2020

Faculty Details proforma for DU Web-site

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Designation		**Professor**				
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Educational Qualifications

Degree	Institution	Year
Ph.D.	**University of Delhi**	**1993**
M.Phil. / M.Tech.	**-**	
PG	**Panjab University**	**1986**
UG	**University of Delhi**	**1984**
Any other qualification		

Career Profile

Professor, Department of Environmental Studies, University of Delhi (July 2010 to present).

Professor, Centre for Environmental Management of Degraded Ecosystems (CEMDE), University of Delhi (March 2005 to present)

Administrative Assignments

Dean, Faculty of Science, University of Delhi, Nov 10 2018 – 2 May 2019

Head, Department of Environmental Studies, University of Delhi (August 8 2012 to August 7 2015; 7 Sept 2015 – 6 March 2016; Nov 10 2018 – 2 May 2019).

Director, Centre for Environmental Management of Degraded Ecosystems (CEMDE), University of Delhi (March 2005 to present)

Joint Director, School of Climate change and Sustainability, Institute of Eminence.

Areas of Interest / Specialization

Community ecology, Invasion ecology, Allelopathy, Soil ecology

Subjects Taught

Natural and Managed Ecosystem, Soil Biology

Research Guidance

List against each head (If applicable)

1. *Supervision of awarded Doctoral Thesis: Four*
2. *Supervision of Doctoral Thesis, under progress: One*

3. *Supervision of awarded M.Phil dissertations*
4. *Supervision of M.Phil dissertations, under progress: Nil*

Publications Profile

List against each head(If applicable) (as Illustrated with examples)

1. *Books/Monographs (Authored/Edited)*
2. *Research papers published in Refereed/Peer Reviewed Journals*
3.
   a) *Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals*
   b) *Research papers published in Refereed/Peer Reviewed Conferences*
   c) *Research papers Published in Conferences/Seminar other than Refereed/Peer Reviewed Conferences*
4. *Other publications (Edited works, Book reviews, Festschrift volumes, etc.)*

I. Journal articles

103. Slate M.L., Tsombou F. M., Callaway R.M., **Inderjit** and El-KeblawyA. A. 2020. Exotic *Prosopis juliflora* supresses understory diversity and promotes agricultural weeds more than a native congener. **PLANT ECOLOGY** in press.

102. Measey J, Visser V, Dgebuadze Y, **Inderjit**, Li B, Dechoum MS, Ziller SR and Richardson DM. (2019) The world needs BRICS countries to build capacity in invasion science. **PLOS BIOLOGY** 17(9): e3000404.

101. Essl F, Dawson W, Kreft H, Pergl J, Pysek P, van Kleunen M, Weigelt P, Mang T, Dullinger S, Lenzner B, Moser D, Maurel M, Seebens H, Stein A, Weber E, Chatelain C, **Inderjit,** Genovesi P, Kartesz J, Morozova O, Nishino M, Nowak P, Pagad S, Shu W, Winter M. 2019. Drivers of the relative richness of naturalized and invasive plant species on earth. ***AOB PLANTS,*** 11(5), plz051, https://doi.org/10.1093/aobpla/plz051

100. van Kleunen M, Pyšek P, Dawson W, Essl F, Kreft H,Pergl J, Weigelt P, Stein A, Dullinger S, König C, Lenzner B, Maurel N, Moser D, Seebens H , Kartesz J, Nishino M, Aleksanyan A, Ansong M, Antonova LA, Barcelona JF, Breckle SW, Brundu G, Cabezas FJ, Cárdenas D, Cárdenas-Toro J, Castaño N, Chacón E, Chatelain C, Conn B, de S. Dechoum M, Dufour-Dror JM, Ebel AL, Figueiredo E, Fragman-Sapir O, Fuentes N, Groom QJ, Henderson L, **Inderjit,** Krestov P, Kupriyanov A, Masciadri S, Meerman J, Morozova O, Nickrent D, Nogan N, Nowak A, Patzelt A, Pelser PB, Shu WS, Thomas J, Uludag A, Velayos M, Verkhosina A, Villaseñor JL, Weber E, Wieringa J, Yazlık A, Zeddam A, Zykova E and Winter M. 2019. The Global Naturalized Alien Flora (GloNAF) database. **ECOLOGY**, 100(1) e2542.

99. Singh SP, **Inderjit*,** Singh JS, Majumdar S, Moyano J, Nuñez MA and Richardson D. 2018. Insights on the persistence of pines (*Pinus* species) in the late Cretaceous and their increasing dominance in the Anthropocene. **ECOLOGY & EVOLUTION**, 00:1–15. https://doi.org/10.1002/ece3.4499

98. Berger, A., Brouquisse, R., Pathak, P.K., Hichri, I., **Inderjit,** Bhatia, S., Boscari, A., Igamberdiev, A.U. & Gupta, J.K. 2018. Pathways of nitric oxide metabolism and operation

of phytoglobins in legume nodules: missing links and future directions. **PLANT CELL & ENVIRONMENT,** 41, 2057-2068.

97. **Inderjit*,** Pergl, J., van Kleunen, M., Hejda, M., Babu, C.R., Majumdar, S., Singh, P., Singh, S.P., Salamma, S., Rao, B.R.P. & Pyšek, P. 2018. Naturalized alien flora of the Indian states: biogeographic patterns, taxonomic structure and drivers of species richness. **BIOLOGICAL INVASIONS**, 20, 1625–1638.

96. Becerra, P.*, Callaway, R., Catford, J., **Inderjit**, Andonian, K., Luce, M., Aschehoug, E. and Montesinos, D. 2018. Inhibitory effects of *Eucalyptus globulus* on understory plant growth and species richness are greater in non-native regions. **GLOBAL ECOLOGY & BIOGEOGRAPHY** 27, 68-76.

95. Zhang, F.L.*, Li, Q., Chen, F.X., Xu, H.Y., **Inderjit*** and Wan, F.H.*. 2017. Arbuscular mycorrhizal fungi facilitate growth and competitive ability of an exotic species *Flaveria bidentis.* **SOIL BIOLOGY & BIOCHEMISTRY** 115: 275-284.

94. **Inderjit***, Catford JA, Kalisz S, Simberloff D and Wardle DA. 2017. A framework for understanding human-driven vegetation change. **OIKOS** 126, 1687–1698.

93. Pyšek, P.*, Pergl, J., Essl, F., Lenzner, B., Dawson, W., Kreft, W., Weigelt, P., Winter, M., Kartesz, J., Nishino, M., Antonova, L.A., Baptiste, M.P., Barcelona, J.F., Cabezas, F.J., Cárdenas, D., Cárdenas-Toro, J., Castaño, N., Chacón, E., Chatelain, C., Dullinger, S., Ebel, A.L., Figueiredo, E., Fuentes, N., Genovesi, P., Groom, Q.J., Henderson, L., **Inderjit,** Kupriyanov, A., Masciadri, S., Maurel, N., Meerman, J., Morozova, O., Moser, D., Nickrent, D., Nowak, P.M., Pagad, S., Patzelt, A., Pelser, P.B., Seebens, H., Shu, W., Thomas, J., Velayos, M., Weber, E., Wieringa, J.J. and van Kleunen, M. 2017. Naturalized and invasive alien flora of the world: species diversity, taxonomic and phylogenetic patterns, geographic distribution and global hotspots of plant invasion. **PRESELIA,** 89: 203–274.

92. Majumdar, S., Sanwal, U. and **Inderjit*.** 2017. Interference potential of *Sorghum halepense* on soil and plant seedling growth. **PLANT AND SOIL,** 418: 219-230.

91. Carrigy AA[#], Stotz GC[#], Dettlaff MA[#], Pec GJ[#], **Inderjit,** Erbilgin N and Cahill JF Jr. 2016. Community-level determinants of smooth brome (*Bromus inermis*) growth and survival in the aspen parkland. **PLANT ECOLOGY,** 217: 1395–1413.

90. van Kleunen M, Dawson W, Essl F, Pergl J, Winter M, Weber E, Kreft H, Weigelt P, Kartesz J, Nishino J, Antonova LA, Barcelona JF, Cabezas FJ, Cárdenas D, Cárdenas-Toro J, Castaño N, Chacón E, Chatelain C, Ebel AL, Figueiredo E, Fuentes N, Groom QJ, Henderson L, **Inderjit,** Kupriyanov A, Masciadri S, Meerman J, Morozova O, Mose D, Nickrent D, Patzelt A, Pelser PB, Baptiste MP, Poopath, Schulze M, Seebens H, Shu W, Thomas J, Velayos M, Wieringa JJ and Pyšek P. 2015. Global exchange and accumulation of non-native plants. 2015. **NATURE,** 525: 100–103.

89. **Inderjit.** 2015. Introduction to the special issue: the role of soil microbial-driven belowground processes in mediating plant invasions. **AOB PLANTS,** 7: plv052.

88. Driscoll, D.A., Barney, J.N., Hulme, P. E., **Inderjit,** Martin, T. G., Pauchard, A., Pyšek, P., Richardson, D. M., Riley, S., Visser, V. and Catford, J. A. 2015. Reply to Proença et al: Sown biodiverse pastures are not a universal solution to invasion risk. **PROCEEDINGS NATIONAL ACADEMY OF SCIENCES U.S.A. (PNAS),** 112(14): E1696.

87. **Inderjit** and J. F. Cahill. 2015. Linkages of plant-soil feedbacks and underlying invasion mechanisms. **AoB Plants,** doi: 10.1093/aobpla/plv022

86. Driscoll, D.A., Barney, J.N., Hulme, P. E., **Inderjit,** Martin, T. G., Pauchard, A., Pyšek, P., Richardson, D. M., Riley, S., Visser, V. and Catford, J. A. 2014. New pastures plants intensify invasive species risk. **Proceedings National Academy of Sciences U.S.A. (PNAS),** 111: 16622-16627. [Discussed in Nature 2014, 515: 167].

85. Kaur, R., Callaway, R. M. and **Inderjit.** 2014. Soils and the conditional allelopathic effects of a tropical invader. **Soil Biology & Biochemistry**, 78: 316-325.

84. Bajpai, D. and **Inderjit.** 2013. Impact of nitrogen availability and soil communities on biomass accumulation of an invasive species. **AoB Plants***,* 5: plt045; doi:10.1093/aobpla/ plt045. [Listed in the Editors' choice].

83. Kaur, R., Gonzáles, W.L., Llambi, L.D., Soriano, P.J., Callaway, R.M., Rout, M.E., Gallaher, T.J., and **Inderjit.** 2012. Community impacts of *Prosopis juliflora* invasion: biogeographic and congeneric comparisons. **PLoS One** 7(9): e44966.

82. **Inderjit**. 2012. Exotic plant invasion in the context of plant defense against herbivores. **Plant Physiology** 158(3): 1107-1114.

81. Kaur R., Malhotra S. and **Inderjit.** 2012. Effects of invasion of *Mikania micrantha* on germination of rice seedlings, plant richness, chemical properties and respiration of soil. **Biology and Fertility of Soils** 48: 481-488.

80. **Inderjit,** Wardle D.A., Karban R. and Callaway R.M. 2011. The ecosystem and evolutionary contexts of allelopathy. **Trends in Ecology & Evolution** 26, 655-662.

79. Feng, Y.L., Li, Y.P., Wang, R.F., Callaway, R.M., Valiente-Banuet , A. and **Inderjit**. 2011. A quick return energy-use strategy by populations of a subtropical invader in the non-native range: a potential mechanism for the evolution of increased competitive ability. **Journal of Ecology** 99, 1116-1123.

78. **Inderjit**, Evans H., Crocoll C., Bajpai D., Kaur R., Feng Y., Silva C., Carreón J.T., Valiente-Banuet A., Gershenzon J., and Callaway R.M. 2011. Volatile chemicals from leaf litter are associated with invasiveness of a neotropical weed in Asia. **Ecology** 92, 316-324.

77. Gurevitch J., Fox G., Wardle G., **Inderjit** and Taub D. 2011. Emergent insights from the synthesis of conceptual frameworks for biological invasions. **Ecology Letters** 14, 407-418.

76. **Inderjit**, Bajpai D. and Rajeswari M.S. 2010. Interaction of 8-hydroxyquinoline with soil environment mediates its ecological function. **PLoS One** 5(9): e12852.

75. **Inderjit** and van der Putten, W.H. 2010. Impacts of soil microbial communities on exotic plant invasion. **Trends in Ecology & Evolution** 25, 512-519.

74. **Inderjit** and Kaushik, S. 2010. Effect of herbicides with different modes of action on physiological and cellular traits of *Anabaena fertilissima*. **Paddy and Water Environment** 8, 277-282.

73. Feng YL, Lei, Y, Wang R, Callaway RM, Valiente-Banuet A, **Inderjit,** Li Y.-P and Zheng Y-L. 2009. Evolutionary tradeoffs for nitrogen allocation to photosynthesis versus cell walls in an invasive plant. **Proceedings National Academy of Sciences U.S.A. (PNAS),** 106: 1853-1856.

72. Kaur H., Kaur R., Kaur S., Baldwin I.T., and **Inderjit.** 2009 Taking ecological function seriously: soil microbial communities can obviate allelopathic effects of released metabolites. **PLoS One** 4(3): e4700.

71. **Inderjit,** Kaur R, Kaur S. and Callaway, R.M. 2009. Impact of (±)-catechin on soil microbial communities. **COMMUNICATIVE & INTEGRATIVE BIOLOGY** 2: 1-3.

70. **Inderjit**, von Dahl C., and Baldwin I.T. 2009. Use of silenced plants in allelopathy bioassays: a novel approach. **PLANTA** 229: 569-575.

69. Mangla, S., **Inderjit** and Callaway, R.M. 2008. Exotic invasive plant accumulates native soil pathogens which inhibit native plants. **JOURNAL OF ECOLOGY**, 96: 58-67. [Appreciated by the Editors of the journal in the annual journal news; Journal of Ecology 97:1-3; Also discussed by F1000]

68. **Inderjit.** 2008. Preface. **BIOLOGICAL INVASIONS** 10: 781-783.

67. **Inderjit,** Seastedt T.R., Callaway R.M., Pollock J. and Kaur J. 2008. Allelopathy and plant invasions: traditional, congeneric, and biogeographical approaches. **BIOLOGICAL INVASIONS** 10: 875-890.

66. **Inderjit,** Pollock J.L., Callaway R.M. and Holben W. 2008. Phytotoxic effects of (±)-catechin in vitro, in soil, and in the field. **PLOS ONE** 3(7): e2536.

65. Kaushik, S. and **Inderjit.** 2007. *Oryza sativa* restricts *Phalaris minor* growth: allelochemicals or soil resource manipulation? **BIOLOGY & FERTILITY OF SOILS** 43: 557-563.

64. **Inderjit,** Callaway R.M. and Vivanco, J.M. 2006. Can plant biochemistry contribute to understanding of invasion ecology? **TRENDS IN PLANT SCIENCE** 11: 574-580.

63. **Inderjit.** 2006. Experimental complexities in evaluating the allelopathic activities in laboratory bioassays: a case study. **SOIL BIOLOGY & BIOCHEMISTRY** 38: 256-262.

62. Kaushik, S., **Inderjit,** J.C. Streibig and N. Cedergreen. 2006. Activities of mixtures of soil-applied herbicides with different molecular targets. **PEST MANAGEMENT SCIENCE** 62: 1092-1097.

61. **Inderjit,** Chapman, D., Ranelletti M., and Kaushik, S. 2006. Invasive marine algae: an ecological perspective. **BOTANICAL REVIEW** 72: 153-178.

60. **Inderjit,** R.M. Callaway and Kaushik, S. 2006. Time for international policies on biological invasions. **FRONTIERS IN ECOLOGY AND THE ENVIRONMENT** 4: 67-68.

59. Kaushik S. and **Inderjit.** 2006. Phytotoxicity of selected herbicides to mung bean (*Phaseolus aureus* Roxb.). **ENVIRONMENTAL & EXPERIMENTAL BOTANY** 55, 41-48.

58. **Inderjit** and Drake, J.A. 2006. The ecology of nonnative invasive plant species: are there consistent patterns? **PERSPECTIVES IN AGRICULTURE, VETERINARY SCIENCE, NUTRITION AND NATURAL RESOURCES** 1, No. 036.

57. Kaur H., **Inderjit** and S. Kaushik. 2005. Cellular evidence of allelopathic interference of benzoic acid to mustard (*Brassica juncea* L.) seedling growth. **PLANT PHYSIOLOGY & BIOCHEMISTRY** 43: 77-81.

56. **Inderjit,** L.A. Weston and S.O. Duke. 2005. Challenges, achievements and opportunities in allelopathy research. **JOURNAL OF PLANT INTERACTIONS** 1: 69-81.

55. **Inderjit,** Saini, M and Kaur, H. 2005. Experimental complexities in evaluating the comparative phytotoxicity of chemicals with different modes of action. **ENVIRONMENTAL & EXPERIMENTAL BOTANY** 53: 97-104.

54. **Inderjit.** 2005. Soil microorganisms: an important determinant of allelopathic activity. **PLANT AND SOIL** 274: 227-236.

53. Kaushik S. and **Inderjit.** 2005. **Effect of rice straw incorporation on phytotoxicity of isoxaflutole to an exotic weed *Phalaris minor* Retz. PLANT AND SOIL** 277, 25-30.

52. **Inderjit.** 2005. Plant invasions: habitat invasibility and dominance of invasive plant species. **PLANT AND SOIL** 277, 1-5.

51. Kaur H., **Inderjit** and P.C. Bhowmik. 2004. Phytotoxicity of isoxaflutole to *Phalaris minor* Retz. **PLANT AND SOIL** 258: 161-168.

50. **Inderjit,** Rawat, D.S., and Foy, C.L. 2004. Multifaceted approach to determine rice straw phytotoxicity. **CANADIAN JOURNAL OF BOTANY** 82: 168-172.

49. **Inderjit** and Bhowmik, P.C. 2004. Sorption of benzoic acid onto soil colloids and its implications for the allelopathy studies. **BIOLOGY & FERTILITY OF SOILS** 40: 345-348.

48. **Inderjit** and Nilsen, E.T. 2003. Bioassays and field studies for allelopathy in terrestrial plants: progress and problems. **CRITICAL REVIEWS IN PLANT SCIENCES** 22: 221-238.

47. **Inderjit** and Duke, S.O. 2003. Ecophysiological aspects of allelopathy. **PLANTA** 217: 529-539.

46. **Inderjit** and R.M. Callaway. 2003. Experimental designs for the study of allelopathy. **PLANT AND SOIL** 256: 1-11.

45. Bhowmik, P.C., and **Inderjit.** 2003. Challenges and opportunities in implementing allelopathy for natural weed management. **CROP PROTECTION** 22: 661-671.

44. **Inderjit,** Asakawa, C., and Kakuta, H. 2003. Phytotoxicity and fate of 1,1,2-trichloroethylene: a laboratory study. **JOURNAL OF CHEMICAL ECOLOGY** 29: 305-311.

43. **Inderjit** and Mallik, A.U. 2002. Can *Kalmia angustifolia* interference to black spruce (*Picea mariana*) be explained by allelopathy? **FOREST ECOLOGY & MANAGEMENT** 160: 75-84.

42. **Inderjit,** Striebig, J., and Olofsdotter, M. 2002. Joint action of phenolic acid mixtures and its significance in allelopathy research. **PHYSIOLOGIA PLANTARUM** 114: 422-428.

41. **Inderjit.** 2002. Allelopathic effect of *Pluchea lanceolata* on growth and yield components of mustard (*Brassica juncea*) and its influence on selected soil properties. **WEED BIOLOGY & MANAGEMENT** 2: 200-204.

40. **Inderjit,** and Asakawa, C. 2001. Nature of interference potential of hairy vetch (*Vicia villosa* Roth) to radish (*Raphanus sativus* L.): does allelopathy play any role? **CROP PROTECTIO**N 20: 261-265.

39. Hamidi, B A., **Inderjit,** Striebig, J., and Olofsdotter M. 2001. Laboratory bioassay for phytotoxicity: an example from wheat straw. **AGRONOMY JOURNAL** 93: 43-48.

38. **Inderjit.** 2001. Soils: environmental effect on allelochemical activity. **AGRONOMY JOURNAL** 93: 79-84.

37. **Inderjit,** Kaur, M. and Foy, C.L. 2001. On the significance of field studies in allelopathy. **WEED TECHNOLOGY** 15: 792-797.

36. Mallik, A.U. and **Inderjit**. 2001. *Kalmia angustifolia*: ecology and management. **WEED** TECHNOLOGY 15: 858-866.

35. **Inderjit** and Weiner, J. 2001. Plant allelochemical interference or soil chemical ecology? **PERSPECTIVES IN PLANT ECOLOGY, EVOLUTION & SYSTEMATICS** 4: 3-12.

34. Foy, C. L. and **Inderjit.** 2001. Understanding the role of allelopathy in weed interference and declining plant diversity. **WEED TECHNOLOGY** 15: 873-878.

33. **Inderjit,** Olofsdotter, M., and Streibig, J.C. 2001. Wheat (*Triticum aestivum*) interference with seedling growth of perennial ryegrass (*Lolium perenne*): influence of density and age. **WEED TECHNOLOGY** 15: 807-812.

32. **Inderjit,** and Weston, L.A. 2000. Are laboratory bioassays for allelopathy suitable for prediction of field responses? **JOURNAL OF CHEMICAL ECOLOGY** 26: 2111-2118.

31. **Inderjit,** and Keating, K. I. 1999. Allelopathy: principles, procedures, processes, and promises for biological control. **ADVANCES IN AGRONOMY** 67: 141-231.

30. **Inderjit,** and Foy, C. L. 1999. Nature of the interference potential of mugwort (*Artemisia vulgaris*). **WEED TECHNOLOGY** 13: 176-182.

29. **Inderjit** and Mallik, A. U. 1999. Nutrient status of black spruce (*Picea mariana*) forest soils dominated by *Kalmia angustifolia*. **ACTA OECOLOGIA** 20: 87-92.

28. **Inderjit** and Nishimura, H. 1999. Effect of the anthraquinones emodin and physcion on availability of selected soil inorganic ions. **ANNALS OF APPLIED BIOLOGY** 135: 425-429.

27. **Inderjit,** Asakawa, C. and Dakshini, K.M.M. 1999. Allelopathic potential of *Verbesina encelioides* root leachate in soil. **CANADIAN JOURNAL OF BOTANY** 77: 1419-1424.

26. **Inderjit**, Foy, C. L. and Dakshini, K.M.M. 1998. *Pluchea lanceolata*: a noxious perennial weed. **WEED TECHNOLOGY** 12: 190-193.

25. **Inderjit** and Dakshini, K.M.M. 1998. Allelopathic interference of chickweed, *Stellaria media* with seedling growth of wheat (*Triticum aestivum*). **CANADIAN JOURNAL OF BOTANY** 76: 1317-1321.

24. **Inderjit** and Dakshini, K.M.M. 1998. The use of washed test material as control in laboratory bioassay for allelopathy. **TROPICAL AGRICULTURE** 75: 396-400.

23. **Inderjit.** 1998. Influence of *Pluchea lanceolata* on selected soil properties. **AMERICAN JOURNAL OF BOTANY** 85: 64-69.

22. **Inderjit** and Mallik, A. U. 1997. Effect of phenolic compounds on selected soil properties. **FOREST ECOLOGY & MANAGEMENT** 92: 11-18.

21. **Inderjit,** Muramatsu, M and Nishimura, H. 1997. On allelopathic potential of certain terpenoids, phenolics and their mixture, and their recovery in soil. **CANADIAN JOURNAL OF BOTANY** 75: 888-891.

20. **Inderjit** and Dakshini, K.M.M. 1997. Allelopathic effects of cyanobacterial inoculum on soil characteristics and cereal growth. **CANADIAN JOURNAL OF BOTANY** 75: 1267-1272.

19. **Inderjit** and Mallik, A. U. 1997. Effect of *Ledum groenlandicum* on soil characteristics and black spruce seedling growth. **PLANT ECOLOGY** (formerly VEGETATIO) 133: 29-36.

18. **Inderjit** and del Moral, R. 1997. Is separating resource competition from allelopathy realistic? **BOTANICAL REVIEW** 63: 221-230.

17. **Inderjit** and Dakshini, K.M.M. 1996. Allelopathic potential of *Pluchea lanceolata*: comparative study of cultivated fields. **WEED SCIENCE** 44: 393-396.

16. **Inderjit** and Mallik, A. U. 1996. Growth and physiological responses of black spruce (*Picea mariana*) to sites dominated by *Ledum groenlandicum*. **JOURNAL OF CHEMICAL ECOLOGY** 22: 575-585.

15. **Inderjit.** 1996. Plant phenolics in allelopathy. **BOTANICAL REVIEW** 62: 186-202.

14. **Inderjit** and Dakshini, K.M.M. 1996. Allelopathic potential of well water from *Pluchea lanceolata*-infested cultivated fields. **JOURNAL OF CHEMICAL ECOLOGY** 22: 1123-1131.

13. **Inderjit,** Kaur, S., and Dakshini, K.M.M. 1996. Determination of allelopathic potential of a weed *Pluchea lanceolata* through a multi-faceted approach. **CANADIAN JOURNAL OF BOTANY** 74: 1445-1450.

12. **Inderjit** and Mallik, A. U. 1996. The nature of interference potential of *Kalmia angustifolia*. **CANADIAN JOURNAL OF FOREST RESEARCH** 26: 1899-1904.

11. **Inderjit** and Dakshini, K.M.M. 1995. On laboratory bioassays in allelopathy. **BOTANICAL REVIEW** 61: 28-44.

10. **Inderjit** and Dakshini, K.M.M. 1995. Allelopathic potential of an annual weed *Polypogon monspeliensis*, in crops in India. **PLANT AND SOIL** 173: 251-256.

9. **Inderjit** and Dakshini, K.M.M. 1994. Algal allelopathy. **BOTANICAL REVIEW** 60: 182-196.

8. **Inderjit** and Dakshini, K.M.M. 1994. Effect of cultivation on allelopathic interference success of the weed, *Pluchea lanceolata*. **JOURNAL OF CHEMICAL ECOLOGY** 20: 1179-1188.

7. **Inderjit** and Dakshini, K.M.M. 1994. Allelopathic effects of *Pluchea lanceolata* (Asteraceae) on characteristics of four soils and mustard and tomato growth. **AMERICAN JOURNAL OF BOTANY** 81: 799-804.

6. **Inderjit** and Dakshini, K.M.M. 1994. Allelopathic potential of phenolics from the roots of *Pluchea lanceolata*. **PHYSIOLOGIA PLANTARUM** 92: 571-576.

5. **Inderjit** and Dakshini, K.M.M. 1992. Formononetin 7-O-glucoside (ononin), an additional inhibitor in soils associated with the weed, *Pluchea lanceolata* (DC.) C. B. Clarke (Asteraceae). **JOURNAL OF CHEMICAL ECOLOGY** 18: 713-718.

4. **Inderjit** and Dakshini, K.M.M. 1992. Interference potential of *Pluchea lanceolata* (Asteraceae): growth and physiological responses of asparagus bean, *Vigna unguiculata* var. *sesquipedalis*. **AMERICAN JOURNAL OF BOTANY** 79: 977-981.

3. **Inderjit** and Dakshini, K.M.M. 1991. Investigations on some aspects of chemical ecology of cogongrass, *Imperata cylindrica* (L.) Beauv. **JOURNAL OF CHEMICAL ECOLOGY** 17: 343-352.

2. **Inderjit** and Dakshini, K.M.M. 1991. Hesperetin 7-rutinoside (hesperidin) and taxifolin 3-arabinoside as germination and growth inhibitors in soils associated with the weed, *Pluchea lanceolata* (DC.) C. B. Clarke (Asteraceae). **JOURNAL OF CHEMICAL ECOLOGY** 17: 1585-1591.

1. **Inderjit** and Dakshini, K.M.M. 1990. The nature of interference potential of *Pluchea lanceolata* (DC) C B Clarke (Asteraceae). **PLANT AND SOIL** 122: 298-302.

II. Book Chapters (peer-reviewed)

1. **Inderjit.** 2011. Allelopathy. In *The Encyclopedia of Invasive Introduced Species*. Edited by D. Simberloff and M. Rejmanek, University of California Press, Berkeley, CA. pp 16-17.

2. **Inderjit** and Kaushik, S. (2009) Management of *Phalaris minor*, an exotic weed of cropland. In *Management of Invasive Weeds.* Edited by Inderjit, Springer-Verlag, Berlin, pp. 279-286.

3. Weston, L.A. and **Inderjit.** 2007. Allelopathy, a potential tool in the development of strategies for biorational weed management. In *Non-chemical Weed Management: Principles, Concepts, and Technology.* Edited by M. K. Upadhyaya and R. E. Blackshaw. CABI, Oxfordshire, U.K. pp. 65-76.

4. **Inderjit,** M.W. Cadotte & R.I. Colautti. 2005. The ecology of biological invasions: past, present and future. In *Ecological and agricultural aspects of invasive plants*. Edited by Inderjit. Birkhauser-Verlag AG, Basal, Switzerland. pp. 19-43.

5. Kaushik S., R.E. Blackshaw and **Inderjit.** 2005. Ecology and management of the alien weed *Phalaris minor.* In *Ecological and agricultural aspects of invasive plants*. Edited by Inderjit. Birkhauser-Verlag AG, Basal, Switzerland. pp. 181-193.

6. Bhowmik, P.C. and **Inderjit.** 2004. Rationale, approach and adoption of integrated weed management. In *Weed Biology & Management* Edited by Inderjit. Kluwer Academic Publishers, The Netherlands, pp. 363-373.

7. **Inderjit** and Weston, L. 2003. Root exudates: an overview. In *Root Ecology*. Edited by de Kroon, Hans and Visser E.J.W. Springer-verlag, Heidelberg, Germany**,** pp. 235-255.

8. **Inderjit** and H. Nayyar. 2002. Shift in allelochemical functioning with selected abiotic stress. In *Chemical Ecology of Plants: Allelopathy in Aquatic and Terrestrial Ecosystems*. Edited by Inderjit and A.U. Mallik. Birkhauser-Verlag AG, Basal, Switzerland. pp. 199-218.

9. **Inderjit** and P.C. Bhowmik. 2002. Importance of allelochemical in weed invasiveness and their natural control. In *Chemical Ecology of Plants: Allelopathy in Aquatic and Terrestrial Ecosystems*. Edited by Inderjit and A.U. Mallik. Birkhauser-Verlag AG, Basal, Switzerland. pp. 188-197.

10. Kaur H., **Inderjit** and K.I. Keating. 2002. Do allelochemicals operate independent of substratum factors? In *Chemical Ecology of Plants: Allelopathy in Aquatic and Terrestrial Ecosystems*. Edited by Inderjit and A.U. Mallik. Birkhauser-Verlag AG, Basal, Switzerland. pp. 99-107.

11. Nagle, D. and **Inderjit.** 2002. The chemistry and chemical ecology of biologically active cyanobacterial metabolites. In *Chemical Ecology of Plants: Allelopathy in Aquatic and Terrestrial Ecosystems*. Edited by Inderjit and A.U. Mallik. Birkhauser-Verlag AG, Basal, Switzerland. pp. 33-56.

12. Mallik, A.U. and **Inderjit.** 2002. Problems and prospects in the study of allelochemicals: a brief introduction. In *Chemical Ecology of Plants: Allelopathy in Aquatic and Terrestrial Ecosystems*. Edited by Inderjit and A.U. Mallik. Birkhauser-Verlag AG, Basal, Switzerland. pp. 1-5.

13. **Inderjit** and E.M. Gross. 2002. Plant phenolics: potential role in aquatic and terrestrial ecosystems. Polyphenol 2000. Edited by S. Martens, D. Treutter and G. Forkmann. Germany, 206-234.

14. **Inderjit.** 2001. Multifaceted approach to study allelochemical interactions. First European OECD Allelopathy Symposium: Physiological Aspects of Allelopathy. 2001, Edited by M.J. Reigosa and N.P. Bonjoch, Vigo, Spain, 101-106.

15. **Inderjit** and Dakshini, K.M.M. 1999. Influence of allelopathy in annual and perennial cropland weeds: an example. In *Recent Advances in Allelopathy*. Vol. 1. Science for the future. Edited by Macías, F. A., Galindo, J.C.G., Molinillo, J.M.G., and Cutler, H.G. Servicio de Publicaciunes-Universidad de Cadiz, Spain. pp. 263-268.

16. Dakshini, K.M.M., Foy, C. L. and **Inderjit.** 1999. Allelopathy: one component in a multifaceted approach in ecology. In *Principles and Practices in Plant Ecology: Allelochemical Interactions*. Edited by Inderjit, K.M.M. Dakshini and Chester L. Foy. CRC Press, Boca Raton, FL. pp. 3-14.

17. **Inderjit**, Cheng, H. H. and Nishimura, H. 1999. Plant phenolics and terpenoids: transformation, degradation, and potential for allelopathic interactions. In *Principles and Practices in Plant Ecology: Allelochemical Interactions*. Edited by Inderjit, K.M.M. Dakshini and Chester L. Foy. CRC Press, Boca Raton, FL. pp. 255-266.

18. **Inderjit** and Dakshini, K.M.M. 1999. Bioassay for allelopathy: interactions of soil organic and inorganic constituents. In *Principles and Practices in Plant Ecology: Allelochemical Interactions*. Edited by Inderjit, K.M.M. Dakshini and Chester L. Foy. CRC Press, Boca Raton, FL. pp. 35-44.

19. **Inderjit** and Olofsdotter, M. 1998. Bioassays for rice allelopathy: some concerns. In *Allelopathy in Rice*. Edited by Maria Olofsdotter. IRRI Press, Manila. pp. 45-55.

20. **Inderjit** and Dakshini, K.M.M. 1995. Quercetin and quercitrin from *Pluchea lanceolata* and their effects on growth of asparagus bean. In *Allelopathy: Organisms, Processes and*

Applications. Edited by Inderjit, K.M.M. Dakshini and Frank Einhellig. ACS Symposium Series 582. American Chemical Society. Washington, DC. pp. 86-95.

III. Books (Edited Volumes)

1. **Inderjit.** 2009. Management of Invasive Weeds. Springer-Verlag, **Germany.**
2. **Inderjit** and K.G. Mukerji. 2006. Allelochemicals: biological control of plant pathogens and diseases. Springer-Verlag, **Germany.**
3. **Inderjit.** 2005. *Invasive plants: Ecological and Agricultural Aspects.* Birkhäuser Verlag AG, **Switzerland.**
4. **Inderjit.** 2004. *Weed Biology & Management.* Kluwer Academic Publishers, **The Netherlands**
5. **Inderjit,** and A.U. Mallik. 2002. *Chemical Ecology of Plants: Allelopathy in Aquatic and Terrestrial Ecosystems*. Birkhäuser Verlag AG, **Switzerland.**
6. **Inderjit,** K.M.M. Dakshini and Chester L. Foy. 1999. *Principles and Practices in Plant Ecology: Allelochemical Interactions.* CRC Press, Boca Raton, FL, **USA**
7. **Inderjit,** K.M.M. Dakshini, and F. A. Einhellig. 1995. *Allelopathy: Organisms, Processes, and* Applications. American Chemical Society (ACS), Washington, DC**, USA.**

Conference Organization/ Presentations (in the last three years)

List against each head(If applicable)

Organization of a Conference
Participation as Paper/Poster Presenter

Keynote/Plenary/Invited

1. Delivered invited lecture, “Urban invasions” at the GUBIC meeting, University of Toronto, **Canada**, June 17-21, 2019
2. Invited to participate in workshops at Stellenbosch University in South Africa, 6 to 9 November 2018, Stellenbosch, **South Africa**. The workshop focused on the establishment of a research network for invasion science for BRICS countries (Brazil, Russia, India, China and South Africa).
3. Delivered invited lecture, “Causes of biological invasions” at the Natural Resources, University of Alberta, **Canada**, January 11 2018.
4. Delivered invited lecture, “Plant chemistry as one of the drivers of plant invasion” at the International conference on biological invasions, Hangzehow, **China**, 19.11.2017 to 23.11.2017.
5. Delivered a plenary lecture, “Allelopathy: studies on the ecology of plant chemistry” at the 8th World Allelopathy Congress, Marseille, **France**, July 24-28 2017.
6. Invited by the European and Mediterranean Plant Protection Organization (EPPO) to prepare a pest risk analysis for two invasive plant species, *Prosopis juliflora* and *Hakea sericea*, May 15-19 2017, Paris, **France.**
7. Visited the University of Sharjah, **UAE** to do field work to understand the ecology of *Prosopis juliflora* in the UAE deserts, April 12 – 19, 2017.
8. Delivered lecture, established collaboration with the University of Kunming and Shenzen Genome Institute **China**, March 19 to March 24 2017, to work on the invasion and the management of *Ageratina adenophora* and *Mikania micrantha*

9. Plant Protection Institute, Chinese Academy of Sciences, Beijing, China, March 22 to March 26 2016.
10. Third Asian Allelopathy Conference, Fuzhou, China, October 30 2015 to November 2 2015.
11. University of Pittsburg, USA, June 11 2015.
12. Second HIMAP, ICIMOD workshop focused on thematic area Drivers of Change, Thimpu, Bhutan, February 4 – 6, 2015.
13. 8th International conference on Biological Invasions, Antalaya, Turkey, November 3-8 2014.
14. University of Alberta, Edmonton, October 17 2014 (give a departmental seminar).
15. Aleksandras Stulginskis University, Kauno, Lithuania, November 28-29 2013.
16. South Agricultural University, Shenyang, China, September 13-16 2013.
17. Lincoln University, Chritchurch, New Zealand, May 26-28 2013.*
18. World Allelopathy Conference, Guanghzou, China, December 15 – 19 2011.
19. University of Hawaii Manoa, USA, November 4 2011.
20. University of Toronto, Scarbrough, Canada, January 13-14 2011.*
21. IAP in Mediterranean Type Regions of the World, Trabzon, Turkey, Aug 2 – 6 2010.
22. Asia-Pacific Forest Commission meeting, Thimphu, Bhutan from June 8 – 11 2010.
23. First Asian Allelopathy Conference, Guanghzou, China, December 18 – 22 2009.
24. National Evolutionary Synthesis Center (NESCent) through the Department of Biology at Duke University, Durham, USA January 9-16 2009.
25. 5th World Allelopathy Congress, Saratoga Springs, USA, September 21-25 2008.
26. University of Fribourg, Switzerland; December 18, 2007.
27. Horticultural Central Research Institute, Yalova, Turky; 13.06.2006 – 15.06.2006
28. Weed Science Society of America Symposium, New York, USA; 11.02.2006 – 16.02.2006
29. IV International Allelopathy Congress, Wagga Wagga, Australia; 21.08.2005 – 26.08.2005
30. International Botanical Congress, Vienna, Austria; 16.07.2005 – 23.07.2005.
31. Max Planck Institute for Chemical Ecology, Jena, Germany; 14.07.2005 – 15.07.2005
32. Second University of Napoli, Napoli, Italy; 12.07.2005 – 13.07.2005
33. International symposium on allelopathy research and application, Guangzhou, China; 27.04.2004 – 29.04.2004
34. International Conference on theory and application of ecological agriculture, Nanchang, China; 24.04.2004 – 26.04.2004
35. International conference on allelopathy, Lavras, Brazil, 13.04.2004 – 16.04.2004
36. Third World Allelopathy Congress, Tsukuba, Japan; 26.08.2002 – 31.08.2002
37. Weed Science Society of America, Toronto, Canada; 06.02.2000 – 13.02.2000

38. First European Allelopathy Congress, Vigo, Spain; 20.06.2001 – 25.06.2001
39. XX Polyphenol Congress, Freising-Weihenstephan, Germany; 10.09.2000 – 18.09.2000
40. Organized a symposium and give a lecture at the Second World Allelopathy Congress, Lakehead University, Canada, 05.08.1999 – 15.08.1999
41. Workshop on Rice Allelopathy, Manila, Philippines; 24.11.1996 – 28.11.1996
42. First World Allelopathy Congress, Cadiz, Spain; 14.09.1996 – 23.09.1996
43. Botanical Society of America Meeting, University of Iowa, USA; 31.07.1993 – 12.08.1993

Lectures delivered at the International Conferences

Weed Science Society of America, Hawaii, USA; 7.2.2005 – 11.2.2005

Weed Science Society of America, Reno, Nevada, USA; 07.02.2002 – 17.02.2002

Weed Science Society of America, North Carolina, USA; 10.02.2001 – 16.02.2001

European Weed Research Society (EWRS) Meeting, Basel, Switzerland; 27.06.1999 – 02.07.1999

Weed Science Society of America, San Diego, California, USA; 07.02.1999 – 15.02.1999

Polyphenol Group Congress, Lille, France; 31.08.1998 – 06.09.1998

Weed Science Society of America, Chicago, USA; 07.02. 1998 – 14.02.1998

Weed Science Society of America, Colorado, USA; 07.02.1993 – 15.02.1993

International Society of Chemical Ecology Meeting, Kyoto, Japan; 05.07.1992 – 15.07.1992

Weed Science Society of America, Orlando, Florida; 10.02.1992 – 22.02.1992

International Society of Chemical Ecology Meeting, Laval University, Canada; 10.08.1990 – 25.08.1990

Research Projects (Major Grants/Research Collaboration)

Current project only:

None

Awards and Distinctions

- **Distinguished Visitor Award,** University of Alberta, Canada in 2017.
- **Robert H. Whittaker Distinguished Ecologist Award,** Ecological Society of America, 2015
- INSA-DFG Exchange Fellowship (2007) to visit Max Planck Institute for Chemical Ecology, Jena.
- Outstanding Young Weed Scientist, Weed Science Society of America, USA; 2001
- Grodinzky Award, International Allelopathy Society, Canada; 1999
- STA (Science & Technology Agency) Fellowship Award, Government of Japan, 1997
- Matusmae International Fellowship Award, Matusmae Foundation, Japan; 1995
- Associate, Indian Academy of Sciences, Banglore, India; 1995

Association With Professional Bodies

- *Plant and Soil,* Springer (Consulting and Section Editor – 2001 to 2014)
- *Biological Invasions,* Springer (- present)
- *Journal of Applied Ecology, Blackwell*

- *AoB Plants,* Oxford Press (2013 - present)
- *Scientific Reports,* Nature Publishing Group (2014 - present)
- *NeoBiota,* Pensoft Publishers (2014 - present)
- *Journal of Plant Ecology* Oxford Publishers (served as Associate Editor for few years)
- *Guest Editor, Plant and Soil,* Special issue, “Plant invasions: habitat invisibility and dominance of invasive plants” in 2005.
- *Guest Editor, Biological Invasions,* Special issue, “Biological invasions” in 2008.
- *Guest Editor, AoB Plants,* Special issue on, “The role of below-ground processes in mediating plant invasions” in 2015.

Other Activities