

CURRICULUM VITAE

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AWARD AND/OR OTHER RECOGNITION RECEIVED

- Certificate of Excellence for the outstanding contribution in the field of Ecology by National Institute of Ecology in 2022.

RESEARCH PUBLICATIONS

• Books	02
• Technical Reports	21
• Technical Bulletins	04
• Abstracts	70
• Popular Article and Extension Literature	18
• Research Papers	180
• Foreign Journals	70
• Indian Journals	110

RESEARCH PUBLICATIONS IN LAST FIVE YEARS

1. Bargali K, V Manral, K Padalia, **SS Bargali** and VP Upadhyay 2018. Effect of vegetation type and season on microbial biomass carbon in Central Himalayan forest soils, India. *Catena* 171(12):125-135. <https://doi.org/10.1016/j.catena.1018.07.001> **IF: 6.2**
2. Vibhuti, K Bargali and **SS Bargali** 2018. Effects of homegarden size on floristic composition and diversity along an altitudinal gradient in Central Himalaya, India. *Current Science* 114(12):2494-2503. **IF: 1.169**
3. Tewari I, K Bargali, **SS Bargali** and R Upadhyay 2018. Science and technology awareness programme in Uttarakhand *Current Science* 115(4):610. **IF: 1.169**
4. Padalia Kirtika, **SS Bargali**, K Bargali and K Khulbe 2018. Microbial biomass carbon and nitrogen in relation to cropping systems in Central Himalaya, India. *Current Science* 115(9): 1741-1750. **IF: 1.169**
5. Karki H, K Bargali, **SS Bargali** and Vibhuti 2018. Seed Size Variation in *Quercus floribunda* Lindl. and its Effect on Germination and Seedling Growth. *Current Trends in Forest Research* <https://doi.org/10.29011/CTFR-107.100007>
6. Bargali K, H Karki, Vibhuti and **SS Bargali** 2018. Contribution of homegarden agroforestry in livelihood of rural farmers in Kumaun Himalaya. *Bionature* 38(1):34-47.

7. Sharma S, A Kumar, BS Kholia and **SS Bargali** 2018. New pteridophytic records from Mizoram, northeastern India. *Journal of Threatened Taxa* 10(6):11822-11826.
8. Karki H, K Bargali and **SS Bargali** 2018. Effect of Sowing Time on Germination and Early Seedling Growth of *Quercus floribunda* Lindl. *Journal of Forestry and Environmental Science* 34(3):199-208. <https://doi.org/10.7747/JFES.2018.34.3.1>
9. Sharma S, BS Kholia and **SS Bargali** 2018. A new species of *Microlepia* (Dennstaedtiaceae) from Mizoram, India. *Webbia* 73(2)191-194.
10. **Bargali SS** 2018. Forest Ecosystem: Structure and Functioning (Editorial) *Current Trends in Forest Research* <https://doi.org/10.29011/2638-0013.100020>
11. Pandey R, Vibhuti, H Karki, P Awasthi, K Bargali and **SS Bargali** 2018. Effect of Wildfire on Herbaceous Vegetation in Cypress Mixed Oak Forest of Nainital, Kumaun Himalaya, India. *Current trends in Forest Research* <https://doi.org/10.29011/2638-0013.100021>
12. Padalia K, **SS Bargali**, K Bargali and RS Parihaar 2018. Socio-economic Analysis Based on Energy Input and Output of Mixed Cropping Systems of Bhabhar Region (Shiwalik Range of Kumaun Himalaya, India). *Current Agriculture Research Journal* 6(2):123-140.
13. **Bargali SS**, K Padalia and K Bargali 2019. Effects of tree fostering on soil health and microbial biomass under different land use systems in central Himalaya. *Land Degradation & Development* 30(16):1984-1998. <https://doi.org/10.1002/ldr.3394> **IF: 4.7**
14. Mourya NR, K Bargali and **SS Bargali** 2019. Effect of *Coriaria nepalensis* Wall. colonization in a mixed conifer forest of Indian Central Himalaya. *Journal of Forestry Research* 30(1):305-317. <https://doi.org/10.1007/s11676-018-0613-x> **IF: 3.0**
15. Sharma S, BS Kholia, A Kumar, A Srivastava and **SS Bargali** 2019. Commercialization – a suggested approach for conserving a threatened fern, *Pteris tricolor* Linden. *Current Science* 116(11):1790-1792. **IF: 1.169**
16. Vibhuti, K Bargali and **SS Bargali** 2019. Species composition, diversity and traditional uses of homegarden in Kumaun Himalaya, India. *Indian Journal of Agricultural Sciences* 89(9):1415-1418. **IF: 0.374**
17. Shahi C, **SS Bargali** and K Bargali 2019. Energy Use Efficiency of Rice-based Traditional Agroecosystems in Kumaun Himalaya, India. *Annals of Biology* 35(2):303-309.
18. Shahi C, **SS Bargali** and K Bargali 2019. Carbon stock and sequestration potential of different sized agroecosystems in Kumaun Himalaya. *Bulletin of Environment, Pharmacology and Life Sciences* 8:S26-S31.
19. Manral V, K Bargali, **SS Bargali** and C Shahi 2020. Changes in soil biochemical properties following replacement of Banj oak forest with Chir pine in Central Himalaya, India. *Ecological Processes* 9:30 <https://doi.org/10.1186/s13717-020-00235-8> **IF: 4.8**
20. Maletha A, RK Maikhuri and **SS Bargali** 2020. Criteria and Indicator for assessing threat on Himalayan birch (*B. utilis*) at timberline ecotone of Nanda Devi Biosphere Reserve: a world heritage site, Western Himalaya, India. *Environmental and Sustainability Indicators*. <https://doi.org/10.1016/j.indic.2020.100086> **IF: 4.3**
21. Vibhuti, Kiran Bargali and **SS Bargali** 2020. Effect of size and altitude on soil organic carbon stock in homegarden agroforestry system in Central Himalaya, India. *Acta Ecologica Sinica* 40(6):483-491. <https://doi.org/10.1016/j.chnaes.2020.10.002> **IF: 0.252**
22. Negi B, **SS Bargali**, K Bargali and K Khatri 2020. Allelopathic Interference of *Ageratum conyzoides* L. against Rice Varieties. *Current Agriculture Research Journal* 8(2):69-76.
23. Khatri K, K Bargali, B Negi and **SS Bargali** 2020. Germination and Early Seedling Growth of Two Rice Varieties as Affected by Invasive *Ageratina adenophora*. *Current Agriculture Research Journal* 8(2):108-117.
24. Karki H, Kiran Bargali and **SS Bargali** 2021. Spatial and seasonal pattern of fine root biomass and turnover rate in different land use systems in Central Himalaya, India. *Russian Journal of Ecology* 52(1):36–48. **IF: 1.1**

25. **Bargali SS**, P Awasthi and K Bargali 2021. Composition, structure and productivity of the herbaceous vegetation of five forest stands varying in soil moisture and nitrogen in Central Himalaya, India. *Eurasian Journal of Forest Science* 9(1):29-42 <https://doi.org/10.3195/ejefjs.841095>
26. Karki H, K Bargali, **SS Bargali** 2021. Nitrogen mineralization patterns in *Populus deltoides* and *Tectona grandis* based agrisilvicultural practices in Central Himalaya, India. *Vegetos* 34(1):86-93. <https://doi.org/10.1007/s42535-021-00195-0>
27. Maletha A, RK Maikhuri and **SS Bargali** 2021. Population structure and regeneration pattern of Himalayan birch (*Betula utilis* D.Don) in the timberline zone of Nanda Devi Biosphere Reserve, Western Himalaya, India. *Geology, Ecology, and Landscapes* <https://doi.org/10.1080/24749508.2021.1952767>
28. Bisht V, K Padalia, **SS Bargali** and K Bargali 2021. Structure and energy efficiency of Agroforestry systems practiced by tribal community in Central Himalayas. *Vegetos* 34:368-383. <https://doi.org/10.1007/s42535-021-00210-4>
29. Karki H, Kiran Bargali and **SS Bargali** 2021. Spatial and Temporal Trends in Soil N-Mineralization Rates under the Agroforestry Systems in Bhabhar belt of Kumaun Himalaya, India. *Agroforestry Systems* 95:1603-1617. <https://doi.org/10.1007/s10457-021-00669-9> **IF: 2.2**
30. Shahi C, **SS Bargali** and Kiran Bargali 2021. Soil properties among Indian Central Himalayan agroecosystems as affected by altitude and size variations. *International Journal of Agricultural and Applied Sciences* 2(1):68-79. <https://doi.org/10.52804/ijaas2021.218>.
31. Bisht S, K Bargali, **SS Bargali** and YS Rawat 2021. How resilient are the oak forests of Askot wildlife sanctuary, western Himalaya? *Indian Journal of Forestry* 44(2):87-97.
32. Manral V, K Bargali, **SS Bargali** MK Jhariya and K Padalia 2022. Relationships between soil and microbial biomass properties and annual flux of nutrients in Central Himalayan forests, India. *Land Degradation & Development* 33(12):2014-2025. <https://doi.org/10.1002/ldr.4283> **IF: 4.7**
33. Awasthi P, K Bargali, **SS Bargali** and MK Jhariya 2022. Structure and Functioning of *Coriaria nepalensis* Wall dominated Shrublands in degraded hills of Kumaun Himalaya. I. Dry Matter Dynamics. *Land Degradation & Development* 33(9):1474-1494. <https://doi.org/10.1002/ldr.4235> **IF: 4.7**
34. Karki H, K Bargali and **SS Bargali** 2022. Dynamics of fine root and soil nitrogen in *Mangifera indica* based agroforestry systems in Central Himalaya, India. *Land Degradation & Development* 33(17):3523-3538. <https://doi.org/10.1002/ldr.4406> **IF: 4.7**
35. **Bargali SS**, C Shahi, K Bargali, B Negi and K Khatri 2022. Energy and monetary efficiencies at the different altitudinal agroecosystems in central Himalaya, India. *Heliyon* 8(11):e11500. <https://doi.org/10.1016/j.heliyon.2022.e11500> **IF: 4.0**
36. Bisht S, **SS Bargali**, Kiran Bargali, GS Rawat, YS Rawat and A Fartyal 2022. Influence of Anthropogenic Activities on Forest Carbon Stocks-A Case Study from Gori Valley, Western Himalaya. *Sustainability* 14:16918 DOI: [10.3390/su142416918](https://doi.org/10.3390/su142416918) **IF: 3.9**
37. Maletha A, RK Maikhuri, **SS Bargali**, A Sharma, VS Negi and LS Rawat 2022. Vegetation dynamics and soil nutrient availability in a temperate forest along altitudinal gradient of Nanda Devi Biosphere Reserve, Western Himalaya, India. *PloS One* 17(10):e0275051. <https://doi.org/10.1371/journal.pone.0275051> **IF: 3.7**
38. Awasthi P, K Bargali, **SS Bargali**, K Khatri and MK Jhariya 2022. Nutrient Partitioning and Dynamics in *Coriaria nepalensis* Wall Dominated Shrublands of Degraded Hills of Kumaun Himalaya. *Frontiers in Forests and Global Change* 5:913127. <https://doi.org/10.3389/ffgc.2022.913127> **IF: 3.2**
39. Khatri K, B. Negi, K Bargali and **SS Bargali**, 2022. Effects of elevation and habitat on leaf and reproductive traits of *Ageratina adenophora* (Sprengel) King & Robinson. *South African Journal of Botany* 147:859-870 <https://doi.org/10.1016/j.sajb.2022.03.033> **IF: 3.1**

40. Awasthi P, K Bargali, SS Bargali and K Khatri 2022. Nutrient return through decomposing *Coriaria nepalensis* litter in degraded hills of Kumaun Himalaya, India. *Frontiers in Forests and Global Change* 5:1008939. <https://doi.org/10.3389/ffgc.2022.1008939> **IF: 3.2**
41. Padalia K, **SS Bargali**, K Bargali and V Manral 2022. Soil microbial biomass phosphorus under different land use systems. *Tropical Ecology* 63:30-48 <https://doi.org/10.1007/s42965-021-00184-z> **IF: 1.6**
42. Khatri K, B Negi, K Bargali and **SS Bargali** 2022. Trait variability in co-occurring invasive and native plant species in road side population of Kumaun Himalaya. *Brazilian Journal of Botany* 45:1099–1110. <https://doi.org/10.1007/s40415-022-00827-y> **IF: 1.6**
43. Awasthi P, K Bargali and **SS Bargali** 2022. Relative performance of woody vegetation in response to facilitation by *Coriaria nepalensis* in Central Himalaya, India. *Russian Journal of Ecology* 53(3):191-203. **IF: 1.1**
44. Vibhuti, K Bargali and **SS Bargali** 2022. Changing pattern of plant species utilization in relation to altitude and their relative prevalence in homegardens of Kumaun Himalaya, India. *Natural Resources for Human Health* <https://doi.org/10.53365/nrfhh/144792>
45. Bisht S, K Bargali, **SS Bargali**, PS Rawat and YS Rawat 2022. Carbon pool in *Quercus lanuginosa* (D. Don) forest of Askot wildlife sanctuary, Western Himalaya in relation to stand attributes. *Indian Forester* 148(7):709-717.
46. Khatri K, B Negi K Bargali and **SS Bargali** 2022. Spatial variation in allelopathic inhibition by *Ageratina adenophora* on growth and yield of two traditional millet crops. *Vegetos* 35:663–673. <https://doi.org/10.1007/s42535-022-00353-y>.
47. Pandey R, **SS Bargali** and K Bargali 2022. Seasonal dynamics of soil Inorganic N and N-mineralization in sub-tropical Sal forest in Central Himalaya, India. *Journal of Scientific Research* 66(3):161-175 <https://doi.org/10.37398/JSR.2022.660320>
48. Pandey R, **SS Bargali** and Kiran Bargali 2022. Tree biomass and carbon stock in subtropical Sal forest of Central Himalaya, India. *Vegetos*. <https://doi.org/10.1007/s42535-022-00503-2>
49. Fartyal A, K Khatri, K Bargali and **SS Bargali** 2022. Altitudinal variation in plant community, population structure and carbon stock of *Quercus semecarpifolia* Sm. forest in Kumaun Himalaya. *Journal of Environmental Biology* 43(1):133-146.
50. Bisht S, GS Rawat, **SS Bargali**, YS Rawat and A Mehta 2023. Forest vegetation response to anthropogenic pressures: a case study from Askot Wildlife Sanctuary, Western Himalaya. *Environment, Development and Sustainability*. <https://doi.org/10.1007/s10668-023-03130-2> **IF: 4.9**
51. Khatri K, B Negi, K Bargali and **SS Bargali** 2023. Trait plasticity: a key attribute in the invasion success of *Ageratina adenophora* in different forest types of Kumaun Himalaya, India. *Environment, Development and Sustainability*. <https://doi.org/10.1007/s10668-023-03529-x> **IF: 4.9**
52. Pandey R, **SS Bargali**, K Bargali and VC Pandey 2023. Temporal variability in fine root dynamics in relation to tree girth size in sub-tropical *Shorea robusta* forests. *Land Degradation & Development* 34(5):1522-1537. <https://doi.org/10.1002/ldr.4550> **IF: 4.7**
53. Manral V, Kiran Bargali, **SS Bargali**, Himani Karki and RK Chaturvedi 2023. Seasonal Dynamics of Soil Microbial Biomass C, N and P along an Altitudinal Gradient in Central Himalaya, India. *Sustainability* 15:1651. <https://doi.org/10.3390/su15021651> **IF: 3.9**
54. Negi B, K. Khatri, **S.S. Bargali** and K Bargali (2023) Invasive *Ageratina adenophora* (Asteraceae) in agroecosystems of Kumaun Himalaya, India: A threat to plant diversity and sustainable crop yield. *Sustainability* 15:10748. <https://doi.org/10.3390/su151410748> **IF: 3.9**
55. Pandey R, **SS Bargali**, K Bargali, H Karki, M Kumar and UK Sahoo 2023. Fine root dynamics and associated nutrient flux in Sal dominated forest ecosystems of Central Himalaya, India *Frontiers in Forests and Global Change* 5:1064502. <https://doi.org/10.3389/ffgc.2022.1064502> **IF: 3.2**

56. Khatri K, B. Negi, K Bargali and **SS Bargali** (2023) Effects of different concentrations of leaf residues of *Ageratina adenophora* on seed germination and growth behavior of two native tree species of Kumaun Himalaya, India. *Waste and Biomass Valorization*. <https://doi.org/10.1007/s12649-023-02213-5> **IF: 3.2**
57. Khatri K, K Bargali, **SS Bargali** and B. Negi 2023. Effects of leaf residues from *Ageratina adenophora* on germination, growth and productivity of two rabi crops. *Acta Ecologica Sinica* 43(02):363–374. <https://doi.org/10.1016/j.chnaes.2022.05.001> **IF: 0.252**
58. Shahi C, **SS Bargali**, K Bargali and Vibhuti 2023. Dry matter dynamics and CO₂ mitigation in the herb layer of Central Himalayan agroecosystems along an altitudinal gradient, India. *Tropical Ecology* 64:180–192. <https://doi.org/10.1007/s42965-022-00258-6> **IF: 1.6**
59. Fartyal A, K Bargali and **SS Bargali** 2023. The effect of different slope aspects on plant diversity and soil characteristics in a temperate grassland of Kumaun Himalaya. *Vegetos*. <https://doi.org/10.1007/s42535-023-00609-1>

RESEARCH PROJECTS

S.N.	Title of Project	Funding Agency	Duration From - To	No. of Scientists/ Associates working under the projects
1.	Contribution of homegarden agroforestry in rural livelihood in Nainital, Uttarakhand	UGC, New Delhi	July 2015- June 2018	01 (JPF)
2.	Invasion biology of <i>Ageratina adenophora</i> and solutions for restoring ecosystem processes	DST, New Delhi	June 2020- May 2023	01 (JRF)

BOOKS

1. Kumar A, O Bajpai, A K Mishra, N Sahu, S K Behera , **SS Bargali** and L B Chaudhary 2015. A checklist of the flowering plants of Katerniaghat Wildlife Sanctuary, Uttar Pradesh, India. *Journal of Threatened Taxa, Wildlife Information & Liaison Development Society*. (ISSN: 7309–7408).
2. Banerjee A, MK Jhariya, **SS Bargali** and D Palit 2023. Ecorestoration for sustainability. Scivener Publishing, USA, Wiley. pp 1–469. (ISSN: 9781119879718).

BOOK CHAPTERS

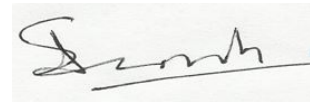
1. Raj A, MK Jhariya and **SS Bargali** 2018. Climate Smart Agriculture and Carbon Sequestration In: Climate Change and Agroforestry: Adaptation Mitigation and Livelihood Security (Eds. CB Pandey, MK Gaur and RK Goyal) New India Publishing Agency, New Delhi, India. pp. 1-19.
2. Shahi C, **SS Bargali** and K Bargali 2019. Effects of size and altitude on plant diversity in agroecosystems of Kumaun Himalaya, India. In: Sustainable Agriculture, Publisher: Shrinkhala Publishing House, Ayodhya, U.P. pp. 38-51.
3. Jhariya M, A Raj, A Banerjee, RS Meena, **SS Bargali**, S Sihag, S Nema, Poonam and P Oraon 2022. Plan and Policies for Soil Organic Carbon Management Under Agroforestry System. In: Plants and Policies for Soil Organic Carbon Management in Agriculture (Eds. RS

Meena, CS Rao and A Kumar) Springer, Singapore. pp. 191-219.
<https://doi.org/10.1007/978-981-19-6179-3-8>

4. Raj A, M Jhariya, N Khan, **SS Bargali**, Ghanshyam and A Devi 2022. Impact of Deforestation on Faunal Diversity and Its Management Strategies: In Land Degradation Neutrality: Achieving SDG 15 by Forest Management. (Eds. RS Meena, CS Rao and A Kumar) Springer, Singapore. pp. 43-60. <https://doi.org/10.1007/978-981-19-5478-8-3>

- **Patents:** NA
- **Award received during last five years:** NA

Place: Nainital
Date: 03.07.2023



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