *Current Science* 103(2):130 **(IF-0.756)**
15. 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=2.273)**
16. **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
17. 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-0.430)**
18. **Munesh Kumar**, Mehraj A Sheikh Sajjed S. Khan. 2014. Carbon stock in the proposed submergence forest of Srinagar Hydroelectric Project, Uttarakhand, India. *Journal of Forest Science and Technology*: 10(2): 61-66. **DOI:10.1080/21580103.2013.842942**
19. **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**
20. 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)**
21. 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-1.138)**.
22. 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)**
23. 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
24. 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=2.273)**

25. Mehraj A. Sheikha, Munesh Kumara, 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 (2020) 106025 (IF=4.5)
26. **Munesh Kumar**, Rahul Kumar, Bobbymore 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)
27. 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:1.2)
28. 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:1.9)
29. 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:1.9)
30. 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* 24:1-17 e01302
31. Amit Kumar, Marina Cabral-Pinto, Amit Kumar, **Munesh Kumar** and Pedro A. Dinis. 2020. Estimation of Risk to the Eco-Environment and Human Health of Using Heavy Metals in the Uttarakhand Himalaya, India. *Applied Science* 10,2-18 7078; doi:10.3390/app10207078www.mdpi.com/journal/applsci

Total Number of Research Publications: 125