

Tomas Takac

List of Publications by Year in descending order

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48
papers

1,646
citations

346980

22
h-index

340414

39
g-index

56
all docs

56
docs citations

56
times ranked

2586
citing authors

#	ARTICLE	IF	CITATIONS
1	Arabidopsis Iron Superoxide Dismutase FSD1 Protects Against Methyl Viologen-Induced Oxidative Stress in a Copper-Dependent Manner. <i>Frontiers in Plant Science</i> , 2022, 13, 823561.	1.7	8
2	<i>In vivo</i> light-sheet microscopy resolves localisation patterns of FSD1, a superoxide dismutase with function in root development and osmoprotection. <i>Plant, Cell and Environment</i> , 2021, 44, 68-87.	2.8	27
3	Genome-Wide Identification of Banana Csl Gene Family and Their Different Responses to Low Temperature between Chilling-Sensitive and Tolerant Cultivars. <i>Plants</i> , 2021, 10, 122.	1.6	12
4	Single Amino Acid Exchange in ACTIN2 Confers Increased Tolerance to Oxidative Stress in Arabidopsis der1-3 Mutant. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1879.	1.8	8
5	TALEN-Based HvMPK3 Knock-Out Attenuates Proteome and Root Hair Phenotypic Responses to flg22 in Barley. <i>Frontiers in Plant Science</i> , 2021, 12, 666229.	1.7	11
6	Acceleration of Carbon Fixation in Chilling-Sensitive Banana under Mild and Moderate Chilling Stresses. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9326.	1.8	1
7	Aromatic Cytokinin Arabinosides Promote PAMP-like Responses and Positively Regulate Leaf Longevity. <i>ACS Chemical Biology</i> , 2020, 15, 1949-1963.	1.6	22
8	Biotechnological Perspectives of Omics and Genetic Engineering Methods in Alfalfa. <i>Frontiers in Plant Science</i> , 2020, 11, 592.	1.7	16
9	FSD1 : developmentally regulated plastidial, nuclear and cytoplasmic enzyme with anti-oxidative and osmoprotective role. <i>Plant, Cell and Environment</i> , 2020, , .	2.8	9
10	Signaling Toward Reactive Oxygen Species-Scavenging Enzymes in Plants. <i>Frontiers in Plant Science</i> , 2020, 11, 618835.	1.7	116
11	Shot-Gun Proteomic Analysis on Roots of Arabidopsis pld1±1 Mutants Suggesting the Involvement of PLD1±1 in Mitochondrial Protein Import, Vesicular Trafficking and Glucosinolate Biosynthesis. <i>International Journal of Molecular Sciences</i> , 2019, 20, 82.	1.8	3
12	Recent Advances in the Cellular and Developmental Biology of Phospholipases in Plants. <i>Frontiers in Plant Science</i> , 2019, 10, 362.	1.7	44
13	Proteomic Analysis of Arabidopsis pld1±1 Mutants Revealed an Important Role of Phospholipase D Alpha 1 in Chloroplast Biogenesis. <i>Frontiers in Plant Science</i> , 2019, 10, 89.	1.7	12
14	Biochemical and Genetic Interactions of Phospholipase D Alpha 1 and Mitogen-Activated Protein Kinase 3 Affect Arabidopsis Stress Response. <i>Frontiers in Plant Science</i> , 2019, 10, 275.	1.7	18
15	Comparative Digital Gene Expression Analysis of Tissue-Cultured Plantlets of Highly Resistant and Susceptible Banana Cultivars in Response to <i>Fusarium oxysporum</i> . <i>International Journal of Molecular Sciences</i> , 2018, 19, 350.	1.8	24
16	Actin depolymerization-induced changes in proteome of Arabidopsis roots. <i>Journal of Proteomics</i> , 2017, 153, 89-99.	1.2	6
17	Integrating cell biology and proteomic approaches in plants. <i>Journal of Proteomics</i> , 2017, 169, 165-175.	1.2	13
18	Expression and distribution of extensins and AGPs in susceptible and resistant banana cultivars in response to wounding and <i>Fusarium oxysporum</i> . <i>Scientific Reports</i> , 2017, 7, 42400.	1.6	30

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19	Feedback Microtubule Control and Microtubule-Actin Cross-talk in Arabidopsis Revealed by Integrative Proteomic and Cell Biology Analysis of KATANIN 1 Mutants. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 1591-1609.	2.5	52
20	Katanin: A Sword Cutting Microtubules for Cellular, Developmental, and Physiological Purposes. <i>Frontiers in Plant Science</i> , 2017, 8, 1982.	1.7	59
21	Cytokinin-Specific Glycosyltransferases Possess Different Roles in Cytokinin Homeostasis Maintenance. <i>Frontiers in Plant Science</i> , 2016, 7, 1264.	1.7	90
22	Comparative proteomic study of Arabidopsis mutants mpk4 and mpk6. <i>Scientific Reports</i> , 2016, 6, 28306.	1.6	33
23	Biotechnological aspects of shot-gun proteomic analyses of Arabidopsis MAPK mutants. <i>New Biotechnology</i> , 2016, 33, S46.	2.4	0
24	Functional proteomics on Arabidopsis MAP3K mutants and MAP2K overexpressor line. <i>New Biotechnology</i> , 2016, 33, S180.	2.4	0
25	Improvement of adventitious root formation in flax using hydrogen peroxide. <i>New Biotechnology</i> , 2016, 33, 728-734.	2.4	27
26	Variable content and distribution of arabinogalactan proteins in banana (<i>Musa</i> spp.) under low temperature stress. <i>Frontiers in Plant Science</i> , 2015, 6, 353.	1.7	26
27	Advantages and limitations of shot-gun proteomic analyses on Arabidopsis plants with altered MAPK signaling. <i>Frontiers in Plant Science</i> , 2015, 6, 107.	1.7	21
28	Trans-Golgi network localized small GTPase RabA1d is involved in cell plate formation and oscillatory root hair growth. <i>BMC Plant Biology</i> , 2014, 14, 252.	1.6	52
29	Salt-induced subcellular kinase relocation and seedling susceptibility caused by overexpression of Medicago SIMKK in Arabidopsis. <i>Journal of Experimental Botany</i> , 2014, 65, 2335-2350.	2.4	37
30	Managing heavy metal toxicity stress in plants: Biological and biotechnological tools. <i>Biotechnology Advances</i> , 2014, 32, 73-86.	6.0	239
31	Proteomic and Biochemical Analyses Show a Functional Network of Proteins Involved in Antioxidant Defense of the <i>Arabidopsis</i> <i>anp2anp3</i> Double Mutant. <i>Journal of Proteome Research</i> , 2014, 13, 5347-5361.	1.8	20
32	Involvement of <i>YODA</i> and mitogen activated protein kinase 6 in Arabidopsis post-embryonic root development through auxin up-regulation and cell division plane orientation. <i>New Phytologist</i> , 2014, 203, 1175-1193.	3.5	118
33	Affinity-Based SDS PAGE Identification of Phosphorylated Arabidopsis MAPKs and Substrates by Acrylamide Pendant Phos-Tag. <i>Methods in Molecular Biology</i> , 2014, 1171, 47-63.	0.4	8
34	Integrative Chemical Proteomics and Cell Biology Methods to Study Endocytosis and Vesicular Trafficking in Arabidopsis. <i>Methods in Molecular Biology</i> , 2014, 1209, 265-283.	0.4	4
35	Maize proteomics: An insight into the biology of an important cereal crop. <i>Proteomics</i> , 2013, 13, 637-662.	1.3	62
36	Vesicular Trafficking and Stress Response Coupled to PI3K Inhibition by LY294002 as Revealed by Proteomic and Cell Biological Analysis. <i>Journal of Proteome Research</i> , 2013, 12, 4435-4448.	1.8	47

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37	A systematic comparison of embryogenic and non-embryogenic cells of banana (<i>Musa</i> spp. AAA): Ultrastructural, biochemical and cell wall component analyses. <i>Scientia Horticulturae</i> , 2013, 159, 178-185.	1.7	9
38	Wound-induced pectin methylesterases enhance banana (<i>Musa</i> spp. AAA) susceptibility to <i>Fusarium oxysporum</i> f. sp. <i>cubense</i> . <i>Journal of Experimental Botany</i> , 2013, 64, 2219-2229.	2.4	33
39	Histological changes and differences in activities of some antioxidant enzymes and hydrogen peroxide content during somatic embryogenesis of <i>Musa</i> AAA cv. Yueyoukang 1. <i>Scientia Horticulturae</i> , 2012, 144, 87-92.	1.7	22
40	Proteomic and biochemical analysis of maize anthers after cold pretreatment and induction of androgenesis reveals an important role of anti-oxidative enzymes. <i>Journal of Proteomics</i> , 2012, 75, 1886-1894.	1.2	40
41	Wortmannin Treatment Induces Changes in <i>Arabidopsis</i> Root Proteome and Post-Golgi Compartments. <i>Journal of Proteome Research</i> , 2012, 11, 3127-3142.	1.8	48
42	Update on Methods and Techniques to Study Endocytosis in Plants. , 2012, , 1-36.		1
43	ER disruption and GFP degradation during non-regenerable transformation of flax with <i>Agrobacterium tumefaciens</i> . <i>Protoplasma</i> , 2012, 249, 53-63.	1.0	6
44	Proteomics on Brefeldin A-Treated <i>Arabidopsis</i> Roots Reveals Profilin 2 as a New Protein Involved in the Cross-Talk between Vesicular Trafficking and the Actin Cytoskeleton. <i>Journal of Proteome Research</i> , 2011, 10, 488-501.	1.8	55
45	Developmental localization and the role of hydroxyproline rich glycoproteins during somatic embryogenesis of banana (<i>Musa</i> spp. AAA). <i>BMC Plant Biology</i> , 2011, 11, 38.	1.6	43
46	Differential proteomics of plant development. <i>Journal of Proteomics</i> , 2011, 74, 577-588.	1.2	67
47	Arabinogalactan-protein epitope Gal4 is differentially regulated and localized in cell lines of hybrid fir (<i>Abies alba</i> — <i>Abies cephalonica</i>) with different embryogenic and regeneration potential. <i>Plant Cell Reports</i> , 2008, 27, 221-229.	2.8	32
48	The relationship of antioxidant enzymes and some physiological parameters in maize during chilling. <i>Plant, Soil and Environment</i> , 2004, 50, 27-32.	1.0	11