

# CV

## PERSONAL DETAILS:

**Name:** AKHTAR. HUSSAIN MALIK

**Father's name:** Mr. Gh. Hassan Malik



**Field of research:** **Biodiversity, Plant Taxonomy, Ethnobotany**

**Permanent address:** KHAG, BUDGAM, J&K-193411.

**Correspondence address:** Centre for Biodiversity and Taxonomy, Department of Botany, University of Kashmir, Srinagar, J&K India. 190006.

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## CURRENT POSITIONS:

- **Jr. Scientist** at Centre for Biodiversity and Taxonomy, Department of Botany, University of Kashmir, Srinagar, J&K India. 190006.
- **Assistant Landscape Development Officer since Nov.2013 till date.**
- Actively involved in teaching at **post-graduate level (M.Sc Botany & M.Sc Bioresources)** and research work in the field of **Biodiversity, Plant Taxonomy, Ethnobotany.**

## ACADEMIC PROFILE:

(i) **M. Sc. Botany**

(ii) **J&K SET (UGC)**

(iii) **Ph D (under submission)**

<https://scholar.google.co.in/schhp?hl=en> Akhtar H Malik

| <u>Citation indices</u> | All  | Since 2017 |
|-------------------------|------|------------|
| <u>Citations</u>        | 1001 | 743        |
| <u>h-index</u>          | 17   | 16         |
| <u>i10-index</u>        | 27   | 24         |

## Citations:

<https://www.scopus.com/authid/detail.uri?authorId=22980590300#top>

<https://scholar.google.co.in/citations?user=xysSzqYAAAAJ&hl=en>

[https://www.researchgate.net/profile/Akhtar\\_Malik2/contributions](https://www.researchgate.net/profile/Akhtar_Malik2/contributions)

<https://showkathp1211.academia.edu/AkhtarHMalik>

<http://taxonomy.uok.edu.in/Malik.aspx>

## **PUBLISHED RESEARCH WORK**

### **a) List of papers in Science Citation Index (Impact Factor) Journals.**

1. Zargar, S.A., Ganie, A., Khuroo, A. A., Reshi, Z. A., Bano, S., **Malik, A. H.** (2023). An updated checklist of the vascular flora of the Trans-Himalayan region of Ladakh. *Phytotaxa* 623(1):1-136. **Impact factor: 1.05**
2. Hamid, M., Gulzar, A., Dar, 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 tree lines: Implications under climate change. *Agricultural and Forest Meteorology* 341:109688. **Impact factor: 6.424**
3. Mangra, Z.A., Islam, I., Tariq, L., Kaur, S., Ahmad, R., **Malik, A. H.**, Goel, S., Baishya, R., Barik, S.K., Dar, T. U. H. (2023). Altitudinal gradient drives significant changes in soil physico-chemical and eco-physiological properties of *Rhododendron anthopogon*: a case study from Himalaya. *Frontiers in Forest & Global Change*. **Impact factor: 1.05**
4. Gulzar, A., Hamid, M., Dar, F. A., Wani, S. A. **Malik, A.H.**, Kamili, A. N., Singh, C. P., Khuroo, A. A. (2022). Patterns of floristic and functional diversity in two treeline ecotone sites of Kashmir Himalaya. *Environmental Monitoring and Assessment*. **194:420** <https://doi.org/10.1007/s10661-022-10044-5>. **Impact factor: 3.370**
5. Wani, Z.A., Khan, S., Bhat, J.A., **Malik A. H.**, Alyas, T., Pant, S., Ahmad, A.E (2022) Pattern of  $\beta$ -diversity and plant species richness along vertical gradient in Northwest Himalaya, India. *Biology* 11(1064):1–17. <https://doi.org/10.3390/biology11071064>
6. Hamid, M., Khuroo, A.A., **Malik, A. H.** Ahmad, R., Singh, C.P., (2021). Elevation and aspect determine the differences in soil properties and plant species diversity on Himalayan mountain summits. *Ecological Research*. 2021; 1–13. <https://doi.org/10.1111/1440-1703>. **Impact factor: 1.580.**
7. Haq, S. M., Calixto, E. S., Rashid, I., Malik, A. H., Kumar, M., Khuroo, A. A. (2022). Anthropogenic pressure and tree carbon loss in the temperate forests of Kashmir Himalaya. *Botany Letters* **169(3): 400-412**. <https://doi.org/10.1080/23818107.2022.2073259>
8. Wani, S. A., Ahmad, R., Gulzar, R., Rashid, I., Malik, A. H., Rashid, I., Khuroo, A. A. (2022). Diversity, distribution and drivers of alien flora in the Indian Himalayan Region. *Global Ecology and Conservation* 38: e02246. <https://doi.org/10.1016/j.gecco.2022.e02246>
9. Islam, S. U., Dar, T. U. H., Khuroo, A. A., Bhat, B. A., Mangral, A. A., Tariq, L., Tantar, W. W., Malik, A. H. (2021). DNA barcoding aids in identification of adulterants of *Trillium govaniatum* Wall. ex D. Don. *Journal of Applied Research on Medicinal and Aromatic Plants* **23: 100305**. <https://doi.org/10.1016/j.jarmap.2021.100305>

10. Haq, S. M., Rashid, I., Khuroo, A. A., Malik, Z. A., **Malik A. H.**, (2019). Anthropogenic disturbances alter community structure in the forests of Kashmir Himalaya. *Tropical Ecology* **60:6-15**. <https://doi.org/10.1007/s42965-019-00001-8>
11. Hassan, T., Hamid, M., Wani, S. A., **Malik, A. H.**, Waza, S. A., Khuroo, A. A. (2021). Substantial shifts in flowering phenology of *Sternbergia vernalis* in the Himalaya: Supplementing decadal field records with historical and experimental evidences. *Science of The Total Environment*, **795**, 148811. <https://doi.org/10.1016/j.scitotenv.2021.148811>
12. Mehraj G., Khuroo A. A., Hamid, M., Insha M., Rashid I., **Malik, A. H.** (2021) Floristic diversity and correlates of naturalization of alien flora in urban green spaces of Srinagar city. *Urban Ecosystems* **1-14**. <https://doi.org/10.1007/s11252-021-01105-7>
13. Wani, Z. A., Khan, S., Bhat, J. A., **Malik, A. H.**, Alyas, T., Pant, S., Siddiqui, S., Moustafa, M., Ahmad, E. A (2022). Pattern of b-diversity and plant species richness along vertical gradient in Northwest Himalaya, India. *Biology*. **11**, 1064. doi: 10.3390/biology11071064
14. Hamid, M., Khuroo, A.A., **Malik, A. H.** Ahmad, R., Singh, C.P., Dolezal, J and Haq, S.M., (2020). Early Evidence of Shifts in Alpine Summit Vegetation: A Case Study From Kashmir Himalaya. *Frontiers in Plant Science* | Volume 11 | Article 4211-16. **Impact factor: 4.407**
15. Hamid, M., Khuroo, A.A., **Malik, A.H.** Ahmad, R., Singh, C.P.(2020). Assessment of alpine summit flora in Kashmir Himalaya and its implications for long-term monitoring of climate change impacts. *Journal of Mountain Sciences*. **17(8): 1974-1988. Impact factor: 1.490**
16. Ahmad, R., Khuroo, A.A., Hamid, M., **Malik, A.H.** and Rashid, I.(2019). Scale and season determine the magnitude of invasion impacts on plant communities. *Flora*. **260** 151481. <https://doi.org/10.1016/j.flora.2019.151481>. **Impact Factor: 1.591**
17. Mohapatra, J., Singh, C.P., Khuroo, A.A., Hamid, M., **Malik, A.H.** & Pandya, H. A.(2019) Assessment of the alpine plant species biodiversity in the western Himalaya using Resourcesat-2 imagery and field survey. *Journal of Earth System Science*. **128, 189**. <https://doi.org/10.1007/s12040-019-1219-1>. (**Impact factor: 1.423**)
18. Haq, S.M., Rashid, I., Khuroo, A.A., Malik, Z.A., **Malik, A.H.** (2019). Anthropogenic disturbances alter community structure in the forests of Kashmir Himalaya. *Tropical Ecology*. <https://doi.org/10.1007/s42965-019-00001-8>. (**Impact factor: 0.63**)
19. Khan, M.I., Pandith, S.A., Ramazan, S., Shah, M.A., **Malik, A.H.** and Reshi, Z.A. (2019). *Rheum moorcroftianum* (Polygonaceae) in Kashmir Himalaya. *Phytotaxa*. **405(5):269-275. (IF: 1.169)**
20. Muzafar, I., Khuroo, A.A., Mehraj, G., Hamid, M., Rashid, I., **Malik, A.H.** (2019) Floristic diversity along the roadsides of an urban biodiversity hotspot, *Plant Biosystems*. **153(2): 222–230 (IF: 1.203)**
21. Mehraj, G., Khuroo, A. A., Muzafar, I., Rashid, I., **Malik, A. H.**(2016) An Updated Taxonomic Inventory of Flora of Srinagar City (Kashmir Himalaya) India, Using Herbarium Reconstruction Approach. *Proceedings of National Academy of Sciences India, Section B: Biological Sciences*, **88(3): 1017-1023 (IF: 0.396)**

22. **Malik, A. H.**, Rashid, I., Ganie A. H., Khuroo, A. A., Dar, G. H. (2015) Benefitting from Geoinformatics: Estimating Floristic Diversity of Warwan Valley in Northwestern Himalaya, India. *Journal of Mountain Sciences*. **12(4)**:854-863. (IF: 1.135)
23. Nisar, A., Akhter, N., Singh, G., Masood, A., **Malik, A. H.**, Banday, B., Zargar, M. A. (2015) Modulation of T-helper cytokines and inflammatory mediators by *Atropa acuminata* Royle in adjuvant induced arthritic tissues. *Journal of Ethnopharmacology*. **162**:215–224. (IF: 3.4)
24. Roy, P. S., Behera, M. D., Murthy, M. S. R., **Malik, A. H.** et al (2015) New Vegetation type map of India prepared using satellite remote sensing: comparison with global vegetation maps and utilities. *International Journal of applied Earth observation and Geoinformation*. **39**:142-159. (IF: 3.5)
25. Nisar, A., **Malik, A. H.**, Zargar, M. A. (2013) *Atropa acuminata* Royle Ex Lindl blunts production of inflammatory mediators eicosanoids, leukotrienes, cytokines in vitro and in vivo models of acute inflammatory responses. *Journal of Ethnopharmacology* **147**:584–594. (IF: 3.4).
26. Dar, G. H., Khuroo, A. A., Reddy, C. S., **Malik, A. H.** (2012) Impediment to taxonomy and its impact on biodiversity science: an Indian perspective. *Proceedings of National Academy of Sciences India, Section B: Biological Sciences*, **82**:235-240. (IF: 0.396)
27. Khuroo, A. A., Reshi, Z. A., **Malik, A. H.**, Weber, E., Rashid, I., Dar, G. H. (2012) Alien flora of India: taxonomic composition, invasion status and biogeographic affiliations. *Biological Invasions* **14**:99-113. (IF: 3.054)
28. **Malik, A. H.**, Khuroo, A. A., Dar, G. H., Khan, Z. S. (2011) Ethnomedicinal uses of some plants in the Kashmir Himalaya, India. *Indian Journal of Traditional Knowledge* **10** (2):362-366. (IF: 0.59)
29. Khuroo, A. A., Weber, E., **Malik, A. H.**, Reshi, Z. A., Dar, G. H. (2011) Altitudinal distribution patterns of the native and alien woody flora in Kashmir Himalaya, India. *Environmental Research*. (IF: 3.5)
30. Misba, K., Ganie, S. A., Wani, S. H., Gani, B. A., Masood, A., Zargar, A., **Malik, A. H.**, Hamid, R. (2011) Free Radical Scavenging Activity of *Elsholtzia densa*. *Journal of Acupuncture and Meridian Studies*. (3):104-111. (IF: 0.76)
31. Khuroo, A. A., **Malik, A. H.**, Dar, G. H., Reshi, Z. A. (2010) From ornamental to detrimental: plant invasion of *Leucanthemum vulgare* (Ox-eye Daisy) in Kashmir valley, India. *Current Science* **98**: 600-602. (IF: 0.897)
32. Dar, G. H., Rashid, T., Naqshi, A. R., Khuroo, A. A., **Malik, A. H.** (2010) Two new species of *Papaver* L. (Papaveraceae) from Kashmir Himalaya, India. *Pakistan Journal of Botany* **42**:63-66. (IF: 0.947)
33. Khuroo, A. A., Weber, E., **Malik, A. H.**, Dar, G. H., Reshi, Z. A. (2010) Taxonomic and biogeographic patterns in the native and alien woody flora of Kashmir Himalaya, India. *Nordic Journal of Botany* **28**: 685-696. (IF: 0.76)

34. Khuroo, A. A., Reshi, Z., Rashid, I., Dar, G. H., **Malik, A. H.** (2009) Plant invasions in montane ecosystems. *Frontiers in Ecology and Environment* 7(8): 407-408. (IF: 8.824)
35. Khuroo, A. A., Dar, G. H., Khan, Z. S., **Malik, A. H.** (2007) Exploring an inherent interface between taxonomy and biodiversity: current problems and future challenges. *Journal for Nature Conservation*, 15:256-261.(IF: 1.545)

**b) List of papers published in other journals.**

1. Dar, A. A., Malik, A. H., Parthasarathy, N (2022). A floristic survey across three coniferous forests of Kashmir Himalaya, India—a checklist. *Journal of Threatened Taxa* 14:20323–20345.
2. Kalam M. A., **Malik A. H.**, Ganie A. H., Butt, T. A. (2021). Medicinal importance of Papra (*Podophyllum hexandrum* Royle) in Unani System of Medicine. *Journal of Complementary and Integrative Medicine*. doi: 10.1515/jcim-2020-0178.
3. **Malik, A. H.**, Dar, G. H., Khuroo, A. A., Ganie A. H., Munsh, A.H (2020). Worthful Willows: Economic and Ethnomedicinal Uses of Genus *Salix* L. in the Kashmir and Ladakh Himalayas. *Journal of Himalayan Ecology Sustainable Development*.15:176-189.
4. Dar, M. S., Rasheed. S., Khuroo, A. A., Ahmad, R., **Malik, A. H.**, Dar, G. H.(2020). A Note on the Occurrence of *Rubia manjith* (Rubiaceae) from Hirpora Wildlife Sanctuary, Jammu & Kashmir. *Nelumbo*. DOI: 10.20324/nelumbo/v62/2020/150938
5. Haq, S. M., **Malik, A.H.**, Khuroo, A.A., Rashid, I. (2019) Floristic composition and biological spectrum of Keran - a remote valley of northwestern Himalaya. *Acta Ecologica Sinica* doi.org/10.1016/j.chnaes.2018.12.001
6. Rasheed. S., Khuroo, A. A., Hamid, M., Muzafar, I., **Malik, A. H.**, Dar, G. H. *Veronica peregrina* (Plantaginaceae): A new record for India.(2018) *Rheedea*.28 (1):65-67.
7. Dar, M. S., Khuroo, A. A., **Malik, A. H.**, Dar, G. H. (2018) Ethno-veterinary uses of some plants by Gujjar and Bakerwal community in Hirpora Wildlife Sanctuary, Kashmir Himalaya. *SKUAST Journal of Research*.20(2):181-186.
8. Mughal, R., **Malik, A. H.**, Dar, G. H., Khuroo, A. A. (2017) Woody Flora of Poonch District in Pir Panjal Himalaya (Jammu & Kashmir), India. *Pleione*. 11(2): 367 - 388.
9. Khalid, K. B., Bhat, A. H., Amin, S., Zargar, M.A. Masood, A., **Malik, A. H.**, Ganie, S. A.(2017) Evaluation of Antibacterial, Antifungal and Photochemical Screening of *Solanum nigrum* . *Analytical Biochemistry* 6(6):6.
10. Khuroo A. A., Hamid M., **Malik, A. H.** (2015) HIMADRI site in Kashmir Himalaya. *Himalayan.Ecology*.2277-9000

11. Muzafar, I., Mehraj, G., Khuroo, A.A., **Malik, A.H.**, Rashid, I. (2015) Weed of Worry: Proliferation of *Parthenium hysterophorus* L.in Kashmir Valley. *Journal of Himalayan Ecology Sustainable Development*.127-131.
12. Muzafar,I,Khuroo,A.A.,Bhat,S.R.,Mehraj,G.,**Malik,A.H.**,Rashid, I.(2015) *Oxalis debilis* var.*corymbosa* (Oxalidaceae): A new plant record for Kashmir valley (J&K), India. *Pleione*. **9(1)**:247-250.
13. Dar, G. H., **Malik A. H.**, Khuroo, A. A.( 2014) A Contribution to the Flora of Rajouri and Poonch Districts in the Pir Panjal Himalaya (Jammu & Kashmir), India. *Check List*.1 0(2): 317–328.
14. Malik,R .A.,Gupta, R. C., Kumari,S **Malik A. H.**(2014) Cytomictic Anomalous Male Meiosis and  $2n$  Pollen Grain Formation in *Mertensia echioides* Benth. (Boraginaceae) from Kashmir Himalaya. *Scientific World Journal* Volume 2014, 134192,<http://dx.doi.org/10.1155/2014/134192>.
15. Mushtaq, A., Akbar. S., Zargar. M. A., Wali. A. F., **Malik, A. H.**, Dar. M. Y., Hamid, R., Gani. B.A. (2014) Phytochemical Screening, Physicochemical Properties, Acute Toxicity Testing and Screening of Hypoglycemic Activity of Extracts of *Eremurus himalaicus* Baker in Normoglycaemic Wistar Strain Albino Rats. **BioMed Research International** Volume Article ID 867547, 6 pages <http://dx.doi.org/10.1155/2014/867547>.
16. Singh, G., Khuroo, A. A., Ganie A. H.,Tali, B.A.,**Malik, A.H.** ( 2014) *Euphorbia esula* L. (Euphorbiaceae): A new plant record for Indian subcontinent from Kashmir Himalaya. *Phytodiversity* 2014: Vol. 1 (1&2): 1-6 ISSN: 2349 – 7068.
17. Khan,M, Ghazanfar, K, Gani. B.A, Akbar, S, **Malik, A. H.**, Masood.A. (2014) Scientific Validation of *Gentiana kurroo* Royle forAnti-Inflammatory and Immunomodulatory Potential. *ISRN Inflammation*. Volume 2014, Article ID 701765, 5 <http://dx.doi.org/10.1155/2014/701765>.
18. Khan,M, Gani. B.A, Ghazanfar, K, Akbar, S, **Malik, A. H.**, Masood.A. (2013) Evaluation of *Artemisia amygdalina* for Anti- Inflammatory and ImmunomodulatoryPotential. *ISRN Inflammation*
19. Wani, B.A., Ramamurthy.D. Aslam, K., **Malik, A.H.**, Gani. B.A, (2013) Antibacterial activity of aerial parts of *Thymus serphyllum* L. against clinically important bacterial strains. *International journal of Science inventions today*, **2(1)**.78-85.
20. Khan,M, Gani. B.A, Ghazanfar, K, Akbar, S, Malik, A. H., Masood.A. (2013) Evaluation of *Artemisia amygdalina* for Anti- Inflammatory and ImmunomodulatoryPotential. *ISRN Inflammation*
21. **Malik A. H.**, Dar G. H., Khuroo, A. A., Ganie A. H., Munshi, A. H. (2012) *Salix matsudana* Koidzumi [Salicaceae]: a new species record for India from Kashmir Himalaya *Pleione* **6**:251-253.

22. Akhter, C., Khuroo, A. A., **Malik, A. H.**, Dar, G. H., (2012) A taxonomic appraisal of genus *Iris L.* in Kashmir Himalaya, India. *Iranian. Journal of Botany* **19** (2): 119-126. Tehran.
23. Akhter, C., Khuroo, A. A., Dar, G. H., Khan, Z. S., **Malik, A. H.** (2011) An updated checklist of orchids in the Indian Himalayan State of Jammu and Kashmir. *Pleione* **5**(1):1-9.
24. Rather, M.A., Gani. B.A, Dar. B. A., Sofi. S.A., **Malik, A. H.** (2011) GC FID and GC –MS analysis of the Essential oil of *Elsholtzia densa* Benth source of acrylfuran non- terpene ketone. *International Journal of Research Phytochemical; Pharmacology.* **1**(2) 74-76.
25. Dar, G.H., S, T. K., Naqshi, A. R., Khuroo, A. A., **Malik, A.H.** (2011) A new species of *Corydalis* DC (Fumariaceae) from Kashmir, North-West Himalaya, India. *Taiwania.* **56**(4): 305-308.
26. Rashid, I., Romshoo.1. S., A Muslim. M., **Malik, A. H.** (2010) Landscape Level Vegetation Characterization of Lidder Valley Using Geoinformatics. *Journal of Himalayan Ecology Sustainability Development.* **5.** 11-24
27. **Malik, A. H.**, Khuroo, A. A., Dar, G. H., Khan, Z. S. (2010). The woody flora of Jammu and Kashmir State, India: an updated checklist. *Journal of Economic and Taxonomic Botany* **34**(2): 274-297.
28. Khuroo, A. A., **A. H. Malik**, G. H. Dar, A. R. Dar., Z.S. Khan. (2007). Ethno-veterinary medicinal uses of some plant species by the Gujar tribe of the Kashmir Himalaya. *Asian Journal of Plant Sciences,* **6**(1): 148-152.

### Book Chapters

1. Khuroo, A. A., Dar, F. A., Hamid, M., Ahmad, R., Wani, S.A., **Malik, A. H.**, Khan, A.G., Singh, C.P. Patterns of Plant Species Richness Across the Himalayan Treeline Ecotone (2023). *Ecology of Himalayan Treeline Ecotone.* Publisher: Springer Nature Singapore Pte Ltd. DOI: 10.1007/978-981-19-4476-5\_11
2. Mathew, J.R., Singh, C.P., Mohapatra, J., Agrawal, R., Solanki, H., Khuroo, A. A., Hamid, M., **Malik, A. H.**, Ahmad, R., Kumar, A., Verma, A. (2023). Quantifying Variation in Canopy Height from LiDAR Data as a Function of Altitude Along Alpine Treeline Ecotone in Indian Himalaya. *Ecology of Himalayan Treeline Ecotone.* Publisher: Springer Nature Singapore Pte Ltd. DOI: 10.1007/978-981-19-4476-5\_11
3. **Malik, A. H.**, Khuroo, A. A., Dar, G. H. and Khan, Z.S. (2020). An Annotated Inventory of Arboreal Flora in Jammu and Kashmir State. *Biodiversity of the Himalaya: Jammu and Kashmir State, Topics in Biodiversity and Conservation* **22**, (Eds. G. H. Dar, A. A. Khuroo ). Springer Nature Singapore Pte Ltd. 2020 191. [https://doi.org/10.1007/978-981-32-9174-4\\_22](https://doi.org/10.1007/978-981-32-9174-4_22).
4. Haq, S. M., **Malik, A.H.**, Khuroo, A.A., Rashid, I., Ahmad, R., Hamid, M. and Maroof Hamid, and Dar, G. H. (2020). **Forest Ecosystems of Jammu and Kashmir State.** *Biodiversity of the Himalaya: Jammu and Kashmir State. Biodiversity of the*

*Himalaya: Jammu and Kashmir State. Topics in Biodiversity and Conservation* 18, (Eds. G. H. Dar, A. A. Khuroo.). Springer Nature Singapore Pte Ltd. 2020 191. [https://doi.org/10.1007/978-981-32-9174-4\\_8](https://doi.org/10.1007/978-981-32-9174-4_8)

5. Hamid, M. Khuroo, A. A., Ahmad, R., Rasheed, S., **Malik, A. H.** and G. H. Dar, (2020). Threatened Flora of Jammu and Kashmir State. Biodiversity of the Himalaya. Jammu and Kashmir State. *Biodiversity of the Himalaya: Jammu and Kashmir State, Topics in Biodiversity and Conservation* 18, (Eds. G. H. Dar, A. A. Khuroo.). Springer Nature Singapore Pte Ltd. 2020 957 [https://doi.org/10.1007/978-981-32-9174-4\\_37](https://doi.org/10.1007/978-981-32-9174-4_37).
6. Khuroo, A. A., Ahmad, R., Mehraj, G., 1, Rashid, **Malik, A. H.**, Dar, G. H. (2018). Diversity and distribution of alien flora in the Indian Himalayan region. *Plant Diversity in the Himalaya Hotspot Region. Vol. II* (Eds. A. P. Das and S. Bera). Bishen Singh Mahendra Pal Singh Dehra Dun - 248 001 (INDIA) pp.451-466. ISBN: 978-81-211-0981-9.
7. Khuroo, A. A., Reshi, Z.A., Dar, G.H. & **Malik, A. H.** (2019). Floristic diversity of Kashmir Himalayan Grasslands. *Angiosperm Systematics: Recent trends and emerging issues*. (Eds. Priyanka Agnihotri and J.S. Khuraijam). ISBN: 978-81-211-0981-9. Bishen Singh Mahendra Pal Singh, Dehra Dun - 248 001 (INDIA) 2018.451-466.
8. Haq, S. M. **Malik, A. H.**, Khuroo, A. A., Rashid, I. (2020) Contribution to the Flora of Keran Valley in Kashmir Himalaya. In: Pant et al. (Eds.) *Ethnobotany and Biodiversity Conservation*, Indu Book Services Pvt. Ltd, New Delhi. Pp. 39-59.
9. Khuroo, A. A., Ahmad, R., Hamid, M., Gulzar, R., Malik, A.H., Rashid, I. (2021). Alien flora of Indian Himalayan region: Taxonomic, biogeographical and ecological assessment. In: *New Vistas in Indian Flora, Vol. II* (Eds. Singh, L. J. & Ranjan, V.). Bishen Singh Mahendra Pal Singh, Dehradun. Pp. 497-518.
10. Khuroo, A. A., Ahmad, R., Hamid, M., Rather, Z. A., Malik, A.H., Rashid, I. (2021). An annotated inventory of invasive alien flora of India. In: *Invasive Alien Species: Observations and Issues from Around the World, Vol 2* (Eds. Pullaiah, T. Lelmini, M. R.). John Wiley & Sons Ltd. Pp.16-37.

### Books/Research Monographs

1. G.S. Pujar, M.D. Behra, **Akhtar.H. Malik**, G.H. Dar, M. Muslim, V. Chitale, M. Farooq. **2011.** *Biodiversity Characterization at Landscape Level in Jammu and Kashmir Using Satellite Remote Sensing and Geographic Information Systems. A Joint Project of Department of Space and Department of Biotechnology, Government of India.* Bishen Singh Mahendra Pal Singh Publishers, Dehradun, India. ISBN: 978-81-211-0818-8. 135pp.



## 2) DETAILS OF OTHER RESEARCH ACTIVITIES.

### a) Research papers presented in the conferences/seminars/symposia in India:

- i) **“Woody flora of Poonch District in the Pir Panjal Himalaya (Jammu & Kashmir), India”** in XXVII annual conference of Indian Association for Angiosperm Taxonomy International Symposium on “Plant Systematics: Priorities and Challenges” **November 10-12, (2017)**, organized by Delhi University Botanical Society, Department of Botany, University of Delhi, Delhi.
- ii) **Hands on training on Herbarium techniques and Medicinal plants during special session for the participant of Science students in INSPIRE** programme on 28<sup>th</sup> December 2017, organized by the **NIT Srinagar** in Collaborations with J&K State Council for Science & Technology & DST, Govt. of India.
- iii) **Documenting Biodiversity: An Inventory of arboreal Floral of Jammu and Kashmir State. In 9<sup>rd</sup> J&K State Science Congress and Regional Science Congress, October 1<sup>th</sup>- 3<sup>th</sup>, (2013)**, Organized By University of Kashmir in Collaborations with J&K State Council for Science & Technology & DST, Govt. of India.
- iv) **Role of Botanical garden and Herbarium in Science during special session organized by the CBT for the participant science students in INSPIRE** programme on 10<sup>th</sup> September 2013. Organized By University of Kashmir in Collaborations with J&K State Council for Science & Technology & DST, Govt. of India.
- v) **Floristic Diversity of the Warwun valley in Jammu and Kashmir**, India International symposium on “*Taxonomy, Plant Diversity and Conservation*” Nov. 26<sup>th</sup> – 28<sup>th</sup>, 2010, Bharathiar University, Coimbatore, Tamil Nadu, India.
- vi) **“Medicinal Flora of Trans-Himalaya & their conservation measures”** ; state-level seminar on *Recent Advances in Biosciences* held at Amar Singh College, Srinagar, India on 12<sup>th</sup> June, 2012.
- vii) **Documenting Biodiversity: An inventory of the Flora of Rajouri and Poonch Districts in the Pir Panjal Himalaya.** 6<sup>th</sup> J & K Science Congress, 2<sup>th</sup> – 4<sup>th</sup> December 2010, University of Kashmir, Srinagar.
- viii) **Medicinal Plants of Ladakh India; A taxonomic overview**”. International Symposium on *Angiosperm Systematics & Phylogeny: Retrospect and Prospects*, Nov. 12<sup>th</sup> -14<sup>th</sup>, 2009. National Botanical Research Institute (CSIR), Lucknow, India
- IX) **A Taxonomic Appraisal of Genus *Salix* L.** in the Kashmir Himalaya International seminar on “*Changing scenario in Angiosperm Systematics*” from 19<sup>th</sup> -21<sup>st</sup> Nov., 2007 at Shiva Jee University, Kolhapur, Maharashtra, India.
- X) **Diversity of Genus *Salix* L. in the Kashmir Himalaya and their Economic Potential**, 3<sup>rd</sup> J&K State Science Congress February 26<sup>th</sup>- 28<sup>th</sup>, 2008 Organized By University of Jammu in Collaborations with J&K State Council for Science & Technology & DST, Govt. of India.

**XI) Floristic Assessment and Economic Utility of the Genus *Salix L.* in Kashmir Himalaya**  
4<sup>th</sup> J&K State Science Congress 12-14<sup>th</sup> November, 2008 organized By University of Kashmir in collaboration with J&K State Council for Science & Technology & DST, Govt. of India.

**XII) *Salix L.* - A Multipurpose Genus in the Kashmir Himalaya.** 2<sup>rd</sup> J&K State Science Congress 25<sup>th</sup>-27<sup>th</sup>July, 2005 organized By University of Kashmir in collaboration with J&K State Council for Science & Technology & DST, Govt. of India.

### **3) Workshops/Refresher Courses Attended.**

**i).Two Weeks ‘Science Academies Refresher Course’ In “Plant Taxonomy –Orthodox and Modern aspects”** from **October 18-31, 2016)** organized by Department of Botany, Yogi Vemana University, Kadapa, Andhra Pradesh, India. Sponsored by Indian Academy of Sciences, Bangalore. Indian National Science Academy, New Delhi and The National Academy of Sciences India, Allahabad.

**iii)Two Weeks Training Programme In Plant Taxonomy** (21-31 Jan., 2008), organized by the Botany Division, Forest Research Institute (FRI), Dehra dun Sponsored by the MoEF,Government of India , New Delhi.

**ii).Survey and population estimation of Hangul** 20<sup>th</sup>-23March2008 Department of wild life J&K in collaboration with Wildlife Institute of India, Dehra Dun,India.

### **4) Popular Articles written.**

**i) Save Tosa-maiden for its Biodiversity. Greater Kashmir** Open edit page 8-9. November 12, 2013.

**ii).Poplars make Kashmir unpopular. Rising Kashmir.** page7.June12, 2013

**iii) Unpopular Poplars. Kashmir Life 2013.** Page 10-11.June23-29.

**iv) Lidder Valley. Greater Kashmir** Open edit page 6-7

**v) Evils of Passive smoking. Gualal** Annual Magazine Vol. XVIII, (2008), PP 75-76, University of Kashmir.

**vi) Ecotourism or Ecoterrorism?** Greater Kashmir open edit page 6-7.

**vii) Small, Smaller, Smallest (Nanotechnology).** Greater Kashmir op-Ed page. 6-7.

### **5) Courses teaching since 2008:**

**(a) M. Sc. Botany**

- I Bot-04 (Plant Taxonomy)
- II Bot-06 (Biodiversity & Conserve. Biol.)
- III Bot-15 (Plant Systematic & Diversity-I)
- IV Bot-20 (Plant Systematic & Diversity-II)
- V Bot-18001OE (Biogeography)
- VI Bot-18001GE (Biological Systematics and Biodiversity)

**(b) M. Sc. Bioresources**

- I Biores-101 (Biodiversity & Bioresources)
- II. Bioresource Management

6) **Research experience.** : **Ten (12) years**

7) **Scholarship Received** : Meritorious Scholarship during Ph. D. Programme for two years by University of Kashmir.

8) **Other relevant research work**

**(i). Environmental Impact Assessment Reports (Floristics Part) in the following Consultancy Projects:**

- a. Muqdoom Sahib Rope Way Project Srinagar, by J & K Govt., India.
- b. Atefaq Cement Factory, Khrew Pulwama by J & K Govt., India.
- c. Master Plan of Phalgham Development Authority by J & K Govt., India.
- d. Power Transmission line along Mughal Road by J & K Govt., India.

**(ii). E-Contents Prepared for undergraduate courses in Botany in collaboration with EMMRC University of Kashmir under UGC Scheme are as:**

- a. Types of Fruits
- b. Herbarium and its role
- c. Taxonomy, Phylogeny and Diversity of Euphorbiaceae
- d. Vegetation types of India
- e. Role of Palynology in Plant Systematics

**(iii) Project Completed:**

A Taxonomic Component of Project entitled “**Biodiversity characterization at Landscape Level in Jammu & Kashmir using Satellite Remote Sensing and Geographic Information System.**” A joint project of “Department of Biotechnology and Department Of Space”. (2011).

**(iv). Other Achievements**

Explored most parts of the Jammu and Kashmir State for floristic studies from last ten years. **Collected about ten thousand plant specimens during these surveys** and deposited them in the Kashmir University Herbarium (KASH) after authenticated identification.

**09) Membership of scientific bodies**

1. Indian Association of Angiosperm Taxonomy (**IAAT**), Calicut, India.
2. Life member of East Himalayan society for Spermatophyte Taxonomy
3. Mountain Invasions Research Network (**MIREN**).
4. Jammu and Kashmir Academy of Science (**JAKAS**), Srinagar, India.
5. Eco-Ethics International Union (**EEIU**).

**9) Extracurricular activities**

1. Working as Assistant Landscape Development officer of University of Kashmir and its campus since 2013.
2. Member of Kashmir University Botanical Garden (KUBG), Department of Botany since 2009.

**10) Subscription to academic/scientific journals:**

- i. Science Reporter.
- ii. Redia
- ii. Down to Earth.
- iii. Biodiversity Conservation letter
- iv. Plant Press.
- v. Biological Letter.
- Vi. Pleione

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