Sumita Jha

List of Publications by Year in descending order

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130	2,239	270111	340414
papers	citations	25 h-index	39 g-index

134	134	134	1573
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cytogenetic Diversity in Scilloideae (Asparagaceae): a Comprehensive Recollection and Exploration of Karyo-Evolutionary Trends. Botanical Review, The, 2023, 89, 158-200.	1.7	5
2	A simple and efficient protocol for hairy root culture of Arabidopsis thaliana. Plant Cell, Tissue and Organ Culture, 2022, 150, 105-112.	1.2	2
3	ï»¿A critical review on cytogenetics of Cucurbitaceae with updates on Indian taxa. Comparative Cytogenetics, 2022, 16, 93-125.	0.3	3
4	The rolBâ€transgenic <scp>Nicotiana tabacum</scp> plants exhibit upregulated ARF7 and ARF19 gene expression. Plant Direct, 2022, 6, .	0.8	1
5	A phylogenetic analysis of Momordica (Cucurbitaceae) in India based on karyo-morphology, nuclear DNA content and rDNA ITS1â€“5.8Sâ€“ITS2 sequences. Protoplasma, 2021, 258, 347-360.	1.0	7
6	Medicinal Plant Research at Crossroads: Biotechnological Approaches for Conservation, Production and Stability in Tissue Cultures and Regenerated Plants. Sustainable Development and Biodiversity, 2021, , 459-544.	1.4	4
7	A Comparative Account of Fluorescent Banding Pattern in the Karyotypes of Two Indian Luffa Species. Cytologia, 2021, 86, 35-39.	0.2	2
8	Effects associated with insertion of rol genes on morphogenic potential in explants derived from transgenic Bacopa monnieri (L.) Wettst. Plant Cell, Tissue and Organ Culture, 2021, 146, 541-552.	1.2	4
9	Morphogenesis, Genetic Stability, and Secondary Metabolite Production in Untransformed and Transformed Cultures. Reference Series in Phytochemistry, 2021, , 663-722.	0.2	6
10	Targeted profiling reveals metabolic perturbations in cryptogein-cotransformed hairy root cultures of Nicotiana tabacum. Acta Physiologiae Plantarum, 2020, 42, 1.	1.0	0
11	Agrobacterium rhizogenes Mediated Transformation of the Critically Endangered Species, Swertia chirayita. Plant Tissue Culture and Biotechnology, 2020, 29, 231-244.	0.1	6
12	In Vitro Propagation, Phytochemical and Neuropharmacological Profiles of Bacopa monnieri (L.) Wettst.: A Review. Plants, 2020, 9, 411.	1.6	29
13	Morphogenesis, Genetic Stability, and Secondary Metabolite Production in Untransformed and Transformed Cultures. Reference Series in Phytochemistry, 2020, , 1-60.	0.2	1
14	Morphogenesis, Genetic Stability, and Secondary Metabolite Production in Untransformed and Transformed Cultures. Reference Series in Phytochemistry, 2020, , 1-60.	0.2	1
15	Elicitation: A biotechnological tool for enhanced production of secondary metabolites in hairy root cultures. Engineering in Life Sciences, 2019, 19, 880-895.	2.0	163
16	A new online database on genome-related information of Indian plants. Plant Systematics and Evolution, 2019, 305, 837-843.	0.3	3
17	A molecular phylogeny of the genus Drimia (Asparagaceae: Scilloideae: Urgineeae) in India inferred from non-coding chloroplast and nuclear ribosomal DNA sequences. Scientific Reports, 2019, 9, 7563.	1.6	5
18	A critical review on use of Agrobacterium rhizogenes and their associated binary vectors for plant transformation. Biotechnology Advances, 2019, 37, 107405.	6.0	48

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19	Differences in Karyotype and Fluorochrome Banding Patterns among Variations of Trichosanthes cucumerina with Different Fruit Size. Cytologia, 2019, 84, 237-245.	0.2	7
20	Biotechnological Approaches for Production of Anti-Cancerous Compounds Resveratrol, Podophyllotoxin and Zerumbone. Current Medicinal Chemistry, 2018, 25, 4693-4717.	1.2	30
21	A Critical Review on Biotechnological Interventions for Production and Yield Enhancement of Secondary Metabolites in Hairy Root Cultures. , 2018, , 21-44.		17
22	The Effects of rol Genes of Agrobacterium rhizogenes on Morphogenesis and Secondary Metabolite Accumulation in Medicinal Plants. , 2018, , 27-51.		14
23	Hairy Roots and Phytoremediation. Reference Series in Phytochemistry, 2018, , 549-572.	0.2	4
24	Cytogenetics of two Indian varieties of Momordica charantia L. (bittergourd). Scientia Horticulturae, 2018, 240, 333-343.	1.7	12
25	Flow Cytometry and Its Utility. , 2017, , 109-126.		0
26	Metabolic Engineering for Improving Production of Taxol. Reference Series in Phytochemistry, 2017, , 463-484.	0.2	8
27	Agrobacterium rhizogenes-Mediated Transformation in Medicinal Plants: Genetic Stability in Long-Term Culture. Reference Series in Phytochemistry, 2017, , 323-345.	0.2	8
28	Morpho-histological characterization and direct shoot organogenesis in two types of explants from Bacopa monnieri on unsupplemented basal medium. Plant Cell, Tissue and Organ Culture, 2017, 130, 435-441.	1.2	8
29	Morphological and cytogenetical characterization of â€˜Dalle Khursaniâ€™: a polyploid cultivated Capsicum of India. Scientia Horticulturae, 2017, 215, 80-90.	1.7	11
30	Chromosome morphometric analysis of Indian cultivars of Lens culinaris Medik. using EMA based Giemsa staining method. Caryologia, 2017, 70, 270-283.	0.2	7
31	Ribosomal DNA ITS1, 5.8S and ITS2 secondary structure, nuclear DNA content and phytochemical analyses reveal distinctive characteristics of four subclades of Protasparagus. Journal of Systematics and Evolution, 2017, 55, 54-70.	1.6	7
32	Effects of cryptogein gene on growth, phenotype and secondary metabolite accumulation in co-transformed roots and plants of Tylophora indica. Acta Physiologiae Plantarum, 2017, 39, 1.	1.0	7
33	Fluorescent Chromosome Banding and Genome Size Estimation in Three Species of Swertia. Cytologia, 2017, 82, 513-520.	0.2	0
34	Transcriptome profiling of the floral buds and discovery of genes related to sex-differentiation in the dioecious cucurbit Coccinia grandis (L.) Voigt. Gene, 2017, 626, 395-406.	1.0	20
35	A Proteomic Approach to Evaluate the Effects of Endogenous Expression of Cryptogein Gene in Crypt-Transgenic Plants of Bacopa monnieri. Journal of Applied Biotechnology & Bioengineering, 2017, 4, .	0.0	0
36	Role of Exogenous Carbohydrate and Amino Acid Sources on Biomass and Colchicine Production in Nontransformed Root Cultures of Gloriosa superba. Plant Tissue Culture and Biotechnology, 2016, 25, 247-256.	0.1	9

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37	Hairy Roots and Phytoremediation. , 2016, , 1-24.		4
38	Micropropagation and genetic transformation of Tylophora indica (Burm. f.) Merr.: a review. Plant Cell Reports, 2016, 35, 2207-2225.	2.8	10
39	Agrobacterium rhizogenes-Mediated Transformation in Medicinal Plants: Genetic Stability in Long-Term Culture. , 2016, , 1-23.		9
40	Enhanced trans-resveratrol production in genetically transformed root cultures of Peanut (Arachis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.2	23
41	Tobacco plantlets ameliorate oxidative stress upon expression of a cryptogein gene. Plant Cell, Tissue and Organ Culture, 2016, 125, 553-570.	1.2	12
42	A sequence tagged site (STS) marker encoding Copia-like retrotransposable element is associated with male specific sex expression in Momordica dioica Roxb.. Scientia Horticulturae, 2016, 201, 265-270.	1.7	4
43	Chromosomal localization of 45S rDNA, sex-specific C values, and heterochromatin distribution in Coccinia grandis (L.) Voigt. Protoplasma, 2016, 253, 201-209.	1.0	10
44	Tuberous Medicinal Plants of India: Biology and Biotechnology. , 2016, , 319-345.		2
45	Metabolic Engineering for Improving Production of Taxol. Reference Series in Phytochemistry, 2016, , 1-22.	0.2	0
46	Genetic Transformation of Plumbago zeylanica with Agrobacterium rhizogenes Strain LBA 9402 and Characterization of Transformed Root Lines. Plant Tissue Culture and Biotechnology, 2015, 25, 21-35.	0.1	13
47	The Fate of Integrated Ri T-DNA rol Genes during Regeneration via Somatic Embryogenesis in Tylophora indica. Journal of Botany, 2015, 2015, 1-16.	1.2	4
48	Dynamics of sex expression and chromosome diversity in Cucurbitaceae: a story in the making. Journal of Genetics, 2015, 94, 793-808.	0.4	21
49	Morphological and molecular variation in Ri-transformed root lines are stable in long term cultures of Tylophora indica. Plant Growth Regulation, 2015, 75, 443-453.	1.8	17
50	Metabolic shift from withasteroid formation to phenylpropanoid accumulation in cryptogein-cotransformed hairy roots of Withania somnifera (L.) Dunal. Protoplasma, 2015, 252, 1097-1110.	1.0	21
51	Karyological relationships in Indian species of Drimia based on fluorescent chromosome banding and nuclear DNA amount. Protoplasma, 2015, 252, 283-299.	1.0	14
52	Molecular phylogenetic studies based on rDNA ITS, cpDNA trnL intron sequence and cladode characteristics in nine Protasparagus taxa. Protoplasma, 2015, 252, 1121-1134.	1.0	9
53	Effects associated with insertion of cryptogein gene utilizing Ri and Ti plasmids on morphology and secondary metabolites are stable in Bacopa monnieri-transformed plants grown in vitro and ex vitro. Plant Biotechnology Reports, 2015, 9, 231-245.	0.9	19
54	Cytogenetic and DNA fingerprinting analysis in three species ofSwertiafrom Eastern Himalaya. Caryologia, 2015, 68, 207-216.	0.2	5

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55	Differential heterochromatin distribution, flow cytometric genome size and meiotic behavior of chromosomes in three Cucurbitaceae species. Scientia Horticulturae, 2015, 193, 322-329.	1.7	14
56	Genetic transformation of sarpagandha (Rauvolfia serpentina) with Agrobacterium rhizogenes for identification of high alkaloid yielding lines. Acta Physiologiae Plantarum, 2014, 36, 1599-1605.	1.0	14
57	An improved method of genome size estimation by flow cytometry in five mucilaginous species of Hyacinthaceae. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2014, 85, 833-840.	1.1	19
58	An APETALA3 MADS-box linked SCAR marker associated with male specific sex expression in Coccinia grandis (L). Voigt. Scientia Horticulturae, 2014, 176, 85-90.	1.7	12
59	Cytogenetic characterization of Agrobacterium rhizogenes transformed root lines of Rauvolfia serpentina. Nucleus (India), 2014, 57, 105-112.	0.9	9
60	Indian Swertia from Eastern Himalaya: Strategies of Conservation and Biotechnological Improvements. , 2014, , 279-301.		4
61	Plants: The Future Pharmaceutical Factory. American Journal of Plant Sciences, 2014, 05, 319-327.	0.3	12
62	Genetic and morphological stability of six-year-old transgenic Tylophora indica plants. Nucleus (India), 2013, 56, 81-89.	0.9	22
63	Development of an ISSR based STS marker for sex identification in pointed gourd (Trichosanthes dioica) Tj ETQq1 1 0.784314 rgBT /Ov	1.7	23
64	Agrobacterium rhizogenes-Mediated Transformation in Medicinal Plants: Prospects and Challenges. , 2013, , 29-68.		27
65	Alkaloids Derived from Tyrosine: Penethylisoquinoline (Autumnaline, Colchicine). , 2013, , 461-478.		4
66	Bacosides and Neuroprotection. , 2013, , 3639-3660.		8
67	Hairy Roots: A Promising Tool for Phytoremediation. , 2012, , 607-629.		14
68	Use of the cryptogein gene to stimulate the accumulation of bacopa saponins in transgenic Bacopa monnieri plants. Plant Cell Reports, 2012, 31, 1899-1909.	2.8	30
69	Molecular characterization of aromatic Oryza sativa L. cultivars from West Bengal, India. Nucleus (India), 2012, 55, 83-88.	0.9	5
70	Karyotype analysis of three important traditional Indian medicinal plants, Bacopa monnieri, Tylophora indica and Withania somnifera. Nucleus (India), 2012, 55, 17-20.	0.9	16
71	Chromosome number and modal karyotype in a polysomatic endangered orchid, Bulbophyllum auricomum Lindl., the Royal Flower of Myanmar. Plant Systematics and Evolution, 2011, 294, 167-175.	0.3	9
72	Genetic transformation of Bacopa monnieri by wild type strains of Agrobacterium rhizogenes stimulates production of bacopa saponins in transformed calli and plants. Plant Cell Reports, 2011, 30, 941-954.	2.8	72

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73	Genomic variations among in vitro regenerated Bulbophyllum auricomum Lindl. plants. Nucleus (India), 2011, 54, 9-17.	0.9	3
74	Polymorphism in Gloriosa superba. Plant Genetic Resources: Characterisation and Utilisation, 2009, 7, 9-15.	0.4	6
75	Transgenic mimicry of pathogen attack stimulates growth and secondary metabolite accumulation. Transgenic Research, 2009, 18, 121-134.	1.3	42
76	Characterization of Podophyllotoxin Yielding Cell Lines ofPodophyllum hexandrum. Caryologia, 2009, 62, 220-235.	0.2	18
77	Plant Regeneration Through Somatic Embryogenesis in Taxus wallichiana. Journal of Plant Biochemistry and Biotechnology, 2008, 17, 37-44.	0.9	8
78	Colchicine â€“ an Overview for Plant Biotechnologists. , 2008, , 215-232.		3
79	In vitro tuberisation of Gloriosa superba L. on basal medium. Scientia Horticulturae, 2007, 114, 220-223.	1.7	23
80	Changes in morphological phenotypes and withanolide composition of Ri-transformed roots of Withania somnifera. Plant Cell Reports, 2007, 26, 599-609.	2.8	90
81	Genetic Transformation for Production of Secondary Metabolites. , 2007, , 297-333.		1
82	Aluminium Chloride Enhances Colchicine Production in Root Cultures of Gloriosa superba. Biotechnology Letters, 2006, 28, 497-503.	1.1	41
83	Organogenesis and plant regeneration in Taxus wallichiana (Zucc.). Plant Cell Reports, 2006, 25, 11-18.	2.8	27
84	Spontaneous plant regeneration in transformed roots and calli from Tylophora indica: changes in morphological phenotype and tylophorine accumulation associated with transformation by Agrobacterium rhizogenes. Plant Cell Reports, 2006, 25, 1059-1066.	2.8	59
85	Genetic transformation of Tylophora indica with Agrobacterium rhizogenesï¿½A4: growth and tylophorine productivity in different transformed root clones. Plant Cell Reports, 2005, 24, 25-35.	2.8	78
86	Biotechnological approaches for the production of forskolin, withanolides, colchicine and tylophorine. Plant Genetic Resources: Characterisation and Utilisation, 2005, 3, 101-115.	0.4	19
87	The root: a potential new source of competent cells for high-frequency regeneration in Tylophora indica. Plant Cell Reports, 2004, 22, 731-740.	2.8	43
88	Tissue Culture of Cashewnut. , 2004, , 244-260.		3
89	Higher Production of Forskolin in Genetically Transformed Cultures of Coleus forskohlii Briq Induced by Growth Regulators. Journal of Plant Biochemistry and Biotechnology, 2003, 12, 81-85.	0.9	5
90	Variation in Content of Taxol and Related Taxanes in Eastern Himalayan Populations of Taxus wallichiana. Planta Medica, 2002, 68, 757-759.	0.7	30

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91	Title is missing!. Biotechnology Letters, 2002, 24, 231-234.	1.1	53
92	Production of Withaferin A in Shoot Cultures of Withania somnifera. Planta Medica, 2001, 67, 432-436.	0.7	81
93	Title is missing!. Biotechnology Letters, 2000, 22, 133-136.	1.1	14
94	Establishment of forskolin yielding transformed cell suspension cultures of Coleus forskohlii as controlled by different factors. Journal of Biotechnology, 2000, 76, 73-81.	1.9	40
95	Factors affecting in vitro development of embryonic axes of cashewnut. Scientia Horticulturae, 1999, 82, 135-144.	1.7	7
96	Withanolide synthesis in cultures of Withania somnifera transformed with Agrobacterium tumefaciens. Plant Science, 1999, 146, 1-7.	1.7	38
97	Improved Taxol Yield in Cell Suspension Culture ofTaxus wallichiana(Himalayan Yew). Planta Medica, 1998, 64, 270-272.	0.7	28
98	Genetic transformation of Artemisia annua by Agrobacterium tumefaciens and artemisinin synthesis in transformed cultures. Plant Science, 1997, 122, 193-199.	1.7	30
99	Organogenesis and regeneration from pigmented callus in Camellia sinensis (L.) O. Kuntze cv. Nandadevi, an elite Darjeeling tea clone. Plant Science, 1996, 121, 207-212.	1.7	6
100	Forskolin synthesis in in vitro cultures of Coleus forskohlii Briq transformed with Agrobacterium tumefaciens. Plant Cell Reports, 1996, 15, 691-694.	2.8	21
101	In vitro propagation of cashewnut. Plant Cell Reports, 1996, 15, 615-619.	2.8	46
102	Withanolide Production by Root Cultures ofWithania somniferaTransformed withAgrobacterium rhizogenes. Planta Medica, 1996, 62, 571-573.	0.7	53
103	Forskolin synthesis in in vitro cultures of Coleus forskohlii Briq transformed with Agrobacterium tumefaciens. Plant Cell Reports, 1996, 15, 691-694.	2.8	2
104	In vitro propagation of cashewnut. Plant Cell Reports, 1996, 15, 615-619.	2.8	3
105	Regeneration and Multiplication of Shoots inGlochidion multiloculaireMuell-Arg.. Journal of Herbs, Spices and Medicinal Plants, 1995, 3, 67-74.	0.5	0
106	Somatic embryogenesis from immature cotyledons of an elite Darjeeling tea clone. Plant Science, 1992, 84, 209-213.	1.7	44
107	Production of emetine and cephaeline from cell suspension and excised root cultures of Cephaelis ipecacuanha. Phytochemistry, 1991, 30, 3999-4003.	1.4	21
108	Callus induction, organogenesis and somatic embryogenesis in three chromosomal races of Urginea indica and production of bufadienolides. Plant Cell, Tissue and Organ Culture, 1991, 25, 85-90.	1.2	11

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109	Induction of mitosis in polytene nuclei and hormonal effect on nuclear changes during callus initiation in diploid Urginea indica Kunth. (liliaceae). Genetica, 1990, 80, 9-15.	0.5	6
110	Relation Between Bufadienolide Content and Differentiation in Tissue Cultures ofUrginea indica. Planta Medica, 1989, 55, 687-687.	0.7	0
111	Micropropagation of Cephaelis ipecacuanha rich. Plant Cell Reports, 1989, 8, 437-439.	2.8	30
112	Cytological Analysis of Embryogenic Callus and Regenerated Plants ofUrginea IndicaKunth., Indian Squill. Caryologia, 1989, 42, 165-173.	0.2	7
113	Stable regenerants from long-term callus cultures of Ruscus hypophyllum L.. Cytologia, 1989, 54, 687-691.	0.2	7
114	Karyotype stability in long-term callus derived plants ofCrepis tectorum L.. Biologia Plantarum, 1988, 30, 247-251.	1.9	12
115	Bufadienolides. , 1988, , 179-191.		2
116	Production of the Alkaloids Emetine and Cephaeline in Callus Cultures ofCephaelis ipecacuanha. Planta Medica, 1988, 54, 504-506.	0.7	32
117	Nuclear changes and organogenesis during callus culture of Urginea indica Kunth., Indian squill.. Cytologia, 1987, 52, 433-438.	0.2	11
118	Karyotype variability in regenerated plants of Urginea indica Kunth.. Cytologia, 1987, 52, 615-626.	0.2	11
119	TISSUE CULTURE OF SMILAX ZEYLANICA L.. Acta Horticulturae, 1987, , 273-279.	0.1	1
120	Development of Indian Squill (Urginea indica Kunth.) through Somatic Embryogenesis from Long Term Culture. Journal of Plant Physiology, 1986, 124, 431-439.	1.6	10
121	Regeneration and rapid multiplication of Bowiea volubilis Harv. in tissue culture. Plant Cell Reports, 1985, 4, 12-14.	2.8	12
122	In vitro regeneration of Ruscus hypophyllum L. plants. Plant Cell, Tissue and Organ Culture, 1985, 5, 79-87.	1.2	7
123	Influence on chromosome behaviour, nucleic acid content and ultra-structural analysis of accessories inUrginea indica KUNTH.. Biologia Plantarum, 1984, 26, 260-262.	1.9	1
124	An analysis of somatic and meiotic behaviour of chromosomes ofBowiea volubilis HARV.. Biologia Plantarum, 1984, 26, 299-302.	1.9	1
125	In vitro regeneration from bulb explants of Indian squill, Urginea indica Kunth. Plant Cell, Tissue and Organ Culture, 1984, 3, 91-100.	1.2	32
126	Quantitation of Principal Bufadienolides in Different Cytotypes of Urginea indica. Planta Medica, 1983, 47, 43-45.	0.7	21

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127	Chromosome study of diploid Indian squill, Urginea indica Kunth.. Cytologia, 1983, 48, 79-86.	0.2	20
128	Chromosome study of polyploid indian squill, Urginea indica Kunth.. Cytologia, 1983, 48, 407-418.	0.2	11
129	Sterols in different cytological races of Urginea indica. Phytochemistry, 1981, 20, 1442-1443.	1.4	11
130	Bufadienolides in different chromosomal races of Indian squill. Phytochemistry, 1981, 20, 524-526.	1.4	23