

Prakash P Kumar

List of Publications by Year in descending order

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107
papers

6,050
citations

109264

35
h-index

76872

74
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112
all docs

112
docs citations

112
times ranked

7137
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional characterization and expression profiling of glyoxalase <sc>III</sc> genes in date palm grown under abiotic stresses. <i>Physiologia Plantarum</i> , 2021, 172, 780-794.	2.6	9
2	<sc>WRKY9</sc> transcription factor regulates cytochrome <sc>P450</sc> genes <sc><i>CYP94B3</i></sc> and <sc><i>CYP86B1</i></sc>, leading to increased root suberin and salt tolerance in <i>Arabidopsis</i> . <i>Physiologia Plantarum</i> , 2021, 172, 1673-1687.	2.6	27
3	Ethylene-Mediated Modulation of Bud Phenology, Cold Hardiness, and Hormone Biosynthesis in Peach (<i>Prunus persica</i>). <i>Plants</i> , 2021, 10, 1266.	1.6	14
4	Systems-based rice improvement approaches for sustainable food and nutritional security. <i>Plant Cell Reports</i> , 2021, 40, 2021-2036.	2.8	19
5	Contrasting bloom dates in two apple cultivars linked to differential levels of phytohormones and heat requirements during ecodormancy. <i>Scientia Horticulturae</i> , 2021, 288, 110413.	1.7	8
6	Regulation of AtKUP2 Expression by bHLH and WRKY Transcription Factors Helps to Confer Increased Salt Tolerance to <i>Arabidopsis thaliana</i> Plants. <i>Frontiers in Plant Science</i> , 2020, 11, 1311.	1.7	36
7	Trevor Alleyne Thorpe: His academic life and scientific legacy. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2020, 56, 728-737.	0.9	2
8	Regulation of a Cytochrome P450 Gene <i>CYP94B1</i> by WRKY33 Transcription Factor Controls Apoplastic Barrier Formation in Roots to Confer Salt Tolerance. <i>Plant Physiology</i> , 2020, 184, 2199-2215.	2.3	61
9	A novel tonoplast Na ⁺ /H ⁺ antiporter gene from date palm (PdNHX6) confers enhanced salt tolerance response in <i>Arabidopsis</i> . <i>Plant Cell Reports</i> , 2020, 39, 1079-1093.	2.8	33
10	Genetic structures across a biogeographical barrier reflect dispersal potential of four Southeast Asian mangrove plant species. <i>Journal of Biogeography</i> , 2020, 47, 1258-1271.	1.4	18
11	Systems Metabolic Alteration in a Semi-Dwarf Rice Mutant Induced by OsCYP96B4 Gene Mutation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1924.	1.8	9
12	An LRR-only protein regulates abscisic acid-mediated abiotic stress responses during <i>Arabidopsis</i> seed germination. <i>Plant Cell Reports</i> , 2020, 39, 909-920.	2.8	11
13	Molecular Characterization of a Date Palm Vascular Highway 1-Interacting Kinase (PdVIK) under Abiotic Stresses. <i>Genes</i> , 2020, 11, 568.	1.0	6
14	Expression of AoNHX1 increases salt tolerance of rice and <i>Arabidopsis</i> , and bHLH transcription factors regulate AtNHX1 and AtNHX6 in <i>Arabidopsis</i> . <i>Plant Cell Reports</i> , 2019, 38, 1299-1315.	2.8	44
15	Regulation of Seed Germination: The Involvement of Multiple Forces Exerted via Gibberellic Acid Signaling. <i>Molecular Plant</i> , 2019, 12, 24-26.	3.9	19
16	<i>Os<sc>TPS</sc>8</i> controls yield-related traits and confers salt stress tolerance in rice by enhancing suberin deposition. <i>New Phytologist</i> , 2019, 221, 1369-1386.	3.5	64
17	The OsPS1-F gene regulates growth and development in rice by modulating photosynthetic electron transport rate. <i>Plant Cell Reports</i> , 2018, 37, 377-385.	2.8	18
18	Proteomics Perspectives in Post-Genomic Era for Producing Salinity Stress-Tolerant Crops. , 2018, , 239-266.		4

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19	Regulation of Seed Germination and Abiotic Stresses by Gibberellins and Abscisic Acid. <i>Frontiers in Plant Science</i> , 2018, 9, 838.	1.7	197
20	A Novel RGL2-DOF6 Complex Contributes to Primary Seed Dormancy in <i>Arabidopsis thaliana</i> by Regulating a GATA Transcription Factor. <i>Molecular Plant</i> , 2017, 10, 1307-1320.	3.9	81
21	Transcriptomics analysis of salt stress tolerance in the roots of the mangrove <i>Avicennia officinalis</i> . <i>Scientific Reports</i> , 2017, 7, 10031.	1.6	77
22	Plant hormone-mediated regulation of stress responses. <i>BMC Plant Biology</i> , 2016, 16, 86.	1.6	1,397
23	Species limits, geographical distribution and genetic diversity in <i>Johannesteijsmannia</i> (Arecaceae). <i>Botanical Journal of the Linnean Society</i> , 2016, 182, 318-347.	0.8	9
24	Data in support of the proteomic analysis of plasma membrane and tonoplast from the leaves of mangrove plant <i>Avicennia officinalis</i> . <i>Data in Brief</i> , 2015, 5, 646-652.	0.5	2
25	Proteome profile of salt gland-rich epidermis extracted from a salt-tolerant tree species. <i>Electrophoresis</i> , 2015, 36, 2473-2481.	1.3	2
26	A Hormone-Responsive C1-Domain-Containing Protein At5g17960 Mediates Stress Response in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2015, 10, e0115418.	1.1	13
27	Proteomic Characterisation of the Salt Gland-Enriched Tissues of the Mangrove Tree Species <i>Avicennia officinalis</i> . <i>PLoS ONE</i> , 2015, 10, e0133386.	1.1	17
28	Salt tolerance research in date palm tree (<i>Phoenix dactylifera</i> L.), past, present, and future perspectives. <i>Frontiers in Plant Science</i> , 2015, 6, 348.	1.7	103
29	Destabilization of interaction between cytokinin signaling intermediates AHP1 and ARR4 modulates <i>Arabidopsis</i> development. <i>New Phytologist</i> , 2015, 206, 726-737.	3.5	13
30	A stable JAZ protein from peach mediates the transition from outcrossing to self-pollination. <i>BMC Biology</i> , 2015, 13, 11.	1.7	14
31	RICE RESEARCH TO BREAK YIELD BARRIERS. <i>Cosmos</i> , 2015, 11, 37-54.	0.4	3
32	SHOEBOX Modulates Root Meristem Size in Rice through Dose-Dependent Effects of Gibberellins on Cell Elongation and Proliferation. <i>PLoS Genetics</i> , 2015, 11, e1005464.	1.5	51
33	Identification of salt gland-associated genes and characterization of a dehydrin from the salt secretor mangrove <i>Avicennia officinalis</i> . <i>BMC Plant Biology</i> , 2014, 14, 291.	1.6	26
34	Proteomic analysis of plasma membrane and tonoplast from the leaves of mangrove plant <i>Avicennia officinalis</i> . <i>Proteomics</i> , 2014, 14, 2545-2557.	1.3	17
35	Characterization of gibberellin-signalling elements during plum fruit ontogeny defines the essentiality of gibberellin in fruit development. <i>Plant Molecular Biology</i> , 2014, 84, 399-413.	2.0	25
36	TIR1-like auxin-receptors are involved in the regulation of plum fruit development. <i>Journal of Experimental Botany</i> , 2014, 65, 5205-5215.	2.4	41

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37	Role of root hydrophobic barriers in salt exclusion of a mangrove plant <i>Avicennia officinalis</i> . Plant, Cell and Environment, 2014, 37, 1656-1671.	2.8	103
38	Remediation of nutrient-rich waters using the terrestrial plant, <i>Pandanus amaryllifolius</i> Roxb.. Journal of Environmental Sciences, 2014, 26, 404-414.	3.2	12
39	Dynamic secretion changes in the salt glands of the mangrove tree species <i>Avicennia officinalis</i> in response to a changing saline environment. Plant, Cell and Environment, 2013, 36, 1410-1422.	2.8	71
40	Regulation of biotic and abiotic stress responses by plant hormones. Plant Cell Reports, 2013, 32, 943-943.	2.8	34
41	Plant hormones and their intricate signaling networks: unraveling the nexus. Plant Cell Reports, 2013, 32, 731-732.	2.8	10
42	Population genetic structure of the tropical moss <i>Acanthorrhynchium papillatum</i> as measured with microsatellite markers. Plant Biology, 2013, 15, 384-394.	1.8	10
43	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
44	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
45	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
46	Genetic diversity among clumps of <i>Acanthorrhynchium papillatum</i> (Harv.) M.Fleisch. as measured by variation in ITS2 sequences. Journal of Bryology, 2013, 35, 255-265.	0.4	1
47	Identification and Characterization of RcMADS1, an AGL24 Ortholog from the Holoparasitic Plant <i>Rafflesia cantleyi</i> Solms-Laubach (Rafflesiaceae). PLoS ONE, 2013, 8, e67243.	1.1	10
48	Manipulation of plant architecture to enhance lignocellulosic biomass. AoB PLANTS, 2012, 2012, pls026-pls026.	1.2	15
49	<i>STUNTED</i> mediates the control of cell proliferation by GA in <i>Arabidopsis</i> . Development (Cambridge), 2012, 139, 1568-1576.	1.2	41
50	Molecular Genetic Strategies for Enhancing Plant Biomass for Cellulosic Ethanol Production. , 2012, , 237-250.		1
51	A simplified protocol for genetic transformation of switchgrass (<i>Panicum virgatum</i> L.). Plant Cell Reports, 2012, 31, 1923-1931.	2.8	20
52	Insights into the molecular mechanism of RGL2-mediated inhibition of seed germination in <i>Arabidopsis thaliana</i> . BMC Plant Biology, 2012, 12, 179.	1.6	48
53	Plant tissue culture for biotechnology. , 2012, , 131-138.		15
54	Identification of Novel Proteins from the Venom of a Cryptic Snake <i>Drysdalia coronoides</i> by a Combined Transcriptomics and Proteomics Approach. Journal of Proteome Research, 2011, 10, 739-750.	1.8	50

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55	<i>Prunus domestica</i> Pathogenesis-Related Protein-5 Activates the Defense Response Pathway and Enhances the Resistance to Fungal Infection. <i>PLoS ONE</i> , 2011, 6, e17973.	1.1	87
56	Feeding the extra billions: strategies to improve crops and enhance future food security. <i>Plant Biotechnology Reports</i> , 2011, 5, 107-120.	0.9	24
57	Estimation of nuclear DNA content of various bamboo and rattan species. <i>Plant Biotechnology Reports</i> , 2011, 5, 317-322.	0.9	10
58	The phytohormone signal network regulating elongation growth during shade avoidance. <i>Journal of Experimental Botany</i> , 2010, 61, 2889-2903.	2.4	110
59	<i>Arabidopsis</i> HOG1 gene and its petunia homolog PETCBP act as key regulators of yield parameters. <i>Plant Cell Reports</i> , 2008, 27, 1497-1507.	2.8	21
60	Direct interaction of <i>AGL24</i> and <i>SOC1</i> integrates flowering signals in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2008, 135, 1481-1491.	1.2	305
61	Change in glass transition temperature upon priming of <i>Impatiens walleriana</i> seeds does not explain their reduced longevity. <i>Seed Science and Technology</i> , 2008, 36, 388-395.	0.6	0
62	Cardiotxin: a new three-finger toxin from <i>Ophiophagus hannah</i> (king cobra) venom with beta-blocker activity. <i>FASEB Journal</i> , 2007, 21, 3685-3695.	0.2	82
63	Antimicrobial activity of omwaprin, a new member of the waprin family of snake venom proteins. <i>Biochemical Journal</i> , 2007, 402, 93-104.	1.7	134
64	Ohanin, a novel protein from king cobra venom: Its cDNA and genomic organization. <i>Gene</i> , 2006, 371, 246-256.	1.0	32
65	Development of microsatellite markers for the tropical moss, <i>Acanthorrhynchium papillatum</i> . <i>Molecular Ecology Notes</i> , 2006, 6, 396-398.	1.7	8
66	Floral organ identity genes in the orchid <i>Dendrobium crumenatum</i> . <i>Plant Journal</i> , 2006, 46, 54-68.	2.8	132
67	Characterization of two ethylene receptors PhERS1 and PhETR2 from petunia: PhETR2 regulates timing of anther dehiscence. <i>Journal of Experimental Botany</i> , 2006, 58, 533-544.	2.4	28
68	Random amplified polymorphic DNA analysis of the moth orchids, <i>Phalaenopsis</i> (Epidendroideae:). <i>Trends in Plant Science</i> , 2006, 11, 27-30.	0.6	27
69	Ohanin, a Novel Protein from King Cobra Venom, Induces Hypolocomotion and Hyperalgesia in Mice. <i>Journal of Biological Chemistry</i> , 2005, 280, 13137-13147.	1.6	85
70	Floral homeotic genes are targets of gibberellin signaling in flower development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 7827-7832.	3.3	249
71	Floral induction in tissue culture: a system for the analysis of LEAFY-dependent gene regulation. <i>Plant Journal</i> , 2004, 39, 273-282.	2.8	45
72	Heterologous expression of <i>Arabidopsis</i> ERS1 causes delayed senescence in coriander. <i>Plant Cell Reports</i> , 2004, 22, 678-683.	2.8	11

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73	Conservation of class C function of floral organ development during 300 million years of evolution from gymnosperms to angiosperms. <i>Plant Journal</i> , 2004, 37, 566-577.	2.8	115
74	Post-transcriptional gene silencing in plants by RNA. <i>Plant Cell Reports</i> , 2003, 22, 167-174.	2.8	36
75	Rice HMGB1 protein recognizes DNA structures and bends DNA efficiently. <i>Archives of Biochemistry and Biophysics</i> , 2003, 411, 105-111.	1.4	52
76	Cloning and characterization of rice HMGB1 gene. <i>Gene</i> , 2003, 312, 103-109.	1.0	33
77	Cytosine methylation occurs in a CDC48 homologue and a MADS-box gene during adventitious shoot induction in <i>Petunia</i> leaf explants ¹ . <i>Journal of Experimental Botany</i> , 2003, 54, 1361-1371.	2.4	11
78	Mechanisms of seed ageing under different storage conditions for <i>Vigna radiata</i> (L.) Wilczek: lipid peroxidation, sugar hydrolysis, Maillard reactions and their relationship to glass state transition. <i>Journal of Experimental Botany</i> , 2003, 54, 1057-1067.	2.4	191
79	AGAMOUS-LIKE 24, a dosage-dependent mediator of the flowering signals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 16336-16341.	3.3	249
80	Cloning and characterization of Fortune-1, a novel gene with enhanced expression in male reproductive organs of <i>Cycas edentata</i> . <i>Mechanisms of Development</i> , 2002, 114, 149-152.	1.7	3
81	Non-enzymatic protein modification by the Maillard reaction reduces the activities of scavenging enzymes in <i>Vigna radiata</i> . <i>Physiologia Plantarum</i> , 2002, 115, 213-220.	2.6	30
82	PkMADS1 is a novel MADS box gene regulating adventitious shoot induction and vegetative shoot development in <i>Paulownia kawakamii</i> . <i>Plant Journal</i> , 2002, 29, 141-151.	2.8	60
83	↳ Exonuclease-Based Subtractive Hybridization Approach to Isolate Differentially Expressed Genes from Leaf Cultures of <i>Paulownia kawakamii</i> . <i>Analytical Biochemistry</i> , 2001, 295, 240-247.	1.1	5
84	The expression of Brostm, a KNOTTED1-like gene, marks the cell type and timing of in vitro shoot induction in <i>Brassica oleracea</i> . <i>Plant Molecular Biology</i> , 2001, 46, 567-580.	2.0	20
85	Effect of varying co ₂ and light levels on growth of hedyotis and sugarcane shoot cultures. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2000, 36, 118-124.	0.9	4
86	Seed Surface Architecture and Random Amplified Polymorphic DNA Profiles of <i>Paulownia fortunei</i> , <i>P. tomentosa</i> and their Hybrid. <i>Annals of Botany</i> , 1999, 83, 103-107.	1.4	9
87	Regulation of morphogenesis in plant tissue culture by ethylene. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 1998, 34, 94-103.	0.9	78
88	Genetic Analyses of <i>Heliconia</i> Species and Cultivars with Randomly Amplified Polymorphic DNA (RAPD) Markers. <i>Journal of the American Society for Horticultural Science</i> , 1998, 123, 91-97.	0.5	23
89	Title is missing!. <i>Plant Cell, Tissue and Organ Culture</i> , 1997, 48, 37-44.	1.2	11
90	Title is missing!. <i>Plant Cell, Tissue and Organ Culture</i> , 1997, 50, 75-82.	1.2	6

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91	Direct shoot formation and plant regeneration from cotyledon explants of rapid-cycling <i>Brassica rapa</i> . <i>In Vitro Cellular and Developmental Biology - Plant</i> , 1997, 33, 288-292.	0.9	20
92	High frequency adventitious shoot regeneration from excised leaves of <i>Paulownia</i> spp. cultured in vitro. <i>Plant Cell Reports</i> , 1996, 16, 204-209.	2.8	39
93	Oxidative stress in <i>Agrobacterium</i> -induced tumors on <i>Kalanchoe</i> plants. <i>Plant Journal</i> , 1996, 10, 545-551.	2.8	10
94	Involvement of ethylene on growth and plant regeneration in callus cultures of <i>Heliconia psittacorum</i> L.f.. <i>Plant Growth Regulation</i> , 1996, 19, 145-151.	1.8	8
95	Ethylene and CO ₂ affect direct shoot regeneration from the petiolar ends of <i>Paulownia kawakamii</i> leaves cultured in vitro. <i>Plant Growth Regulation</i> , 1996, 20, 237-243.	1.8	10
96	High frequency adventitious shoot regeneration from excised leaves of <i>Paulownia</i> spp. cultured in vitro. <i>Plant Cell Reports</i> , 1996, 16, 204-209.	2.8	3
97	Role of ethylene in the production of sporophytes from <i>Platycerium coronarium</i> (Koenig) desv. frond and rhizome pieces cultured in Vitro. <i>Journal of Plant Growth Regulation</i> , 1995, 14, 183-189.	2.8	16
98	Direct organogenesis and induction of morphogenic callus through thin section culture of <i>Heliconia psittacorum</i> . <i>Scientia Horticulturae</i> , 1995, 62, 113-120.	1.7	25
99	High frequency plant regeneration from excised leaves of <i>Paulownia fortunei</i> . <i>In Vitro Cellular and Developmental Biology - Plant</i> , 1993, 29, 72-76.	0.9	12
100	High frequency plant regeneration in <i>Heliconia psittacorum</i> L.f.. <i>Plant Science</i> , 1993, 90, 63-71.	1.7	4
101	Cellular control of morphogenesis. <i>Forestry Sciences</i> , 1993, , 11-29.	0.4	8
102	A setup for incubating plant cultures under continuous flow of gases. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 1991, 27, 43-44.	0.9	2
103	Long-term storage of somatic embryogenic white spruce tissue at ambient temperature. <i>Plant Cell, Tissue and Organ Culture</i> , 1991, 25, 53-60.	1.2	22
104	Ethylene and Carbon Dioxide Accumulation, and Growth of Cell Suspension Cultures of <i>Picea glauca</i> (White Spruce). <i>Journal of Plant Physiology</i> , 1990, 135, 592-596.	1.6	52
105	Putrescine metabolism in excised cotyledons of <i>Pinus radiata</i> cultured in vitro. <i>Physiologia Plantarum</i> , 1989, 76, 521-526.	2.6	35
106	Activities of Ribulose Bisphosphate Carboxylase and Phosphoenolpyruvate Carboxylase and ¹⁴ C-Bicarbonate Fixation during in Vitro Culture of <i>Pinus radiata</i> Cotyledons. <i>Plant Physiology</i> , 1988, 87, 675-679.	2.3	35
107	The role of ethylene and carbon dioxide in differentiation of shoot buds in excised cotyledons of <i>Pinus radiata</i> in vitro. <i>Physiologia Plantarum</i> , 1987, 69, 244-252.	2.6	105