Prakash P Kumar

List of Publications by Year
in descending order

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107	6,050	109264	76872
papers	citations	35 h-index	74 g-index

112	112	112	7137
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Plant hormone-mediated regulation of stress responses. BMC Plant Biology, 2016, 16, 86.	1.6	1,397
2	Direct interaction of AGL24 and SOC1 integrates flowering signals in Arabidopsis. Development (Cambridge), 2008, 135, 1481-1491.	1.2	305
3	AGAMOUS-LIKE 24, a dosage-dependent mediator of the flowering signals. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16336-16341.	3.3	249
4	Floral homeotic genes are targets of gibberellin signaling in flower development. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7827-7832.	3.3	249
5	The phytohormone crosstalk paradigm takes center stage in understanding how plants respond to abiotic stresses. Plant Cell Reports, 2013, 32, 945-957.	2.8	218
6	Regulation of Seed Germination and Abiotic Stresses by Gibberellins and Abscisic Acid. Frontiers in Plant Science, 2018, 9, 838.	1.7	197
7	Mechanisms of seed ageing under different storage conditions for Vigna radiata (L.) Wilczek: lipid peroxidation, sugar hydrolysis, Maillard reactions and their relationship to glass state transition. Journal of Experimental Botany, 2003, 54, 1057-1067.	2.4	191
8	Antimicrobial activity of omwaprin, a new member of the waprin family of snake venom proteins. Biochemical Journal, 2007, 402, 93-104.	1.7	134
9	Floral organ identity genes in the orchidDendrobium crumenatum. Plant Journal, 2006, 46, 54-68.	2.8	132
10	Conservation of class C function of floral organ development during 300 million years of evolution from gymnosperms to angiosperms. Plant Journal, 2004, 37, 566-577.	2.8	115
11	The phytohormone signal network regulating elongation growth during shade avoidance. Journal of Experimental Botany, 2010, 61, 2889-2903.	2.4	110
12	The role of ethylene and carbon dioxide in differentiation of shoot buds in excised cotyledons of Pinus radiata in vitro. Physiologia Plantarum, 1987, 69, 244-252.	2.6	105
13	Role of root hydrophobic barriers in salt exclusion of a mangrove plant <scp>A</scp>vicennia officinalis. Plant, Cell and Environment, 2014, 37, 1656-1671.	2.8	103
14	Salt tolerance research in date palm tree (Phoenix dactylifera L.), past, present, and future perspectives. Frontiers in Plant Science, 2015, 6, 348.	1.7	103
15	Auxin and gibberellin responsive Arabidopsis SMALL AUXIN UP RNA36 regulates hypocotyl elongation in the light. Plant Cell Reports, 2013, 32, 759-769.	2.8	101
16	Prunus domestica Pathogenesis-Related Protein-5 Activates the Defense Response Pathway and Enhances the Resistance to Fungal Infection. PLoS ONE, 2011, 6, e17973.	1.1	87
17	Ohanin, a Novel Protein from King Cobra Venom, Induces Hypolocomotion and Hyperalgesia in Mice. Journal of Biological Chemistry, 2005, 280, 13137-13147.	1.6	85
18	Î²â€Cardiotoxin: a new threeâ€finger toxin from Ophiophagus hannah (king cobra) venom with betaâ€blocker activity. FASEB Journal, 2007, 21, 3685-3695.	0.2	82

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19	A Novel RGL2â€“DOF6 Complex Contributes to Primary Seed Dormancy in Arabidopsis thaliana by Regulating a GATA Transcription Factor. Molecular Plant, 2017, 10, 1307-1320.	3.9	81
20	Regulation of morphogenesis in plant tissue culture by ethylene. In Vitro Cellular and Developmental Biology - Plant, 1998, 34, 94-103.	0.9	78
21	Transcriptomics analysis of salt stress tolerance in the roots of the mangrove Avicennia officinalis. Scientific Reports, 2017, 7, 10031.	1.6	77
22	Dynamic secretion changes in the salt glands of the mangrove tree species <scp>A</scp>vicennia officinalis in response to a changing saline environment. Plant, Cell and Environment, 2013, 36, 1410-1422.	2.8	71
23	Os<scp>TPS</scp>8 controls yieldâ€related traits and confers salt stress tolerance in rice by enhancing suberin deposition. New Phytologist, 2019, 221, 1369-1386.	3.5	64
24	Regulation of a Cytochrome P450 Gene CYP94B1 by WRKY33 Transcription Factor Controls Apoplastic Barrier Formation in Roots to Confer Salt Tolerance. Plant Physiology, 2020, 184, 2199-2215.	2.3	61
25	PkMADS1is a novel MADS box gene regulating adventitious shoot induction and vegetative shoot development inPaulownia kawakamii. Plant Journal, 2002, 29, 141-151.	2.8	60
26	Ethylene and Carbon Dioxide Accumulation, and Growth of Cell Suspension Cultures of Picea glauca (White Spruce). Journal of Plant Physiology, 1990, 135, 592-596.	1.6	52
27	Rice HMGB1 protein recognizes DNA structures and bends DNA efficiently. Archives of Biochemistry and Biophysics, 2003, 411, 105-111.	1.4	52
28	SHOEBOX Modulates Root Meristem Size in Rice through Dose-Dependent Effects of Gibberellins on Cell Elongation and Proliferation. PLoS Genetics, 2015, 11, e1005464.	1.5	51
29	Identification of Novel Proteins from the Venom of a Cryptic SnakeDrysdalia coronoidesby a Combined Transcriptomics and Proteomics Approach. Journal of Proteome Research, 2011, 10, 739-750.	1.8	50
30	Insights into the molecular mechanism of RGL2-mediated inhibition of seed germination in Arabidopsis thaliana. BMC Plant Biology, 2012, 12, 179.	1.6	48
31	Floral induction in tissue culture: a system for the analysis of LEAFY-dependent gene regulation. Plant Journal, 2004, 39, 273-282.	2.8	45
32	Expression of AoNHX1 increases salt tolerance of rice and Arabidopsis, and bHLH transcription factors regulate AtNHX1 and AtNHX6 in Arabidopsis. Plant Cell Reports, 2019, 38, 1299-1315.	2.8	44
33	STUNTEDmediates the control of cell proliferation by GA inArabidopsis. Development (Cambridge), 2012, 139, 1568-1576.	1.2	41
34	TIR1-like auxin-receptors are involved in the regulation of plum fruit development. Journal of Experimental Botany, 2014, 65, 5205-5215.	2.4	41
35	High frequency adventitious shoot regeneration from excised leaves ofPaulownia spp. cultured in vitro. Plant Cell Reports, 1996, 16, 204-209.	2.8	39
36	Post-transcriptional gene silencing in plants by RNA. Plant Cell Reports, 2003, 22, 167-174.	2.8	36

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37	Regulation of AtKUP2 Expression by bHLH and WRKY Transcription Factors Helps to Confer Increased Salt Tolerance to Arabidopsis thaliana Plants. Frontiers in Plant Science, 2020, 11, 1311.	1.7	36
38	Activities of Ribulose Bisphosphate Carboxylase and Phosphoenolpyruvate Carboxylase and 14C-Bicarbonate Fixation during in Vitro Culture of Pinus radiata Cotyledons. Plant Physiology, 1988, 87, 675-679.	2.3	35
39	Putrescine metabolism in excised cotyledons of Pinus radiata cultured in vitro. Physiologia Plantarum, 1989, 76, 521-526.	2.6	35
40	Regulation of biotic and abiotic stress responses by plant hormones. Plant Cell Reports, 2013, 32, 943-943.	2.8	34
41	Cloning and characterization of rice HMGB1 gene. Gene, 2003, 312, 103-109.	1.0	33
42	A novel tonoplast Na+/H+ antiporter gene from date palm (PdNHX6) confers enhanced salt tolerance response in Arabidopsis. Plant Cell Reports, 2020, 39, 1079-1093.	2.8	33
43	Ohanin, a novel protein from king cobra venom: Its cDNA and genomic organization. Gene, 2006, 371, 246-256.	1.0	32
44	Non-enzymatic protein modification by the Maillard reaction reduces the activities of scavenging enzymes inVigna radiata. Physiologia Plantarum, 2002, 115, 213-220.	2.6	30
45	Characterization of two ethylene receptors PhERS1 and PhETR2 from petunia: PhETR2 regulates timing of anther dehiscence. Journal of Experimental Botany, 2006, 58, 533-544.	2.4	28
46	Random amplified polymorphic DNA analysis of the moth orchids, Phalaenopsis (Epidendroideae:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	27
47	<scp>WRKY9</scp> transcription factor regulates cytochrome <scp>P450</scp> genes <scp>CYP94B3</scp> and <scp>CYP86B1</scp>, leading to increased root suberin and salt tolerance in Arabidopsis. Physiologia Plantarum, 2021, 172, 1673-1687.	2.6	27
48	Identification of salt gland-associated genes and characterization of a dehydrin from the salt secretor mangrove Avicennia officinalis. BMC Plant Biology, 2014, 14, 291.	1.6	26
49	Direct organogenesis and induction of morphogenic callus through thin section culture of Heliconia psittacorum. Scientia Horticulturae, 1995, 62, 113-120.	1.7	25
50	Characterization of gibberellin-signalling elements during plum fruit ontogeny defines the essentiality of gibberellin in fruit development. Plant Molecular Biology, 2014, 84, 399-413.	2.0	25
51	Feeding the extra billions: strategies to improve crops and enhance future food security. Plant Biotechnology Reports, 2011, 5, 107-120.	0.9	24
52	Genetic Analyses of Heliconia Species and Cultivars with Randomly Amplified Polymorphic DNA (RAPD) Markers. Journal of the American Society for Horticultural Science, 1998, 123, 91-97.	0.5	23
53	Long-term storage of somatic embryogenic white spruce tissue at ambient temperature. Plant Cell, Tissue and Organ Culture, 1991, 25, 53-60.	1.2	22
54	Arabidopsis HOG1 gene and its petunia homolog PETCBP act as key regulators of yield parameters. Plant Cell Reports, 2008, 27, 1497-1507.	2.8	21

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55	Direct shoot formation and plant regeneration from cotyledon explants of rapid-cycling Brassica rapa. In Vitro Cellular and Developmental Biology - Plant, 1997, 33, 288-292.	0.9	20
56	The expression of Brostm, a KNOTTED1-like gene, marks the cell type and timing of in vitro shoot induction in Brassica oleracea. Plant Molecular Biology, 2001, 46, 567-580.	2.0	20
57	A simplified protocol for genetic transformation of switchgrass (Panicum virgatum L.). Plant Cell Reports, 2012, 31, 1923-1931.	2.8	20
58	Regulation of Seed Germination: The Involvement of Multiple Forces Exerted via Gibberellic Acid Signaling. Molecular Plant, 2019, 12, 24-26.	3.9	19
59	Systems-based rice improvement approaches for sustainable food and nutritional security. Plant Cell Reports, 2021, 40, 2021-2036.	2.8	19
60	The OsPS1-F gene regulates growth and development in rice by modulating photosynthetic electron transport rate. Plant Cell Reports, 2018, 37, 377-385.	2.8	18
61	Genetic structures across a biogeographical barrier reflect dispersal potential of four Southeast Asian mangrove plant species. Journal of Biogeography, 2020, 47, 1258-1271.	1.4	18
62	Proteomic analysis of plasma membrane and tonoplast from the leaves of mangrove plantAvicennia officinalis. Proteomics, 2014, 14, 2545-2557.	1.3	17
63	Proteomic Characterisation of the Salt Gland-Enriched Tissues of the Mangrove Tree Species Avicennia officinalis. PLoS ONE, 2015, 10, e0133386.	1.1	17
64	Role of ethylene in the production of sporophytes from Platycerium coronarium (Koenig) desv. frond and rhizome pieces cultured in Vitro. Journal of Plant Growth Regulation, 1995, 14, 183-189.	2.8	16
65	Manipulation of plant architecture to enhance lignocellulosic biomass. AoB PLANTS, 2012, 2012, pls026-pls026.	1.2	15
66	Plant tissue culture for biotechnology. , 2012, , 131-138.		15
67	A stable JAZ protein from peach mediates the transition from outcrossing to self-pollination. BMC Biology, 2015, 13, 11.	1.7	14
68	Ethylene-Mediated Modulation of Bud Phenology, Cold Hardiness, and Hormone Biosynthesis in Peach (Prunus persica). Plants, 2021, 10, 1266.	1.6	14
69	A Hormone-Responsive C1-Domain-Containing Protein At5g17960 Mediates Stress Response in Arabidopsis thaliana. PLoS ONE, 2015, 10, e0115418.	1.1	13
70	Destabilization of interaction between cytokinin signaling intermediates <scp>AHP</scp>1 and <scp>ARR</scp>4 modulates Arabidopsis development. New Phytologist, 2015, 206, 726-737.	3.5	13
71	High frequency plant regeneration from excised leaves ofPaulownia fortunei. In Vitro Cellular and Developmental Biology - Plant, 1993, 29, 72-76.	0.9	12
72	Remediation of nutrient-rich waters using the terrestrial plant, Pandanus amaryllifolius Roxb.. Journal of Environmental Sciences, 2014, 26, 404-414.	3.2	12

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73	Title is missing!. Plant Cell, Tissue and Organ Culture, 1997, 48, 37-44.	1.2	11
74	Cytosine methylation occurs in a CDC48 homologue and a MADS-box gene during adventitious shoot induction in Petunia leaf explants1. Journal of Experimental Botany, 2003, 54, 1361-1371.	2.4	11
75	Heterologous expression of Arabidopsis ERS1 causes delayed senescence in coriander. Plant Cell Reports, 2004, 22, 678-683.	2.8	11
76	An LRR-only protein regulates abscisic acid-mediated abiotic stress responses during Arabidopsis seed germination. Plant Cell Reports, 2020, 39, 909-920.	2.8	11
77	Oxidative stress in Agrobacterium-induced tumors on Kalanchoe plants. Plant Journal, 1996, 10, 545-551.	2.8	10
78	Ethylene and CO2 affect direct shoot regeneration from the petiolar ends of Paulownia kawakamii leaves cultured in vitro. Plant Growth Regulation, 1996, 20, 237-243.	1.8	10
79	Estimation of nuclear DNA content of various bamboo and rattan species. Plant Biotechnology Reports, 2011, 5, 317-322.	0.9	10
80	Plant hormones and their intricate signaling networks: unraveling the nexus. Plant Cell Reports, 2013, 32, 731-732.	2.8	10
81	Population genetic structure of the tropical moss Acanthorrhynchium papillatum as measured with microsatellite markers. Plant Biology, 2013, 15, 384-394.	1.8	10
82	Identification and Characterization of RcMADS1, an AGL24 Ortholog from the Holoparasitic Plant Rafflesia cantleyi Solms-Laubach (Rafflesiaceae). PLoS ONE, 2013, 8, e67243.	1.1	10
83	Seed Surface Architecture and Random Amplified Polymorphic DNA Profiles of Paulownia fortunei, P. tomentosa and their Hybrid. Annals of Botany, 1999, 83, 103-107.	1.4	9
84	Species limits, geographical distribution and genetic diversity inJohannesteijsmannia(Arecaceae). Botanical Journal of the Linnean Society, 2016, 182, 318-347.	0.8	9
85	Systems Metabolic Alteration in a Semi-Dwarf Rice Mutant Induced by OsCYP96B4 Gene Mutation. International Journal of Molecular Sciences, 2020, 21, 1924.	1.8	9
86	Functional characterization and expression profiling of glyoxalase <scp>III</scp> genes in date palm grown under abiotic stresses. Physiologia Plantarum, 2021, 172, 780-794.	2.6	9
87	Involvement of ethylene on growth and plant regeneration in callus cultures of Heliconia psittacorum L.f.. Plant Growth Regulation, 1996, 19, 145-151.	1.8	8
88	Development of microsatellite markers for the tropical moss, Acanthorrhynchium papillatum. Molecular Ecology Notes, 2006, 6, 396-398.	1.7	8
89	Contrasting bloom dates in two apple cultivars linked to differential levels of phytohormones and heat requirements during ecodormancy. Scientia Horticulturae, 2021, 288, 110413.	1.7	8
90	Cellular control of morphogenesis. Forestry Sciences, 1993, , 11-29.	0.4	8

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91	Title is missing!. Plant Cell, Tissue and Organ Culture, 1997, 50, 75-82.	1.2	6
92	Molecular Characterization of a Date Palm Vascular Highway 1-Interacting Kinase (PdVIK) under Abiotic Stresses. Genes, 2020, 11, 568.	1.0	6
93	Î» Exonuclease-Based Subtractive Hybridization Approach to Isolate Differentially Expressed Genes from Leaf Cultures of Paulownia kawakamii. Analytical Biochemistry, 2001, 295, 240-247.	1.1	5
94	High frequency plant regeneration in Heliconia psittacorum L.f.. Plant Science, 1993, 90, 63-71.	1.7	4
95	Effect of varying co2 and light levels on growth of hedyotis and sugarcane shoot cultures. In Vitro Cellular and Developmental Biology - Plant, 2000, 36, 118-124.	0.9	4
96	Expression, purification, and characterization of cytokinin signaling intermediates: Arabidopsis histidine phosphotransfer protein 1 (AHP1) and AHP2. Plant Cell Reports, 2013, 32, 795-805.	2.8	4
97	Proteomics Perspectives in Post-Genomic Era for Producing Salinity Stress-Tolerant Crops. , 2018, , 239-266.		4
98	Cloning and characterization of Fortune-1, a novel gene with enhanced expression in male reproductive organs of Cycas edentata. Mechanisms of Development, 2002, 114, 149-152.	1.7	3
99	RICE RESEARCH TO BREAK YIELD BARRIERS. Cosmos, 2015, 11, 37-54.	0.4	3
100	High frequency adventitious shoot regeneration from excised leaves of Paulownia spp. cultured in vitro. Plant Cell Reports, 1996, 16, 204-209.	2.8	3
101	A setup for incubating plant cultures under continuous flow of gases. In Vitro Cellular and Developmental Biology - Plant, 1991, 27, 43-44.	0.9	2
102	Data in support of the proteomic analysis of plasma membrane and tonoplast from the leaves of mangrove plant Avicennia officinalis. Data in Brief, 2015, 5, 646-652.	0.5	2
103	Proteome profile of salt glandâ€rich epidermis extracted from a saltâ€tolerant tree species. Electrophoresis, 2015, 36, 2473-2481.	1.3	2
104	Trevor Alleyne Thorpe: His academic life and scientific legacy. In Vitro Cellular and Developmental Biology - Plant, 2020, 56, 728-737.	0.9	2
105	Molecular Genetic Strategies for Enhancing Plant Biomass for Cellulosic Ethanol Production. , 2012, , 237-250.		1
106	Genetic diversity among clumps ofAcanthorrhynchium papillatum(Harv.) M.Fleisch. as measured by variation in ITS2 sequences. Journal of Bryology, 2013, 35, 255-265.	0.4	1
107	Change in glass transition temperature upon priming of Impatiens walleriana seeds does not explain their reduced longevity. Seed Science and Technology, 2008, 36, 388-395.	0.6	0