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	Genetic stability and phytochemical analysis of the in vitro regenerated plants of Dendrobium nobile Lindl., an endangered medicinal orchid. Meta Gene, 2014, 2, 489-504.	0.6	123
2	Start Codon Targeted (SCoT) marker reveals genetic diversity of Dendrobium nobile Lindl., an endangered medicinal orchid species. Gene, 2013, 529, 21-26.	2.2	116
3	High frequency regeneration protocol for Dendrobium nobile : A model tissue culture approach for propagation of medicinally important orchid species. South African Journal of Botany, 2016, 104, 232-243.	2.5	89
4	Studies on secondary metabolite profiling, anti-inflammatory potential, in vitro photoprotective and skin-aging related enzyme inhibitory activities of Malaxis acuminata , a threatened orchid of nutraceutical importance. Journal of Photochemistry and Photobiology B: Biology, 2017, 173, 686-695.	3.8	73
5	Phyto-molecular profiling and assessment of antioxidant activity within micropropagated plants of Dendrobium thyrsiflorum: a threatened, medicinal orchid. Plant Cell, Tissue and Organ Culture, 2015, 122, 535-550.	2.3	54
6	Application of genetics and genomics towards Capsicum translational research. Plant Biotechnology Reports, 2014, 8, 101-123.	1.5	49
7	Single primer amplification reaction (SPAR) methods reveal subsequent increase in genetic variations in micropropagated plants of Nepenthes khasiana Hook. f. maintained for three consecutive regenerations. Gene, 2014, 538, 23-29.	2.2	44
8	Applicability of ISSR and DAMD markers for phyto-molecular characterization and association with some important biochemical traits of Dendrobium nobile, an endangered medicinal orchid. Phytochemistry, 2015, 117, 306-316.	2.9	41
9	Single primer amplification reaction (SPAR) reveals intra-specific natural variation in Prosopis cineraria (L.) Druce. Trees - Structure and Function, 2010, 24, 855-864.	1.9	40
10	Single primer amplification reaction (SPAR) reveals inter- and intra-specific natural genetic variation in five species of Cymbidium (Orchidaceae). Gene, 2011, 483, 54-62.	2.2	40
11	Transverse thin cell layer (t-TCL)-mediated improvised micropropagation protocol for endangered medicinal orchid Dendrobium aphyllum Roxb: an integrated phytomolecular approach. Acta Physiologiae Plantarum, 2018, 40, 1.	2.1	40
12	Multiple shoot induction from axillary bud cultures of the medicinal orchid, Dendrobium longicornu. AoB PLANTS, 2012, 2012, pls032-pls032.	2.3	39
13	Assessment of genetic homogeneity and analysis of phytomedicinal potential in micropropagated plants of Nardostachys jatamansi, a critically endangered, medicinal plant of alpine Himalayas. Plant Cell, Tissue and Organ Culture, 2016, 124, 331-349.	2.3	37
14	An effective nutrient medium for asymbiotic seed germination and large-scale in vitro regeneration of Dendrobium hookerianum, a threatened orchid of northeast India. AoB PLANTS, 2012, 2012, .	2.3	35
15	A simple and efficient protocol for the mass propagation of Cymbidium mastersii: an ornamental orchid of Northeast India. AoB PLANTS, 2012, 2012, pls023.	2.3	33
16	En-masse production of elite clones of Dendrobium crepidatum : A threatened, medicinal orchid used in Traditional Chinese Medicine (TCM). Journal of Applied Research on Medicinal and Aromatic Plants, 2016, 3, 168-176.	1.5	33
17	Genetic diversity assessment of Jatropha curcas L. germplasm from Northeast India. Biomass and Bioenergy, 2011, 35, 3063-3070.	5.7	30
18	SPAR methods revealed high genetic diversity within populations and high gene flow of Vanda coerulea Griff ex Lindl (Blue Vanda), an endangered orchid species. Gene, 2013, 519, 91-97.	2.2	30

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19	Molecular characterization of Dendrobium nobile Lindl., an endangered medicinal orchid, based on randomly amplified polymorphic DNA. Plant Systematics and Evolution, 2015, 301, 201-210.	0.9	30
20	Carnivorous Plants as a Source of Potent Bioactive Compound: Naphthoquinones. Tropical Plant Biology, 2016, 9, 267-279.	1.9	30
21	Secondary metabolite profiling, cytotoxicity, anti-inflammatory potential and in vitro inhibitory activities of Nardostachys jatamansi on key enzymes linked to hyperglycemia, hypertension and cognitive disorders. Phytomedicine, 2019, 55, 58-69.	5.3	30
22	Asymbiotic germination and seed storage of Paphiopedilum insigne, an endangered lady's slipper orchid. South African Journal of Botany, 2017, 112, 215-224.	2.5	29
23	Plantlet regeneration of Paris polyphylla Sm. via thin cell layer culture and enhancement of steroidal saponins in mini-rhizome cultures using elicitors. Plant Growth Regulation, 2015, 75, 341-353.	3.4	27
24	Assessment of phylogenetic inter-relationships in the genus Cymbidium (Orchidaceae) based on internal transcribed spacer region of rDNA. Gene, 2012, 495, 10-15.	2.2	25
25	Manipulation of culture strategies to enhance capsaicin biosynthesis in suspension and immobilized cell cultures of Capsicum chinense Jacq. cv. Naga King Chili. Bioprocess and Biosystems Engineering, 2014, 37, 1055-1063.	3.4	25
26	Plant regeneration through direct somatic embryogenesis from immature zygotic embryos of the medicinal plant, Paris polyphylla Sm.. Plant Cell, Tissue and Organ Culture, 2014, 118, 445-455.	2.3	25
27	Insights into nuclear DNA content, hydrogen peroxide and antioxidative enzyme activities during transverse thin cell layer organogenesis and ex vitro acclimatization of Malaxis wallichii, a threatened medicinal orchid. Physiology and Molecular Biology of Plants, 2017, 23, 955-968.	3.1	25
28	Genetic diversity and gene flow estimation in Prosopis cineraria (L.) Druce: A key stone tree species of Indian Thar Desert. Biochemical Systematics and Ecology, 2011, 39, 9-13.	1.3	24
29	In silico characterization and transcriptional modulation of phenylalanine ammonia lyase (PAL) by abiotic stresses in the medicinal orchid Vanda coerulea Griff. ex Lindl.. Phytochemistry, 2018, 156, 176-183.	2.9	23
30	Genetic variability and association of AFLP markers with some important biochemical traits in Dendrobium thyrsiflorum, a threatened medicinal orchid. South African Journal of Botany, 2017, 109, 214-222.	2.5	22
31	In vitro plantlet regeneration from cotyledon segments of Capsicum chinense Jacq. cv. Naga King Chili, and determination of capsaicin content in fruits of in vitro propagated plants by High Performance Liquid Chromatography. Scientia Horticulturae, 2013, 164, 1-8.	3.6	21
32	Short-term storage of alginate-encapsulated protocorm-like bodies of Dendrobium nobile Lindl.: an endangered medicinal orchid from North-east India. 3 Biotech, 2013, 3, 235-239.	2.2	21
33	In vitro propagation and assessment of clonal fidelity of Nepenthes khasiana Hook. f.: a medicinal insectivorous plant of India. Acta Physiologiae Plantarum, 2013, 35, 2813-2820.	2.1	21
34	Cryopreservation of Cymbidium eburneum Lindl. and C. hookerianum Rchb. f., two threatened and vulnerable orchids via encapsulationâ€“dehydration. In Vitro Cellular and Developmental Biology - Plant, 2013, 49, 248-254.	2.1	20
35	Biotechnological advances on in vitro capsaicinoids biosynthesis in capsicum: a review. Phytochemistry Reviews, 2015, 14, 189-201.	6.5	20
36	Efficient In vitro Plant Regeneration Protocol from Leaf Explant of Jatropha curcas L â€" A Promising Biofuel Plant. Journal of Plant Biochemistry and Biotechnology, 2010, 19, 273-275.	1.7	18

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37	Osmotic stress induced-capsaicin production in suspension cultures of Capsicum chinense Jacq.cv. Naga King Chili. Acta Physiologiae Plantarum, 2012, 34, 2039-2044.	2.1	17
38	In vitro plantlet regeneration from nodal segments and shoot tips of Capsicum chinense Jacq. cv. Naga King Chili. 3 Biotech, 2012, 2, 31-35.	2.2	16
39	Biotechnological enhancement of capsaicin biosynthesis in cell suspension cultures of Naga King Chili (Capsicum chinense Jacq.). Bioprocess and Biosystems Engineering, 2016, 39, 205-210.	3.4	16
40	Evaluation of genetic stability and analysis of phytomedicinal potential in micropropagated plants of Rumex nepalensis â€“ A medicinally important source of pharmaceutical biomolecules. Journal of Applied Research on Medicinal and Aromatic Plants, 2017, 6, 80-91.	1.5	16
41	Micropropagation of Ilex khasiana, a critically endangered and endemic holly of Northeast India. AoB PLANTS, 2011, 2011, plr012.	2.3	15
42	Sequence characteristics and phylogenetic implications of the nrDNA internal transcribed spacers (ITS) in the genus Nymphaea with focus on some Indian representatives. Plant Systematics and Evolution, 2012, 298, 93-108.	0.9	15
43	A Combinational Phytomolecular-Mediated Assessment in Micropropagated Plantlets of Coelogyne ovalis 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
44	Karyo-morphological characterization of natural genetic variation in some threatenedCymbidiumspecies of Northeast India. Caryologia, 2010, 63, 99-105.	0.3	14
45	Molecular phylogenetics and taxonomic reassessment of four Indian representatives of the genus Nymphaea. Aquatic Botany, 2010, 93, 135-139.	1.6	14
46	SPAR methods coupled with seed-oil content revealed intra-specific natural variation in Jatropha curcas L. from Northeast India. Biomass and Bioenergy, 2013, 54, 100-106.	5.7	14
47	Genetic diversity and molecular evolution of Naga King Chili inferred from internal transcribed spacer sequence of nuclear ribosomal DNA. Meta Gene, 2016, 7, 56-63.	0.6	14
48	Molecular cloning and characterization of chalcone synthase gene from Coelogyne ovalis Lindl. and its stress-dependent expression. Gene, 2020, 762, 145104.	2.2	14
49	Deciphering the role of stress elicitors on the differential modulation of chalcone synthase gene and subsequent production of secondary metabolites in micropropagated Coelogyne ovalis Lindl., a therapeutically important medicinal orchid. South African Journal of Botany, 2021, 140, 336-348.	2.5	14
50	Multiplication throughin vitroseed germination and pitcher development inNepenthes khasianaHook. f., a unique insectivorous plant of India. Journal of Horticultural Science and Biotechnology, 2009, 84, 329-332.	1.9	13
51	Physical localization and probable transcriptional activity of 18Sâ€“5.8Sâ€“26S rRNA gene loci in some Asiatic Cymbidiums (Orchidaceae) from north-east India. Gene, 2012, 499, 362-366.	2.2	13
52	Genetic variation and gene flow estimation of Nepenthes khasiana Hook. F- A threatened insectivorous plant of India as revealed by RAPD markers. Journal of Crop Science and Biotechnology, 2012, 15, 101-105.	1.5	13
53	Protocorm Regeneration, Multiple Shoot Induction and ex vitro Establishment of Cymbidium devonianum Paxt.. Asian Journal of Plant Sciences, 2007, 6, 349-353.	0.4	13
54	Synaptic variation derived plausible cytogenetical basis of rarity and endangeredness of endemic Mantisia spathulata Schult. Nucleus (India), 2011, 54, 85-93.	2.2	12

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55	Ex situ conservation of Cymbidium eburneum Lindl.: a threatened and vulnerable orchid, by asymbiotic seed germination. 3 Biotech, 2012, 2, 337-343.	2.2	12
56	Assessment of genetic variation and identification of species-specific ISSR markers in five species of Cymbidium (Orchidaceae). Journal of Plant Biochemistry and Biotechnology, 2013, 22, 250-255.	1.7	12
57	Compatible fungi, suitable medium, and appropriate developmental stage essential for stable association of Dendrobium chrysanthum. Journal of Basic Microbiology, 2013, 53, 1025-1033.	3.3	12
58	Genetic fidelity assessment in micropropagated plants using cytogenetical analysis and heterochromatin distribution: a case study with Nepenthes khasiana Hook f.. Protoplasma, 2015, 252, 1305-1312.	2.1	10
59	Antioxidants and improved regrowth procedure facilitated cryoconservation of Paphiopedilum insigne Wall. Ex. Lindl. - An Endangered Slipper Orchid. Cryobiology, 2019, 87, 60-67.	0.7	10
60	Precursor- induced bioaccumulation of secondary metabolites and antioxidant activity in suspension cultures of Dendrobium fimbriatum, an orchid of therapeutic importance. South African Journal of Botany, 2020, 135, 137-143.	2.5	10
61	In Vitro Propagation and Conservation of Dendrobium lituiflorum Lindl Through Protocorm-Like Bodies. Journal of Plant Biochemistry and Biotechnology, 2008, 17, 177-181.	1.7	9
62	Comparative study of key phosphorus and nitrogen metabolizing enzymes in mycorrhizal and non-mycorrhizal plants of Dendrobium chrysanthum Wall. ex Lindl.. Acta Physiologiae Plantarum, 2013, 35, 2311-2322.	2.1	9
63	New insights into character evolution, hybridization and diversity of IndianNymphaea(Nymphaeaceae): evidence from molecular and morphological data. Systematics and Biodiversity, 2013, 11, 77-86.	1.2	9
64	Storage and high conversion frequency of encapsulated protocorm-like bodies ofCymbidium devonianum(orchid). Journal of Horticultural Science and Biotechnology, 2011, 86, 611-615.	1.9	8
65	Molecular adaptation of the chloroplastmatKgene inNymphaea tetragona,a critically rare and endangered plant of India. Plant Genetic Resources: Characterisation and Utilisation, 2011, 9, 193-196.	0.8	7
66	In vitro propagation of Homalomena aromatica Schott., an endangered aromatic medicinal herb of Northeast India. Physiology and Molecular Biology of Plants, 2013, 19, 297-300.	3.1	7
67	In vitro Plant Regeneration of Magnolia punduana: An Endemic and Threatened Plant Species. Plant Tissue Culture and Biotechnology, 2017, 27, 153-159.	0.2	7
68	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
69	Endomitosis in tapetal cells of some Cymbidiums (Orchidaceae). Nucleus (India), 2012, 55, 21-25.	2.2	6
70	Variation in the marker content of five different Dendrobium species: Comparative evaluation using validated HPTLC technique. Journal of Applied Pharmaceutical Science, 0, , 032-038.	1.0	6
71	Nymphaea albavar.rubrais a Hybrid ofN. albaandN. odorataas Evidenced by Molecular Analysis. Annales Botanici Fennici, 2011, 48, 317-324.	0.1	5
72	Comparative karyomorphological study of some Indian Cymbidium Swartz, 1799 (Cymbidieae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.8	5

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73	In vitro regeneration of Drosera burmannii Vahl.: a carnivorous plant of north-east India. 3 Biotech, 2017, 7, 124.	2.2	5
74	Genome-wide identification and analysis of the PAL genes from the orchids Apostasia shenzhenica, Dendrobium catenatum and Phalaenopsis equestris. Journal of Biomolecular Structure and Dynamics, 2023, 41, 1295-1308.	3.5	5
75	Plant Resources of India: Potentials for Future Development. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2012, 82, 283.	1.0	4
76	Physiological insights into the role of temperature and light conditions on in vitro growth, membrane thermostability and antioxidative activity of Nardostachys jatamansi, an IUCN Red-listed critically endangered therapeutic plant. South African Journal of Botany, 2022, 146, 365-374.	2.5	4
77	Spectrum of Chromosome Associations in Synaptic Variants of Mantisia wengeri (Zingiberaceae)â€"An Endemic, Critically-Endangered and Probable Inter-Specific Hybrid. Cytologia, 2012, 77, 385-392.	0.6	3
78	Looking for a way forward for the cryopreservation of orchid diversity. Cryobiology, 2021, 102, 1-14.	0.7	3
79	Phylogeny and biogeography of the carnivorous plant family Droseraceae with representative Drosera species from Northeast India. F1000Research, 0, 6, 1454.	1.6	3
80	High frequency plantlet regeneration from rhizomatous buds in Mantisia spathulata Schult. and Mantisia wengeri Fischer and analysis of genetic uniformity using RAPD markers. Indian Journal of Experimental Biology, 2009, 47, 140-6.	0.0	3
81	Mitotic Chromosome Studies in Nepenthes khasiana, An Endemic Insectivorous Plant of Northeast India. Cytologia, 2012, 77, 381-384.	0.6	2
82	Artificial Seed for Short-Term Storage:Using Nodal Buds in <i>Aquilaria malaccensis</i> Lam. Current Science, 2018, 115, 2103.	0.8	2
83	Micropropagation of Vanda coerulea Griff ex Lindl.: A study of regeneration competence of roots in vitro. , 2010, , .		1
84	Comparative karyo-morphology of the two endemic and critically-endangered species of Mantisia (Zingiberaceae). Nucleus (India), 2012, 55, 51-55.	2.2	1
85	Comparative study on the changes of proteins and oxidative enzymes occurring in protocorms and protocorm-like bodies systems of development in the orchid Dendrobium hookerianum. Acta Physiologiae Plantarum, 2014, 36, 2113-2123.	2.1	1