

Sitakanta Pattanaik

List of Publications by Year in descending order

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46
papers

2,642
citations

236925

25
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223800

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docs citations

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times ranked

2768
citing authors

#	ARTICLE	IF	CITATIONS
1	The Transcription Factor CrWRKY1 Positively Regulates the Terpenoid Indole Alkaloid Biosynthesis in <i>Catharanthus roseus</i> . <i>Plant Physiology</i> , 2011, 157, 2081-2093.	4.8	340
2	Transcriptional regulation of secondary metabolite biosynthesis in plants. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2013, 1829, 1236-1247.	1.9	268
3	An overview of the gene regulatory network controlling trichome development in the model plant, <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2014, 5, 259.	3.6	216
4	A differentially regulated <i>AP2/ERF</i> transcription factor gene cluster acts downstream of a <i>MAP</i> kinase cascade to modulate terpenoid indole alkaloid biosynthesis in <i>Catharanthus roseus</i> . <i>New Phytologist</i> , 2017, 213, 1107-1123.	7.3	157
5	Small tandem target mimic-mediated blockage of microRNA858 induces anthocyanin accumulation in tomato. <i>Planta</i> , 2015, 242, 283-293.	3.2	152
6	Isolation and functional characterization of a floral tissue-specific R2R3 MYB regulator from tobacco. <i>Planta</i> , 2010, 231, 1061-1076.	3.2	143
7	Analyses of <i>Catharanthus roseus</i> and <i>Arabidopsis thaliana</i> WRKY transcription factors reveal involvement in jasmonate signaling. <i>BMC Genomics</i> , 2014, 15, 502.	2.8	99
8	Flavonoid-related basic helix-loop-helix regulators, NtAn1a and NtAn1b, of tobacco have originated from two ancestors and are functionally active. <i>Planta</i> , 2011, 234, 363-375.	3.2	93
9	Regulatory switch enforced by basic helix-loop-helix and ACT-domain mediated dimerizations of the maize transcription factor R. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2091-7.	7.1	92
10	A network of jasmonate-responsive bHLH factors modulate monoterpenoid indole alkaloid biosynthesis in <i>Catharanthus roseus</i> . <i>New Phytologist</i> , 2018, 217, 1566-1581.	7.3	81
11	Ubiquitin protein ligase 3 mediates the proteasomal degradation of <i>GLABROUS3</i> and <i>ENHANCER OF GLABROUS3</i> , regulators of trichome development and flavonoid biosynthesis in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2013, 74, 435-447.	5.7	80
12	A R2R3-MYB Transcription Factor from <i>Epimedium sagittatum</i> Regulates the Flavonoid Biosynthetic Pathway. <i>PLoS ONE</i> , 2013, 8, e70778.	2.5	80
13	The interaction domains of the plant Myc-like bHLH transcription factors can regulate the transactivation strength. <i>Planta</i> , 2008, 227, 707-715.	3.2	63
14	GATA and Phytochrome Interacting Factor Transcription Factors Regulate Light-Induced Vindoline Biosynthesis in <i>Catharanthus roseus</i> . <i>Plant Physiology</i> , 2019, 180, 1336-1350.	4.8	61
15	Mutually Regulated AP2/ERF Gene Clusters Modulate Biosynthesis of Specialized Metabolites in Plants. <i>Plant Physiology</i> , 2020, 182, 840-856.	4.8	54
16	Revisiting the ORCA gene cluster that regulates terpenoid indole alkaloid biosynthesis in <i>Catharanthus roseus</i> . <i>Plant Science</i> , 2020, 293, 110408.	3.6	50
17	Altered Phenylpropanoid Metabolism in the Maize Lc-Expressed Sweet Potato (<i>Ipomoea batatas</i>) Affects Storage Root Development. <i>Scientific Reports</i> , 2016, 6, 18645.	3.3	48
18	Promoter analysis of the <i>Catharanthus roseus</i> geraniol 10-hydroxylase gene involved in terpenoid indole alkaloid biosynthesis. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2007, 1769, 139-148.	2.4	46

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19	Cross-family transcription factor interaction between MYC2 and GBFs modulates terpenoid indole alkaloid biosynthesis. <i>Journal of Experimental Botany</i> , 2018, 69, 4267-4281.	4.8	43
20	Efficient chimeric plant promoters derived from plant infecting viral promoter sequences. <i>Planta</i> , 2014, 239, 381-396.	3.2	42
21	The miRNAome of <i>Catharanthus roseus</i> : identification, expression analysis, and potential roles of microRNAs in regulation of terpenoid indole alkaloid biosynthesis. <i>Scientific Reports</i> , 2017, 7, 43027.	3.3	39
22	Antibiosis-type insect resistance in transgenic plants expressing a teratocyte secretory protein (TSP14) gene from a hymenopteran endoparasite (<i>Microplitis croceipes</i>). <i>Plant Biotechnology Journal</i> , 2003, 1, 209-219.	8.3	36
23	Isolation of full-length transcript promoter from the Strawberry vein banding virus (SVBV) and expression analysis by protoplasts transient assays and in transgenic plants. <i>Plant Science</i> , 2004, 167, 427-438.	3.6	35
24	RNA-sequencing Reveals Global Transcriptomic Changes in <i>Nicotiana tabacum</i> Responding to Topping and Treatment of Axillary-shoot Control Chemicals. <i>Scientific Reports</i> , 2016, 5, 18148.	3.3	29
25	TEOSINTE BRANCHED1/CYCLOIDEA/PROLIFERATING CELL FACTOR4 Interacts with WRINKLED1 to Mediate Seed Oil Biosynthesis. <i>Plant Physiology</i> , 2020, 184, 658-665.	4.8	29
26	Promoter analysis reveals cis-regulatory motifs associated with the expression of the WRKY transcription factor CrWRKY1 in <i>Catharanthus roseus</i> . <i>Planta</i> , 2013, 238, 1039-1049.	3.2	27
27	Intron-mediated enhancement of gene expression in transgenic plants using chimeric constructs composed of the Peanut chlorotic streak virus (PCISV) promoter?leader and the antisense orientation of PCISV ORF ₂ (p7R). <i>Planta</i> , 2003, 218, 115-124.	3.2	25
28	Histidine Tagged Protein Recovery from Tobacco Extract by Foam Fractionation. <i>Biotechnology Progress</i> , 2003, 19, 680-682.	2.6	25
29	<i>BHLH IRIDOID SYNTHESIS 3</i> is a member of a bHLH gene cluster regulating terpenoid indole alkaloid biosynthesis in <i>Catharanthus roseus</i> . <i>Plant Direct</i> , 2021, 5, e00305.	1.9	25
30	Plant peptide deformylase: a novel selectable marker and herbicide target based on essential cotranslational chloroplast protein processing. <i>Plant Biotechnology Journal</i> , 2007, 5, 275-281.	8.3	21
31	Directed evolution of plant basic helix-loop-helix transcription factors for the improvement of transactivational properties. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2006, 1759, 308-318.	2.4	20
32	Site-Directed Mutagenesis and Saturation Mutagenesis for the Functional Study of Transcription Factors Involved in Plant Secondary Metabolite Biosynthesis. <i>Methods in Molecular Biology</i> , 2010, 643, 47-57.	0.9	17
33	Proteolytic degradation of the flavonoid regulators, TRANSPARENT TESTA8 and TRANSPARENT TESTA GLABRA1, in <i>Arabidopsis</i> is mediated by the ubiquitin/26S proteasome system. <i>Plant Signaling and Behavior</i> , 2013, 8, e25901.	2.4	16
34	Terpenoid indole alkaloid biosynthesis in <i>Catharanthus roseus</i> : effects and prospects of environmental factors in metabolic engineering. <i>Biotechnology Letters</i> , 2021, 43, 2085-2103.	2.2	14
35	Protein phosphatase NtPP2C2b and MAP kinase NtMPK4 act in concert to modulate nicotine biosynthesis. <i>Journal of Experimental Botany</i> , 2021, 72, 1661-1676.	4.8	12
36	Comparative Transcriptomic Analysis of Two <i>Brassica napus</i> Near-Isogenic Lines Reveals a Network of Genes That Influences Seed Oil Accumulation. <i>Frontiers in Plant Science</i> , 2016, 7, 1498.	3.6	10

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37	Genome-wide identification of hexokinase gene family in <i>Brassica napus</i> : structure, phylogenetic analysis, expression, and functional characterization. <i>Planta</i> , 2018, 248, 171-182.	3.2	10
38	Bimolecular Fluorescence Complementation as a Tool to Study Interactions of Regulatory Proteins in Plant Protoplasts. <i>Methods in Molecular Biology</i> , 2011, 754, 185-193.	0.9	6
39	Efficient <i>Agrobacterium</i> -mediated transformation of <i>Artemisia annua</i> L. using young inflorescence. In <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2016, 52, 204-211.	2.1	5
40	Reprogramming plant specialized metabolism by manipulating protein kinases. <i>ABIOTECH</i> , 2021, 2, 226-239.	3.9	5
41	Directed Evolution Through DNA Shuffling for the Improvement and Understanding of Genes and Promoters. <i>Methods in Molecular Biology</i> , 2011, 754, 325-342.	0.9	4
42	Effect of Ion and Surfactant Choice on the Recovery of a Histidine-Tagged Protein From Tobacco Extract Using Foam Fractionation. <i>Applied Biochemistry and Biotechnology</i> , 2004, 119, 79-92.	2.9	3
43	Maleic hydrazide elicits global transcriptomic changes in chemically topped tobacco to influence shoot bud development. <i>Planta</i> , 2020, 252, 64.	3.2	3
44	Virus-Induced Gene Silencing as a Tool to Study Regulation of Alkaloid Biosynthesis in Medicinal Plants. <i>Methods in Molecular Biology</i> , 2022, 2469, 155-164.	0.9	3
45	Identification and Characterization of Transcription Factors Regulating Terpenoid Indole Alkaloid Biosynthesis in <i>Catharanthus roseus</i> . <i>Methods in Molecular Biology</i> , 2022, , 203-221.	0.9	2
46	Isolation of full-length transcript promoter from the Strawberry vein banding virus (SVBV) and expression analysis by protoplasts transient assays and in transgenic plants. <i>Plant Science</i> , 2004, 167, 427-427.	3.6	0