

Curriculum Vitae

Name: Anzar Ahmad Khuroo

Parentage: Gh. Nabi Khuroo

Institutional affiliation: Centre for Biodiversity & Taxonomy
Department of Botany, University of Kashmir,
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Designation: Professor

Weblink: <http://botany.uok.edu.in/Main/ProfilePage.aspx?Profile=1799&From=DWS>

ORCID <https://orcid.org/0000-0002-0251-2793>

Academic qualification: M.Sc. Botany, M. Phil., Ph. D.
NET (CSIR-UGC), SLET (Jammu University)

Awards:

- i) Associate Fellow, Indian National Science Academy, New Delhi 2024**
- (ii) Young Scientist Award (Biological Sciences)** for 2009-10 by Department of Science and Technology, Govt. of Jammu and Kashmir, India.
- iii) Dr A P Das Biodiversity Medal-2013** by East Himalayan Society for Spermatophyte Taxonomy, India
- (iv) Visiting Scientist** to Institute of Botany, Chinese Academy of Sciences, Beijing under Indian National Science Academy's International Exchange Program, 2018

Areas of Research Interest: Plant Taxonomy, Ecology, Biodiversity, Data Synthesis

Courses teaching: **(a) M. Sc. Botany**

- Bot-Core 15101 (Plant Taxonomy)
- Bot-Discipline Centric Elective 005 (Biodiversity & Conservation Biology)
- Bot- Discipline Centric Elective (Plant Systematics & Phylogenetics)
- Bot-Generic Elective 02 (Biological Systematics & Biodiversity)
- Bot-Open Elective 03 (Basics of Biodiversity)

➤ Ph. D., M. Phil & M Sc. Dissertation students

| Degree | Ongoing | Awarded |
|---------------------|---------|---------|
| Ph. D. | 6 | 16 |
| M. Phil. | - | 5 |
| M. Sc. Dissertation | 4 | 45 |

- Member, National Expert Committee on Invasive Alien Species constituted by National Biodiversity Authority, Chennai
- Country Editor (India), Global Register of Introduced and Invasive Species (GRIIS) by IUCN-SSC-ISSD (<http://www.griis.org/editors.php>)
- Member, Jammu and Kashmir Biodiversity Council (2019-2022, 2024-2026)
- Member, Expert Committees on development of J&K Biodiversity Strategy and Action Plan; and City Biodiversity Index for Srinagar & Jammu.
- Member, Standing Committee on Approval of Management Plans of Wildlife Protected Areas by Govt of Jammu and Kashmir
- Member, Eco-sensitive Zones declaration around Wildlife Protected Areas by Govt of Jammu and Kashmir
- New species discovered: 11
- New distribution records: 05 (Indian subcontinent); 10 (India); 20 (Kashmir Himalaya)

➤ Editorial Assignments

- Associate Editor, *Biological Invasions* (<https://www.springer.com/journal/10530/editors>)
- Associate Editor *Rheedeia*, Journal published by the Indian Association for Angiosperm Taxonomy (<https://rheedeia.in/editorial-board>)
- Section Editor (Botany) *Checklist: Journal of Biodiversity Data*, published by PenSoft. (https://checklist.pensoft.net/browse_journal_groups.php?role_id=3&journal_name=checklist&journal_id=67&grp_id=0&p=6)
- Associate Editor of “**Botany Bulletin-2010, 2017, 2021, 2023**”

➤ Publications

- Books= 03
- Research papers = 210
- Book chapters = 26
- ❖ Google Scholar: Citations= 4832; h-index=39; i10-index=99
<https://scholar.google.co.in/citations?user=zpMP4mkAAAAJ&hl=en>
- ❖ SCOPUS: Citations= 2920; h-index= 29
<https://www.scopus.com/authid/detail.uri?authorId=15829758300>
- ❖ Research Gate: Citations= 4793; h-index= 39
https://www.researchgate.net/profile/Anzar_Khuroo

(Updated till 30-04-2025)

(I) *Extra-Mural Research Projects*

➤ **Completed (10):**

1. *Alpine ecosystem dynamics and impact of climate change in Indian Himalaya (PRACRITI-II)*, sponsored by Space Applications Centre (ISRO), Govt. of India, Ahmadabad, (2013-2016) – **Principal Investigator**
2. *Characterization and Conservation of Apricot (*Prunus armeniaca* L.) Germplasm in Jammu and Kashmir State* sponsored by Department of Biotechnology, Govt. of India (2015-2018) – **Co-Principal Investigator**
3. *Measurement of Vegetation and Biomass parameters under Vegetation Carbon Pool Assessment (VCP) Sub-Project of the ISRO Geosphere Biosphere Program (IGBP) National Carbon Project (NCP)*” sponsored by National Remote Sensing Centre (ISRO), Govt. of India, Hyderabad (2015-19) – **Principal Investigator**
4. *Taxonomic Characterization and Conservation Assessment of Ephedra in India* sponsored by Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Govt. of India (2016-19) – **Principal Investigator**
5. *Convergence of Traditional Knowledge Systems for Integration to Sustainable Development in the Indian Himalayan Region* sponsored by Department Science & Technology, Govt. of India under National Mission on Sustaining Himalayan Ecosystem (NMSHE) Scheme (2015-2020) - **Co-Principal Investigator**
6. *Advanced Taxonomic Research Centre for Alpine Flora and Training Centre in Kashmir Himalaya* sponsored by Ministry of Environment, Forests & Climate Change (MoEFCC), Govt. of India under the All India Coordinated Project on Capacity Building in Taxonomy (AICOPTAX) Scheme, (2016-19) – **Principal Investigator**
7. *Conservation Genetics and Species Recovery of Threatened Himalayan Trillium in Hirpora Wildlife Sanctuary, Kashmir Himalaya* sponsored by Department of Biotechnology, Govt. of India, New Delhi (2019-2021) **Co-Principal Investigator**
8. *Management of Ox-Eye Daisy (*Leucanthemum vulgare*) in Protected Areas of Kashmir Himalaya* sponsored by Department of Biotechnology, Govt. of India, New Delhi (2019-2021) - **Principal Investigator**
9. *Himalayan Alpine Biodiversity Characterization and Information Network* sponsored by Ministry of Environment, Forests & Climate Change (MoEFCC), Govt. of India under the National Mission on Himalayan Studies (NMHS) (2020-2023) – **Principal Investigator**
10. *Characterizing Patterns and Processes of Alpine Ecosystem in Indian Himalaya with Special Emphasis to Jammu and Kashmir* sponsored by Space Applications Centre (SAC-ISRO), Ahmedabad under SHRESTI Program (2019-2024) – **Principal Investigator**

➤ **Ongoing (03):**

1. *Systematics and Conservation of Genus *Artemisia* L. (Asteraceae) in India* sponsored by Science and Engineering Research Board, Department of Science & Technology, Govt of India, New Delhi (2023-2025) – **Principal Investigator**
2. *Functional diversity, phenology and frost resistance in plants under extreme Himalayan Environment* sponsored by Science and Engineering Research Board, Department of Science & Technology, Govt of India, New Delhi (2023-2025) – **Co-Principal Investigator**
3. *An integrative approach to study the taxonomy and distribution of Weevils (Coleoptera: Curculionidae) in the North-western Himalaya* sponsored by Science and Engineering Research Board, Department of Science & Technology, Govt of India, New Delhi (2024-2026) – **Co-Principal Investigator**

II) RESEARCH PUBLICATIONS

A. Books

1. Hassan, T., **Khuroo, A. A.**, Waza, S. A. (2025) *Trees and Shrubs of Kashmir: A Phenology Field Guide*. Bishen Singh Mahendra Pal Singh, Dehradun, India. ISBN-13:9789360285876
2. Gulzar, R., **Khuroo, A. A.**, Rashid, I. (2023) *Field Manual on Alien Flora of Kashmir Himalaya*. Springer Cham. Switzerland. <https://link.springer.com/book/10.1007/978-3-031-33847-2>
3. Dar, G.H. & **Khuroo, A. A.** (2020) *Biodiversity of the Himalaya: Jammu and Kashmir State*. Springer Nature, Singapore. <https://link.springer.com/book/10.1007/978-981-32-9174-4>

B. Research papers

2025

1. Pärtel, M., **Khuroo, A.A.**,.....Wani, S.A., et al. (2025). Global impoverishment of natural vegetation revealed by dark diversity. *Nature*. <https://doi.org/10.1038/s41586-025-08814-5>
2. Paul, R. R., Behera, S. K., Rawat, K. K., Anto, S., Sahu, V., Singh, C. P., **Khuroo, A. A.** (2025). Microclimate determines the diversity patterns, biomass, and water storage capacity of bryophytes in the alpine ecosystem: a case study in Kashmir Himalaya. *Environmental Monitoring and Assessment*, 197(4): 433. <https://doi.org/10.1007/s10661-025-13844-7>
3. Li, D., Potgieter, L.J.,...**Khuroo, A.A.**,.....Cadotte, M.W. (2025). GUBIC: The global urban biological invasions compendium for plants. *Ecological Solutions and Evidence*. 6(1): e70020. <https://doi.org/10.1002/2688-8319.70020>
4. Zargar, S. A., Gulzar, R., **Khuroo, A. A.**, Reshi, Z. A., Ganie, A. H. (2025). Naturalization of three alien plant species in Kashmir Himalaya: taxonomic and ecological aspects. *Plant Biosystems*. 159(2):347-355. <https://doi.org/10.1080/11263504.2025.2468717>
5. Zargar, S. A., Malik, R. A., **Khuroo, A.A.**, Ganie, A. H., & Reshi, Z. A. (2025). Alien flora of the Himalayan highlands: naturalised and invasive plants in the Trans-Himalayan region of Ladakh, India. *Biological Invasions*. 27: 113. <https://doi.org/10.1007/s10530-025-03562-z>
6. Ahmad, R., Lone, S.A., Rashid, I., **Khuroo, A.A.** (2025) A global synthesis of the ecological effects of co-invasions. *Journal of Ecology*. 113(3):570-581. <https://doi.org/10.1111/1365-2745.14475>
7. Wani, S.A., Zargar, S.A., Dar, F.A., Khoja, A.A., Malik, A.H., Rashid, I., **Khuroo, A. A.** (2025). Elevational patterns and drivers of taxonomic and phylogenetic diversity of pteridophytes: A case study from the Himalaya. *Flora*. 323: 152654. <https://doi.org/10.1016/j.flora.2024.152654>
8. Banoo, S., Ganie, A.H., **Khuroo, A.A.** (2025). An annotated checklist of flora of Drass valley (Ladakh), India. 681 (2): 109-145. *Phytotaxa*. <https://doi.org/10.11646/PHYTOTAXA.681.2.1>

2024

9. Trevathan-Tackett, S. M., **Khuroo, A. A.**,Hamid, M..... (2024). Climate effects on belowground tea litter decomposition depend on ecosystem and organic matter types in global wetlands. *Environmental Science & Technology*. 58(49): 21589–21603. <https://doi.org/10.1021/acs.est.4c02116>
10. Reddy, C.S., Ramshida, K., Kumari, J., Shijila, P.S., Gulzar, R., **Khuroo, A. A.** (2024). Modelling the global and regional niches of major invasive alien plant species of India. *Proceedings Asian Conference on Remote Sensing (ACRS 2024)*. <https://www.survey.gov.lk/acrs2024/userdashbord/paid/AB0222.pdf>
11. Ahmad, R., Islam, T., **Khuroo, A.A.**, Bhatnagar, Y. V., Rawat, G.S. (2024) A floristic checklist of Kazinag National Park, Kashmir Himalaya. *Discover Plants*. 1: 64. <https://doi.org/10.1007/s44372-024-00062-7>

12. Behera, M. D., **Khuroo, A. A.**, Palita, S. K., Barik, S. K. (2024) Biodiversity responses to climate change - a sustainable development perspective from India. *Biodiversity and Conservation*. 33:3347–3353. <https://doi.org/10.1007/s10531-024-02951-5>
13. Haq, S. M., Calixto, E. S., Song, L., Rashid, I., **Khuroo, A. A.** (2024) Pervasive impacts of railway edge effects on edaphic parameters and vegetation distribution patterns. *Environmental Development*. 52: 101064. <https://doi.org/10.1016/j.envdev.2024.101064>
14. Haq, S. M., Rashid, I., Malik, A.H., Waheed, M., **Khuroo, A. A.** (2024) Floristic composition, natural history traits and habitat affiliation in vegetation of major forest types in Jammu and Kashmir, western Himalaya. *Nordic Journal of Botany*. 2024(11): e04129. <https://doi.org/10.1111/njb.04129>
15. Ganie, A.H., Islam, T., **Khuroo, A. A.**, Rasool, N., Banoo, S., Ali, L., Reshi, Z.A. (2024) *Mentha choujunensis*, a new species from Indian Trans-Himalayan region of Ladakh. *Phytotaxa*. 666(2):155-162. <https://doi.org/10.11646/phytotaxa.666.2.6>
16. Islam, T., **Khuroo, A. A.**, Maity, D., Nawchoo, I.A. (2024) *Swertia patnitopiansis*, a new synonym of *S. cordata* (Gentianaceae). *Phytotaxa*. 664(2):132-138. <https://doi.org/10.11646/PHYTOTAXA.664.2.5>
17. Ali, L., **Khuroo, A. A.**, Ganie, A. H., Maity, D. (2024) Lectotypification of *Artemisia nilagirica* (Anthemideae, Asteraceae) from India. *Korean Journal of Plant Taxonomy*. 54(2):144-146. <https://doi.org/10.11110/kjpt.2024.54.2.144>
18. Ali, L., **Khuroo, A.A.**, Ganie, A.H., Maity, D. (2024). *Artemisia neosinensis* B.H. Jiao and T.G. Gao (Asteraceae), a new addition to flora of India from Jammu and Kashmir. *Biology Bulletin*, 51, 813–816. <https://doi.org/10.1134/S1062359023605566>
19. Islam, T., Rasray, B. A., **Khuroo, A. A.**, Ganie, A. H., Mugal, M. A., Nawchoo, I. A. (2024). *Swertia kashmirensis* subsp. *darii* (Gentianaceae), a new taxon from Kashmir Himalaya, India. *Phytotaxa*, 638(1): 79-86. <https://doi.org/10.11646/phytotaxa.638.1.7>
20. Wani, S. A., Mugal, M.A., Dar, F.A., Reddy, C.S., Rashid, I., **Khuroo, A. A.** (2024) Meeting Linnean, Wallacean, and Darwinian shortfalls in global biodiversity hotspots: A model study from the Indian Himalayan Region. *Ecological Research*. 40(1):20-36. <https://doi.org/10.1111/1440-1703.12518>
21. Dar, F. A., Hamid, M., Malik, R. A., Wani, S. A., Singh, C. P., Shah, M. A., **Khuroo, A. A.** (2024). ToTE: A global database on trees of the treeline ecotone. *Ecology*, 105(6): e4309. <https://doi.org/10.1002/ecy.4309>
22. Wani, S. A., **Khuroo, A. A.**, Zaffer, N., Rafiqi, S., Farooq, I., Afzal, S., Rashid, I. (2024) Data synthesis for biodiversity science: a database on plant diversity of the Indian Himalayan Region. *Biodiversity and Conservation*. <https://doi.org/10.1007/s10531-024-02784-2>
23. Dar, M.S., Islam, T., **Khuroo, A. A.**, Rasheed, S., Dar, G. H., Malik, A.H. (2024). Ethnomedicinal survey of plants in protected areas of Kashmir Himalaya: A case study of the Hirpora wildlife sanctuary. 14(1): 97-106. <https://doi.org/10.52635/eamr/14.1.97-106>
24. Nabi, G., Wani, A.A., Gani, A., Javid, W., Malik, A. H., **Khuroo, A. A.** (2024). From tropical to temperate: First distribution record of *Amaranthus deflexus* L. (Amaranthaceae) as an alien species to Kashmir Himalaya. *Russian Journal of Biological Invasions* 17(2): 195-198. <https://doi.org/10.35885/1996-1499-17-2-195-198>
25. Rasray, B.A., Ahmad, R., Lone, S.A., Islam, T., Wani, S.A., Hussain, K., Dar, F.A., Rai, I.D., Padalia, H., **Khuroo, A.A.**, (2024). Cushions serve as conservation refuges for the Himalayan alpine plant diversity: Implications for nature-based environmental management. *Journal of Environmental Management*, 359, 120995. <https://doi.org/10.1016/j.jenvman.2024.120995>
26. Lone, S.A., Ahmad, R., Rasray, B.A., Rashid, I., Nunez, M., **Khuroo, A.A.**, (2024). Disentangling the impacts of plant co-invasions: additive, antagonistic and synergistic. *Biological Invasions*. <https://doi.org/10.1007/s10530-024-03411-5>
27. Gulzar, R., Ahmad, R., Hassan, T., Rashid, I., **Khuroo, A. A.** (2024). Environmental and anthropogenic drivers of invasive plant diversity and distribution in the Himalaya. *Ecological Informatics*, 81, 102586. <https://doi.org/10.1016/j.ecoinf.2024.102586>

28. Ahmad, R., Lone, S. A., Rashid, I., **Khuroo, A. A.** (2024). Ecological impacts of a global plant invader: synthesizing mean and variance effects using meta-analysis. *Oikos*, 9: e10102. <https://doi.org/10.1111/oik.10102>
29. Rauschkolb, R.,, **Khuroo, A.A.**,... Shafee, F., ... Primack, R., Rosche, C., Shah, M. A., ...R. Christine (2024) Spatial variability in herbaceous plant phenology is mostly explained by variability in temperature but also by photoperiod and functional traits. *International Journal of Biometeorology* 68:761–775. <https://doi.org/10.1007/s00484-024-02621-9>
30. Zargar, S.A., Ganie, A.H., Reshi, Z.A., Shah, M.A., Sharma, N., **Khuroo, A.A.**, (2024). *Oxalis corniculata* L. (Oxalidaceae), an addition of an alien plant species to the flora of Ladakh, India. *Vegetos*, 37(1):373-378. <https://doi.org/10.1007/s42535-023-00612-6>
31. Rather, Z. A., Buhroo, A. A., Parey, S. H., **Khuroo, A. A.** (2024). First Record of Genus *Blascoa* (Pteromalidae) from Asia and Discovery of Its Novel Phytophagous Interaction with *Ephedra*. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, <https://doi.org/10.1007/s40011-024-01553-z>
32. Tariq, L., Mangral, Z.A., Islam, S.U., Agrawal, R., **Khuroo, A.A.**, Majeed, A., Thakur, J.K., Dar, T.U.H., (2024). Searching for nature-based solutions: Molecular ecology of an endangered Himalayan medicinal herb shows roadmap for conservation and sustainable utilization. *Journal for Nature Conservation*, 79, 126624. <https://doi.org/10.1016/j.jnc.2024.126624>
33. Zargar, S. A., **Khuroo, A. A.**, Reshi, Z. A., Ganie, A. H. (2024). Recent species' range expansion in the Himalayan Highlands: New distribution records of naturalized alien plants from Ladakh, India. *Biology Bulletin*, 51:576-585. <https://doi.org/10.1134/S1062359023606079>
34. Gulzar, R., Hassan, T., Hamid, M., Rashid, I., **Khuroo, A. A.** (2024). Different sets of traits determine transition of alien species along the invasion continuum. *Science of the Total Environment*. 912: 169137 <https://doi.org/10.1016/j.scitotenv.2023.169137>
35. Hassan, T., Gulzar, R., Hamid, M., Rameez, A., Waza, S. A., **Khuroo, A. A.** (2024). Plant phenology shifts under climate warming: A systematic review of recent scientific literature. *Environmental Monitoring and Assessment*. 196: 36. <https://doi.org/10.1007/s10661-023-12190-w>
36. Islam, T., Hamid, M., **Khuroo, A. A.**, Nawchoo, I.A. (2024) Functional trait diversity and aboveground biomass of herbaceous vegetation in temperate forests of Kashmir Himalaya. *Environmental Monitoring and Assessment*. 196: 60. <https://doi.org/10.1007/s10661-023-12215-4>
37. Gulzar, R., Wani, S. A., Hassan, T., Reddy, C.S., Shrestha, B. B., Mukul, S.A., Shabbir, A., Iqbal, I.M., Ranwala, S. M., Dorjee, Sujanalpal, P., Rashid, I., **Khuroo, A. A.** (2024). Looking beyond the political boundaries: An integrated inventory of invasive alien flora of South Asia. *Biological Invasions*. 26(1), 57-78. <https://doi.org/10.1007/s10530-023-03165-6>
38. Islam, T., Hamid, M., Nawchoo, I.A., **Khuroo, A. A.** (2024) Leaf functional traits vary among growth forms and vegetation zones in the Himalaya. *Science of the Total Environment*. 906: 167274. <https://doi.org/10.1016/j.scitotenv.2023.167274>

2023

39. Ali, L., Khuroo, A. A., Ganie, A. H., Islam, T. (2023) *Artemisia kargilensis*, a new species from Ladakh (Trans-Himalaya), India. 53(4): 294-300. *Korean Journal of Plant Taxonomy*. <https://doi.org/10.11110/kjpt.2023.53.4.294>
40. Islam, T., Nawchoo, I.A., **Khuroo, A. A.** (2023). Community Perception and Management of Ecosystem Services in a Protected Area in Kashmir Himalaya. *Human Ecology*. 51:769-779. <https://doi.org/10.1007/s10745-023-00439-4>
41. Islam, S. U., Mangral, Z. A., Tariq, L., Bhat, B. A., Tantray, W. W., Ahmad, R., **Khuroo, A. A.**, Dar, T. U. H. (2023). Conservation genetics of endangered *Trillium govianum* Wall. ex D. Don – A pharmaceutically prized medicinal plant from the Himalaya and implications for species recovery. *Gene*. 888: 147748. <https://doi.org/10.1016/j.gene.2023.147748>
42. Hamid, M., Gulzar, A., Dar, F. A., Singh, C. P., Malik, A.H., Kamili, A. N., **Khuroo, A. A.** (2023). Microclimate heterogeneity modulates fine-scale edaphic and vegetation patterns on the Himalayan

- treelines: Implications under climate change. *Agricultural and Forest Meteorology*. 341: 109688. <https://doi.org/10.1016/j.agrformet.2023.109688>
43. Zargar, S.A., Ganie, A.H., **Khuroo, A. A.**, Reshi, Z. A., Banoo, S., Malik, A.H. (2023) An updated checklist of the vascular flora of the Trans-Himalayan region of Ladakh. *Phytotaxa*. 623(1):1-136. <https://doi.org/10.11646/phytotaxa.623.1.1>
 44. Padalia, H., Rai, I.D., Pangtey, D, Rana, K., **Khuroo, A. A.**,...Rawat, G. S. (2023) Fine-scale classification and mapping of subalpine-alpine vegetation and their environmental correlates in the Himalayan global biodiversity hotspot. *Biodiversity and Conservation*. 32: 4387–4423. <https://doi.org/10.1007/s10531-023-02702-y>
 45. Rashid, K., Rashid, S., Ganie, A. H., Nawchoo, I.A., Tantry, M. A., **Khuroo, A. A.** (2023) *Trillium gowanianum* – A Promising Endemic Medicinal Herb of the Himalaya. In: Arunachalam, K., et al. (eds.) *Bioprospecting of Tropical Medicinal Plants*. SpringerNature. Pp. 388-408. https://doi.org/10.1007/978-3-031-28780-0_14 (Book Chapter)
 46. Islam, T., Ali, L., Nawchoo, I.A., **Khuroo, A. A.** (2023) Diversity and utilization patterns of fodder resources in a Himalayan protected area. (2023) *Environmental Monitoring and Assessment*. 195: 1117. <https://doi.org/10.1007/s10661-023-11739-z>
 47. Wani, S. A., Mugal, M.A., Dar, F.A., Reddy, C.S., Rashid, I., **Khuroo, A. A.** (2023) Biodiversity data synthesis on trees of Indian Himalayan Region: Policy and management implications. *Global Ecology and Conservation*. 48: e02698. <https://doi.org/10.1016/j.gecco.2023.e02698>
 48. Rashid, K., Rashid, S., Islam, T., Ganie, A. H., Nawchoo, I.A., **Khuroo, A. A.** (2023) Hidden from the harsh: Belowground preformation prior to winter determines life history strategy of a temperate perennial herb. *Flora*. 308: 152387. <https://doi.org/10.1016/j.flora.2023.152387>
 49. Rashid, S., Rashid, K., Ganie, A. H., Nawchoo, I.A., Tantry, M.A., **Khuroo, A. A.** (2023) A review of the genus *Actaea* L.: ethnomedical uses, phytochemical and pharmacological properties. *Journal of Herbal Medicine*. 41: 100690. <https://doi.org/10.1016/j.hermed.2023.100690>
 50. Mugal, M.A., Wani, S. A., Dar, F.A., Islam, T., Gulzar, R., Malik, A.H., Reddy, C.S., **Khuroo, A. A.** (2023) Bridging global knowledge gaps in biodiversity databases: a comprehensive data synthesis on tree diversity of India. *Biodiversity and Conservation*. 32: 3089–3107. <https://doi.org/10.1007/s10531-023-02659-y>
 51. Haq, S. M., Rashid, I., Waheed, M., **Khuroo, A. A.** (2023) From forest floor to tree top: Partitioning of biomass and carbon stock in multiple strata of forest vegetation in Western Himalaya. *Environmental Monitoring and Assessment*. 195:812. <https://doi.org/10.1007/s10661-023-11376-6>
 52. Hussain, K., Ahmad, R., Nunez, M., Rashid, I., **Khuroo, A. A.** (2023) Plant invasion shifts soil microbiome and physico-chemical attributes along an elevational gradient in Kashmir Himalaya. *Environmental Science and Pollution Research*. 30, 84283–84299. <https://doi.org/10.1007/s11356-023-28197-2>
 53. Wani, S.A., Ahmad, R., Dar, F.A., Rasray, B. A., Lone, S. A., Shafee, F. Rashid, I., **Khuroo, A. A.** (2023) Estimating dark diversity and regional species pool in the high-altitude Himalayan habitats. *Biodiversity and Conservation*. 32: 2981-2999. <https://doi.org/10.1007/s10531-023-02639-2>
 54. Islam, T., Nawchoo, I.A., **Khuroo, A. A.** (2023) An annotated checklist of flora of Overa-Aru wildlife sanctuary, Kashmir Himalaya. *Phytotaxa*. 599(1):020-050. <https://doi.org/10.11646/phytotaxa.599.1.2>
 55. Ganie, A. H., Islam, T., **Khuroo, A. A.**, Tali, B. A. (2023) *Viola suavis* subsp. *naqshii* : a new taxon from Kashmir Himalaya, India. *Phytotaxa*. 598(2):167-172. <https://doi.org/10.11646/phytotaxa.598.2.6>
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233. Khan, Z. S., **Khuroo, A. A.**, G. H. Dar and A.R. Naqshi. (2005). Vegetational profile along varied spatial habitats in Uri, Kashmir Himalaya. Pp: 171-177, In: *Plant Taxonomy: Advances and Relevance* (Eds.) A.K. Pandey, Jun Wen and J. V. V. Dogra. CBS Publishers and Distributors, New Delhi, India. (Book Chapter)

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235. Khan, Z. S., **Khuroo, A. A.**, G. H. Dar. (2004). Ethno-medicinal Survey of Uri, in the Kashmir Himalaya. *Indian Journal of Traditional Knowledge*, **3**(4): 351- 357.
236. **Khuroo, A. A.**, G. H. Dar, Z. S. Khan and A. R. Naqshi. (2004). Floristic diversity in the Phanerogams of Langate, Kupwara (J & K). India. *Journal of Economic and Taxonomic Botany*, **28**(3): 532- 544.

III)Details of other research/academic activities

a) Training Workshops/Courses organized:

1. **Organizing Secretary** for National Training Workshop on “*Plant Taxonomy: Classical and Modern Methods*” from 12-14 March, 2020, sponsored by Ministry of Environment, Forests & Climate Change, Govt. of India, New Delhi.
2. **Organizing Secretary** for National Training Workshop on “*Plant Taxonomy: Principles and Practice*” from 27-29 March, 2017, sponsored by Ministry of Environment, Forests & Climate Change, Govt. of India, New Delhi.
3. **Organizing Secretary** for Brainstorming Workshop on “*Conserving our natural Heritage: A way forward*”, on 22-12-2018, jointly sponsored by University of Kashmir and Wildlife Trust of India, New Delhi.
4. **Course Coordinator** for One week *Workshop on Research Methodology in Science for Research Scholars* from 21st to 28th January, 2019 at UGC-Human Resource Development Centre, University of Kashmir, Srinagar.
5. **Co-Organizing Secretary** for National Training Workshop on “*Monitoring Phenology in an Era of Climate Change*” from 4th -5th March, 2024, sponsored by Science and Engineering Research Board, Department of Science & Technology, Govt of India, New Delhi.

b) Training Workshops/Courses attended:

1. DST-SERB (Govt. of India) sponsored National Workshop on “**Modern Trends in Molecular Phylogeny**” held at Department of Botany, University of Calicut, Kerala from 15th to 20th march, 2015.
2. National Resources Data Management System (NRDMS), Department of Science & Technology, Govt. of India sponsored Training Programme on **Geospatial Technologies** held at Department of Geography & Regional Development, University of Kashmir, Srinagar from 2nd – 29th September, 2014.
3. Science Academies (IAS, INSA & NASI) sponsored Workshop on “**Himalayan Biodiversity and Bioresources: Mapping, Utilisation and Conservation**” held at Department of Botany, University of Kashmir, Srinagar from 8th -10th May, 2014.
4. Science Academies (IAS, INSA & NASI) sponsored refresher course on “**Traditional and modern approaches in plant taxonomy**” held at UAS, GKVK, Bangalore from 15th – 29th Nov., 2012.
5. ISRO-NNRMS sponsored training course on “**Applications of Remote Sensing and GIS in Ecology and Forestry**”, at Indian Institute of Remote Sensing, Dehradun, India from 4th May to 26th June, 2009.
6. General Orientation Course from 15-02-2007 to 14-03-2007 at Academic Staff College, University of Kashmir, Srinagar, India.

7. National Workshop on the '*Plant Taxonomy: An Overview*' organized by the Department of Botany, University of Punjab, Chandigarh, India, under MoEF sponsored – All India Coordinated Project on Taxonomy (AICOPTAX) from 8th – 9th Dec., 2007.
8. International Workshop on '*Biodiversity: its evaluation, conservation and sustainable use*', organized jointly by ATREE, Bangalore (India), Arizona State University and Conservation International, USA. From 7th – 11th Feb., 2005.

b) Invited/contributed talks in conferences/seminars/symposia, and abstracts published in Souvenirs:

1. **Tracking the 'Twin Crises' Together: A Decade of Biodiversity Data Collection to Guide Climate Action** during international workshop on "*Effects of Climate Change on Himalayan Biodiversity*" from 13th – 14th May, 2024 at University of Chicago, New Delhi Centre. (Invited Talk)
2. **Tracking Twin Crises on the 'Third Pole': Monitoring Impacts of Climate Change on Himalayan Biodiversity** during Science Academies' Lecture Workshop on "*Himalayan mountains and their life*" from 8th - 9th May, 2024, Department of Botany, University of Kashmir, Srinagar, India. (Invited Talk)
3. **"Role of Botanic Gardens and Herbaria in Plant Phenology Research"** during national training workshop on "*Monitoring Phenology in an Era of Climate Change*" from 4th -5th March, 2024 at Department of Botany, University of Kashmir, Srinagar, India. (Invited Talk)
4. **"Long-term Monitoring of Alpine Treeline Ecotone in Kashmir Himalaya: A Decade of Discourse"** during international conference AESEE-2024 organized by Department of Environmental Science and engineering, SRM University, Andhra Pradesh from 14th to 16th March, 2024. (Lead Lecture)
5. **"Taxonomic data synthesis: building baseline for biodiversity science"** during international seminar and 33rd annual conference of Indian Association for Angiosperm Taxonomy on *Advances in Plant Systematics, Biogeography and Biodiversity Conservation*, organized by Department of Botany, university of Calcutta from 25th to 27th November, 2023. (Invited Talk)
6. **"Data synthesis for biodiversity science: Research insights from plant inventory of Indian Himalayan Region"** during international workshop on *Biodiversity and Climate Change 2023: Sustainable Development Perspective* organized by Indian Institute of Technology, Kharagpur from 16th to 19th February, 2023. (Keynote Lecture)
7. **"Botanic gardens as suitable sites for plant phenology research in an era of global environmental change"** during international symposium on *Plant Taxonomy, Ethnobotany and Botanic Gardens* organized by Botanical Survey of India, Kolkata from 13th to 14th February, 2023. (Invited Lecture)
8. **"Linking science to society: Learnings from last two decades of research"** during 5-day workshop on Science-Policy-Society Interface jointly organized by Department of Environmental Sciences, University of Kashmir and Govt Degree College Women, Sopore on 6th December, 2022. (Invited Lecture)
9. **"Probing into plants for the people and the planet: A professional journey paced by passion"** under organized by Department of Environmental Sciences, University of Kashmir on 3rd November, 2022. (Invited Lecture)
10. **"Biodiversity of Jammu and Kashmir"** under *Biodiversity Lecture Series* organized by Department of Botany, Islamia College of Science and Commerce, Srinagar, on 24th May, 2022. (Invited Lecture)
11. **"Invasive Alien Species in an Age of Anthropocene"** during National Seminar on *Invasive Alien Species: An undesirable guest to the natural ecosystem* organized by Botanical Survey of India, Kolkata on 30th March, 2022. (Invited Lecture)
12. **"Building Biodiversity Baseline in an Era of Anthropocene: Research Insights from Multi-study Synthesis in Kashmir Himalaya"** during National Seminar on *Plants and Fungi- Polyphasic Characterization and Bioprospection* organized by Department of Botany, University of Jammu, on 25th March, 2022. (Invited Lecture)
13. **"Biodiversity: Concept, Concerns and Conservation"** during *Refresher Course in Life Sciences* organized by UGC-HRDC, University of Jammu on 20th January, 2021 (Invited Lecture).
14. **"Biodiversity"** during *Training Programme on Biodiversity, Population Dynamics and Stock Assessment for Sustainable Fisheries* organized by Faculty of Fisheries, SKUAST-K on 25th October, 2021. (Invited Lecture).

15. **“Biodiversity: Concept and Concerns”** during national webinar on *Biodiversity: Threats and Conservation* organized by Department of Botany, Garhbeta College, West Bengal on 18th August, 2021. (Invited Lecture)
16. **“Ecosystem Restoration: What, Why, Where, When & How”** during national webinar on World Environment Day-2021 organized by Division of Environmental Sciences, SKUAST-K on 5th June, 2021. (Invited Lecture)
17. **“Biodiversity: Concerns and Celebration”** during national webinar on *Biodiversity – basis of our existence and sustenance* organized by Amar Singh College, Cluster University Srinagar on 25th May, 2021. (Invited Lecture)
18. **“Biodiversity of Jammu and Kashmir”** during webinar on *Sustainable Environment Talk Series* organized by ENVIS Hub Jammu & Kashmir, Department of Ecology, Environment & Remote Sensing on 23rd May, 2021. (Invited Lecture)
19. **“Research Manuscript Writing: Why, What, How and Where”** during workshop on research methodology organized by Department of Environmental Sciences, University of Kashmir on 8th April, 2021. (Invited Lecture)
20. **“Plant Diversity of Jammu and Kashmir”** during Webinar on *International Mountain Day-2020* organized by Institute of Mountain Environment, Bhaderwah Campus, University of Jammu on 11th December, 2020 (Invited Lecture).
21. **“Biodiversity of Jammu and Kashmir: What We Know and What We Don’t”** during *Faculty Development Programme on Earth & Environmental Sciences* organized by Govt Degree College Pampore on 30th September, 2020. (Invited Lecture)
22. **“Alien Species in an Age of Anthropocene: Scientific Insights from Inventory of Alien Flora in India”** during International Symposium on *Plant Taxonomy and Ethnobotany* held at Botanical Survey of India, Kolkata on 13th February, 2020 (Invited Lecture).
23. **“Ethnomedicinal Flora of Jammu, Kashmir and Ladakh Himalayas: Systematic Synthesis and Conservation Prioritization”** during International Seminar on *Algae, Fungi and Plants: Systematics to Applications* held at Department of Botany, University of Calcutta, Kolkata on 25th January, 2020 (Invited Lecture).
24. **“Alien Species in Anthropocene: Insights from Inventory of Alien Flora in Indian Himalayan Region”** during R&D Conference on *Invasive Alien Species Management and Biosecurity Measures in Asia-Pacific Region*, held at Department of Environment and Natural Resources, Philippines on 10th July, 2019 (Invited Lecture).
25. **“Threatened Flora of Jammu & Kashmir State: Challenges & Road Ahead”** during Workshop-Brainstorming Session on *“Invasive Alien Plants in Himalayas... & Ecology..... of some threatened plant species”* held at Department of Botany, University of Kashmir, Srinagar on 16th March, 2019 (Invited Lecture).
26. **“Threatened Flora of Jammu & Kashmir State: Current Status & Future Challenges”** during Brainstorming workshop on *“RET Taxa Conservation”* held at State Forest Research Institute, Jammu on 2nd January, 2019 (Invited Lecture).
27. **“A taxonomic toolkit for weed science”** during IARI-sponsored Training workshop on *“Innovations in Weed Management in Context of Changing Agrarian Needs”* held at Faculty of Agriculture, SKUAST-K from 18th – 27th September, 2018 (Invited Lecture)
28. **“Measurement of Biodiversity”** during *In-Service Training for Botanical Assistants* held at Botanical Survey of India, Kolkata from 22nd June – 5th July, 2018 (Invited Lecture).
29. **“Ethno-medicinal Flora of Jammu and Kashmir State: Diversity, Distribution and Conservation”** during National Seminar on *“Ethnobotany and Traditional Knowledge in Biodiversity Conservation”* at BGSB University, Rajouri from 8th-9th March, 2018 (Invited Lecture).
30. **“Alpine Ecosystem Dynamics and Climate Change in Himalayas: Insights from Kashmir Himalayas”** during 2nd International Workshop on *“Biodiversity and Climate Change”* at IIT-Kharagpur from 24th -27th February, 2018 (Lead Lecture).
31. **“Invasive alien plants: inventory, impacts and implications”** during International Workshop on *Economic and ecological impacts of invasive alien species* held at Indian Statistical Institute, Kolkata from 21st – 23rd February, 2018 (Invited Lecture).

32. **“Linnaeus meets Elton: Exploring inter-linkages between taxonomy and invasion biology”** during National Seminar on *Advances in Plant Sciences* held at Department of Botany, S P Pune University from 12th -13th January, 2018 (Invited Lecture).
33. **Managing Invaded Landscapes: Problem, Progress & Prospects** during APFISN Workshop on Habitat and species specific protocols for management of forest invasive species in the Asia-Pacific region held at Colombo, Sri Lanka from 23rd -27th October, 2017 (Invited Lecture).
34. **Taxonomic diversity of flowering plants and their insect visitors** in the Kashmir Himalaya, India during International symposium on “Plant Systematics: Priorities & Challenges” from 10th -12th November, 2017.
35. **“Linnaeus meets Wilson: revisiting the role of taxonomy in biodiversity science”** during International Conference on 7th Young Investigators’ Meeting 2015 held at Gulmarg (J & K), IndiaBioscience from 27th March to 1st April, 2015.
36. **“Response of Biodiversity to Climate Variability”** during International Geographical Union (IGU) Commission Conference on Geohazards, Biodiversity, Resource Sustainability and Mountain Response to Global Change held at Department of Geography and Regional Development, University of Kashmir, Srinagar from 4th – 5th June, 2014.
37. **“Himalayan Biodiversity: Progress, Problems and Prospects”** during Science Academies (IAS, INSA & NASI) sponsored Lecture Workshop on **“Himalayan Biodiversity and Bioresources: Mapping, Utilisation and Conservation”** held at Department of Botany, University of Kashmir, Srinagar from 8th -10th May, 2014 (Invited talk).
38. **“Herbarium tools and techniques”** during Science Academies (IAS, INSA & NASI) sponsored Lecture Workshop on **“Himalayan Biodiversity and Bioresources: Mapping, Utilisation and Conservation”** held at Department of Botany, University of Kashmir, Srinagar from 8th -10th May, 2014.
39. **“Patterns of plant invasions: a synthesis at multiple spatial scales”** International Conference on Invasive Alien Species Management, organized by National Trust for Nature Conservation, at Chitwan, Nepal from March 25th to 27th, 2014 (Invited talk).
40. **“Revisiting the role of taxonomy in biodiversity science”**, National Symposium on Himalayan Biodiversity: Prospects and Challenges, organized by Department of Botany, NEHU, Shillong & EHSST, Siliguri from March 20th to 21st, 2014.
41. **“Developing baseline data for risk analysis of invasive alien species: insights from inventory of alien flora in India. Risk Analysis of Forest Invasive Alien Species”** International Union of Forest Research Organizations (IUFRO) at Panjab University, Chandigarh (India) from February 27th to 1st March, 2013.
42. **“Phenology and vegetation change along altitudinal gradient”** (Invited talk), Indo-UK Seminar funded by DST, India and Royal Society London, at Indian Institute of Technology, Kharagpur, India from December 19th to 21st, 2012.
43. **“Biological invasions in urban areas: towards an integrated research framework, management strategy and policy agenda”** (Invited talk) 3rd URBIO-2012 conference held at Indian Institute of Technology Bombay, Mumbai, India from October 8th to 12th, 2012.
44. **“Inventory and management of plant invasions: a multi-scale synthesis”** (Invited talk) The 2nd Asia Regional Conference of the Society for Conservation Biology held at Indian Institute of Sciences, Bangalore, India from 7th to 10th August, 2012.
45. **“Taxonomy and invasion biology: is there a meeting ground?”** (Invited talk), state-level seminar on *Recent Advances in Biosciences* held at Amar Singh College, Srinagar, India on 12th June, 2012.
46. **“Medicinal flora of Kashmir Himalaya: a taxonomic appraisal”** (Invited talk), national seminar on *Medicinal Plants: Current Status and Future Prospects* held at Islamia College of Science and Commerce, Srinagar, India on 14th to 15th March, 2012.
47. **“Role of taxonomy in the scientific understanding and management of biological invasions”** (invited talk), National Workshop on *Allelopathy and Biomangement of Exotic Weeds* Feb. 25th – 27th, 2012. I. S. D. College, University of Allahabad, Allahabad, India.
48. **“Climatic variability and shifting spring phenology in the Kashmir Himalaya”**. (Invited keynote address) International workshop on *Biodiversity and Climate Change* Dec. 19th – 22nd, 2010. Indian Institute of Technology, Kharagpur, India.

49. **“Climate change and shifting phenology: evidence from early spring flowering of *Sternbergia vernalis* Gorer & Harvey in the Kashmir valley, India”**. International symposium on *“Taxonomy, Plant Diversity and Conservation”*. Nov. 26th – 28th, 2010, Bharathiar University, Coimbatore, India.
50. **“Are mountains immune to invasions? Research insights from plant invasions in Kashmir Himalaya, India**, International GMBA-DIVERSITAS conference on *“Functional significance of mountain biodiversity”*. 27th – 30th, July, 2010. Global Mountain Biodiversity Assessment, Chandolin (Valais), Switzerland.
51. **“Taxonomic, ecological and biogeographic patterns in the woody flora of Jammu and Kashmir, India”**. International symposium on *Angiosperm Systematics & Phylogeny: Retrospect and Prospects*, Nov. 12th -14th, 2009. National Botanical Research Institute (CSIR), Lucknow, India
52. **“A Unified Framework for Inventorization of the Alien Flora of India”**. (Invited talk) International conference on *Invasive Plants in the Tropics: Ecology, Management and Livelihoods”* Jan. 4 -6, 2009. ATREE, Bangalore, India.
53. **“Documenting Biodiversity: Woody Flora of Jammu and Kashmir State”**. Fourth J & K Science Congress, 12th – 14th November, 2008, University of Kashmir, Srinagar.
54. **“Endemism in the Angiospermic Flora of Kashmir Valley, India: A Stocktaking”**. International Seminar on *“Multidisciplinary Approaches in Angiosperm Systematics”* from 11-13th Oct., 2008 at University of Kalyani, West Bengal, India.
55. **“Woody Flora of Jammu and Kashmir State, India: Diversity and ecological Insights”**. International Seminar on *“Multidisciplinary Approaches in Angiosperm Systematics”* from 11-13th Oct., 2008 at University of Kalyani, West Bengal, India.
56. **“Terrestrial Paradise Invaded: A Taxonomic Inventory of Alien Invasive Flora of the Kashmir Himalaya”**. International seminar on *“Changing scenario in Angiosperm Systematics”* from 19th -21st Nov., 2007 at Shivaji University, Kohlapur, Maharashtra, India.
57. **“Floristic Diversity in the Kashmir Himalaya: Gleaning the Present and Looking Forward”**. International seminar on *“Changing scenario in Angiosperm Systematics”* from 19th -21st Nov., 2007 at Shivaji University, Kohlapur, Maharashtra, India.
58. **“The ‘tragedy of commons’ revisited: A case study from the grasslands of Kashmir Himalaya, India”**. International Conference on the *‘Ecological Sustainability and Human Well-being’*, 15th – 18th Dec., 2006 organized by INSEE, Institute of Economic Growth, New Delhi, India.
59. **“Aliens invade ‘Paradise on Earth’: An overview from the Alien Invasive Flora of the Kashmir Valley, India”**. International symposium on the *‘Biology, Ecology and Management of World’s Worst Plant Invasive Species’*, 10th – 14th December, 2006, organized by CEMDE, University of Delhi, New Delhi, India.
60. **“Kashmir Himalayan Grasslands: Diversity, Threats and Conservation”**. Second J & K Science Congress, 25th – 27th July, 2006, University of Kashmir, Srinagar.
61. **“Taxonomic deficit: An impediment in the biodiversity information infrastructure”**. Symposium on *‘National Biodiversity and Ecosystem Information Infrastructure: Challenges and Potentials’*, 30th Jan – 2nd Feb, 2006. National Chemical Laboratory, Pune, India.
62. **“A Synopsis of Angiosperm Flora from the Langate, Kupwara in the Kashmir Himalaya”**. XIII Annual Conference of Indian Association of Angiosperm Taxonomy (IAAT), T. M. Bhagalpur University, India.
63. **“Role of Taxonomy in Biodiversity Studies”**. National Seminar on *‘State-of-the-Art on Conservation of Biodiversity in India with Particular Reference to Himalaya’*. Centre of Research and Development (CORD), University of Kashmir, Srinagar, India.

Research collaborations

❖ National

- Space Applications Centre-ISRO, Ahmedabad (HIMADRI & SHRESTI Projects)
- National Remote Sensing Centre-ISRO, Hyderabad (National Carbon Project)
- Indian Institute of Remote Sensing Centre-ISRO, Dehradun (Himalayan Alpine Biodiversity Information Network)
- University of Calcutta, Kolkata

- Indian Institute of Technology, Kharagpur
- Pondicherry University, Puducherry
- Ashoka Trust for Research in Ecology and the Environment, Bengaluru

❖ International

- GLORIA (<https://www.gloria.ac.at/home>)
- MIREN (<https://www.mountaininvasions.org>)
- Global Litter Decomposition Initiative (<https://www.teacomposition.org/sites-map/>)
- Global TeaComposition H₂O Initiative (<https://www.bluecarbonlab.org/teacomposition-h2o/>)
- SoilTemp (<https://www.soiltempproject.com>)
- DarkDivNet (<https://macroecology.ut.ee/en/darkdivnet/>)

c) Reviewer for scientific journals

- *Acta Botanica Mexicana*
- *African Journal of Agricultural Research*
- *African Journal of Environmental Sciences and Technology*
- *African Journal of Plant Sciences*
- *Annals of Forest Science*
- *Biodiversity and Conservation*
- *Biological Invasions*
- *Brazilian Journal of Botany*
- *Checklist*
- *Diversity and Distributions*
- *Ecological Indicators*
- *Energy, Ecology and Environment*
- *Environmental Monitoring and Assessment*
- *Environmentalist*
- *Evolutionary Ecology*
- *Global and Planetary Change*
- *Global Ecology and Conservation*
- *Indian Journal of Traditional Knowledge*
- *International Journal of Biodiversity and Conservation*
- *International Journal of Biodiversity Science, Ecosystem Service & Management*
- *Journal of Economic and Taxonomic Botany*
- *Journal of Environmental Management*
- *Journal of Plant Ecology*
- *Journal of Research and Reports in Biodiversity Studies*
- *Mountain Research and Development*
- *National Academy Science Letters*
- *Nordic Journal of Botany*
- *Phytotaxa*
- *Plant Ecology*
- *Pleione*
- *PloSONE*
- *Proceedings of National Academy of Sciences India (Biological Sciences)*
- *Rheedia*
- *Scientific Reports*
- *South African Journal of Botany*
- *Taiwania*
- *Tropical Ecology*

IV) UGC-CEC sponsored e-contents

UGC (India) sponsored E-content modules developed in collaboration with Electronic and Multimedia Research Centre, University of Kashmir

1. General Characters and Classification of Algae
2. General Characters and Classification of Fungi
3. General Characters and Classification of Pteridophytes
4. Taxonomic Literature
5. Angiosperm Phylogeny Group Classification
6. Evolution and Diversity of Angiosperms
7. Taxonomy and Diversity of Ranunculaceae
8. Taxonomy and Diversity of Brassicaceae
9. Taxonomy and Diversity of Asteraceae
10. Taxonomy and Diversity of Rosaceae
11. Taxonomy and Diversity of Orchidaceae
12. Taxonomy and Diversity of Malvaceae
13. Taxonomy and Diversity of Apiaceae
14. Taxonomy and Diversity of Liliaceae
15. Taxonomy and Diversity of Poaceae
16. Taxonomy and Diversity of Lamiaceae
17. Taxonomy and Diversity of Solanaceae
18. Taxonomy and Diversity of Amaranthaceae
19. Biogeographical regions of India
20. Plant Movements

UGC-CEC lecture on the topics:

1. Biodiversity: A Basic Understanding
2. Threats to Biodiversity
3. Values of Biodiversity
4. *In-situ* Conservation
5. *Ex-situ* Conservation
6. Biodiversity hotspots
7. Biogeography: An Introduction
8. Taxonomy: The Language of Life
9. Herbarium: A Field Toolkit

- **Coordinator** for the development of Massive Online Open Courses (MOOCs) on Plant Systematics, B. Sc. (Hons.) Botany, sponsored by UGC-CEC, New Delhi.

<https://swayam.gov.in/courses/5052-plant-systematics>

V) Popular articles in local press

- **Gandola: The 'Highest' Ecological Disaster** – I & II. *Greater Kashmir* June 20 & 21, 2005. Pp. 7.
- **Vanishing Margs of Kashmir**. *GK Plus*. 7th May, 2006. Pp. 4.
- **The joy of being in the company of Nature** – I & II. *Greater Kashmir*. May 22 & 23, 2006. Pp. 7.
- **Reconciling Economy with Ecology** – I & II. *Greater Kashmir*. July 25 & 26, 2006. Pp. 7.
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- **Unpopular poplars** *Kashmir Life* June 24, 2013.

VI) Corporate Life of University of Kashmir:

- Member of the Implementation Committee NEP 2020 (University of Kashmir).
- Member of the task force for the preparation of NAAC report-2010 (University of Kashmir).
- Member, Expert Committee on NEP-2020, University of Kashmir
- Member of the Accommodation Committee, Teaching – year 2010.
- Member of FIST Committee, Department of Botany, University of Kashmir, Srinagar.
- Member of SAP Committee, Department of Botany, University of Kashmir, Srinagar.
- Coordinator, Landscape Division, University of Kashmir
- Officer Incharge, Centre for Biodiversity & Taxonomy (CBT), Department of Botany, University of Kashmir, Srinagar.
- Officer Incharge, Kashmir University Botanical Garden, Department of Botany, University of Kashmir, Srinagar.

VII) Membership of scientific bodies

1. South Asian Network for Taxonomy Capacity Building (**SACNET**), Colombo. (Member)
2. Mountain Invasion Research Network (**MIREN**), Switzerland (Member)
3. Indian Association of Angiosperm Taxonomy (**IAAT**), Calicut, India (Life member).
4. Eastern Himalayan Society for Spermatophyte Taxonomy (**EHSST**), Siliguri, India (Life Member)
5. Association for Plant Taxonomy (**APT**), Dehra Dun, India (Life Member)
6. Jammu and Kashmir Science Academy (**JAKSA**), Srinagar, India. (Member)