

## Dr. Mohamed Latif Khan

North-Eastern Regional Institute of Science & Technology  
(Deemed University), Nirjuli - 791 109, (Itanagar),  
Arunachal Pradesh, India



### Research Interests:

I am specialized in forest ecology and tree regeneration. My research interests have gradually expanded from tree regeneration to the fields of biodiversity conservation and eco-restoration. I am presently engaged in the studies on conservation and regeneration of endangered and medicinal plant species, inventory and analyses of biodiversity of sacred groves, exploration of germplasm of bamboo and cane species. My recent investigations include mapping of plant biodiversity of Arunachal Pradesh, mapping of threatened and highly exploited tree species e.g. *Eleocarpus ganitrus*, *Aquillaria agallocha*, *Gymnoclantus assamicus*, *Glecditsia assamica*, *Mesua ferrea*, etc. in the tropical rainforest of northeast India and *Rhododendron* spp., *Taxus baccata*, *Illisium griffithii* etc. in the upper elevations. I am also trained to study the phylogeny and genetic diversity of plant species.

### Brief Bio

Mohamed Latif Khan, a forest ecologist and conservation biologist, obtained his doctoral degree from North Eastern Hill University, Shillong, India. He is a recipient of prestigious Nanda Memorial Young Scientist Medal from the Indian Society for Tree Scientists for his outstanding research in the field of Forestry. Latif Khan is a recipient of DST-BOYSCAST and DBT-Overseas fellowships in thrust area 'Biodiversity Conservation' and worked as visiting Professor at University of Massachusetts, Boston, USA, and Concordia University, Montreal, Canada. He is also the Fellow of National Academy of Agricultural Sciences, National Institute of Ecology and International Society for Tropical Ecology. He is the Councilor for National Institute of Ecology and Range Management Society of India. Dr. Khan is Editor of Indian Journal of Agroforestry. Latif Khan is also carrying out research in collaboration with Concordia University, Canada, Grand valley State University and Kansas University, USA. Through his research program, he has supervised twenty-one undergraduate theses and five Ph. D. theses and currently supervising eight Ph.D. theses. He has contributed 61 peer-reviewed papers and 30 conference papers, invited presentations, and lectures. One book has also been co-edited by him. He has also been trained at Indian Institute of Remote Sensing, Dehra Dun for the application of remote sensing and GIS in forestry and also in Agroforestry at Indian Grassland and Fodder Research Institute, Jhansi, India.

### Education:

- Ph. D., North Eastern Hill University, India, 1987.
- Pre-Ph. D./M. Phil., North Eastern Hill University, India, 1985.
- M. S., Kanpur University, Kanpur, India, 1982.
- B. Sc., Kanpur University, Kanpur, India, 1982.

**Professional Record:**

- 2005 – present Professor and Chair, Department of Forestry, North Eastern Reg. Inst. of Sci. & Tech. (NERIST), Nirjuli, Itanagar, Arunachal Pradesh, India.
- 1997 – 2005 Associate Professor, Department of Forestry, NERIST, Nirjuli, Itanagar, Arunachal Pradesh, India.
- 2008 (March- Nov.) and 2005 (Sept – Nov.) Visiting Professor at Biology Department, Concordia University, Montreal, Canada.
- 2005 (Feb.-August) Chair, Department of Forestry, NERIST, Nirjuli, Itanagar, Arunachal Pradesh, India.
- 2001-2004 Chairman (Controller of Exams.), NERIST, Nirjuli, Itanagar, Arunachal Pradesh, India.
- 1995-1996 Visiting Scientist, Biology Department, Univ. of Massachusetts, Boston, USA.
- 1992-1997 Assistant Professor in Forestry, NERIST, Arunachal Pradesh, India.
- 1989-1992 Assistant Professor in Forestry, SK Univ. of Agriculture Science & Tech, Srinagar (Kashmir), India.
- 1987-1989 Post Doctoral Fellow in Botany Department, NE Hill University, Shillong, India.
- 1985-1987 Senior Research Fellow in Botany Department, NE Hill University, Shillong, India.
- 1983-1985 Research Fellow in Botany Department, NE Hill University, Shillong, India.

**Research Expertise****Conservation of Biological Diversity**

- Sacred Groves
- Endangered/Threatened/Rare species
- Keystone Species
- Bamboo and Cane
- Phylogeny and genetic diversity

**Forest Ecosystem Restoration**

- Tree Regeneration
- Seed and Seedling Biology

**GIS & Remote Sensing**

- Land use and land cover changes
- Ecological niche modeling

**Research grants received from:**

- Department of Science and Technology, New Delhi
- Department of Biotechnology, New Delhi
- Council for Scientific and Industrial Research, New Delhi
- Ministry of Environment and Forests, New Delhi
- Indian Council for Agriculture Research, New Delhi
- G. B. Pant Inst. of Himalayan Environment & Development, Almora
- MacArthur Foundation (through UNESCO), USA
- Indian Institute of Remote Sensing, Dehradun, India.

- National Remote Sensing Agency, Hyderabad, India

### **Courses taught**

- Silvicultural Courses
- Concept of Ecology
- Forest Ecology
- Biodiversity Conservation
- Conservation Biology
- Environmental Science

### **Scientific Collaborations**

#### **National**

- National Chemical Laboratory, Pune, India
- Indian Institute of Remote Sensing, Dehradun, India
- North Eastern Hill University, Shillong, India
- Assam University, Silcher, Assam, India
- National Remote Sensing Agency, Hyderabad, India

#### **International**

- Concordia University, Montreal, Canada
- Grand Valley State University, Allendale, USA
- The University of Kansas, USA

### **Honors/Awards:**

- 2009 Elected Fellow of National Academy of Agricultural Sciences, India
- 2006 Elected Fellow of National Institute of Ecology, India
- 1995 Nanda Memorial Young Scientist Medal from the Indian Society for Tree Scientists
- 1994 DST-BOYSCAST Post Doctoral Fellowship by Department of Science & Technology, New Delhi, in thrust area 'Biodiversity Conservation' to work at University of Massachusetts, USA.
- Overseas Post Doctoral Fellowship by Department of Biotechnology, New Delhi, in thrust area 'Biodiversity Conservation' to work at Concordia Univ., Montreal, Canada.

### **Professional Associations**

- Councilor, Rangeland Management Society of India.
- Councilor, National Institute of Ecology, India.
- Editor, Indian Journal of Agroforestry.

### **Board Memberships**

- Member of multidisciplinary Committee for implementation of Environment safeguard (Hydro Electric Project), Arunachal Pradesh
- Member of Advisory Management Committee, Regional Centre, National Afforestation & Eco-Development Board, Shillong
- Member of the Committee for State Pollution Control Board of Govt. of Arunachal Pradesh
- Member of the Committee for State Medicinal Plant Board of Govt. of Arunachal Pradesh

- Member of the Committee for Biodiversity Strategy and Action Plan of Govt. of Arunachal Pradesh.
- Member of the Research Advisory Committee of Rain Forest Research Institute, ICFRE, Jorhat, Assam
- Member of advisory committee (NE region) of NATP on Germplasm collection and evaluation

### **Membership of Professional Societies**

- International Society for Tropical Ecology, India.
- National Institute of Ecology, India.
- Rangeland Management Society of India.
- Indian Society for Tree Scientists, India.
- Indian Society for Agroforestry, India.
- International Society of Environmental Botanists, India.
- Indian Society for Remote Sensing, India.
- All India Council for Technical Education.
- Indian Science Congress.

### **Reviewer for:**

Current Science, Indian Journal of Agroforestry, Tropical Ecology, International Journal of Ecology & Environment, Indian Journal of Traditional Knowledge, Forest Science, Silvae Genetica, Journal of Tropical Forest Science, Environmental Conservation, Biodiversity Conservation, Journal of Sustainable Forestry, Bioscience, Journal of Hill Research, Forest Ecology and Management, Economic Botany, Journal of Tree Sciences, Acta Oecologica, and many more.

### **Reviewed Grant Proposals for:**

Department of Science and Technology, Department of Biotechnology, Council for Scientific and Industrial Research, Ministry of Forest and Environment, Indian Council for Agriculture Research, and many more.

### **Graduate Students**

#### **Current Graduate Students**

1. Purabi Saikia (Ph. D.)
2. Jyotishman Deka (Ph.D.)
3. Sanjeeb Bharali (Ph. D.)
4. Dilip Salam
5. Ziaur Rehman Laskar (Ph. D.)
6. Amit Dutta (Ph. D.)
7. S. I. Bhuyan
8. Jimmy

#### **Recent Graduate Students**

1. Dr. Putul Bhuyan (Ph.D.)
2. Dr. Ashalata Devi (Ph.D.)
3. Dr. Lalbihari Singha (Ph.D.)
4. Dr. Ashish Paul
5. Dr. Baharul Islam Chaudhry (Ph.D.)

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**Contact**

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Professor and Head

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### List of Publications of Dr. M. L. Khan

#### Research Papers

##### 2009

1. Choudhury B.I., **Khan, M.L.** and Das A.K. Seed dormancy and germination in *Gymnocladus assamicus*: An endemic legume tree from Northeast India. *Seed Science and Technology*, 37: 582-588.
2. Barbhuiya, A.R., Arunachalam, A., Pandey, H.N., **Khan, M.L.** and Arunachalam, K. 2009. Fine root dynamics in undisturbed and disturbed stands of a tropical wet evergreen forest in northeast India. *International Journal of Forestry Research* (under revision).
3. Menon S., Choudhury B.I., **Khan M.L.** and Peterson T.A. 2009. Ecological niche modeling predicts new populations of *Gymnocladus assamicus*, a critically endangered tree species. *Endangered Species Research* (under revision).
4. Das S., **Khan M.L.**, Rabha A. and Bhattacharjya D.K. 2009. A case study on medicinal plants of Manas National Park, Assam, North East India. *Indian Journal of Traditional Knowledge* (under revision).
5. Paul A., **Khan M.L.**, Das A.K. and Dutta P.K. 2009. Diversity and Distribution of Rhododendrons in Arunachal Himalaya, India. *Journal American Rhododendron Society* (under revision).
6. Paul A., **Khan M.L.** and Das A.K. 2009. Utilization of rhododendrons by Monpas in western Arunachal Pradesh, India. *Journal American Rhododendron Society* (under revision).
7. Paul A., **Khan M.L.** and Das A.K. 2009. Significance of sprouting to natural regeneration of *Rhododendron arboreum* (Ericaceae) in temperate broad leaved forest of Arunachal Pradesh, India. *Journal of Forestry Research* (under revision).

##### 2008

8. **Khan M.L.**, Khumbongmayum A.D. and Tripathi R.S. 2008. The sacred groves and their significance in conserving biodiversity: an overview. *International Journal of Ecology and Environmental Sciences*, 34: 277-291.
9. Singha L.B., **Khan M.L.** and Devi R. 2008. Understanding Bamboo Sector for Income Generation, Employment Opportunity and Sustainable Development of the

- Northeast India. *Indian Forester*, 134:1147-1156.
10. Barbhuiya A.R., Arunachalam A., Pandey H.N., Arunachalam K. and **Khan M.L.** Effects of anthropogenic disturbance on soil microbial biomass C, N and P in a tropical rainforest ecosystem of Assam, Northeast India, *Malaysian Journal of Soil Science*, 12: 31-44.
  11. Barbhuiya A.R., Arunachalam A., Nath, P.C., **Khan M.L.** and Arunachalam K. 2008. Leaf litter decomposition of dominant tree species of Namdapha National Park, Arunachal Pradesh, northeast India *Journal of Forest Research*, 13:25–34. **(2 Citation)**.
  12. Barbhuiya A.R., Arunachalam A., Pandey H.N., and **Khan M.L.** Arunachalam K 2008. Effects of disturbance on fine roots and soil microbial biomass C, N and P in a tropical rainforest ecosystem of Northeast India. *Current Science*, 94: 572-574.

#### 2007

13. Tripathi R.S. and **Khan M.L.** 2007. Regeneration dynamics of natural forests – A Review. *Proc. Indian Natn. Sci. Acad.* 73: 167-195.
14. Choudhary B.I., **Khan M.L.**, Arunachalam A. and Arunachalam K. 2007. *Gymnocladus assamicus* fruit: A potent source of soap. *Natural Product Radiance*, 6: 427-429. **(1 Citation)**.
15. Choudhary B.I., **Khan M.L.**, Arunachalam A. & Das A.K. 2007. Population and conservation of *Gymnocladus assamicus*, a critically endangered tree species in Arunachal Pradesh, India. *Current Science*, 93: 1489-1491. **(1 Citation)**.
16. Singha L.B., **Khan M.L.** and Tripathi R.S. 2007. Micro environmental characteristics of the natural habitat of *Arundinaria maling* Gamble, a rare and endemic bamboo, in Tawang district of Arunachal Pradesh in the eastern Himalaya. *Journal of Bamboo and Rattan*. 6 (1& 2)101-114.
17. Choudhary B.I., **Khan M.L.**, Arunachalam A. and Das A.K. 2007. Ecology and conservation of the critically endangered tree species *Gymnocladus assamicus* in Arunachal Pradesh, India. *Research Letters in Ecology*. Volume 2007, Article ID 59282 doi:10.1155/2007/59282.

#### 2006

18. Khumbongmayum A.D., **Khan M.L.** and Tripathi R.S. 2006. Biodiversity conservation in sacred groves of Manipur, north east India: population structure and regeneration status of woody species. *Biodiversity and Conservation*, 15:2439-2456. **(5 Citation)**.
19. Paul A., Arunachalam A., **Khan M.L.** and Arunachalam K. 2006. *Daphne papyracea* Wall. Ex Steud. – A traditional source of paper making in Arunachal Pradesh. *Natural Product Radiance*, 52:133-138.

#### 2005

20. Duchok D., Kent K., Khumbongmayum A.D., Paul A. and **Khan M.L.** 2005. Population structure and regeneration status of medicinal tree *Illicium griffithii* in relation to disturbance gradients in temperate broad leaved forest of Arunachal Pradesh. *Current Science*, 89: 673-676. **(3 Citation)**.
21. Paul A., **Khan M.L.**, Arunachalam A. & Arunachalam K. 2005. Biodiversity and Conservation of Rhododendrons in Arunachal Pradesh in the Indo-Burma biodiversity hotspot. *Current Science*, 89: 623-634. **(4 Citation)**.
22. Khumbongmayum A.D., **Khan M.L.** and Tripathi R.S. 2005. Sacred groves of Manipur, northeast India: Biodiversity value, status and strategies for their conservation. *Biodiversity and Conservation*, 14:1541-1582. **(12 Citation)**.

23. Nath P.C., Arunachalam A., **Khan M.L.**, Arunachalam K. & Barbhuiya A.R. 2005. Vegetation analysis and tree population structure of tropical wet evergreen forests in and around Namdapha National Park, north-east India. *Biodiversity and Conservation*, 14: 2109-2136. **(5 Citation)**.
24. Khumbongmayum A.D., **Khan M.L.** and Tripathi R.S. 2005. Survival and growth of seedlings of a few tree species in the four sacred groves of Manipur, north east India. *Current Science*, 88: 1781-1788. **(3 Citation)**.
25. Khumbongmayum Ashalata Devi, **Khan M.L.** & Tripathi R.S. 2005. Ethnobotanical plants in the sacred groves of Manipur. *Indian Journal of Traditional Knowledge*, 4: 21-32. **(2 Citation)**.
26. **Khan M.L.**, Bhuyan P. and Tripathi R.S. 2005. Effects of forest disturbance on fruit set, seed dispersal and predation of Rudraksh (*Elaeocarpus ganitrus* Roxb.) in northeast India. *Current Science*, 88:133-142. **(6 Citation)**.
27. Barbhuiya A.R., Arunachalam K., Arunachalam A. and **Khan M.L.** 2005. A biodiversity perspective on the NTFP potential of Joypur Reserve Forest Assam. *Journal of Tropical Forestry*. 21:1-10.

#### 2004

28. **Khan M. L.** 2004. Effects of seed mass on seedling success in *Artocarpus heterophyllus* L., a tropical tree species of north-east India. *Acta Oecologica* 25:103-110. **(9 Citation)**.
29. **Khan M. L.**, Bhuyan P., and Tripathi R. S. 2004. Survival and growth of seedlings of Rudraksh (*Elaeocarpus ganitrus*) under varied canopy conditions after transplant. *Tropical Ecology* 45: 233-239. **(1 Citation)**.
30. **Khan M. L.** and Uma Shankar. 2004. Seed Mass, Germination and Seedling Growth in *Artocarpus chama*. *International Journal of Ecology & Environmental Science* 30:369-376. **(1 Citation)**.
31. **Khan M. L.**, Bhuyan P. and Tripathi R. S. 2004. Conservation status of Rudraksh in tropical wet evergreen forests of Arunachal Pradesh. *Current Science*, 86 (5) 646-650. **(1 Citation)**.
32. Arunachalam A., Adhikari D., Sarmah R., Majumdar M. and **Khan M. L.** 2004. Population and conservation of *Sapria himalayana* Griffith. in Namdapha national park, Arunachal Pradesh, India. *Biodiversity and Conservation* 13: 2391-2397. **(1 Citation)**.
33. Arunachalam A., Sarmah R., Adhikari D., Majumdar M. and **Khan M. L.**, 2004. Anthropogenic threats and biodiversity conservation in Namdapha Nature Reserve in the Indian Eastern Himalayas. *Current Science*, 87 (4): 447-454. **(8 Citation)**.
34. Khumbongmayum Ashalata Devi, **Khan M. L.** and Tripathi R. S. 2004. Sacred groves of Manipur – Ideal centre for the conservation of biodiversity. *Current Science*, 87 (4): 430-433. **(4 Citation)**.
35. Barbhuiya A. R., Arunachalam A., Pandey H. N., Arunachalam K., **Khan M. L.**, Nath P. C. 2004. Dynamics of soil microbial biomass C. N. and P. in disturbed and undisturbed stands of a tropical wet-evergreen forest. *European Journal of Soil Biology* 40:113-121. **(14 Citation)**.

#### 2003

36. Bhuyan P., **Khan M. L.** and Tripathi R. S. 2003. Tree diversity and population structure in undisturbed and human-impacted stands of tropical wet evergreen forest in Arunachal Pradesh, Eastern Himalayas, India. *Biodiversity & Conservation*, 12 (8):

1753-1773. **(26 Citation)**.

37. Singha L. B., Bhatt B. P. and **Khan M. L.** 2003. Flowering of *Bambusa cacharensis* Mazumdar in the southern part of North East India – a case study. *Journal of Bamboo and Rattan*, 2: 57-63. **(5 Citation)**.
38. Adhikari D, Arunachalam A., Majumder M., Sarmah R. and **Khan M. L.** 2003. A rare root parasitic plant (*Sapria himalayana* Griffith.) in Namdapha National Park, northeastern India. *Current Science*, 85 (12): 1668-1669. **(3 Citation)**.
39. **Khan M. L.**, Bhuyan P. and Tripathi R. S. 2003. Regeneration of Rudraksh (*Elaeocarpus ganitrus* Roxb.), a threatened tree species: germination strategies. *International Journal of Ecology & Environmental Science*, 29: 255-260. **(1 Citation)**.
40. Arunachalam, A., **Khan, M.L.** and Singh, N.D. 2003. Germination, growth and biomass accumulation as influenced by seed size in *Mesua ferrea* L. *Turkish Journal of Botany*, 27: 343-348. **(5 Citation)**.

## 2002

41. **Khan M. L.**, Bhuyan P., Singh N. D. and Todaria N. P. 2002. Fruit set, seed germination and seedling growth of *Mesua ferrea* (Clusiaceae) in relation to light intensity. *Journal of Tropical Forest Science*, 14 (1): 35-48. **(5 Citation)**.
42. **Khan M. L.**, Upadhyaya K., Singha L. B. & Devi K. A. 2002. A Plea for Conservation of Threatened Tree Fern (*Cyathea gigantea*). *Current Science* 82 (4): 375-376.
43. Arunachalam A., **Khan M. L.**, and Arunachalam K. 2002. Balancing traditional jhum cultivation with modern agroforestry in eastern Himalaya – A biodiversity hot spot. *Current Science* 83 (2): 117-118. **(9 Citation)**.
44. Bhuyan P., **Khan M. L.** and R. S. Tripathi 2002. Regeneration status and population structure of Rudraksh (*Elaeocarpus ganitrus* Roxb.) in relation to cultural disturbances in tropical wet evergreen forest of Arunachal Pradesh. *Current Science*, 83: 1391-1394. **(6 Citation)**.

## 2001

45. Menon S., Pontius Jr. R. Gil, Rose J., **Khan M. L.** & Bawa K. S. 2001. Identifying conservation priority areas in the tropics: A land-use change modeling approach. *Conservation Biology*, 15: 501-512. **(31 Citation)**.
46. **Khan M. L.** & Uma Shankar, 2001. Effect of seed weight, light regime, and substratum microsite on germination and seedling growth of *Quercus semiserrata* Roxb. *Tropical Ecology*, 42: 117-126. **(10 Citation)**.

## 2000

47. Bhuyan P., **Khan M. L.** and Uma Shankar. 2000. Trade-off between dispersal efficiency and seedling fitness in *Oroxylum indicum*, a wind dispersed tropical tree. *International Journal of Ecology and Environmental Sciences*, 26:67-73. **(2 Citation)**.
48. **Khan M. L.** & Babbar, S. 2000. Linear measurements for leaf area estimation. *Arunachal Forest News*. 17: 59-60.

## 1999

49. **Khan M. L.**, Bhuyan P., Uma Shankar, Todaria N. P. 1999. Seed germination and seedling fitness in *Mesua ferrea* L. In relation to fruit size and seed number per fruit. *Acta Oecologica*, 20: 599-605. **(9 Citation)**.

## 1998

50. Singh N. D. & **Khan M. L.** 1998. Influence of fruit weight and soil fertility on seed germination and seedling fitness of *Dillenia indica* Linn. *Ecology, Environment and Conservation*, 4: 45-47. **(3 Citation)**.

51. Kuba M. Maram & **Khan M. L.** 1998. Regeneration status of trees in various categories of forests in Manipur. *J. of Hill Research*. 11(2): 178-182. **(2 Citation)**.

**1997**

52. **Khan M. L.**, Menon S. & Bawa K. S. 1997. Effectiveness of protected area network in biodiversity conservation in north-east India: a case study of Meghalaya state. *Biodiversity and Conservation*, 6: 853-868. **(28 Citation)**.
53. Uma Shankar & **Khan M. L.** 1997. Biodiversity - harvest to conserve. *Arunachal Forest News*. 15: 40-46. **(2 Citation)**.

**1991**

54. Rai, J. P. N. & **Khan M. L.** 1991. Effect of leaf water potential on the contents of whole chloroplast and chloroplast membrane fractions of drought sensitive and tolerant popular clones. *Proc. Indian National Science Academy*, B57: 377-380.
55. **Khan M. L.** & Tripathi R. S. 1991. Seedling survival and growth of early and late successional tree species as affected by insect herbivory and pathogen attack in subtropical humid forest stands of north-east India. *Acta Oecologica*, 12: 569-579. **(12 Citation)**.

**1990**

56. Tripathi R. S. & **Khan M. L.** 1990. Effect of seed weight and microsite characteristics on germination and seedling fitness in two species of *Quercus* in a subtropical wet hill forest. *Oikos* 57: 289-296. **(93 Citation)**.

**1989**

57. **Khan M. L.** & Tripathi R. S. 1989. Survival and growth of transplanted nursery seedlings of three subtropical trees at burnt and unburnt sites in dense and sparse forest stands. *Tropical Ecology (India)* 30: 20-30. **(8 Citation)**.
58. **Khan M. L.** & Tripathi R. S. 1989. Effect of soil moisture, soil texture and light intensity on emergence, survival and growth of seedlings of a few sub-tropical trees. *Indian Journal of Forestry*, 12: 196-204. **(2 Citation)**.
59. **Khan M. L.** & Tripathi R. S. 1989. Effects of stump diameter, stump height and sprout density on the sprout growth of four tree species in burnt and unburnt forest plots. *Acta Oecologica - Oecologica Applicata (France)* 10: 303-316. **(11 Citation)**.

**1987**

60. **Khan M. L.** & Tripathi R. S. 1987. Ecology of forest trees of Meghalaya: seed germination, survival and growth of *Albizzia lebeck* seedlings in nature. *Indian Journal of Forestry* 10: 38-43. **(4 Citation)**.
61. **Khan M. L.**, Rai J. P. N. & Tripathi R. S. 1987. Population structure of some tree species in disturbed and protected subtropical forests of north-east India. *Acta Oecologica - Oecologia Applicata (France)* 8: 247-255. **(22 Citation)**.

**1986**

62. **Khan M. L.**, Rai J. P. N. & Tripathi R. S. 1986. Regeneration and survival of tree seedlings and sprouts in tropical deciduous and sub-tropical forest of Meghalaya, India. *Forest Ecology and Management*, 14: 293-304. **(15 Citation)**.
63. **Khan M. L.** & Tripathi R. S. 1986. Tree regeneration in a disturbed sub-tropical wet hill forest of north-east India: effect of stump diameter and height on sprouting of four tree species. *Forest Ecology and Management*, 17: 199-209. **(12 Citation)**.

**Books:**

1. Arunchalam A. & **Khan M. L.** (eds.). 2001. Sustainable Management of Forests- India. International Book Distributors, Dehra Dun.

## Books, Seminars/Symposium:

### 2009

1. Barbhuiya, A.R., **Khan, M.L.**, Arunachalam, A., Prabhu, S.D. and Chavan, V. 2009. Sacred groves: informal protected areas in the high altitudes of Eastern Himalaya, Arunachal Pradesh, Northeast India: traditional beliefs, biodiversity and conservation. In: *"National Parks, Biodiversity, Conservation and Tourism. (Eds. Frank Columbus). Nova Science Publisher, Inc., Hauppauge, NY. (In Press).*

### 2006

2. Khan M. L. & Khs. Ashalata Devi. 2006. Conserving biodiversity in sacred groves through traditional beliefs with special reference to Manipur, north-east India. In *Ecology, Diversity and Conservation of Plants and Ecosystems in India* (eds. H. N. Pandey and S. K. Barik). Regency Publications, New Delhi pp. 414-436.
3. Adhikari D., Sharma R., Arunachalam A., Melkania U., Khan M. L., Upadhyaya N., Pant R. M. and Tapasvi S. 2006. Secondary Forests and Socio-economics of Communities living around Namdapha National Park, Arunachal Pradesh. In *Shifting Agriculture and Sustainable Development of North-Eastern India: Tradition in Transition* (eds. P. S. Ramakrishnan, K. G. Saxena and K. S. Rao). Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi. pp. 239-276.

### 2004

4. Arunachalam A., Arunachalam K., **Khan M. L.** 2004. Meghalayan forests and sustainable development. In: *Challenges in Sustainable Development* (eds. P. K. Singhal & Pankaj Shrivastava). Anmol Publications Pvt. Ltd., New Delhi. Pp. 338-353.
5. Arunachalam A., Arunachalam K. & **Khan M. L.** 2004. Significance of sacred Groves in sustainable development of North-East India. In: *Challenges in Sustainable Development* (eds. P. K. Singhal & Pankaj Shrivastava). Anmol Publications Pvt. Ltd., New Delhi. Pp. 64-73.

### 2003

6. **Khan M. L.** and Arunachalam, A. 2003. Traditional agroforestry as a viable choice to conserve agro-biodiversity in the northeast India. In: *Agroforestry - Potential and Opportunities* (eds. P. S. Pathak and Ram Newaj). Pp. 95-106.
7. Barbhuiya A. R., Nath P. C., Arunachalam A., **Khan M. L.** & Arunachalam K. 2003. Biodiversity and strategies for plant germplasm conservation in Assam. In: *Proceedings on Bio-diversity Conservation Vis-à-vis Sustainable Development.* Pp. 76-79.
8. Nath P. C., Barbhuiya A. R., Arunachalam A., **Khan M. L.** & Arunachalam K. 2003. Status of biodiversity in Joypur reserve forest and its conservation strategies. In: *Proceedings on Bio-diversity Conservation Vis-à-vis Sustainable Development.* Pp. 84-87.

### 2002

9. Upadhyaya K., Arunachalam A. & **Khan M.L.** 2002. Designing proper agroforestry models for Arunachal: Scope & Challenges. In: *Proceedings of the National Workshop on Arunachal Pradesh: Environmental Planning & Sustainable Development*, HIMAVIKAS Occasional Publication No. 16 (2002), pp. 349-355.
10. Bhuyan P. and **Khan M. L.** 2002. The blue marble tree – Rudraksh. In: *Resource Management Perspective of Arunachal Agriculture*, K. A. Singh (ed.). Indian Council for Agricultural Research Complex for NEH Region, Arunachal Pradesh Centre, Basar – 791 101.

**2001**

11. Upadhyaya K., Arunachalam A., **Khan M. L.** 2001. Medicinal and aromatic plant resources of Arunachal Pradesh: Conservation and sustainable utilization as a chemical Venture. In: Sustainable Management of Forests- India. A. Arunachalam & M. L. Khan (eds.). 2001 International Book Distributors, Dehra Dun.
12. Bhuyan P., **Khan M. L.** & Tripathi R. S. 2001. Tree diversity and population structure in disturbed and human-impacted tropical wet evergreen forests of Arunachal Pradesh, North East India. Tropical Ecosystem: Structure, Diversity and Human Welfare. Proceedings of the International Conference on Tropical Ecosystems. K. N. Ganeshiah, R. Uma Shankar & K. S. Bawa (eds.), Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.

**2000**

13. Upadhyaya K., Arunachalam A., **Khan M.L.** & Singh N.D. 2001. Ecological & social interactions in Agroforestry. In: *Sustainable Management of Forests – India* A. Arunachalam & M.L. Khan (eds.), International Book Distributors, Dehra Dun.

**1998**

14. Kuba, M. Maram & **Khan M. L.** 1998. Customary laws and forestry practices of the Maram Naga Tribe. In 'Perspectives for Planning and Development in North East India'. HIMAVIKAS Occasional Publication No.11. (eds. R. C. Sundriyal, Uma Shankar, T.C. Upreti), Published by Bishen Singh Mahendra Pal Singh, Dehra Dun. Pp 225-232.
15. Tsanglao L. & **Khan M. L.** 1998. Forest resource utilization pattern: a case study in Wokha District, Nagaland. In 'Perspectives for Planning and Development in North East India'. HIMAVIKAS Occasional Publication No.11. (eds. R. C. Sundriyal, Uma Shankar, T.C. Upreti), Published by Bishen Singh Mahendra Pal Singh, Dehra Dun. Pp 150-162.

**1997**

16. **Khan M. L.** 1997. A few edible forest species of north-east India. Pages 88-92 in *Forestry for food: challenges for 2000 A. D. and beyond*. Indian Institute of Forest Management, Bhopal.

**1996**

17. **Khan M. L.** 1996. Social forestry in north-eastern India: present status and future strategies. Pages 198-204 in *Sustainable development of degraded lands through agroforestry in Asia and Pacific*. P. Singh, P.S. Pathak, M. M. Roy (eds.). Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.
18. **Khan M. L.** 1996. Regeneration potential of tree species in Meghalaya forests. Pages 161-168 in *Ecorestoration of degraded hills*, B. K. Tiwari & S. Singh (eds.). Kaushal Publications, Shillong.

**1993**

19. Das M., Tiwari M. D., Tawnenga P., Singh S., Konwar M., **Khan M. L.**, Uma Shankar & Gupta A. 1993. Implementation mechanisms for introducing EE in higher education. Pages 8-12 in *Environmental education in higher education system with special reference to north-east India*, B. K. Tiwari (ed.). Centre for Eco-development, North-Eastern Hill University, Shillong.
20. Uma Shankar & **Khan M. L.** 1993. Emphasis on environmental management training in higher education system. Pages 40-42 in *Environmental education in higher education system with special reference to north-east India*, B. K. Tiwari (ed.). Centre for Eco-development, North-Eastern Hill University, Shillong.

## 1992

21. **Khan M. L.** & Rai J. P. N. 1992. Regeneration ecology of two fast growing tree species of north-east India. Pages 137-143 in *Multipurpose trees for agroforestry systems*. IGFRI, Jhansi.
22. Tripathi R. S. & **Khan M. L.** 1992. Regeneration pattern and population structure of trees in subtropical forests of north-east India. Pages 431-441 in *Tropical ecosystem: ecology and management*, K. P. Singh & J. S. Singh (eds.). Wiley Eastern Limited, New Delhi.
23. Tripathi R. S. & **Khan M. L.** 1992. Regeneration ecology of a few tree species of Meghalaya as related to disturbance. Pages 59-65 in *Environment conservation and wasteland development in Meghalaya*, A. Gupta & D. C. Dhar (eds.). Meghalaya Science Society, Shillong

## Bulletins:

1. Tiwari, B. K, **M. L. Khan** & R. S. Tripathi 1993. *Survival of trees under afforestation programme in Nagaland*. Regional Centre National Afforestation and Eco-Development Board, North-Eastern Hill University, Shillong.
2. **Khan, M. L.**, R. S. Tripathi & B. K. Tiwari 1992. *Survival of trees under afforestation programme in Mizoram*. Regional Centre for Wastelands Development, North-Eastern Hill University, Shillong.
3. Tripathi, R. S., B. K. Tiwari & **M. L. Khan** 1991. *Survival of trees in social forestry plantations of Meghalaya*. Regional Centre for Social Forestry & Wastelands Development, North-Eastern Hill University, Shillong.

## Technical Report:

1. Biodiversity and Conservation Biology. Final Report on participation in research at University of Massachusetts, Boston, USA under BOYSCAST scheme of the DST, New Delhi. 1996.
2. Population ecology of forest trees as related to shifting cultivation and other disturbances causing deforestation in Meghalaya. Final Technical Report submitted to CSIR, New Delhi. 1992.
3. Regeneration status of a few tree species in disturbed and undisturbed (sacred grove) forest, of Meghalaya. Final Technical Report submitted to Himalayan Eco-development Programme, NEHU, Shillong. 1986.
4. Seed dispersal, germination and fitness of seedlings of Rudraksh (*Elaeocarpus ganitrus*). Final Technical Report submitted to Department of Science and Technology, New Delhi.
5. Inventory, biodiversity value, status and strategies for conservation of sacred groves of Manipur. Final Technical Report submitted to G. P. Institute of Himalayan Environment & Development, Almora, Uttranchal.
6. Exploration of germplasm of bamboos and canes in North Eastern India. Final Technical Report submitted to Indian Council for Agriculture Research (NATP).
7. Web GIS based digital atlas of the sacred groves of the north east India: pilot study with sacred groves of Arunachal Pradesh. Final Technical Report submitted to DSIR (DST), New Delhi.

8. Plant population dynamics under varied perturbation regimes and in forest successional environment, i.e., biodiversity fluxes and dynamics over space and time (MacArthur Foundation, USA through UNSECO, New Delhi under the programme “People-centered biodiversity management in Namdapha National Park in Arunachal Pradesh, India”). Final Technical Report submitted to UNESCO, New Delhi.
9. Studies on ecosystem dynamics of disturbed & undisturbed tropical rain forests of Arunachal Pradesh (India). Final Technical Report submitted to MoEF, New Delhi.
10. Strengthen the existing Botanical Garden at NERIST. Final Technical Report submitted to MoEF, New Delhi.

### **Research papers under review**

1. Singha L. B., **Khan M. L.** and Tripathi R. S. Floristic composition and phytosociology of a temperate bamboo stand of Eastern Himalayas, India. *Journal of Bamboo Science and Culture*. (Under Review).
2. **Khan M. L.**, Choudhury B. I. and Barbhuiya A. R. Management of biodiversity and livelihood issues in Arunachal Pradesh. Communicated *Forest and Livelihood: A northeastern region perspective* (Under Review).
3. Paul A., **Khan M. L.**, Das A.K. and Dutta P.K. (xxxx) Diversity and Distribution of Rhododendrons in Arunachal Himalaya, India. *Journal American Rhododendron Society* (Under Review).
4. Paul A., **Khan M.L.** and Das A.K. (xxxx) Utilization Prospect of Rhododendrons in Western Arunachal Pradesh, India. *Journal American Rhododendron Society* (Under Review).
5. Choudhury B.I., **Khan, M.L.** and Das A.K. (xxxx) Seed dormancy and germination in *Gymnocladus assamicus*: An interesting endemic legume tree from Northeast India. *Seed Science and Technology* International Seed Testing Association, Switzerland (Under review).
6. Choudhury B.I., **Khan M.L.** and Dayanandan S. (xxxx) Functional Androdioecy in *Gymnocladus assamicus* Kanj. ex P.C. Kanjilal: A critically endangered tree species in Arunachal Pradesh, India. *American Journal of Botany* (Under review).
7. Choudhury B.I. and **Khan M.L.** (xxxx) Rediscovery of *Gymnocladus chinensis* Baill: An interesting legume from Arunachal Pradesh. *Rheedea* (Under review).
8. Choudhury B.I. and **Khan M.L.** (xxxx) Conservation of Plant Biodiversity for future: A northeast Indian perspective. *Conservation of plant diversity: A northeastern Indian perspective* (Book Chapter).
9. Choudhury B.I. and **Khan M.L.** (xxxx) Conservation and management of endangered plant species: A case study from northeast India. *Global Science Book Journals*, USA.
11. Choudhury B.I., Saikia P. and **Khan M.L.** (xxxx) Conservation of Genetic Resources: A Prerequisite of the Current Millennium. *Global Science Book Journals*, USA.