

Suman Kumaria

List of Publications by Year in descending order

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85
papers

1,829
citations

257450

24
h-index

330143

37
g-index

87
all docs

87
docs citations

87
times ranked

1321
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-wide identification and analysis of the <i>PAL</i> genes from the orchids <i>Apostasia shenzhenica</i>, <i>Dendrobium catenatum</i> and <i>Phalaenopsis equestris</i>. Journal of Biomolecular Structure and Dynamics, 2023, 41, 1295-1308.	3.5	5
2	Physiological insights into the role of temperature and light conditions on in vitro growth, membrane thermostability and antioxidative activity of <i>Nardostachys jatamansi</i> , an IUCN Red-listed critically endangered therapeutic plant. South African Journal of Botany, 2022, 146, 365-374.	2.5	4
3	Contrasting Reproductive Strategies of Two Nymphaea Species Affect Existing Natural Genetic Diversity as Assessed by Microsatellite Markers: Implications for Conservation and Wetlands Restoration. Frontiers in Plant Science, 2022, 13, 773572.	3.6	7
4	Deciphering the role of stress elicitors on the differential modulation of chalcone synthase gene and subsequent production of secondary metabolites in micropropagated <i>Coelogyne ovalis</i> Lindl., a therapeutically important medicinal orchid. South African Journal of Botany, 2021, 140, 336-348.	2.5	14
5	Looking for a way forward for the cryopreservation of orchid diversity. Cryobiology, 2021, 102, 1-14.	0.7	3
6	A Combinational Phytomolecular-Mediated Assessment in Micropropagated Plantlets of <i>Coelogyne ovalis</i> Lindl.: A Horticultural and Medicinal Orchid. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2020, 90, 455-466.	1.0	15
7	Molecular cloning and characterization of chalcone synthase gene from <i>Coelogyne ovalis</i> Lindl. and its stress-dependent expression. Gene, 2020, 762, 145104.	2.2	14
8	Precursor- induced bioaccumulation of secondary metabolites and antioxidant activity in suspension cultures of <i>Dendrobium fimbriatum</i> , an orchid of therapeutic importance. South African Journal of Botany, 2020, 135, 137-143.	2.5	10
9	Secondary metabolite profiling, cytotoxicity, anti-inflammatory potential and in vitro inhibitory activities of <i>Nardostachys jatamansi</i> on key enzymes linked to hyperglycemia, hypertension and cognitive disorders. Phytomedicine, 2019, 55, 58-69.	5.3	30
10	Antioxidants and improved regrowth procedure facilitated cryoconservation of <i>Paphiopedilum insigne</i> Wall. Ex. Lindl. - An Endangered Slipper Orchid. Cryobiology, 2019, 87, 60-67.	0.7	10
11	In silico characterization and transcriptional modulation of phenylalanine ammonia lyase (PAL) by abiotic stresses in the medicinal orchid <i>Vanda coerulea</i> Griff. ex Lindl.. Phytochemistry, 2018, 156, 176-183.	2.9	23
12	Transverse thin cell layer (t-TCL)-mediated improvised micropropagation protocol for endangered medicinal orchid <i>Dendrobium aphyllum</i> Roxb: an integrated phytomolecular approach. Acta Physiologiae Plantarum, 2018, 40, 1.	2.1	40
13	Artificial Seed for Short-Term Storage:Using Nodal Buds in <i>Aquilaria malaccensis</i>. Lam. Current Science, 2018, 115, 2103.	0.8	2
14	Genetic variability and association of AFLP markers with some important biochemical traits in <i>Dendrobium thysiflorum</i> , a threatened medicinal orchid. South African Journal of Botany, 2017, 109, 214-222.	2.5	22
15	In vitro regeneration of <i>Drosera burmannii</i> Vahl.: a carnivorous plant of north-east India. 3 Biotech, 2017, 7, 124.	2.2	5
16	Asymbiotic germination and seed storage of <i>Paphiopedilum insigne</i> , an endangered lady's slipper orchid. South African Journal of Botany, 2017, 112, 215-224.	2.5	29
17	Evaluation of genetic stability and analysis of phytomedicinal potential in micropropagated plants of <i>Rumex nepalensis</i> – A medicinally important source of pharmaceutical biomolecules. Journal of Applied Research on Medicinal and Aromatic Plants, 2017, 6, 80-91.	1.5	16
18	Insights into nuclear DNA content, hydrogen peroxide and antioxidative enzyme activities during transverse thin cell layer organogenesis and ex vitro acclimatization of <i>Malaxis wallichii</i> , a threatened medicinal orchid. Physiology and Molecular Biology of Plants, 2017, 23, 955-968.	3.1	25

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19	Studies on secondary metabolite profiling, anti-inflammatory potential, in vitro photoprotective and skin-aging related enzyme inhibitory activities of <i>Malaxis acuminata</i> , a threatened orchid of nutraceutical importance. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 173, 686-695.	3.8	73
20	In vitro Plant Regeneration of <i>Magnolia punduana</i> : An Endemic and Threatened Plant Species. <i>Plant Tissue Culture and Biotechnology</i> , 2017, 27, 153-159.	0.2	7
21	En-masse production of elite clones of <i>Dendrobium crepidatum</i> : A threatened, medicinal orchid used in Traditional Chinese Medicine (TCM). <i>Journal of Applied Research on Medicinal and Aromatic Plants</i> , 2016, 3, 168-176.	1.5	33
22	Carnivorous Plants as a Source of Potent Bioactive Compound: Naphthoquinones. <i>Tropical Plant Biology</i> , 2016, 9, 267-279.	1.9	30
23	Genetic diversity and molecular evolution of Naga King Chili inferred from internal transcribed spacer sequence of nuclear ribosomal DNA. <i>Meta Gene</i> , 2016, 7, 56-63.	0.6	14
24	Biotechnological enhancement of capsaicin biosynthesis in cell suspension cultures of Naga King Chili (<i>Capsicum chinense</i> Jacq.). <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 205-210.	3.4	16
25	High frequency regeneration protocol for <i>Dendrobium nobile</i> : A model tissue culture approach for propagation of medicinally important orchid species. <i>South African Journal of Botany</i> , 2016, 104, 232-243.	2.5	89
26	Assessment of genetic homogeneity and analysis of phytomedicinal potential in micropropagated plants of <i>Nardostachys jatamansi</i> , a critically endangered, medicinal plant of alpine Himalayas. <i>Plant Cell, Tissue and Organ Culture</i> , 2016, 124, 331-349.	2.3	37
27	Applicability of ISSR and DAMD markers for phyto-molecular characterization and association with some important biochemical traits of <i>Dendrobium nobile</i> , an endangered medicinal orchid. <i>Phytochemistry</i> , 2015, 117, 306-316.	2.9	41
28	Phyto-molecular profiling and assessment of antioxidant activity within micropropagated plants of <i>Dendrobium thysiflorum</i> : a threatened, medicinal orchid. <i>Plant Cell, Tissue and Organ Culture</i> , 2015, 122, 535-550.	2.3	54
29	Genetic fidelity assessment in micropropagated plants using cytogenetical analysis and heterochromatin distribution: a case study with <i>Nepenthes khasiana</i> Hook f.. <i>Protoplasma</i> , 2015, 252, 1305-1312.	2.1	10
30	Biotechnological advances on in vitro capsaicinoids biosynthesis in capsicum: a review. <i>Phytochemistry Reviews</i> , 2015, 14, 189-201.	6.5	20
31	Plantlet regeneration of <i>Paris polyphylla</i> Sm. via thin cell layer culture and enhancement of steroidal saponins in mini-rhizome cultures using elicitors. <i>Plant Growth Regulation</i> , 2015, 75, 341-353.	3.4	27
32	Molecular characterization of <i>Dendrobium nobile</i> Lindl., an endangered medicinal orchid, based on randomly amplified polymorphic DNA. <i>Plant Systematics and Evolution</i> , 2015, 301, 201-210.	0.9	30
33	Application of genetics and genomics towards <i>Capsicum</i> translational research. <i>Plant Biotechnology Reports</i> , 2014, 8, 101-123.	1.5	49
34	Manipulation of culture strategies to enhance capsaicin biosynthesis in suspension and immobilized cell cultures of <i>Capsicum chinense</i> Jacq. cv. Naga King Chili. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 1055-1063.	3.4	25
35	Single primer amplification reaction (SPAR) methods reveal subsequent increase in genetic variations in micropropagated plants of <i>Nepenthes khasiana</i> Hook. f. maintained for three consecutive generations. <i>Gene</i> , 2014, 538, 23-29.	2.2	44
36	Genetic stability and phytochemical analysis of the in vitro regenerated plants of <i>Dendrobium nobile</i> Lindl., an endangered medicinal orchid. <i>Meta Gene</i> , 2014, 2, 489-504.	0.6	123

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37	Plant regeneration through direct somatic embryogenesis from immature zygotic embryos of the medicinal plant, <i>Paris polyphylla</i> Sm.. <i>Plant Cell, Tissue and Organ Culture</i> , 2014, 118, 445-455.	2.3	25
38	Comparative study on the changes of proteins and oxidative enzymes occurring in protocorms and protocorm-like bodies systems of development in the orchid <i>Dendrobium hookerianum</i> . <i>Acta Physiologiae Plantarum</i> , 2014, 36, 2113-2123.	2.1	1
39	Assessment of genetic variation and identification of species-specific ISSR markers in five species of <i>Cymbidium</i> (Orchidaceae). <i>Journal of Plant Biochemistry and Biotechnology</i> , 2013, 22, 250-255.	1.7	12
40	In vitro propagation of <i>Homalomena aromatica</i> Schott., an endangered aromatic medicinal herb of Northeast India. <i>Physiology and Molecular Biology of Plants</i> , 2013, 19, 297-300.	3.1	7
41	Comparative study of key phosphorus and nitrogen metabolizing enzymes in mycorrhizal and non-mycorrhizal plants of <i>Dendrobium chrysanthum</i> Wall. ex Lindl.. <i>Acta Physiologiae Plantarum</i> , 2013, 35, 2311-2322.	2.1	9
42	SPAR methods revealed high genetic diversity within populations and high gene flow of <i>Vanda coerulea</i> Griff ex Lindl (Blue Vanda), an endangered orchid species. <i>Gene</i> , 2013, 519, 91-97.	2.2	30
43	Start Codon Targeted (SCoT) marker reveals genetic diversity of <i>Dendrobium nobile</i> Lindl., an endangered medicinal orchid species. <i>Gene</i> , 2013, 529, 21-26.	2.2	116
44	In vitro plantlet regeneration from cotyledon segments of <i>Capsicum chinense</i> Jacq. cv. Naga King Chili, and determination of capsaicin content in fruits of in vitro propagated plants by High Performance Liquid Chromatography. <i>Scientia Horticulturae</i> , 2013, 164, 1-8.	3.6	21
45	SPAR methods coupled with seed-oil content revealed intra-specific natural variation in <i>Jatropha curcas</i> L. from Northeast India. <i>Biomass and Bioenergy</i> , 2013, 54, 100-106.	5.7	14
46	Short-term storage of alginate-encapsulated protocorm-like bodies of <i>Dendrobium nobile</i> Lindl.: an endangered medicinal orchid from North-east India. <i>3 Biotech</i> , 2013, 3, 235-239.	2.2	21
47	New insights into character evolution, hybridization and diversity of Indian <i>Nymphaea</i> (Nymphaeaceae): evidence from molecular and morphological data. <i>Systematics and Biodiversity</i> , 2013, 11, 77-86.	1.2	9
48	Cryopreservation of <i>Cymbidium eburneum</i> Lindl. and <i>C. hookerianum</i> Rchb. f., two threatened and vulnerable orchids via encapsulation and dehydration. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2013, 49, 248-254.	2.1	20
49	In vitro propagation and assessment of clonal fidelity of <i>Nepenthes khasiana</i> Hook. f.: a medicinal insectivorous plant of India. <i>Acta Physiologiae Plantarum</i> , 2013, 35, 2813-2820.	2.1	21
50	Compatible fungi, suitable medium, and appropriate developmental stage essential for stable association of <i>Dendrobium chrysanthum</i> . <i>Journal of Basic Microbiology</i> , 2013, 53, 1025-1033.	3.3	12
51	An effective nutrient medium for asymbiotic seed germination and large-scale in vitro regeneration of <i>Dendrobium hookerianum</i> , a threatened orchid of northeast India. <i>AoB PLANTS</i> , 2012, 2012, .	2.3	35
52	Multiple shoot induction from axillary bud cultures of the medicinal orchid, <i>Dendrobium longicornu</i> . <i>AoB PLANTS</i> , 2012, 2012, pls032-pls032.	2.3	39
53	Comparative karyomorphological study of some Indian <i>Cymbidium</i> Swartz, 1799 (Cymbidieae.) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10</i>	0.8	5
54	A simple and efficient protocol for the mass propagation of <i>Cymbidium mastersii</i> : an ornamental orchid of Northeast India. <i>AoB PLANTS</i> , 2012, 2012, pls023.	2.3	33

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55	Mitotic Chromosome Studies in <i>Nepenthes khasiana</i> , An Endemic Insectivorous Plant of Northeast India. <i>Cytologia</i> , 2012, 77, 381-384.	0.6	2
56	Spectrum of Chromosome Associations in Synaptic Variants of <i>Mantisia wengeri</i> (Zingiberaceae) – An Endemic, Critically-Endangered and Probable Inter-Specific Hybrid. <i>Cytologia</i> , 2012, 77, 385-392.	0.6	3
57	Ex situ conservation of <i>Cymbidium eburneum</i> Lindl.: a threatened and vulnerable orchid, by asymbiotic seed germination. <i>3 Biotech</i> , 2012, 2, 337-343.	2.2	12
58	Osmotic stress induced-capsaicin production in suspension cultures of <i>Capsicum chinense</i> Jacq. cv. Naga King Chili. <i>Acta Physiologiae Plantarum</i> , 2012, 34, 2039-2044.	2.1	17
59	Assessment of phylogenetic inter-relationships in the genus <i>Cymbidium</i> (Orchidaceae) based on internal transcribed spacer region of rDNA. <i>Gene</i> , 2012, 495, 10-15.	2.2	25
60	Physical localization and probable transcriptional activity of 18S–5.8S–26S rRNA gene loci in some Asiatic <i>Cymbidiums</i> (Orchidaceae) from north-east India. <i>Gene</i> , 2012, 499, 362-366.	2.2	13
61	Plant Resources of India: Potentials for Future Development. <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2012, 82, 283.	1.0	4
62	Genetic variation and gene flow estimation of <i>Nepenthes khasiana</i> Hook. f. A threatened insectivorous plant of India as revealed by RAPD markers. <i>Journal of Crop Science and Biotechnology</i> , 2012, 15, 101-105.	1.5	13
63	Endomitosis in tapetal cells of some <i>Cymbidiums</i> (Orchidaceae). <i>Nucleus (India)</i> , 2012, 55, 21-25.	2.2	6
64	Comparative karyo-morphology of the two endemic and critically-endangered species of <i>Mantisia</i> (Zingiberaceae). <i>Nucleus (India)</i> , 2012, 55, 51-55.	2.2	1
65	In vitro plantlet regeneration from nodal segments and shoot tips of <i>Capsicum chinense</i> Jacq. cv. Naga King Chili. <i>3 Biotech</i> , 2012, 2, 31-35.	2.2	16
66	Sequence characteristics and phylogenetic implications of the nrDNA internal transcribed spacers (ITS) in the genus <i>Nymphaea</i> with focus on some Indian representatives. <i>Plant Systematics and Evolution</i> , 2012, 298, 93-108.	0.9	15
67	Single primer amplification reaction (SPAR) reveals inter- and intra-specific natural genetic variation in five species of <i>Cymbidium</i> (Orchidaceae). <i>Gene</i> , 2011, 483, 54-62.	2.2	40
68	Storage and high conversion frequency of encapsulated protocorm-like bodies of <i>Cymbidium devonianum</i> (orchid). <i>Journal of Horticultural Science and Biotechnology</i> , 2011, 86, 611-615.	1.9	8
69	<i>Nymphaea alba</i> var. <i>rubra</i> is a Hybrid of <i>N. alba</i> and <i>N. odorata</i> as Evidenced by Molecular Analysis. <i>Annales Botanici Fennici</i> , 2011, 48, 317-324.	0.1	5
70	Genetic diversity and gene flow estimation in <i>Prosopis cineraria</i> (L.) Druce: A key stone tree species of Indian Thar Desert. <i>Biochemical Systematics and Ecology</i> , 2011, 39, 9-13.	1.3	24
71	Synaptic variation derived plausible cytogenetical basis of rarity and endangeredness of endemic <i>Mantisia spathulata</i> Schult. <i>Nucleus (India)</i> , 2011, 54, 85-93.	2.2	12
72	Genetic diversity assessment of <i>Jatropha curcas</i> L. germplasm from Northeast India. <i>Biomass and Bioenergy</i> , 2011, 35, 3063-3070.	5.7	30

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73	Micropropagation of <i>Ilex khasiana</i> , a critically endangered and endemic holly of Northeast India. <i>AoB PLANTS</i> , 2011, 2011, plr012.	2.3	15
74	Molecular adaptation of the chloroplast <i>matK</i> gene in <i>Nymphaea tetragona</i> , a critically rare and endangered plant of India. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2011, 9, 193-196.	0.8	7
75	Single primer amplification reaction (SPAR) reveals intra-specific natural variation in <i>Prosopis cineraria</i> (L.) Druce. <i>Trees - Structure and Function</i> , 2010, 24, 855-864.	1.9	40
76	Karyo-morphological characterization of natural genetic variation in some threatened <i>Cymbidium</i> species of Northeast India. <i>Caryologia</i> , 2010, 63, 99-105.	0.3	14
77	Molecular phylogenetics and taxonomic reassessment of four Indian representatives of the genus <i>Nymphaea</i> . <i>Aquatic Botany</i> , 2010, 93, 135-139.	1.6	14
78	Micropropagation of <i>Vanda coerulea</i> Griff ex Lindl.: A study of regeneration competence of roots in vitro. , 2010, , .		1
79	Efficient In vitro Plant Regeneration Protocol from Leaf Explant of <i>Jatropha curcas</i> L " A Promising Biofuel Plant. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2010, 19, 273-275.	1.7	18
80	Multiplication through <i>in vitro</i> seed germination and pitcher development in <i>Nepenthes khasiana</i> Hook. f., a unique insectivorous plant of India. <i>Journal of Horticultural Science and Biotechnology</i> , 2009, 84, 329-332.	1.9	13
81	High frequency plantlet regeneration from rhizomatous buds in <i>Mantisia spathulata</i> Schult. and <i>Mantisia wengeri</i> Fischer and analysis of genetic uniformity using RAPD markers. <i>Indian Journal of Experimental Biology</i> , 2009, 47, 140-6.	0.0	3
82	In Vitro Propagation and Conservation of <i>Dendrobium lituiflorum</i> Lindl Through Protocorm-Like Bodies. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2008, 17, 177-181.	1.7	9
83	Protocorm Regeneration, Multiple Shoot Induction and ex vitro Establishment of <i>Cymbidium devonianum</i> Paxt.. <i>Asian Journal of Plant Sciences</i> , 2007, 6, 349-353.	0.4	13
84	Variation in the marker content of five different <i>Dendrobium</i> species: Comparative evaluation using validated HPTLC technique. <i>Journal of Applied Pharmaceutical Science</i> , 0, , 032-038.	1.0	6
85	Phylogeny and biogeography of the carnivorous plant family <i>Droseraceae</i> with representative <i>Drosera</i> species from Northeast India. <i>F1000Research</i> , 0, 6, 1454.	1.6	3