

Gudasalamani Ravikanth

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

2,646
citations

201674

27
h-index

223800

46
g-index

103
all docs

103
docs citations

103
times ranked

2676
citing authors

#	ARTICLE	IF	CITATIONS
1	Endophytic fungal strains of <i>Fusarium solani</i> , from <i>Apodytes dimidiata</i> E. Mey. ex Arn (Icacinaceae) produce camptothecin, 10-hydroxycamptothecin and 9-methoxycamptothecin. <i>Phytochemistry</i> , 2010, 71, 117-122.	2.9	256
2	<i>Fusarium proliferatum</i> , an endophytic fungus from <i>Dysoxylum binectariferum</i> Hook.f, produces rohitukine, a chromane alkaloid possessing anti-cancer activity. <i>Antonie Van Leeuwenhoek</i> , 2012, 101, 323-329.	1.7	114
3	Inhibition of plant pathogenic fungi by endophytic <i>Trichoderma</i> spp. through mycoparasitism and volatile organic compounds. <i>Microbiological Research</i> , 2021, 242, 126595.	5.3	107
4	Assessing product adulteration in natural health products for laxative yielding plants, Cassia, Senna, and <i>Chamaecrista</i> , in Southern India using DNA barcoding. <i>International Journal of Legal Medicine</i> , 2015, 129, 693-700.	2.2	101
5	Assessing species admixtures in raw drug trade of <i>Phyllanthus</i> , a hepato-protective plant using molecular tools. <i>Journal of Ethnopharmacology</i> , 2010, 130, 208-215.	4.1	97
6	Endophytic fungi from <i>Miquelia dentata</i> Bedd., produce the anti-cancer alkaloid, camptothecine. <i>Phytomedicine</i> , 2013, 20, 337-342.	5.3	86
7	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 October 2009â€“30 November 2009. <i>Molecular Ecology Resources</i> , 2010, 10, 404-408.	4.8	84
8	Large-scale whole-genome resequencing unravels the domestication history of <i>Cannabis sativa</i> . <i>Science Advances</i> , 2021, 7, .	10.3	79
9	Isolation of endophytic bacteria producing the anti-cancer alkaloid camptothecine from <i>Miquelia dentata</i> Bedd. (Icacinaceae). <i>Phytomedicine</i> , 2013, 20, 913-917.	5.3	76
10	Species Adulteration in the Herbal Trade: Causes, Consequences and Mitigation. <i>Drug Safety</i> , 2017, 40, 651-661.	3.2	74
11	Does long-distance pollen dispersal preclude inbreeding in tropical trees? Fragmentation genetics of <i>Dysoxylum malabaricum</i> in an agro-forest landscape. <i>Molecular Ecology</i> , 2012, 21, 5484-5496.	3.9	70
12	Rohitukine, a chromone alkaloid and a precursor of flavopiridol, is produced by endophytic fungi isolated from <i>Dysoxylum binectariferum</i> Hook.f and <i>Amoora rohituka</i> (Roxb). Wight & Arn. <i>Phytomedicine</i> , 2014, 21, 541-546.	5.3	68
13	Prospecting for Camptothecines from <i>Nothapodytes nimmoniana</i> in the Western Ghats, South India: Identification of High-Yielding Sources of Camptothecin and New Families of Camptothecines. <i>Journal of Chromatographic Science</i> , 2008, 46, 362-368.	1.4	60
14	An endophyte from salt-adapted Pokkali rice confers salt-tolerance to a salt-sensitive rice variety and targets a unique pattern of genes in its new host. <i>Scientific Reports</i> , 2020, 10, 3237.	3.3	58
15	New plant sources of the anti-cancer alkaloid, camptothecine from the Icacinaceae taxa, India. <i>Phytomedicine</i> , 2013, 20, 521-527.	5.3	53
16	<i>Dysoxylum binectariferum</i> Hook.f (Meliaceae), a rich source of rohitukine. <i>FITOTERAPIA</i> , 2010, 81, 145-148.	2.2	52
17	DNA barcoding and NMR spectroscopy-based assessment of species adulteration in the raw herbal trade of <i>Saraca asoca</i> (Roxb.) Willd, an important medicinal plant. <i>International Journal of Legal Medicine</i> , 2016, 130, 1457-1470.	2.2	43
18	Modeling impacts of future climate on the distribution of Myristicaceae species in the Western Ghats, India. <i>Ecological Engineering</i> , 2016, 89, 14-23.	3.6	43

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19	Restoration of camptothecine production in attenuated endophytic fungus on re-inoculation into host plant and treatment with DNA methyltransferase inhibitor. <i>World Journal of Microbiology and Biotechnology</i> , 2015, 31, 1629-1639.	3.6	41
20	Do Ecological Niche Model Predictions Reflect the Adaptive Landscape of Species?: A Test Using <i>Myristica malabarica</i> Lam., an Endemic Tree in the Western Ghats, India. <i>PLoS ONE</i> , 2013, 8, e82066.	2.5	41
21	Thermotolerance of fungal endophytes isolated from plants adapted to the Thar Desert, India. <i>Symbiosis</i> , 2018, 75, 135-147.	2.3	40
22	Hepatoprotective activity of Indian <i>Phyllanthus</i> . <i>Pharmaceutical Biology</i> , 2012, 50, 948-953.	2.9	38
23	Ambient ionization mass spectrometry imaging of rohitukine, a chromone anti-cancer alkaloid, during seed development in <i>Dysoxylum binectariferum</i> Hook.f (Meliaceae). <i>Phytochemistry</i> , 2015, 116, 104-110.	2.9	38
24	Authentication of <i>Garcinia</i> fruits and food supplements using DNA barcoding and NMR spectroscopy. <i>Scientific Reports</i> , 2018, 8, 10561.	3.3	36
25	Evaluating realized seed dispersal across fragmented tropical landscapes: a two-fold approach using parentage analysis and the neighbourhood model. <i>New Phytologist</i> , 2017, 214, 1307-1316.	7.3	35
26	Direct modelling of limited migration improves projected distributions of Himalayan amphibians under climate change. <i>Biological Conservation</i> , 2018, 227, 352-360.	4.1	33
27	Forest Trees in Human Modified Landscapes: Ecological and Genetic Drivers of Recruitment Failure in <i>Dysoxylum malabaricum</i> (Meliaceae). <i>PLoS ONE</i> , 2014, 9, e89437.	2.5	29
28	DNA barcoding to assess species adulteration in raw drug trade of "Bala" (genus: <i>Sida</i> L.) herbal products in South India. <i>Biochemical Systematics and Ecology</i> , 2015, 61, 501-509.	1.3	29
29	Camptothecin-producing endophytic bacteria from <i>Pyrenacantha volubilis</i> Hook. (Icacaceae): A possible role of a plasmid in the production of camptothecin. <i>Phytomedicine</i> , 2017, 36, 160-167.	5.3	29
30	Mud-packing frog: A novel breeding behaviour and parental care in a stream dwelling new species of <i>Nyctibatrachus</i> (Amphibia, Anura, Nyctibatrachidae). <i>Zootaxa</i> , 2014, 3796, 33.	0.5	28
31	How and why do endophytes produce plant secondary metabolites?. <i>Symbiosis</i> , 2019, 78, 193-201.	2.3	28
32	An endophytic fungus, <i>Gibberella moniliformis</i> from <i>Lawsonia inermis</i> L. produces lawsone, an orange-red pigment. <i>Antonie Van Leeuwenhoek</i> , 2017, 110, 853-862.	1.7	25
33	Chemical Profiling of <i>Nothapodytes nimmoniana</i> for Camptothecin, an Important Anticancer Alkaloid: Towards the Development of a Sustainable Production System. , 2008, , 197-213.		25
34	Modeling the impact of climate change on wild <i>Piper nigrum</i> (Black Pepper) in Western Ghats, India using ecological niche models. <i>Journal of Plant Research</i> , 2016, 129, 1033-1040.	2.4	24
35	Fine- and local- scale genetic structure of <i>Dysoxylum malabaricum</i> , a late-successional canopy tree species in disturbed forest patches in the Western Ghats, India. <i>Conservation Genetics</i> , 2017, 18, 1-15.	1.5	24
36	Genetic structure and demographic history of the endangered tree species <i>Dysoxylum malabaricum</i> (Meliaceae) in Western Ghats, India: implications for conservation in a biodiversity hotspot. <i>Ecology and Evolution</i> , 2013, 3, 3233-3248.	1.9	23

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37	Assessment of adulteration in raw herbal trade of important medicinal plants of India using DNA barcoding. 3 Biotech, 2018, 8, 135.	2.2	23
38	Transcriptome analysis of stem wood of <i>Nothapodytes nimmoniana</i> (Graham) Mabb. identifies genes associated with biosynthesis of camptothecin, an anti-carcinogenic molecule. Journal of Biosciences, 2016, 41, 119-131.	1.1	22
39	Recovery of Critically Endangered Plant Species in India:Need for a Comprehensive Approach. Current Science, 2018, 114, 504.	0.8	21
40	Fragmentation Genetics of <i>Vateria indica</i> : implications for management of forest genetic resources of an endemic dipterocarp. Conservation Genetics, 2014, 15, 533-545.	1.5	20
41	Endophytes and Plant Secondary Metabolite Synthesis: Molecular and Evolutionary Perspective. , 2014, , 177-190.		19
42	<i>Pyrenacantha volubilis</i> Wight, (Icacinaceae) a rich source of camptothecine and its derivatives, from the Coromandel Coast forests of India. F&T, 2014, 97, 105-110.	2.2	18
43	Approaches for the amelioration of adverse effects of drought stress on crop plants. Frontiers in Bioscience, 2021, 26, 928.	2.1	18
44	Genetic structure of the rattan <i>Calamus thwaitesii</i> in core, buffer and peripheral regions of three protected areas in central Western Ghats, India: do protected areas serve as refugia for genetic resources of economically important plants?. Journal of Genetics, 2007, 86, 9-18.	0.7	17
45	Integrative Taxonomic Approach for Describing a New Cryptic Species of Bush Frog (<i>Raorchestes</i>) Tj ETQq1 1 0.784314 rgBT /Overlo	2.5	17
46	Assessing Forest Structure and Composition along the Altitudinal Gradient in the State of Sikkim, Eastern Himalayas, India. Forests, 2019, 10, 633.	2.1	17
47	Securing biodiversity, securing our future: A national mission on biodiversity and human well-being for India. Biological Conservation, 2021, 253, 108867.	4.1	17
48	Tropical and subtropical Asia's valued tree species under threat. Conservation Biology, 2022, 36, .	4.7	17
49	<i>Microhyla laterite</i> sp. nov., A New Species of <i>Microhyla</i> Tschudi, 1838 (Amphibia: Anura: Microhylidae) from a Laterite Rock Formation in South West India. PLoS ONE, 2016, 11, e0149727.	2.5	16
50	Sequestration of Camptothecin, an Anticancer Alkaloid, by Chrysomelid Beetles. Journal of Chemical Ecology, 2011, 37, 533-536.	1.8	15
51	Desorption Electrospray Ionization (DESI) Mass Spectrometric Imaging of the Distribution of Rohitukine in the Seedling of <i>Dysoxylum binectariferum</i> Hook. F. PLoS ONE, 2016, 11, e0158099.	2.5	15
52	Origin and evolution of the genus <i>Piper</i> in Peninsular India. Molecular Phylogenetics and Evolution, 2019, 138, 102-113.	2.7	15
53	Assigning conservation value and identifying hotspots of endemic rattan diversity in the Western Ghats, India. Plant Diversity, 2017, 39, 263-272.	3.7	14
54	Ecological niche modeling for assessing potential distribution of <i>Pterocarpus marsupium</i> Roxb. In Ranchi, eastern India. Ecological Research, 2020, 35, 1095-1105.	1.5	14

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55	Influence of phylogeny and abiotic factors varies across early and late reproductive phenology of Himalayan <i>Rhododendrons</i> . <i>Ecosphere</i> , 2019, 10, e02581.	2.2	13
56	Role of endophytes in early seedling growth of plants: a test using systemic fungicide seed treatment. <i>Plant Physiology Reports</i> , 2019, 24, 86-95.	1.5	13
57	Genetic Structure, Diversity and Long Term Viability of a Medicinal Plant, <i>Nothapodytes nimmoniana</i> Graham. (Icacaceae), in Protected and Non-Protected Areas in the Western Ghats Biodiversity Hotspot. <i>PLoS ONE</i> , 2014, 9, e112769.	2.5	13
58	Exploring DNA quantity and quality from raw materials to botanical extracts. <i>Heliyon</i> , 2019, 5, e01935.	3.2	12
59	Ecological niche modeling for conservation planning of an endemic snail in the verge of becoming a pest in cardamom plantations in the Western Ghats biodiversity hotspot. <i>Ecology and Evolution</i> , 2016, 6, 6510-6523.	1.9	11
60	Are mini DNA-barcodes sufficiently informative to resolve species identities? An in silico analysis using <i>Phyllanthus</i> . <i>Journal of Genetics</i> , 2014, 93, 823-829.	0.7	10
61	Patterns of species discovery in the Western Ghats, a megadiversity hot spot in India. <i>Journal of Biosciences</i> , 2007, 32, 781-790.	1.1	9
62	Genetic structure and diversity of <i>Coscinium fenestratum</i> : a critically endangered liana of Western Ghats, India. <i>Plant Systematics and Evolution</i> , 2014, 300, 403-413.	0.9	9
63	Mechanism of Resistance to Camptothecin, a Cytotoxic Plant Secondary Metabolite, by <i>Lymantria</i> sp. Larvae. <i>Journal of Chemical Ecology</i> , 2018, 44, 611-620.	1.8	9
64	DNA barcoding of <i>Momordica</i> species and assessment of adulteration in <i>Momordica</i> herbal products, an anti-diabetic drug. <i>Plant Gene</i> , 2020, 22, 100227.	2.3	9
65	eDNA metabarcoding reveals dietary niche overlap among herbivores in an Indian wildlife sanctuary. <i>Environmental DNA</i> , 2021, 3, 681-696.	5.8	9
66	Changes in genetic diversity parameters in unimproved and improved populations of teak (<i>Tectona</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.7	8
67	Morphology, natural history and molecular identification of tadpoles of three endemic frog species of <i>Nyctibatrachus</i> Boulenger, 1882 (Anura: Nyctibatrachidae) from Central Western Ghats, India. <i>Journal of Natural History</i> , 2015, 49, 2667-2681.	0.5	8
68	Development and characterization of microsatellite markers for <i>Phyllanthus emblica</i> Linn., important nontimber forest product species. <i>Journal of Genetics</i> , 2018, 97, 1001-1006.	0.7	8
69	Influence of geographic distance and genetic dissimilarity among clones on flowering synchrony in a Teak (<i>Tectona grandis</i> Linn. f) clonal seed orchard. <i>Silvae Genetica</i> , 2012, 61, 10-18.	0.8	8
70	Isolation and characterization of polymorphic microsatellite loci from the invasive plant <i>Lantana camara</i> L.. <i>Conservation Genetics Resources</i> , 2012, 4, 171-173.	0.8	7
71	Establishment and standardization of in vitro regeneration protocol in <i>Nothapodytes nimmoniana</i> Graham and evaluation of camptothecine (CPT) in tissue culture plants. <i>Indian Journal of Plant Physiology</i> , 2016, 21, 1-7.	0.8	6
72	Development and characterization of microsatellite markers for <i>Dysoxylum binectariferum</i> , a medicinally important tree species in Western Ghats, India. <i>Journal of Genetics</i> , 2016, 93, 85-88.	0.7	5

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73	Identification of novel microsatellite markers for <i>Saraca asoca</i> , a medicinally important tree species in India. <i>Journal of Genetics</i> , 2016, 93, 93-95.	0.7	5
74	Translating Endophyte Research to Applications: Prospects and Challenges. , 2017, , 343-365.		5
75	Amphibians of the Sikkim Himalaya, India: an annotated checklist. <i>Check List</i> , 2017, 13, 2033.	0.4	5
76	Inhibition of the collar rot fungus, <i>Sclerotium rolfsii</i> Sacc. by an endophytic fungus <i>Alternaria</i> sp.: implications for biocontrol. <i>Plant Physiology Reports</i> , 2019, 24, 521-532.	1.5	5
77	Identifying the potential global distribution and conservation areas for <i>Terminalia chebula</i> , an important medicinal tree species under changing climate scenario. <i>Tropical Ecology</i> , 2022, 63, 584-595.	1.2	5
78	Development of eleven microsatellite markers in the red-listed tree species <i>Myristica malabarica</i> . <i>Conservation Genetics Resources</i> , 2010, 2, 305-307.	0.8	4
79	Sequestration of the plant secondary metabolite, colchicine, by the noctuid moth <i>Polytela gloriosae</i> (Fab.). <i>Chemoecology</i> , 2019, 29, 135-142.	1.1	4
80	A review of research and conservation of <i>Myristica</i> swamps, a threatened freshwater swamp of the Western Ghats, India. <i>Wetlands Ecology and Management</i> , 2022, 30, 171-189.	1.5	4
81	Spatial and Temporal Distribution Pattern of Camptothecin in Seeds and Fruits of <i>Pyrenacantha volubilis</i> Hook. (Icacinaceae) during Different Fruit Developmental Stages. <i>Current Science</i> , 2017, 112, 1034.	0.8	4
82	Distribution mapping of <i>Bauhinia vahlii</i> Wight & Arn. in India using ecological niche modelling. <i>Tropical Ecology</i> , 2022, 63, 286-299.	1.2	4
83	Ecological niche modelling for predicting the habitat suitability of endangered tree species <i>Taxus contorta</i> Griff. in Himachal Pradesh (Western Himalayas, India). <i>Tropical Ecology</i> , 2022, 63, 300-313.	1.2	4
84	Development of polymorphic microsatellite markers for the critically endangered and endemic Indian dipterocarp, <i>Vateria indica</i> L. (Dipterocarpaceae). <i>Conservation Genetics Resources</i> , 2013, 5, 465-467.	0.8	3
85	Redescription and Range Extension of <i>Microhyla sholigari</i> Dutta & Ray (Amphibia: Anura) Tj ETQq1 1 0.784314 rgBT /Overlock 10 0.9		3
86	A review on the conservation genetic studies of Indian amphibians and their implications on developing strategies for conservation. <i>Journal of Genetics</i> , 2019, 98, 1.	0.7	3
87	Development and characterization of microsatellite markers for Linn., important nontimber forest product species. <i>Journal of Genetics</i> , 2018, 97, 1001-1006.	0.7	3
88	Development of micro satellite markers for a critically endangered species, <i>Ceropegia fantastica</i> from the Western Ghats, India. <i>Conservation Genetics</i> , 2009, 10, 1825-1827.	1.5	2
89	Development of polymorphic microsatellite loci in <i>Nothapodytes nimmoniana</i> , a medicinally important tree from the Western Ghats, India. <i>Molecular Ecology Resources</i> , 2009, 9, 365-367.	4.8	2
90	Development of microsatellite markers for the resin-yielding, non-timber forest product species <i>Boswellia serrata</i> (Burseraceae). <i>Applications in Plant Sciences</i> , 2018, 6, e01180.	2.1	2

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91	Influence of microhabitat on the distribution of tadpoles of three endemic <i>Nyctibatrachus</i> species (Nyctibatrachidae) from the Western Ghats, India. <i>Biotropica</i> , 2021, 53, 1475-1485.	1.6	2
92	Ecological niche modelling to identify suitable sites for cultivation of two important medicinal lianas of the Western Ghats, India. <i>Tropical Ecology</i> , 2022, 63, 423-432.	1.2	2
93	The flooded habitat adaptation, niche differentiation, and evolution of Myristicaceae trees in the Western Ghats biodiversity hotspot in India. <i>Biotropica</i> , 2022, 54, 1349-1362.	1.6	2
94	Morphological parameters and genetic diversity of progenies from seed production areas and unimproved stands of teak (<i>Tectona grandis</i> L.f.) in India. <i>Journal of Forestry Research</i> , 2013, 24, 653-658.	3.6	1
95	Variation in seedling vigour and camptothecin content of <i>Pyrenacantha volubilis</i> Wight: insights for domestication. <i>Genetic Resources and Crop Evolution</i> , 2021, 68, 1061-1071.	1.6	1
96	Development and Characterization of Microsatellite Markers for the Endemic Frog <i>Nyctibatrachus kempholeyensis</i> and Cross Amplification with Other <i>Nyctibatrachus</i> Species from the Western Ghats, India. <i>Current Herpetology</i> , 2020, 39, 196.	0.5	1
97	Can species distribution models and molecular tools help unravel disjunct distribution of <i>Rhododendron arboreum</i> ?. <i>Journal of Genetics</i> , 2021, 100, 1.	0.7	0
98	Framework For a Collective Definition of Regenerative Agriculture in India. <i>Ecology, Economy and Society</i> , 2022, 5, .	0.2	0
99	A review on the conservation genetic studies of Indian amphibians and their implications on developing strategies for conservation. <i>Journal of Genetics</i> , 2019, 98, .	0.7	0