

## FACULTY PROFILE

Dr. Mohammed Latif Khan  
 Professor (Full)  
 Department of Botany  
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Scopus



Web of Science Researcher ID : Q-7641-2019

<b>Name</b>	MOHAMMED LATIF KHAN		Date of Birth: 01-01-1961
<b>Designation</b>	Professor	<b>Date of holding Present Post</b>	31.03.2009
<b>Name of the Department and School</b>	Botany		School of Biological School
<b>Contact Details</b>	Email : <a href="mailto:khanml61@gmail.com">khanml61@gmail.com</a> ; <a href="mailto:khanml@yahoo.com">khanml@yahoo.com</a>		Mobile: +919425613661
<b>Additional Responsibility in the university, if any</b>	<ul style="list-style-type: none"> <li>• <b>Chairperson</b> – University Nodal Centre for Ranking Process, Dr. Harisingh Gour Central University, Sagar, Madhya Pradesh, India (April 2015 till 2018).</li> <li>• <b>Member</b> – Equal Opportunity Cell, Dr. Harisingh Gour Vishwavidyalaya (A Central University), Sagar, Madhya Pradesh, India (November, 2015 to continue).</li> <li>• <b>Director (R &amp; D)</b> - Dr. Harisingh Gour Central University, Sagar, Madhya Pradesh (July, 2013 to April, 2014).</li> <li>• <b>Head</b> - Department of Biotechnology, Dr. Harisingh Gour Vishwavidyalaya (A Central University), Sagar, Madhya Pradesh (July, 2013 to June, 2014).</li> <li>• <b>Head</b>-Department of Botany, Guru Ghasidas Central University, Bilaspur, Chhattisgarh (July, 2011 to Feb., 2012).</li> <li>• <b>Coordinator (Sponsored Research &amp; Industrial Consultancy - SRIC)</b> - North Eastern Reg. Inst. of Sci. &amp; Tech. (NERIST), Nirjuli, Arunachal Pradesh, India (June, 2012 to June, 2013).</li> <li>• <b>Head</b> -Department of Forestry, North Eastern Reg. Inst. of Sci. &amp; Tech. (NERIST), Nirjuli, Arunachal Pradesh, India (November, 2008 to June, 2011).</li> <li>• <b>Head</b> - Department of Forestry, North Eastern Reg. Inst. of Sci. &amp; Tech. (NERIST), Nirjuli, Arunachal Pradesh, India (February- August, 2005).</li> <li>• <b>Chairman of CETC (Controller of Exams.)</b> - North Eastern Reg. Inst. of Sci. &amp; Tech. (NERIST), Nirjuli, Arunachal Pradesh, India (2001-2004).</li> <li>• <b>Deputy Chairman of CETC (Dy. Controller of Exams.)</b> - North Eastern Reg. Inst. of Sci. &amp; Tech. (NERIST), Nirjuli, Arunachal Pradesh, India (2000-2001).</li> <li>• <b>Warden</b> Boys hostel for more than three years</li> <li>• <b>Member</b> of Entrance Examination of the Institute for two years</li> </ul>		
<b>Educational Qualifications (UG onwards)</b>	<ul style="list-style-type: none"> <li>• <b>B. Sc.</b> (Biology), Kanpur University, Kanpur, India, 1980.</li> <li>• <b>M. Sc.</b> (Botany), Kanpur University, Kanpur, India, 1982.</li> <li>• <b>Pre-Ph. D./M. Phil.</b> (Ecology/Botany), North Eastern Hill University, Shillong, India, 1985.</li> <li>• <b>Ph. D.</b> (Ecology/Botany), North Eastern Hill University, Shillong, India, 1987.</li> </ul>		
<b>Research Area/ Specialization</b>	<p><b>I. Conservation of Biological Diversity</b></p> <ul style="list-style-type: none"> <li>• Mapping at landscape level</li> <li>• Sacred Groves</li> <li>• Endangered/Threatened/Rare species</li> <li>• Keystone Species</li> <li>• Phylogeny and genetic diversity</li> </ul> <p><b>II. Ecosystem</b></p> <ul style="list-style-type: none"> <li>• Ecosystem services</li> <li>• Carbon sequestration Restoration</li> <li>• Tree Regeneration</li> </ul>		

	<ul style="list-style-type: none"> <li>• Seed and Seedling Biology</li> </ul> <b>III. GIS &amp; Remote Sensing</b> <ul style="list-style-type: none"> <li>• Land use and land cover changes</li> <li>• Ecological niche modeling</li> </ul>
<b>Awards/ Honors/ Fellowship Conferred (With details thereof)</b>	<b>Fellowship</b> <ul style="list-style-type: none"> <li>• Fellow of National Academy of Agricultural Sciences, New Delhi</li> <li>• Fellow of National Environmental Science Academy, New Delhi</li> <li>• Fellow of International Society for Environmental Botanists</li> <li>• Fellow of National Institute of Ecology, New Delhi</li> <li>• Fellow of International Society for Tropical Ecology, Varanasi</li> <li>• Fellow of Range Management Society of India, Jhansi</li> </ul> <b>Awards</b> <ul style="list-style-type: none"> <li>• Conferred <i>Nanda Memorial Award for Young Scientist</i> for 1995 by the Indian Society for Tree Scientists, Solan, Himachal Pradesh, India.</li> </ul> <b>Professional Associations:</b> <ul style="list-style-type: none"> <li>• Member of Expert Committee of DBT Task Force (2017- 2020)</li> <li>• Vice President National Institute of Ecology, India.</li> <li>• Member of Global Forest Biodiversity Initiatives (USA)</li> <li>• Member of IUCN Commission on Ecosystem Management</li> <li>• Executive Council Member of Society for Science of Climate Change and Sustainable Environment (SSCE), Lucknow.</li> <li>• Editorial Member of the Journal of Climate Change and Sustainable Environment.</li> <li>• Councilor, Rangeland Management Society of India.</li> <li>• Councilor, National Institute of Ecology, India.</li> <li>• Editor, Indian Journal of Agroforestry.</li> <li>• On the editorial board of Scientific World Journal (Ecology section), UK.</li> <li>• On the Editorial Board of the Journal "<i>Nature and Environment</i>".</li> </ul>

<b>Summary of Publications (No. only)</b>	Research Papers	<b>173</b>	Books	<b>2</b>	Chapter in Books	<b>36</b>	Sem./ Conf. Proc.	<b>13</b>	Projects	<b>36</b>
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**Best Five Research Papers:**

Sl. No.	Author(s), year, title, name of the journal, vol. no., page no.	Impact Factor
1.	Steidinger B. S., ..... <b>Khan M. L.</b> (181 authors) (2019). Climatic controls of decomposition drive the global biogeography of forest tree symbioses, <b>Nature</b> 569 (7756) 16 May: 404-408. <a href="https://doi.org/10.1038/s41586-019-1128-0">https://doi.org/10.1038/s41586-019-1128-0</a> .	43.07
2.	Constantin Z. .... <b>Khan M. L.</b> (et al.) 2020. Phenological responses of temperate and boreal trees to warming depend on ambient spring temperatures, leaf habit and geographic range; <b>Proceeding of National Academy of Science (PNAS, USA)</b> (in press).	9.50
3.	Verma S., Dar J. A., Malasiya D., Khare P. K., Selvadurai Dayanandan S. and <b>Khan M. L.</b> 2018. A MODIS-based spatiotemporal assessment of agricultural residue burning in Madhya Pradesh, India. <b>Ecological Indicators</b> . <a href="https://doi.org/10.1016/j.ecolind.2018.04.042">https://doi.org/10.1016/j.ecolind.2018.04.042</a> (online published),	4.49
4.	Behera M. D., Tripathi P., Das P., Srivastava S. K., Roy P. S., Joshi C., Behera P. R., Deka J., Kumar P., <b>Khan M. L.</b> , Tripathi O. P., Dash T. & Krishnamurthy Y. V. N. 2018. Remote sensing based Deforestation analysis in Maha Nadi and Brahmaputra River Basin in India since 1985, <b>Journal of Environmental Management</b> , 206 1192e1203.doi: 10.1016/j.jenvman.2017.10.015.	4.87
5.	Menon S., Pontius J.R. Gil, Rose J., <b>Khan M.L.</b> and Bawa K.S. 2001. Identifying conservation priority areas in the tropics: A land-use change modeling approach, <b>Conservation Biology</b> 15(2): 501-512. <a href="https://doi.org/10.1046/j.1523-1739.2001.015002501.x">https://doi.org/10.1046/j.1523-1739.2001.015002501.x</a>	6.20

**Research Project (Complete and ongoing)**

S. No.	Title	Funding Agency	Duration	Sanction order No. & Date	Amount in Rs. Lakh	Complete/ongoing
1.	Mapping and Quantitative Assessment of Plant Resources and its Distribution in Madhya Pradesh, Central India. <b>Coordinator &amp; Principal Investigator</b>	DBT New Delhi	4 years	No.BT/PR12899/ NDB/39/506/201 5, Dt. 20-6-.17	212.26	Ongoing
2.	Monitoring spatio-temporal dynamics of Above Ground Biomass in forests ecosystems using Airborne L & S band SAR images. <b>Co- Principal Investigator</b>	ISRO	3 years	Ref.EPSA/3.1. 1/2017, Dt:13.11.2017	24.30	Ongoing
3.	Monitoring and phenological assessment of invasive plant species using airborne visible/infrared imaging spectrometer – next generation (AVIRIS – NG) and Sentinel-1 SAR images. <b>Co-Principal Investigator</b>	ISRO	3 years	Ref.EPSA/4.1.1 /2017, Dt:19.12.2017	20.50	Ongoing
4.	A study on potential and effects of <i>Gliricidium sepium</i> as an invasive tree.(National Post-Doctoral Fellowship awarded to Dr. Devika Bajpai), <b>Mentor</b>	DST- SERB	2 years	F. No.PDF/2016/ 000652, Dated: 21.9.2016	19.20	Completed
5.	Exploration and conservation of ecologically and economically important threatened plant species occurred in sacred groves of Assam. <b>Co- Principal Investigator</b>	GBPIHED - MoEF &CC	3 years	No. GBPI/IERP/ 10-11/11/109, Dated: 29.8.2014	9.96	Completed
6.	Assessing the carbon sequestration potential of different forest types in Central India in response to climate change. (National Post-Doctoral Fellowship awarded to Javid Ahmad Dar), <b>Mentor</b>	DST- SERB	2 years	F.No.PDF/2015 /000447, Dated: 15.7.2016	19.20	Completed
7.	A study on reproduction potential of invasive tree <i>Gliricidia sepium</i> in relation to its invasion success. (Post-Doctoral Fellowship for Women awarded to Devika Bajpai), <b>Mentor</b>	UGC, New Delhi	5 years	No.F.15/2015- 17/PDFWM- 2015-17-MAD- 30802 (SA-II), Dt:12.10.2015	28.55	Completed
8.	Effect of <i>Lantana camara</i> on Carbon Sequestration and CO <sub>2</sub> Efflux of Different Forest Types in Central India. (Dr. D.S. Kothari Postdoctoral Fellowship awarded to Bilal Ahmad Wani), <b>Mentor</b>	UGC, New Delhi	3 years	No.F.4-2/2006 (BSR)/BL/16- 17/0164, Dated: 14-12-2016	24.00	Completed
9.	All India Coordinated project on Sacred Grove Ecosystem Service Assessment of Madhya Pradesh. <b>Co- Principal Investigator</b>	MoEF New Delhi, Govt. of India	5 years	(No.22/13/2011- (sg)/RE, Dated: 28.3.2012	39.84	Completed
10.	Inventory, biodiversity value, status and strategies for conservation of sacred groves of central India. <b>Principal Investigator</b>	CSIR, New Delhi	3 years	(38(1318)/12/ EMR-II, Dated: 3.4.2012	11.29	Completed
11.	Studies on ecosystem dynamics of disturbed & undisturbed tropical rain forests of Arunachal Pradesh. <b>Co-Principal Investigator</b>	MoEF & CC, New Delhi	3 years	(No.14/26/98- ERS/RE, Dated: 4.3.2015	16.00	Completed
12.	Cultural Landscape: Linking biodiversity conservation with sustainable development in Arunachal Pradesh. <b>Co-Principal Investigator</b>	UNESCO/ MA Found. USA	4 years	FC003095, Dated: 25.7.2012	19.19	Completed
13.	Exploration of microbial diversity and microbial role in arsenic mobilization in contaminated ground water of North Eastern states (Arunachal Pradesh & Assam). <b>Co-Principal Investigator</b>	DBT, New Delhi	3 years	BT/19/NE/TBP/ 2010, Dt.:25.2.11	68.28	Completed
14.	Monitoring of developmental activities of Wildlife Sanctuaries and National Parks. <b>Principal Investigator</b>	Govt. of A P (Wildlife & Bio- Diver.)	1 year	(No.CWL/D/21(7 8)/2011/189-91, Dated: 7-4-2011	6.78	Completed
15.	Modernization of Plant Biotechnology & Biochemistry Laboratory. <b>Principal Investigator</b>	AICTE, New Delhi	1 year	(F. No. 8024/ RIFD/MOD (NER)-64/ 2010-11, Dated: 3-3-2011	7.00	Completed
16.	Isolation, characterization and identification of natural pigments of food and industrial values from filamentous fungi. <b>Co-Principal Investigator</b>	DBT, New Delhi	3 years	BT/22/NE/TBP/ 2010, Dated: 16.3.2011	56.76	Completed

17.	Study on species diversity of <i>Primula</i> in eastern Himalayan region, India. <b>Principal Investigator</b>	John D. & C. T. MacArth. Foundatio n, USA	2 years	(Through ATREE, Bangalore; ATREE-SGRNE/MAF/0, Dated: 20.8.2010	10.00	Completed
18.	Spatial and temporal changes in Land-use/Land cover of Dehang Debang Biosphere Reserve of Arunachal Pradesh and its effect on plant diversity and population dynamics of important tree species. <b>Principal Investigator</b>	MoEF & CC, New Delhi	3 years	8/04/07-CS/BR/53, Dated: 01-02-2010	19.66	Completed
19.	Establishment of State Biotech Hubs (SBT hubs) by DBT under special programme for North Eastern States of India. <b>Principal Investigator</b>	DBT, New Delhi	3 years	N.BT/04/NE/2009, Dated: 22-12-2010	150.00	Completed
20.	Expansion of infrastructure in plant microbe interaction & Biotechnology Laboratory. <b>Principal Investigator</b>	AICTE, New Delhi	01 year	F.No. 8024/RID/BOR/MOD-311/2008-09, Dated: 30.3.2009	13.00	Completed
21.	Conservation and reintroduction of rare, endemic and endangered rhododendron species in the Indian Eastern Himalayas. <b>Co-Principal Investigator</b>	The American Rhod. Soc., USA	02 years.	Am. Rhod.Soc. Res. Comm. CCC 9/15/09, Dated:30.7.2009	06.00	Completed
22.	Land use and land cover dynamics and impact of human dimension in Brahmaputra river basin. <b>Principal Investigator</b>	NRSC (ISRO), Hyderabad	02 years	ISRO-GBP LULC, Dated: 31.3.2009	12.00	Completed
23.	Mapping of population status and conservation strategies of <i>Taxus wallichiana</i> Zucc. and <i>Illicium griffithii</i> Hook. – two threatened medicinal tree species in Arunachal Pradesh. <b>Principal Investigator</b>	CSIR, New Delhi	03 years.	38 (1187)/08/EMR-II, Dated: 25.2.2008	14.00	Completed
24.	Inventory of biodiversity in agricultural landscapes, economic uses and conservation for sustainable development in Eastern Himalayan region of Arunachal Pradesh. <b>Co-Principal Investigator</b>	DST, New Delhi	02 years	No. SP/TSP/011/2008, Dated: 15.6.2008	19.00	Completed
25.	Rodent control and Ecological analysis of the impact of bamboo flowering in Arunachal Pradesh and Mizoram of Northeast India. <b>Co-Principal Investigator</b>	DST, New Delhi	02 years	ST(Ar.Pr.)/LSR/2 K7/544, Dated: 23.7.2008	24.00	Completed
26.	Biomass and Carbon Assessment in India. <b>Principal Investigator</b>	IIRS, Dehra Dun	02 years	IIRS:FED:VCP/8, Dated: 8.6.2008	10.00	Completed
27.	Establishment of biotech-hub at NERIST. <b>Principal Investigator</b>	DBT, New Delhi	01 year.	D.O.BT/BI/04/055/2001, Dated: 14.2.2008	20.00	Completed
28.	State of Environment (SOE) Report of Arunachal Pradesh. <b>Co-Principal Investigator</b>	MoEF &CC, New Delhi	01 year	8/6/2007-EI, Dated: 28.3.2008	5.80	Completed
29.	Web GIS based digital atlas of the sacred groves of the north-east India: pilot study with sacred groves of Arunachal Pradesh. <b>Principal Investigator</b>	DSIR (DST), New Delhi	02 years	DSIR/Web/TIF026/2004-2005, Dated: 31-12-2004	5.80	Completed
30.	Evaluation of regeneration behavior of selected endangered/threatened tree species in disturbed and undisturbed tropical rain forests of Arunachal Pradesh. <b>Principal Investigator</b>	DST, New Delhi	03 years	SR/SO/PS-16/2002, Dated: 11-06-2004	15.00	Completed
31.	Studies on exploration, population status and conservation of Rhododendrons – keystone species in Arunachal Pradesh. <b>Principal Investigator</b>	CSIR, New Delhi	03 years	1052/02/EMR-II, Dated: 20-2-2002	8.28	Completed
32.	Exploration of germplasm of bamboos and canes in North Eastern India. <b>Principal Investigator</b>	ICAR (NATP), New Delhi	04 years	NBPGR/NATP/B D/20032388, Dated: 23.1.2002	10.28	Completed
33.	Plant population dynamics under varied perturbation regimes and in forest successional environment, i.e., biodiversity fluxes and dynamics over space and time. <b>Co-Principal Investigator</b>	UNESCO MacArthur Foundatio n, USA	3 years	F.No.PS(AF)/NRM/2010/2, Dated:23.7.2002	16.00	Completed
34.	Inventory, biodiversity value, status and strategies for conservation of sacred groves of Manipur. <b>Principal Investigator</b>	GBPIHED , Almora	03 years	GBPI/IERP/98-99/17/409, Dated: 29-02--	5.30	Completed

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35.	Strengthen the existing Botanical Garden at NERIST. <b>Co-Principal Investigator</b>	MoEF & CC, New Delhi	01 year	F.No.13/26/97-CS/BG, Dated: 5.3-1998	3.20	Completed
36.	Seed dispersal, germination and fitness of seedlings of Rudraksh ( <i>Elaeocarpus ganitrus</i> ). <b>Principal Investigator</b>	DST New Delhi	03 years	F.No. SP/SO/C-04/94, Dated: 6.12.1996	9.00	Completed

#### Research Projects Approved/submitted

1.	'Soil processes in forests and grasslands' under Indian Long Term Ecological Observatories (LETO) Programme for Climate Change" by has been approved. <b>Principal Investigator for Central India.</b>	MoEFCC under the coordinator ship of IISC (Centre for Ecological Studies), Bangalore	3 years	Approved	40.0 Crores Budget distribution has to done to different institutions	Yet to start
2.	Bioprospecting of Rhizosphere Microflora in Mangrove Forests of Western Coast of Maharashtra for Mitigation of Climate Change: A Biochemical and Molecular Approach. <b>Co-Investigator</b>	DBT, New Delhi (under Forest Biotechnology theme)	3 years	Submitted	28.41	Submitted
3.	Quantifying depositional fluxes of mercury from forests to soil in different ecoregions of India. <b>Principal Investigator for Central India</b>	DST-SERB, New Delhi under the Coordinator ship of IIT, Hyderabad	4 years	Submitted	8.93Crores 1.08 Crores for Central India	Submitted

#### PUBLICATIONS:

##### Research papers accepted/published

Year	Sl. No.	Title	Impact Factor	National / International
2020	1.	Jingjing L. .... <b>Khan M. L.</b> (et al.) 2020. Global Tree Species Diversity in the Anthropocene; <i>Science</i> (under revision).	41.3	International
	2.	Subashree K., Dar J., Sundarapandian S., Dayanandan S., <b>Khan M. L.</b> 2020. Ecosystem-level carbon stock assessment in tropical forests of Western Ghats, India: relationship with diversity and structural attributes; <i>Scientific Reports</i> (under revision).	4.21	International
	3.	KumarA., KumarA., AdhikariD., RavikanthG., P. SaikiaP. and <b>KhanM.L.</b> 2020. Ecological Niche Modelling for Assessing Potential Distribution of <i>Pterocarpus marsupium</i> Roxb. in Ranchi, Eastern India; <i>Ecological Research</i> (under revision).	1.55	International
	4.	RajpootR., AdhikariD., VermaS., Saikia P., Kumar A., Kyle Raymond GrantK. R., DayanandanA., Kumar A., KhareP. K. and <b>KhanM. L.</b> 2020. Dataset associated with Climate models prediction of <i>Boswellia serrata</i> Roxb., a medicinal tree in India; <i>Data in Brief</i> (under revision).	0.9	International
	5.	Constantin Z. .... <b>Khan M. L.</b> (et al.) 2020. Phenological responses of temperate and boreal trees to warming depend on ambient spring temperatures, leaf habit and geographic range; <i>Proceeding of National Academy of Science</i> (PNAS, USA) (in press).	9.5	International
	6.	RajpootR., AdhikariD., VermaS., Saikia P., Kumar A., Kyle Raymond GrantK. R., DayanandanA., Kumar A., KhareP. K. and <b>KhanM. L.</b> 2020. Climate models predict a divergent future for the medicinal tree <i>Boswellia serrata</i> Roxb. in India; <i>Global Ecology and Conservation</i> , 23 (2020) e01040, <a href="https://doi.org/10.1016/j.gecco.2020.e01040">https://doi.org/10.1016/j.gecco.2020.e01040</a> .	2.9	International
	7.	Pramanik B., Shrivastava K., Singh S. S., <b>Khan M. L.</b> and Priyabal Y. (2020). Identification and characterization of arsenic tolerant filamentous fungi from groundwater, <i>Journal of Mycology and Plant Pathology</i> (in press).		National
	8.	Shrivastava K., Pramanik B., Singh S. S. and <b>Khan M. L.</b> (2020). Enhanced arsenic removal from aqueous medium by arsenic tolerant groundwater fungi. <i>Journal of Environmental Biology</i> 41: 186-194.	0.640	International
	9.	Lal P., Prakash A., Kumar A., Srivastava P. K., Saikia P., Pandey A.C., Srivastava P. & <b>KhanM. L.</b> (2020) Evaluating the 2018 extreme flood hazard events in Kerala, India, <i>Remote Sensing Letters</i> , 11:5, 436-445, DOI: 10.1080/2150704X.2020.1730468. ISSN: 2150-704X (Print) 2150-7058 (Online) <a href="https://www.tandfonline.com/loi/trsl20">https://www.tandfonline.com/loi/trsl20</a> .	2.024	International
	10.	Raha D., Dar J. A., Pandey P. K., Lone P. A., Verma S., Khare P. K. & <b>Khan M. L.</b> (2020): Variation in tree biomass and carbon stocks in three tropical dry deciduous forest types of Madhya Pradesh, India, <i>Carbon Management</i> , <a href="https://doi.org/10.1080/17583004.2020.1712181">https://doi.org/10.1080/17583004.2020.1712181</a> .ISSN: 1758-3004 (Print) 1758-3012 (Online) Journal homepage: <a href="https://www.tandfonline.com/loi/tcmt20">https://www.tandfonline.com/loi/tcmt20</a> .	1.463	International

2019	11	Dar J. A., Subashree K., Raha D., Kumar A., Khare P. K. & <b>Khan M. L.</b> (2019). Tree diversity, biomass and carbon storage in sacred groves of Central India, <i>Environmental Science and Pollution Research</i> 26:37212–37227, <a href="https://doi.org/10.1007/s11356-019-06854-9">https://doi.org/10.1007/s11356-019-06854-9</a> .	2.914	International
	12	Behera M. D., Reddy C. S. & <b>Khan M. L.</b> (2019). Advances in terrestrial and ocean dynamics studies in India. <i>Environmental Monitoring and Assessment</i> , 191(Suppl 3): 811, <a href="https://doi.org/10.1007/s10661-019-7981-3">https://doi.org/10.1007/s10661-019-7981-3</a> .	1.959	International
	13	Steidinger B. S., <b>Khan M. L.</b> (181 authors) (2019). Climatic controls of decomposition drive the global biogeography of forest tree symbioses, <i>Nature</i> 569 (7756) 16 May: 404-408. <a href="https://doi.org/10.1038/s41586-019-1128-0">https://doi.org/10.1038/s41586-019-1128-0</a> .	43.07	International
	14	Deka J., Tripathi O. P., <b>Khan M. L.</b> and Srivastava V. K. (2019). Study on land-use and land-cover change dynamics in eastern Arunachal Pradesh, N.E. India using remote sensing and GIS, <i>Tropical Ecology</i> , 60:199–208 <a href="https://doi.org/10.1007/s42965-019-00022-3">https://doi.org/10.1007/s42965-019-00022-3</a>	0.647	International
	15	Ray Tapas, Verma S., Malasiya D., Dar J. A., Dayanandan A., Khare P. K. and <b>Khan M. L.</b> 2019. Estimation of greenhouse gas emissions from vegetation fires in Central India. <i>Climate Change and Environmental Sustainability</i> 2019, 7(1):32-38, DOI: 10.5958/2320-642X.2019.00005.X.		National
	16	Deka J., Kalita S. and <b>Khan M. L.</b> (2019). Vegetation phenological characterization of alluvial plain <i>Shorea robusta</i> -dominated tropical moist deciduous forest of Northeast India Using MODIS NDVI Time Series Data. <i>Journal of the Indian Society of Remote Sensing</i> <a href="https://doi.org/10.1007/s12524-019-00991-x">https://doi.org/10.1007/s12524-019-00991-x</a> .	0.869	International
	17	Dubey A., Malla M. A., Khan F., Chowdhary K., Yadav S., Kumar A., Sharma S., Khare P. K., and <b>Khan M. L.</b> (2019). Soil microbiome: A key player for conservation of soil health under changing climate. <i>Biodiversity &amp; Conservation</i> , Volume 28, <a href="https://doi.org/10.1007/s10531-019-01760-5">Issue 8–9</a> , pp 2405–2429; <a href="https://doi.org/10.1007/s10531-019-01760-5">https://doi.org/10.1007/s10531-019-01760-5</a> .	3.142	International
	18	Saikia P., Deka J. S. Bharali S., Kumar A., Tripathi O. P., Singha L. B., Chandra S. P. Bodi K. and <b>Khan M. L.</b> (2019). Tree Diversity Assessment and Above Ground Forests Biomass Estimation using SAR Remote Sensing: A case study of Higher Altitude Vegetation of North-East Himalayas, India, <i>Physics and Chemistry of the Earth</i> , 111: 53–64, <a href="https://doi.org/10.1016/j.pce.2019.03.007">https://doi.org/10.1016/j.pce.2019.03.007</a> .	1.968	International
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#### Articles in Book Chapters, Conference Proceedings etc.

Year	Sl. No.	Title	National/ International
2020		• Dubey A., Kumar A. and <b>Khan M. L.</b> 2020. Role of biostimulants for enhancing abiotic stress tolerance in Fabaceae plants' In: The Plant Family Fabaceae - Biology and Physiological Responses to Environmental Stresses Editors: Mirza Hasanuzzaman, Susana Araujo and Sarvajeet Singh Gill, Publisher: Springer Nature, Singapore (accepted).	International
		• Diksha, Kumar A., Pandey A. C., and <b>Khan M. L.</b> 2020. Urban Risk and Resilience to Climate Change and Natural Hazards: A Perspective from a Million-Plus Cities from the Indian Subcontinent; Techniques for Disaster Risk Management and Mitigation, Geophysical Monograph 244. First Edition. Edited by Prashant K. Srivastava, Sudhir Kumar Singh, U. C. Mohanty, and Tad Murty. © 2019 American Geophysical Union. Published 2019 by John Wiley & Sons, Inc. (in press)	International
		• Purabi Saikia P. Nag A., Kumari R., Amit KumarA., and <b>KhanM. L.</b> "Forests Degradation Prevention through Nature Based Solution: An Indian Perspective" John Wiley & Sons Ltd, UK has agreed to publish a book entitled <b>Handbook of Ecological and Ecosystem Engineering</b> , Editor - M.N.V. Prasad (Accepted)	International
		• SaikiaP., Nag A., AnuragS., Sandeep Chatterjee S., and <b>KhanM. L.</b> 2020.Tropical Legumes of India: Status, Distribution, Biology and Importance' In: The Plant Family Fabaceae - Biology and Physiological Responses to Environmental Stresses Editors: Mirza Hasanuzzaman, Susana Araujo and Sarvajeet Singh Gill, Publisher: Springer Nature, Singapore (accepted).	International
		• Saikia P., Kumar A., Diksha, Lal P., Nikita and <b>KhanM. L.</b> 2020.Ecosystem-based adaptation to climate change and disaster risk reduction in Eastern Himalayan forests of Arunachal Pradesh, Northeast India. In "Nature based Solutions for Resilient Ecosystems and Societies", edited by Dr. Shalini Dhyani, Dr. Anil Kumar Gupta and Dr. Madhav Karki under the Springer Book Series Disaster Resilience and Green Growth (accepted).	International
		• <b>KhanM. L.</b> , Rima Kumari R., Lal P., Kumar A., Mashkoor Ahmad Quadri M. A.and P. Saikia P. 2020. Changing Land Use in East and North-East India; ICHR's Special Project on 'Environmental History of India' in Volume 2 - Forests and Wildlife (accepted)	National
		• Dar J. A., Subashree K., Bhat N. A., Sundarapandian S., Xu M., Saikia P., Kumar A., Kumar A., Khare P. K. and <b>KhanM. L.</b> , 2020. Role of Major Forest Biomes in Climate Change Mitigation: An Eco-Biological Perspective © Springer Nature Switzerland AG 2020 N. Roy et al. (eds.), Socio-economic and Eco-biological Dimensions in Resource use and Conservation, Environmental Science and Engineering, <a href="https://doi.org/10.1007/978-3-030-32463-6_24">https://doi.org/10.1007/978-3-030-32463-6_24</a> ; pp. 483-526.	International
		• Kumar G., Kumari R., Kishore B. S. P. C, Saikia P., Kumar A. and <b>KhanM. L.</b> , 2020 Climate Change Impacts and Implications: An Indian Perspective; In: Socio-economic and Eco-biological Dimensions in Resource use and Conservation Strategies for Sustainability; © Springer Nature Switzerland AG 2020 N. Roy et al. (eds.), Socio-economic and Eco-biological Dimensions in Resource use and Conservation, Environmental Science and Engineering, <a href="https://doi.org/10.1007/978-3-030-32463-6_2">https://doi.org/10.1007/978-3-030-32463-6_2</a> ; pp.11-30.	International
2019		• Dar A., Subashree K., Sundarapandian S., Saikia P., Kumar A., Khare P. K. , Dayanandan S. and <b>KhanM. L.</b> , 2019. Invasive Species and Their Impact on Tropical Forests of Central India: A Review; © Springer Nature Singapore Pte Ltd. 2019 S. C. Garkoti et al. (eds.), Tropical Ecosystems: Structure, Functions and Challenges in the Face of Global Change, <a href="https://doi.org/10.1007/978-981-13-8249-9_5">https://doi.org/10.1007/978-981-13-8249-9_5</a>	International
		• Kumari R., Banerjee A., Kumar R., Kumar A., Saikia P. and <b>KhanM. L.</b> , 2019. Deforestation in India: Consequences and Sustainable Solutions; © 2019 The Author(s). Licensee IntechOpen; DOI: <a href="http://dx.doi.org/10.5772/intechopen.85804">http://dx.doi.org/10.5772/intechopen.85804</a> ; pp.1-18.	International
2018		• Saikia P. and <b>Khan M. L.</b> 2018. Floristic diversity of Northeast India and its Conservation Initiatives. In: <i>Plant Diversity in the Himalaya Hotspot Region</i> ; A.P. Das and S. Bera (eds.), M/S Bishen Singh and Mahendra Pal Singh, Dehradun, India Vol. II © 2018, pp. 985-998. ISBN: 978-81-211-0985-7.	National
2017		• Saikia P., Kumar A. and <b>Khan M. L.</b> 2017.Agroforestry: A Sustainable Landuse System for Livelihood Security and Climate Change Mitigation. In: Climate Change and Agroforestry; C.B. Pandey, Mahesh Kumar Gaur and R.K Goyal (eds.), New Delhi Publishing Agency, New Delhi India. Pp. 61-70.	National
		• Wani B A., <b>Khan M. L.</b> and Ganie B. A. 2017. Free Radical Scavenging Potential and Anticancer Activity of	International

		<i>Primula denticulate</i> Sm. From North-Western Himalayas. In: Biotechnology for Sustainability (Achievements, Challenges, and Perspectives); ISBN 978-967-14475-2-9, Pp. 512-524.	
2016	•	Saikia P., Kumar A. and <b>Khan M. L.</b> 2016. Biodiversity status and climate change scenario in Northeast India. In: <i>Climate Change Challenge (3C) and Social-Economic-Ecological Interface-Building</i> ; S. Nautiyal, R. Schaldach, K.V. Raju, H. Kaechele, B.I Pritchard and K.S. Rao (eds.), <i>Springer International Publishing</i> , Switzerland. DOI 10.1007/978-3-319-31014-5_8. Pp. 107-120.	International
	•	Paul A., <b>Khan M. L.</b> and Das A. K. 2016. Western Arunachal Pradesh, Centre of Rhododendrons: Needs Urgent Conservation. In: <i>Biodiversity and Environmental Conservation</i> (ed. Krishna Upadhaya), Discovery Publishing House pvt. Ltd. ISBN 978-93-5056-775-3pp.185-201.	National
	•	Bhuyan S. I., Tripathi O. P. and <b>Khan M. L.</b> 2016. Agricultural systems and Rural development: An overview of Arunachal Pradesh, Eastern Himalaya. Concept Publishing Company, New Delhi.	National
2015	•	Bhuyan S. I., Laskar I., Tripathi O. P. and <b>Khan M. L.</b> 2015. Assessment of traditional soil fertility management practices among indigenous people: a study in Eastern Himalaya. In <i>Advances in Plant Research</i> , published by EBH Publishers (India) (eds. S. I. Bhuyan and Sony Kumari), pp. 189-201. ISBN: 978-93-83252-61-9.	National
2013	•	Kalita J., Singh S.S., <b>Khan M. L.</b> and Gajurel P. 2013. <i>Clerodendrum viscosum</i> Vent.- A medicinal weed of North East India In: <i>Recent Advances in Natural Products Research</i> , 52-56.	National
	•	Dutta J., Muang O., Balasubramaniam D., Wann F.M., Pangging G. and <b>Khan M. L.</b> 2013. The 'Tani' mega-cultural landscape, In: P. S. Ramakrishnan, K. G. Saxena, K. S. Rao, & G. Sharma. (eds). Cultural landscapes, The basis for linking biodiversity conservation with the sustainable development. UNESCO, New Delhi	International
	•	Pangging G., Dutta J., Balasubramaniam D., Muang O., Arunachalam A. and <b>Khan M. L.</b> 2013. Ziro Valley and the surrounding Hills: A Mega-cultural landscape. In: P. S. Ramakrishnan, K. G. Saxena, K. S. Rao, & G. Sharma (eds.). Cultural landscapes, The basis for linking biodiversity conservation with the sustainable development. UNESCO, New Delhi	International
2012	•	Tripathi R.S., <b>Khan M. L.</b> and Yadav A.S. 2012. Biology of <i>Mikania micrantha</i> H.B.K. – a review. <i>Invasive Alien Plants: An Ecological Appraisal for the Indian Subcontinent</i> Editors: <b>Bhatt, J.R., Singh, J.S., Singh, S.P., Tripathi, R.S., Kohli, R.K.</b> CAB International, UK, 99-107.	International
	•	Bhuyan S. I., Tripathi O. P. and <b>Khan M. L.</b> Yumnam J. Y. and Mondal J. 2012. A survey of traditional crop species diversity and its conservation in jhum fields among "Adi" tribe of Boleng area in East Siang of Arunachal Pradesh. In B. K. Dutta, P. Choudhury and A. J. Nath (eds.). Biodiversity Researches in North-East India. Published by Assam University, Silchar, Assam.	National
2010	•	Barbhuiya A.R., <b>Khan M. L.</b> , Arunachalam A., Prabhu S.D. and Chavan V. 2010. Sacred groves: informal protected areas in the high altitudes of Eastern Himalaya, Arunachal Pradesh, Northeast India: traditional beliefs, biodiversity and conservation. <i>National Parks, Biodiversity, Conservation and Tourism</i> Editor: F. Columbus. Nova Science Publisher, Inc., Hauppauge, NY. Angus O' Relily and Doran Murphy (Eds.). 131-146.	International
2009	•	Saikia P. and <b>Khan M. L.</b> 2009. Conservation and diversity of medicinal plant in homegardens of Teok area of Jorhat district, Assam. In: <i>Proceedings of national seminar on Agroforestry for Socioeconomic Development of North Eastern Region</i> . B. Singh, P. Rethy & P. R. Gajurel (eds.). Dept of Forestry, NERIST (Deemed Univ.), Arunachal Pradesh. pp. 152-161.	National
2006	•	<b>Khan M. L.</b> and Kh. Ashalata, Devi. 2006. Conserving biodiversity in sacred groves through traditional beliefs with special reference to Manipur, north-east India. In: <i>Proceedings "Ecology, Diversity and Conservation of Plants and Ecosystems in India"</i> . H.N. Pandey and S.K. Barik (eds). Regency Publications, New Delhi pp. 414-436.	National
	•	Adhikari D., Sharma R., Arunachalam A., Melkania U., <b>Khan M. L.</b> , Upadhaya N., Pant R.M. and Tapasvi S. 2006. Secondary Forests and Socio-economics of Communities living around Namdapha National Park, Arunachal Pradesh. <i>Shifting Agriculture and Sustainable Development of North-Eastern India: Tradition in Transition</i> Editors: P.S. Ramakrishnan, K.G. Saxena and K.S. Rao Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi. pp. 239-276.	National
2004	•	Arunachalam A., Arunachalam K. and <b>Khan M. L.</b> 2004. Significance of sacred Groves in sustainable development of North-East India. <i>Challenges in Sustainable Development</i> P.K. Singhal and P. Shrivastava (eds). Anmol Publications Pvt. Ltd., New Delhi.	National
	•	Arunachalam A., Arunachalam K. and <b>Khan M. L.</b> 2004. Meghalayan forests and sustainable development. pp. 338-353. <i>Challenges in Sustainable Development</i> P.K. Singhal and P. Shrivastava (eds).Anmol Publications Pvt. Ltd., New Delhi.	National
2003	•	Nath P.C., Barbhuiya A.R., Arunachalam A., <b>Khan M. L.</b> and Arunachalam K. 2003. Status of biodiversity in Joypur reserve forest and its conservation strategies. In: <i>Proceedings on Biodiversity Conservation Vis-à-vis Sustainable Development</i> . pp. 84-87.	National
	•	Barbhuiya A.R., Nath P.C., Arunachalam A., <b>Khan M. L.</b> and Arunachalam K. 2003. Biodiversity and strategies for plant germplasm conservation in Assam. In: <i>Proceedings on Biodiversity Conservation Vis-à-vis Sustainable Development</i> . pp. 76-79.	National
	•	<b>Khan M. L.</b> and Arunachalam A. 2003. Traditional agroforestry as a viable choice to conserve agro-biodiversity in the northeast India. In: <i>Proceedings Agroforestry - Potential and Opportunities</i> ". P.S. Pathak and R. Newaj (eds.), Published by AGROBIOS, Jodhpur pp. 95-106.	National
2002	•	Upadhaya K., Arunachalam A. and <b>Khan M. L.</b> 2002. Designing proper agroforestry models for Arunachal: Scope & Challenges. (2002), In: <i>Proceedings of the National Workshop on Arunachal Pradesh: Environmental Planning &amp; Sustainable Development</i> , HIMAVIKAS Occasional Publication No. 16, Editors R. C. Sudriyal, Uma Shankar & T. C. Upreti. pp. 349-355.	National
2001	•	Bhuyan P., <b>Khan M. L.</b> and Tripathi R.S. 2001. Tree diversity and population structure in disturbed and	International

		humanimpacted tropical wet evergreen forests of Arunachal Pradesh, North East India. <i>In: Proceedings of the International Conference on Tropical Ecosystems. Tropical Ecosystem: Structure, Diversity and Human Welfare.</i> K.N. Ganeshaiyah, R. Uma Shankar and K.S. Bawa (eds.). Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.	
		<ul style="list-style-type: none"> <li>Upadhyaya K., Arunachalam A. and <b>Khan M. L.</b> 2001. Medicinal and aromatic plant resources of Arunachal Pradesh: Conservation and sustainable utilization as a chemical Venture. In: A. Arunachalam and M.L. Khan (eds.). <i>Sustainable Management of Forests- India.</i> International Book Distributors, Dehra Dun.</li> </ul>	National
		<ul style="list-style-type: none"> <li>Upadhyaya K., Arunachalam A., <b>Khan M. L.</b> and Singh N.D. 2001. Ecological &amp; social interactions in Agroforestry. In: A. Arunachalam and M.L. Khan (eds). <i>Sustainable Management of Forests – India.</i> International Book Distributors, Dehra Dun. In: A. Arunachalam and M.L. Khan (eds.). <i>Sustainable Management of Forests- India.</i> International Book Distributors, Dehra Dun.</li> </ul>	National
1998		<ul style="list-style-type: none"> <li>Kuba M. Maram and <b>Khan M. L.</b> 1998. Customary laws and forestry practices of the Maram Naga Tribe. <i>In: Proceedings of the National Workshop on Arunachal Pradesh: Environmental Planning &amp; Sustainable Development,</i> HIMAVIKAS Occasional Publication No. 16, Editors R. C. Sudriyal, Uma Shankar &amp; T. C. Upreti. pp. 225-232.</li> </ul>	National
		<ul style="list-style-type: none"> <li>Tsanglao L. and <b>Khan M. L.</b> 1998. Forest resource utilization pattern: a case study in Wokha District, Nagaland. <i>In: Proceedings of the National Workshop on Arunachal Pradesh: Environmental Planning &amp; Sustainable Development,</i> HIMAVIKAS Occasional Publication No. 16, Editors R. C. Sudriyal, Uma Shankar &amp; T. C. Upreti. pp. 150-162.</li> </ul>	National
1997		<ul style="list-style-type: none"> <li><b>Khan, M. L.</b> 1997. A few edible forest species of north-east India. <i>In: Proceedings "Forestry for food: challenges for 2000 A. D. and beyond".</i> Ed. U. Melkania, Indian Institute of Forest Management, Bhopal. pp. 88-92</li> </ul>	National
1996		<ul style="list-style-type: none"> <li><b>Khan M. L.</b> 1996. Social forestry in north-eastern India: present status and future strategies. In: P. Singh, P.S. Pathak and M.M. Roy (eds). <i>Sustainable development of degraded lands through agroforestry in Asia and Pacific.</i> Oxford &amp; IBH Publishing Co. Pvt. Ltd., New Delhi. pp. 198-204.</li> </ul>	National
		<ul style="list-style-type: none"> <li><b>Khan, M. L.</b> 1996. Regeneration potential of tree species in Meghalaya forests. <i>In: Proceedings of the Eco-restoration of degraded hills.</i> Editor: B. K. Tiwari and S. Singh). Kaushal Publications, Shillong. pp. 161-168</li> </ul>	National
1993		<ul style="list-style-type: none"> <li>Das M., Tiwari M.D., Tawnenga P., Singh S., Konwar M., <b>Khan M. L.</b>, Uma Shankar and Gupta A. 1993. Implementation mechanisms for introducing EE in higher education, <i>In: Proceedings of the Environmental education in higher education system with special reference to north-east India.</i> Editor: B. K. Tiwari, Centre for Eco-development, North-Eastern Hill University, Shillong. pp. 8-12.</li> </ul>	National
		<ul style="list-style-type: none"> <li>Uma Shankar and <b>Khan M. L.</b> 1993. Emphasis on environmental management training in higher education system. <i>In: Proceedings of the Environmental education in higher education system with special reference to north-east India.</i> Editor: B. K. Tiwari, Centre for Eco-development, North-Eastern Hill University, Shillong. pp. 40-42.</li> </ul>	National
		<ul style="list-style-type: none"> <li>Tiwari B.K., <b>Khan M. L.</b> and Tripathi R.S. 1993. <i>Survival of trees under afforestation programme in Nagaland.</i> Regional Centre National Afforestation and Eco-Development Board, North-Eastern Hill University, Shillong.</li> </ul>	National
1992		<ul style="list-style-type: none"> <li>Tripathi R.S. and <b>Khan M. L.</b> 1992. Regeneration pattern and population structure of trees in subtropical forests of north-east India. <i>Tropical ecosystem: ecology and management.</i> Wiley Eastern Limited, New Delhi K.P. Singh and J.S. Singh (eds). pp. 431-441.</li> </ul>	International
		<ul style="list-style-type: none"> <li><b>Khan M. L.</b> and Rai J.P.N. 1992. Regeneration ecology of two fast growing tree species of north-east India. <i>In: Proceedings of the Multipurpose trees for agroforestry systems.</i> Editors: P.S. Pathak &amp; P. Singh, IGFR, Jhansi. pp. 137-143.</li> </ul>	National
		<ul style="list-style-type: none"> <li>Tripathi R.S. and <b>Khan M. L.</b> 1992. Regeneration ecology of a few tree species of Meghalaya as related to disturbance, <i>In: Proceedings of the Environment conservation and wasteland development in Meghalaya.</i> Editors: A. Gupta and D.C. Dhar Meghalaya Science Society, Shillong. pp. 59-65.</li> </ul>	National
		<ul style="list-style-type: none"> <li><b>Khan M. L.</b>, Tripathi R.S. and Tiwari B.K. 1992. <i>Survival of trees under afforestation programme in Mizoram.</i> Regional Centre National Afforestation and Eco-Development Board, North-Eastern Hill University, Shillong.</li> </ul>	National
1991		<ul style="list-style-type: none"> <li>Tripathi R.S., Tiwari B.K. and <b>Khan M. L.</b> 1991. <i>Survival of trees in social forestry plantations of Meghalaya.</i> Regional Centre National Afforestation and Eco-Development Board, North-Eastern Hill University, Shillong.</li> </ul>	National

#### Books Published

Year	Sl. NO.	Details (author(s), title of the book, name of publisher, year of Publication, ISBN)	National/ International
2020	1.	Choudhury B. I. and <b>Khan M. L.</b> 2020. The Himalayan Soap Pod <i>Gymnocladus assamicus</i> : An Ecologically and Economically Important Tree on the Brink of Extinction. CABI, ISBN-978-1786391988, DOI <a href="https://doi.org/10.1079/9781786391988.0000">10.1079/9781786391988.0000</a> , 180 pages, Publisher: CABI (December 26, 2019) Nosworthy Way Wallingford, Oxfordshire, OX10 8DE, UK.	International
2001	2.	Arunachalam A. and <b>Khan M.L.</b> (eds.). 2001. Sustainable Management of Forests- India. International Book Distributors, Dehra Dun, pp 550. ISBN: 81-7089-280-5.	National

#### Seminar/Conference/Workshops (Organized)



2019	1.	Conducted GIAN programme entitled 'Molecular Genetics & Genomics in Biodiversity Conservation' sponsored by MHRD, New Delhi, held during 22-26 <sup>th</sup> July. Sanctioned amount Rs. 5.44 lakhs. <b>Foreign faculty:</b> Prof. Selvadurai Dayanandan, Biology Department, Concordia University, 7141, Sherbrooke Street West, Montreal, Quebec H3G 1M8	National
2014	2.	Convenor of International Conference on "Frontier Discoveries and Emerging Opportunities in Life Sciences (FDEOLS)" held during 13 Feb. to 15 Feb. 2014 at Dr. Harisingh Gour Vishwavidyalaya, Sagar, MP. Sponsored by DST-PURSE and other funding agencies.	International
<b>Chaired/Co-chaired/Convener of the sessions of National and International Conferences/Symposia/workshops:</b>			
2018	1.	Chaired a technical session of National Conference on Himalayan biodiversity and bio- resource utilization, held on 23 <sup>rd</sup> March 2018. Organized by Department of Biosciences, Himachal Pradesh University, Shimla.	National
	2.	Chaired a technical session of 2 <sup>nd</sup> International workshop on "Biodiversity and Climate change" held on 24 <sup>th</sup> – 27 <sup>th</sup> February 2018. Organized by IIT Kharagpur, West Bengal, India.	International
2017	3.	Chaired a technical session of National Workshop on "Resource Use and Conservation for Sustainable Socio-Ecological Development" held on 21 <sup>st</sup> - 22 <sup>nd</sup> December 2017. Organized by NIRDPR-NERC, Guwahati, Assam.	National
	4.	Chaired a technical session of International conference on Natural Resource Management and Technology trends, held on 27-29 <sup>th</sup> March 2017. Centre of Advanced study, Department of Life Sciences, Manipur University, Imphal, Manipur, India.	International
	5.	Chaired a technical session of International conference on Environment Management and Sustainability, held on 4-6 January 2017. Organized by SIES- Indian Institute of Environment management, Navi Mumbai.	International
2016	6.	Chaired a technical session of National Workshop on Forest Resource and Plant Biodiversity, held on 16-18 <sup>th</sup> November 2016. Organized by G.B. Pant Institute of Himalayan Environment and Sustainable Development Almora, Uttarakhand.	National
	7.	Co-chaired a technical session of National Workshop on Forest Resource and Plant Biodiversity, held on 16-18 <sup>th</sup> November 2016. Organized by G.B. Pant Institute of Himalayan Environment and Sustainable Development Almora, Uttarakhand.	National
	8.	Chaired a technical session of National seminar on Plants, Microbe and Environment: Interaction, Challenges and Remedies, held on 20-21 February 2016. Organized by Department of Botany Dr. Harisingh Gour Vishwavidyalaya Sagar M.P.	National
2015	9.	Chaired a technical session of National Conference on Evolving Trends in Biotechnology, held on 28-30 <sup>th</sup> March 2015. Organized by Department of Biotechnology Dr. Harisingh Gour Vishwavidyalaya, Sagar M.P.	National
	10.	Chaired a technical session of National Symposium on Horizons of Light in Molecules, Materials and Daily Life, held on 18-19 <sup>th</sup> December 2015. Organized by Department of Chemistry, Dr. Harisingh Gour Vishwavidyalaya, Sagar M.P.	National
2014	11.	Chaired a technical session of Indian Biodiversity Congress 2014, held on 18-20 <sup>th</sup> December 2014. Organized by SRM University, Chennai, Tamil Nadu.	National
	12.	Convened a technical session of Tropical Ecology Congress, held on 10-12 <sup>th</sup> December 2014. Organized by School of Environmental Sciences, JNU, New Delhi.	International
2011	13.	Chaired a technical session of National Conference on Conservation of Sacred Groves to Protect Local Biodiversity, held on 12-14 <sup>th</sup> February 2011. Organized by C.P.R. Environmental Education Centre, Chennai.	National
<b>Invited Lectures/Keynote address delivered (Outside University)</b>			
2020	1.	Delivered a Keynote talk on 'Forests across climates and biomes: An Indian Perspectives' during 2 <sup>nd</sup> National workshop on Techniques in hyperspectral data analysis and processing" jointly organized by Department of Physics, IIT-BHU and IESD-BHU from 27 <sup>th</sup> January – 31 <sup>st</sup> January 2020.	National
2019	2.	Delivered an invited talk on 'Effects of Global Climate Change on Biodiversity' on 9 <sup>th</sup> December, 2019 at Indira Gandhi Agricultural University, Raipur, CG	National
2018	3.	Delivered a Keynote talk on ' <i>Climate change and Biodiversity: impact and mitigation in Eastern Himalaya, India</i> ' during 2 <sup>nd</sup> International workshop on "Biodiversity and Climate change" held on 24 <sup>th</sup> – 27 <sup>th</sup> February 2018. Organized by IIT Kharagpur, West Bengal, India.	International
	4.	Delivered a Keynote talk on 'Effects of Global Climate Change on Biodiversity' International Conference on Environmental Challenges and Sustainability (ICES 2018), held on 31 <sup>st</sup> Oct.- 2 <sup>nd</sup> Nov. 2018, CJU, Ranchi, Jharkhand.	International
2017	5.	Delivered an invited talk on 'Resource use and conservation for sustainable socio-ecological development held on 21 <sup>st</sup> - 22 <sup>nd</sup> December 2017. Organized by NIRDPR-NERC, Guwahati, Assam.	National
	6.	Invited as expert panelist and speaker during workshop 'Ecosystem management, Nature based solutions and SDG perspectives from South Asia' on 4 <sup>th</sup> December 2017, held at India Habitat Centre, New Delhi. Organized by IUCN Commission on Ecosystem Management, South Asia, and CSIR-NEERI Nagpur in collaboration with Leaders for Nature, IUCN India office, New Delhi.	International

	7.	Delivered an invited talk on ' <i>Biodiversity: Importance to culture &amp; diversity</i> ' on 29 <sup>th</sup> November 2017 during Orientation Programme, organized by the UGC-Human Resource Development Centre, Mizoram University, Aizawl Mizoram.	National
	8.	Delivered an invited talk on ' <i>Ecosystem and Culture on human dominated earth</i> ' on 29 <sup>th</sup> November 2017 during Orientation Programme, organized by the UGC-Human Resource Development Centre, Mizoram University, Aizawl, Mizoram.	National
	9.	Delivered a Keynote address on ' <i>Cultural and Bio-Resource Diversity of North East India</i> ' during National Seminar on "Environment, sustainable development and future perspective in northeast India: emic and etic dynamics", held on 2 <sup>nd</sup> – 3 <sup>rd</sup> October 2017. Organized by Department of Anthropology, University of Delhi.	National
	10.	Delivered an invited talk on ' <i>What is biodiversity? Is it important for our survival</i> ' on 21 <sup>st</sup> September 2017 during Orientation Programme, organized by the UGC-Human Resource Development Centre, Guru Ghasidas Vishwavidyalaya, Bilaspur, CG.	National
	11.	Delivered an invited talk on ' <i>Ecosystem services and life on a human dominated earth: the challenges and opportunity ahead</i> ' on 17 <sup>th</sup> September 2017 during Orientation Programme, organized by the UGC-Human Resource Development Centre, Guru Ghasidas Vishwavidyalaya, Bilaspur, CG.	National
	12.	Delivered an invited talk on ' <i>Climate change and its impact on biodiversity with special reference to North East India</i> ' in the International Conference on Environment Management and Sustainability' held on 4-6 <sup>th</sup> January 2017; organized by Indian Institute of Environment Management, Mumbai.	International
	13.	Delivered an invited talk on ' <i>Medicinal and Aromatic Plants of Bundelkhand region: some prospects</i> ' in "Brainstorming session-cum-stakeholders meeting on medicinal plants initiatives in Bundelkhand region", held on 17–18 <sup>th</sup> February 2017; organized by Bundelkhand University, Jhansi, UP.	National
	14.	Delivered an invited talk on ' <i>Climate change and its impact on biodiversity with special reference to Eastern Himalaya, India</i> ' in the "4 <sup>th</sup> Indian Biodiversity Congress" held on 10-12 <sup>th</sup> March 2017; organized by Pondicherry University, Pondicherry.	National
	15.	Delivered an invited talk on ' <i>Climate change and biodiversity: Impacts, adaptation and mitigation</i> ' in the International Conference on Renewable Energy for Sustainable Environment: Challenges and Remedies' held on 20-21 <sup>st</sup> March 2017; organized by SMVD, University, Katra, J. & K.	International
	16.	Delivered an invited talk on ' <i>Climate change and its impact on biodiversity with special reference to Arunachal Pradesh, India</i> ' in the International Conference on Natural Resources Management and Technology Trends' held on 27-29 <sup>th</sup> March 2017; organized by Manipur University, Imphal, Manipur.	International
<b>2016</b>	17.	Delivered an invited talk on ' <i>Climate change and its impact on biodiversity with special reference to Himalaya, India</i> ' in the national workshop "Forest Resource and Plant Biodiversity" held on 16-18 <sup>th</sup> November 2016; organized by GB Pant National Institute of Himalayan Environment and Sustainable Development, Almora, UK, India.	National
	18.	Delivered an invited talk on ' <i>Climate change and its impact on biodiversity with special reference to North East India</i> ' in the "1 <sup>st</sup> International Conference on Climate Science" held on 7-8 <sup>th</sup> March 2016; organized by Cotton College, Guwahati, Assam.	International
	19.	Delivered an invited talk on ' <i>Sacred groves and their significance in conserving biodiversity - case studies from northeast India</i> ' in the national seminar "Conserving the sacred groves in north-east India: perceptions, practices and policy implications" held on 4-5 <sup>th</sup> March 2016; organized by Indira Gandhi Rashtriya Manav Sangrahalaya, Bhopal, MP.	National
	20.	Delivered an invited talk on ' <i>Ecosystem Services and Life on a Human - Dominated Earth: The Challenges and Opportunities Ahead</i> ' in the national seminar "Himalayan Biodiversity and Bioresource Utilization" held on 23 <sup>rd</sup> March 2016; organized by the Department of Biosciences, HP University, Shimla, HP.	National
<b>2015</b>	21.	Delivered an invited talk on ' <i>Ecology of Mycorrhizal Fungi</i> ' in the workshop on "Isolation and Staining Techniques of Mycorrhizal Fungi" held on 30-31 <sup>st</sup> October 2015; organized by Department of Rural Technology & Social Development, Guru Ghasidas University, Bilaspur, C.G.	National
<b>2014</b>	22.	Delivered an invited talk on ' <i>Sacred groves and their significance in conserving biodiversity-case studies from north east India</i> ' in '3 <sup>rd</sup> Indian Biodiversity Congress' held on 19 <sup>th</sup> December 2014; organized by SRM University, Chennai, India.	National
<b>2013</b>	23.	Delivered an invited talk on ' <i>Some interesting records of Primula species from Arunachal Pradesh</i> ' in XXIII Conference of Indian Association for angiosperm Taxonomy and national seminar on 'Recent advance in plant taxonomy research', held on 28 <sup>th</sup> December 2013; organized by Dept. of Botany, Rashtrasant Tukadoji Maharaj Nagpur University, India.	National
	24.	Delivered an invited talk on ' <i>Managing the dominance of invasive alien forest plant species in high-priority conservation areas of north east India</i> ' in International Conference on 'Risk analysis of forest invasive alien species', held on 28 <sup>th</sup> March, 2013; organized by Panjab University, Chandigarh, India.	International
<b>2012</b>	25.	Delivered an invited talk on ' <i>Sacred of North-East India</i> ' in National workshop on 'Sacred Grove Festival - 2012', held on 15 <sup>th</sup> December, 2012; organized by Indira Gandhi Rashtriya Manav Sangrahalaya, Bhopal, MP, India.	National
	26.	Delivered an invited talk on ' <i>Biodiversity management – a vital key to mitigate climate change</i> ' in International Conference on 'Biodiversity Asia 2012–Science, policy, and governance', held on 9 <sup>th</sup> August, 2012; organized by ATREE, Bangalore, India.	International
<b>2011</b>	27.	Delivered an invited talk on ' <i>Climate change and its impact on Biodiversity Hotspots</i> ' in International Conference on 'Perspectives of Climate change and plant diversity inter-relations', held on 18 <sup>th</sup> November, 2011; organized by Manipal University, Manipal, Karnataka, India.	International

	28.	Delivered an invited talk on 'Climate change and its impact on biodiversity' in International Conference on 'Adaptive management of Ecosystems', held on 20 <sup>th</sup> October, 2011; organized by Institute for Social and Economic Change, Bangalore, India.	International
	29.	Delivered an invited talk on 'Soil type profile and vegetation monitoring of Arunachal Pradesh' in regional seminar on 'Mainstreaming Conservation and sustainable use of medicinal plant in three Indian states', held on 12 <sup>th</sup> May, 2011; organized by SFRI, Itanagar, Arunachal Pradesh, India.	National
	30.	Delivered an invited talk on 'Sacred groves and their significance in conserving biodiversity-case study from north east India' in National Conference on 'Conservation of Sacred Groves to protect local Biodiversity'; held on 13 <sup>th</sup> February, 2011; organized by CPR Environmental Education Centre, Chennai, India.	National
<b>2010</b>	31.	Delivered an invited talk on 'Climate change and its impact on biodiversity, some management options for mitigation in Arunachal Pradesh' in International Workshop on 'Managing biodiversity for Sustainable Livelihoods in the Changing Environment in Marginal Mountain Regions'; held on 12 <sup>th</sup> December, 2010; jointly organized by NEHU, Shillong and JNU New Delhi, India.	International
	32.	Delivered an invited talk on 'Climate change and its impact on Himalayan Biodiversity Hotspot' in national seminar on 'Mountain Biodiversity & Impacts of climate change with special reference to Himalayan Biodiversity Hotspot'; held on 7 <sup>th</sup> December, 2010; organized by G.B. Pant National Institute of Himalayan Environment & Sustainable Development Almora, Uttarakhand, India.	National
	33.	Delivered an invited talk on 'Wetlands of North East India: Threats & Conservation' in national seminar on 'Scientific strategies for protection and preservations of wetlands in India'; held on 12 <sup>th</sup> January, 2010; organized by DST, JNU, New Delhi, India.	National
	34.	Delivered an invited talk on 'Development of Criteria & indicators for sustainable NTFP management: Ecological issues' in Consultative workshop on 'Development of Criteria & indicators for sustainable NTFP management'; held on 5 <sup>th</sup> January, 2010; organized by Indian Institute of Forest Management, Bhopal, M.P. India.	National
	35.	Delivered an invited talk on 'Mapping and Conservation of Plant resources of Arunachal Himalaya' International workshop on 'land management in marginal mountain areas: vulnerability and adaptation to global changes'; held on 10 <sup>th</sup> November, 2009; jointly organized by NEHU, Shillong and JNU New Delhi, India.	International

**Presented the research papers (oral/poster) in Conferences/ Seminars/ workshops etc.:**

<b>2017</b>	1.	Presented a paper on ' <i>Plant diversity patterns and conservation status of Eastern Himalayan forests in Arunachal Pradesh, Northeast India</i> ' in the 'Inaugural Global Forest Biodiversity Initiative Conference & GFBI-FECS Joint Symposium 2017 and Forest Research in the Big Data Era'; held on 6—9 <sup>th</sup> September, 2017; organized by Beijing Forestry University, Beijing, China.	International
<b>2013</b>	2.	Presented a paper on 'Some Interesting Record of <i>Primula</i> species from Arunachal Pradesh' in the XXIII Conference of Indian Association for Angiosperm Taxonomy and National Seminar on Recent Advances in Plant Taxonomy Research; held on 27-29 December, 2013; organized by PG Department of Botany Rashtrasnt Tukadoja Maharaj Nagpur University.	National
	3.	Presented a paper on 'Managing the Dominance of Invasive Alien forest plant species in high Priority conservation areas of North East India' in the International Conference on 'Risk Analysis of Forest Invasive Alien Species'; held on Feb 27-March 1, 2013; organized by IUFRO, NRC, DNAES and P.U. at Panjab University.	International
<b>2009</b>	4.	Presented a paper on 'Scope of canopy research in northeast India' in the International Conference on 'Forest canopies: conservation, climate change and sustainable use'; held on 26 <sup>th</sup> October 2009; organized by ATREE, Bangalore, India.	International
	5.	Presented a paper on 'Diversity and prospects of bio-diesel producing species in North East India' in the national Conference on 'Bio-fuels in northeast India: issues and prospects'; held on 21 <sup>th</sup> March 2009; organized by NERIST, Arunachal Pradesh, India.	National
<b>2007</b>	6.	Presented a paper on 'JFM— A Tool for Biological Basis of Management of Forest Resources' in the regional Conference on 'Traditional Knowledge systems and community development in north east India; held on 19 <sup>th</sup> August 2007; organized by NERIST, Arunachal Pradesh, India.	National
<b>2006</b>	7.	Presented a paper on 'Shifting cultivation in north east India: some alternatives' in the International workshop on 'Shifting Agriculture, Environmental Conservation and Sustainable Livelihoods in the Marginal Mountain Environment'; held on 24 <sup>th</sup> September 2006; organized by JNU-UNU-NIRD, Guwahati, Assam, India.	International
<b>2004</b>	8.	Presented a paper on 'Sacred groves of Manipur' in the International Symposium on "Recent Trends in Plant Ecology and Biodiversity Research"; held on 21 <sup>th</sup> May 2004; organized by Dept. of Botany, Northeast Hill University, Shillong, India.	International
<b>2001</b>	9.	Presented a paper on Tree diversity and population structure in undisturbed and human-impacted tropical wet evergreen forests of Arunachal Pradesh, northeast India' in the International Conference on 'Tropical Ecosystems: Structure, Diversity and Human Welfare'; held on 17 <sup>th</sup> July 2001; organized by Ashoka Trust for Research in Ecology and Environment, Bangalore, India.	International

**Seminar/Conference/Workshops (Attended)**

<b>Year</b>	<b>Sl. No.</b>	<b>Title of Seminar/Conference/Workshops</b>	<b>National/ International</b>
<b>2013</b>	1	Participated in a workshop on 'Assessment of training need and capacitive of the concerned agencies as part	National

		of the GOI-UNDP programmed for threat assessment and monitoring the conservation status of medicinal plant in India'; held during 28-29 January 2013; organized by Department of Forestry, North Eastern Regional Institute of Sci. & Tech., Nirjuli, AP, India.	
<b>2012</b>	2	Participated in a workshop on 'Sacred groves Festival'; held during 14-16 December, 2012; organized by Indira Gandhi Rashtriya Manav Sangrahalay Bhopal, India.	National
	3	Participated in a workshop on 'Scoping Workshop on Canopy Research'; held during 6 <sup>th</sup> August, 2012; organized by Ashoka Trust for Research in Ecology and the Environment Bangalore, India.	National
	4	Participated in a workshop on 'TEQIP Sponsored Faculty Development Programme on Remote Sensing and GIS Application in Natural Resources Management'; held during 14-18 May 2012; organized by Department of Agricultural Engineering, North Eastern Regional Institute of Sci. & Tech., Nirjuli, AP, India.	National
	5	Participated in a workshop on 'Faculty development Program on Personality Development'; held during 7-9 May 2012; organized by North Eastern Regional Institute of Sci. & Tech., Nirjuli, AP, India.	National
	6	Participated in a workshop on 'Workshop on Intellectual Property Rights'; held during 23 March 2012; organized by MHRD IPR Chair Tezpur University, Tezpur, Assam, India.	National
<b>2011</b>	7	Participated in a workshop on 'Conference on Conservation of Sacred Groves to protect local Biodiversity'; held during 12-14 Feb., 2011; organized by C.P. R. Foundation, Chennai, India.	National
<b>2010</b>	8	Participated in a workshop on 'International Workshop on Managing biodiversity for Sustainable Livelihoods in the Changing Environment in Marginal Mountain Regions'; held during 21-23, December 2010; organized jointly by JNU, New Delhi & NE Hill Univ., Shillong, India.	International
	9	Participated in a workshop on 'Principles and procedures of qualifying for carbon credit by reducing Emission from Deforestation and Forest Degradation under Clean Development mechanism'; held during 9-11 September, 2010; organized by Regional centre, National Afforestation and Eco-Development Board, MoEF, NEHU, Shillong, India.	National
	1	Participated in a workshop on 'Mountain Biodiversity & Impact change with special reference to Himalayan Biodiversity Hotspot'; held during 6-8 <sup>th</sup> December, 2010; organized by G.B. Pant Institute of Himalayan Environment & Development Almora, Uttarakhand, India.	National
	1	Participated in a workshop on 'National workshop on Cane' held during 24-26 <sup>th</sup> February 2010; organized by Cane and Bamboo Technology Centre, Guwahati, Assam.	National
	1	Participated in a workshop on 'Celebrating International year of Biodiversity' held during 4 <sup>th</sup> February 2010; organized by UNESCO, WFP & TERI, New Delhi.	International
	1	Participated in a workshop on 'Scientific strategies for protection and preservations of wetlands in India' held during 11-12 <sup>th</sup> January 2010; organized jointly by DST & JNU, New Delhi.	National
	1	Participated in a workshop on 'Development of C & I for sustainable NTFP Management' held during 5 <sup>th</sup> January 2010; organized by IIFM, Bhopal.	National
<b>2009</b>	1	Participated in a workshop on 'International workshop on land management in marginal mountain areas: vulnerability and adaptation to global changes' held during 9-11 <sup>th</sup> November 2009; organized jointly by JNU, New Delhi & NE Hill Univ., Shillong, India.	International
	1	Participated in a workshop on 'Forest canopies: conservation, climate change and sustainable use' held during 25-31 <sup>st</sup> October 2009; organized jointly by Ashoka Trust for Research in Ecology and the Environment (ATREE), Bangalore & IISc, Bangalore.	International
	1	Participated in a workshop on 'Conservation of medicinal plants and rhododendrons of eastern Himalaya in India' held during 18-19 <sup>th</sup> August 2009; organized jointly by NERIST, Nirjuli & Winrock International India.	International
	1	Participated in a workshop on 'Invasive Alien Plants in India' held during 22-23 <sup>rd</sup> May 2009; organized jointly by MOEF, New Delhi & Panjab University, Chandigarh.	International
<b>2007</b>	1	Participated in a workshop on 'Industry and ecology: perspectives on development in Northeast India' held during 26 <sup>th</sup> October 2007; organized by IIT, Guwahati, Assam.	National
	2	Participated in a workshop on 'International Joint workshop on Ecological Forecasting: an Indo-US Initiative' held during 27-29 <sup>th</sup> August 2007; organized jointly by NCL, Pune & Univ. of Kansas, USA.	International
	2	Participated in a Regional Seminar on 'Traditional Knowledge Systems & Community Development in N E India' held during 18-19 <sup>th</sup> August 2007; organized by NERIST, Nirjuli.	Regional
<b>2006</b>	2	Participated in a National Symposium on 'Issues & Challenges for Conservation of Plants and Ecosystems in India' held during 2-3 <sup>rd</sup> November 2006; organized by Dept. of Botany, NEHU, Shillong.	National
	2	Participated in a International workshop on 'Shifting Agriculture, Environmental Conservation and Sustainable Livelihoods in the Marginal Mountain Environment' held during 23-25 <sup>th</sup> Nov., 2006; organized jointly by JNU, New Delhi, UNU Tokyo, Japan & NIRD-NERC- Guwahati.	International
<b>2004</b>	2	Participated in a National Symposium on 'Environment, Agriculture and Sustainable Life Support Systems: Perspectives of NER' held during 6 <sup>th</sup> November 2004; organized by NERIST, Arunachal Pradesh.	National
	2	Participated in a National Symposium on 'Workshop on Recent Trends in Environment & Sustainable Development in North East India' held during 11 <sup>th</sup> September 2004; organized by NERIST, Arunachal Pradesh.	National
	2	Participated in an International Workshop on 'Regional Cooperation on Conservation of Biodiversity Hotspots of the Indian Subcontinent and Taxonomic Databases for Conservation' held during 30 <sup>th</sup> August – Sept. 1 <sup>st</sup> , 2004; organized jointly by UMAS, Boston, USA & ATREE, Bangalore.	International
	2	Participated in an International Symposium on 'Recent Trends in Plant Ecology and Biodiversity Research' held during 20 <sup>th</sup> -22 <sup>nd</sup> May 2004; organized by Botany Dept., NEHU, Shillong.	International
<b>2003</b>	2	Participated in National Symposium on 'Agroforestry and Sustainable Production & Silver Jubilee of Agroforestry Initiative in India' held during 7-9 November 2003; organized by IGFR, Jhansi.	National

2002	2	Participated in a National Symposium on 'Botanical Researches in Wildlife sanctuaries and national parks of Assam' held during 27-28 July 2002; organized by Handique Girls College, Guwahati.	National
	3	Participated in State Level Workshop on 'Conservation of Mithun and Yak in Arunachal Pradesh' held during 18-19 <sup>th</sup> January 2002; organized by Arunachal Pradesh Veterinary Association.	National
2001	3	Participated in an International Conference on 'Tropical Ecosystems: Structure, Diversity and Human Welfare' held during 15-18 <sup>th</sup> July 2001; organized jointly by ATREE, Bangalore & Association of Tropical Biology.	International
	3	Participated in a Third National Workshop on 'National Agricultural Technology Programme, (NATP, Plant Biodiversity) under Jai Vigyan National Science & Technology Mission on Conservation of Agro-biodiversity' held during 18-20 <sup>th</sup> April, 2001; organized by NBPGR, New Delhi.	National
	3	Participated in Orientation Training-cum-Workshop under HRD, National Agricultural Technology Programme on 'Plant Biodiversity (MM)' held during 26 Feb. to 1 <sup>st</sup> March 2001; organized by NBPGR, New Delhi.	National
	3	Participated in a Zonal Workshop on 'National Agricultural Technology Programme (Biodiversity)' held during 17-18 <sup>th</sup> Feb., 2001; organized by NBPGR, Shillong.	
2000	3	Participated in a Workshop on 'Patent Awareness-workshop' held during 17 <sup>th</sup> Oct. 2000; organized by NERIST, Nirjuli.	National
	3	Participated in a Workshop on 'Workshop on Forestry Research Prioritization in Arunachal Pradesh' held during 25-26 May, 1998; organized jointly by SFRI, Itanagar & ICRI, Dehra Dun.	National

#### Research guidance:

a)	No. of Post-Doctoral Fellows:	08
b)	No. of Ph.D. Awarded:	16
c)	No. of Ph.D. Scholars working:	08
d)	No. of mentoring International graduate students	02 (Graduate students from Biology Department, Concordia University, Montreal, Canada doing research under my mentorship since August, 2019 under the international visiting fellowships received from different funding agencies)

#### No. of Foreign visits:

2018	Visited Concordia University, Montreal, Canada during July-August, 2018 under Shastri Mobility Programme Fellowship awarded by Shastri Indo-Canadian Institute (SICI) to carryout short-term research project.
2017	Presented a paper in the 'Inaugural Global Forest Biodiversity Initiative Conference & GFBI-FECS Joint Symposium 2017 and Forest Research in the Big Data Era'; held on 6–9 <sup>th</sup> September, 2017; organized by Beijing Forestry University, Beijing, China.
2008	Visited Genomic Laboratory, Concordia University, Montreal, Canada during March – Nov., 2008 under Overseas Associateship awarded by DBT in the thrust area "Biodiversity Conservation".
2005	Visited Genomic Laboratory, Concordia University, Montreal, Canada during Sept.– Nov., 2005 under Overseas Associateship awarded by DBT in the thrust area "Biodiversity Conservation".
1995 -96	Visited University of Massachusetts, Boston, USA during May, 1995 – June, 1996 under BOYSCAST Fellowship awarded by DST, New Delhi in the thrust area "Biodiversity Conservation".

#### Memberships in Academic Bodies:

- International Society for Environmental Botanists, Lucknow (Life Member)
- National Academy of Environmental Sciences, New Delhi (Life Member)
- Indian Society for Tree Scientists, India (Life Member)
- Indian Society for Seed Science & Technology, New Delhi, India
- Society for Science of Climate Change and Sustainable Environment (SSCE), Lucknow (Life Member)
- Rangeland Management Society of India, India (Life Member)
- National Institute of Ecology, New Delhi, India (Life Member)
- Indian Society for Conservation Biology, India
- Indian Society for Remote Sensing, Dehradun, India (Life Member)
- All India Council for Technical Education, New Delhi (Life Member)
- Indian Science Congress (Life Member)

#### Other Academic Achievements:

I.	<b>Membership of Editorial Boards: National/ International (With details of the journal(s) and duration):</b>
	<ul style="list-style-type: none"> <li>• Journal of Environmental Monitoring and Assessment (Springer) – Guest Editor; Vol. 191 (Suppl. 3), 2019.</li> <li>• On the editorial board of 'Climate Change and Environmental Sustainability (CCES) (<a href="http://www.indianjournals.com/ijor.aspx?target=ijor:cces&amp;type=home">http://www.indianjournals.com/ijor.aspx?target=ijor:cces&amp;type=home</a>), Publisher: The Society of Science of Climate Change and Sustainable Environment (<a href="http://www.ssceindia.org">www.ssceindia.org</a>)</li> <li>• On the editorial board <i>Indian Journal of Agroforestry</i></li> <li>• On the editorial board of Scientific World Journal (Ecology section), UK.</li> <li>• On the Editorial Board of the Journal "<i>Nature and Environment</i>".</li> </ul>

	<ul style="list-style-type: none"> <li>• Included in database as reviewer for <i>Asian Journal of Geoinformatics</i>.</li> <li>• Invited as an eminent editor for the <i>Journal of Plant Science and Research</i></li> <li>• On the editorial board of '<i>International Journal of Interdisciplinary and Multidisciplinary Studies</i>: <a href="http://www.ijims.com/index.php">http://www.ijims.com/index.php</a>'</li> <li>• On the editorial board of '<i>Journal Current WorldEnvironment</i> (<a href="http://www.cwejournal.org">www.cwejournal.org</a>)'.</li> </ul>
<b>II.</b>	<b>Reviewer for the journals:</b>
	<i>Current Science, Indian Journal of Agroforestry, Tropical Ecology, International Journal of Ecology &amp; Environment, Indian Journal of Traditional Knowledge, Forest Science, Silvae Genetica, Journal of Tropical Forest Science, Environmental Conservation, Biodiversity &amp; Conservation, Journal of Sustainable Forestry, Bioscience, Journal of Hill Research, Forest Ecology and Management, Economic Botany, Journal of Tree Sciences, Acta Oecologica, Journal of Mountain Research, Journal of Environmental Management, Ecological Indicator, Conservation Letter, J. of Tawania, Canadian Journal of Botany, Canadian Journal of Forest Research, Applied Geography, Proceedings of Indian Science Academy, Scottish Journal of Geography, Ecological Questions, Ecoscience</i> and many more.
<b>III.</b>	<b>Membership of the Board of Studies/School Board / Academic Council/ Executive Council (Within/ outside the university):</b>
	<ul style="list-style-type: none"> <li>• On the panel of taskforce of DBT, New Delhi for the project ' Demonstration of cultivation, processing and value addition of selected aromatic crops in Bundelkhand region (2017- 2020).</li> <li>• Elected as Vice President of Executive Council of National Institute of Ecology (NIE), New Delhi (2014-2017; 2018-2020).</li> <li>• Inducted in the executive body of International Society of Environmental Botanists (2019 till present).</li> <li>• Member of Global Forest Biodiversity Initiatives (USA) (since 2016 till present).</li> <li>• Member of South Asia Region Network of IUCN – CEM (Critical Ecosystem Management), IUCN CEM South Asia Core Group (since 2016 till present).</li> <li>• UGC nominee in the advisory committee for monitoring the progress of SAP programme of Department of Biosciences, Himachal Pradesh University, Shimla, HP (2016-2019).</li> <li>• Executive Council Member of Society for Science of Climate Change and Sustainable Environment (SSCE), Lucknow. (2017- 2020).</li> <li>• Councilor, Rangeland Management Society of India.</li> <li>• Councilor, National Institute of Ecology, India.</li> <li>• Had been member of the Research Advisory Group Meeting of Rain Forest Research Institute, ICFRE, Jorhat, Assam.</li> <li>• Had been member of the Committee for Biodiversity Strategy and Action Plan of Govt. of Arunachal Pradesh.</li> <li>• Had been member of Multidisciplinary Committee for implementation of Environment safeguard measure, NEEPC, Arunachal Pradesh.</li> <li>• Had been member of Advisory Management Committee of Regional Centre, National Afforestation and Eco-Development Board (MOEF), NEHU, Shillong</li> <li>• Had been on the panel of experts of Inter-Academy Advisory Panel of INSPIRE Programme of DST, New Delhi.</li> <li>• Had been on the panel of experts of MOEF, Govt. of India to celebrate "International Year of Biodiversity".</li> <li>• Had been member of the Committee for State Pollution Control Board of Govt. of Arunachal Pradesh.</li> <li>• Had been member of the Committee for State Medicinal Plant Board of Govt. of Arunachal Pradesh.</li> <li>• Had been member of Core Committee on Climate Change Action Plan, Arunachal Pradesh.</li> </ul>
	<b>IV. Fellowship/Honors/Awards:</b>
	<b>Fellowship:</b>
	<ul style="list-style-type: none"> <li>• Fellow of Shastri Indo Canadian Institute , New Delhi</li> <li>• Fellow of National Academy of Agricultural Sciences, New Delhi</li> <li>• Fellow of National Environmental Science Academy, New Delhi</li> <li>• Fellow of International Society for Environmental Botanists</li> <li>• Fellow of National Institute of Ecology, New Delhi</li> <li>• Fellow of International Society for Tropical Ecology, Varanasi</li> <li>• Fellow of Range Management Society of India, Jhansi</li> </ul>
	<b>Awards:</b>
	<ul style="list-style-type: none"> <li>• Conferred <i>Nanda Memorial Award for Young Scientist</i> for 1995 by the Indian Society for Tree Scientists, Solan, Himachal Pradesh, India.</li> </ul>
	<b>V. Scientific Collaborations:</b>
	<b>National Level:</b>
	<ul style="list-style-type: none"> <li>• National Chemical Laboratory, Pune, India (2005-2009)</li> <li>• Indian Institute of Remote Sensing, Dehradun, India (2001-2012)</li> <li>• North Eastern Hill University, Shillong, India (2006-2010)</li> <li>• Assam University, Silcher, Assam, India (2004-2009)</li> </ul>

- National Remote Sensing Agency, Hyderabad, India (2008-2012)
- Central University Jharkhand, Ranchi (2013- till present)
- Indian Institute of Sciences, Bangalore (yet to start)
- Ashoka Trust for Environmental Education & Research (ATREE), Bangalore
- Tezpur University, Tezpur, Assam
- Indian Institute of Technology, Kharagpur

**International Level:**

- Concordia University, Montreal, Canada (continued)
- Grand Valley State University, Allendale, USA (2005-2012)
- The University of Kansas, USA (2005-2012)
- Concordia University, Montreal, Canada (continued)
- Grand Valley State University, Allendale, USA (2005-2012)

**VI. Appreciations:**

- Received the appreciation for publishing the article in the most reputed journal '**Nature**' of the world on 26<sup>th</sup> Nov., 2019 at the occasion of Gour Jaynti, Dr. Harisingh Gour Vishwavidyalaya Sagar, M.P.
- Received the appreciation as an expert at 13<sup>th</sup> Chhattisgarh Young Scientist Congress- 2015 (Sponsored by Chhattisgarh Council of Science & Technology) held during 28 February-1 March, 2015 at Indira Gandhi Krishi Vishwavidyalaya, Raipur.
- Received the appreciation as a Coordinator of High Level Steering Committee of Third Cycle of Assessment and Accreditation of the Dr. Harisingh Gour Vishwavidyalaya, Sagar by NAAC held during 2015.
- Received the appreciation as a Judge at Intercollegiate Competitive Events in Biotechnology sponsored by M.P. council of Biotechnology held during 26<sup>th</sup> March, 2015 at Department of Biotechnology, Dr. Harisingh Gour Vishwavidyalaya, Sagar, M.P.
- Received the appreciation as a Judge at National Conference on Evolving Trends in Biotechnology held during 31<sup>st</sup> March, 2015 at Department of Biotechnology, Dr. Harisingh Gour Vishwavidyalaya Sagar, M. P.