

Taras P Pasternak

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

3,462
citations

331670

21
h-index

276875

41
g-index

51
all docs

51
docs citations

51
times ranked

4041
citing authors

#	ARTICLE	IF	CITATIONS
1	Stress-induced morphogenic responses: growing out of trouble?. Trends in Plant Science, 2007, 12, 98-105.	8.8	641
2	Transition of somatic plant cells to an embryogenic state. Plant Cell, Tissue and Organ Culture, 2003, 74, 201-228.	2.3	551
3	Different stresses, similar morphogenic responses: integrating a plethora of pathways. Plant, Cell and Environment, 2009, 32, 158-169.	5.7	319
4	The Role of Auxin, pH, and Stress in the Activation of Embryogenic Cell Division in Leaf Protoplast-Derived Cells of Alfalfa. Plant Physiology, 2002, 129, 1807-1819.	4.8	316
5	Complementary interactions between oxidative stress and auxins control plant growth responses at plant, organ, and cellular level. Journal of Experimental Botany, 2005, 56, 1991-2001.	4.8	187
6	Nitric oxide is required for, and promotes auxin-mediated activation of, cell division and embryogenic cell formation but does not influence cell cycle progression in alfalfa cell cultures. Plant Journal, 2005, 43, 849-860.	5.7	153
7	Morphogenic effects of abiotic stress: reorientation of growth in seedlings. Environmental and Experimental Botany, 2005, 53, 299-314.	4.2	153
8	Protocol: an improved and universal procedure for whole-mount immunolocalization in plants. Plant Methods, 2015, 11, 50.	4.3	128
9	Plastid-Localized Glutathione Reductase2-Regulated Glutathione Redox Status Is Essential for Arabidopsis Root Apical Meristem Maintenance. Plant Cell, 2013, 25, 4451-4468.	6.6	126
10	Salicylic Acid Affects Root Meristem Patterning via Auxin Distribution in a Concentration-Dependent Manner. Plant Physiology, 2019, 180, 1725-1739.	4.8	114
11	The <i>RoCS T</i> analysis of the plant root apical meristem at cellular resolution. Plant Journal, 2014, 77, 806-814.	5.7	80
12	The involvement of reactive oxygen species (ROS) in the cell cycle activation (G ₀ -to-G ₁ transition) of plant cells. Plant Signaling and Behavior, 2008, 3, 823-826.	2.4	77
13	Phytoglobins can interfere with nitric oxide functions during plant growth and pathogenic responses: a transgenic approach. Plant Science, 2003, 165, 541-550.	3.6	62
14	Flavonol-mediated stabilization of PIN efflux complexes regulates polar auxin transport. EMBO Journal, 2021, 40, e104416.	7.8	61
15	Linked activation of cell division and oxidative stress defense in alfalfa leaf protoplast-derived cells is dependent on exogenous auxin. Plant Growth Regulation, 2007, 51, 109-117.	3.4	59
16	Title is missing!. Plant Growth Regulation, 2000, 32, 129-141.	3.4	53
17	3D analysis of mitosis distribution highlights the longitudinal zonation and diarch symmetry in proliferation activity of the <i>Arabidopsis thaliana</i> root meristem. Plant Journal, 2017, 92, 834-845.	5.7	32
18	Embryogenic Callus Formation and Plant Regeneration from Leaf Base Segments of Barley (<i>Hordeum</i>)	3.5	30

#	ARTICLE	IF	CITATIONS
19	Interplay of the two ancient metabolites auxin and MEcPP regulates adaptive growth. <i>Nature Communications</i> , 2018, 9, 2262.	12.8	27
20	Cell Dynamics in WOX5-Overexpressing Root Tips: The Impact of Local Auxin Biosynthesis. <i>Frontiers in Plant Science</i> , 2020, 11, 560169.	3.6	26
21	A 3D digital atlas of the <i>Nicotiana tabacum</i> root tip and its use to investigate changes in the root apical meristem induced by the <i>Agrobacterium 6b</i> oncogene. <i>Plant Journal</i> , 2017, 92, 31-42.	5.7	24
22	The thiol compounds glutathione and homogluthathione differentially affect cell development in alfalfa (<i>Medicago sativa</i> L.). <i>Plant Physiology and Biochemistry</i> , 2014, 74, 16-23.	5.8	22
23	From Single Cell to Plants: Mesophyll Protoplasts as a Versatile System for Investigating Plant Cell Reprogramming. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4195.	4.1	19
24	The <i>Arabidopsis thaliana</i> Mob1A gene is required for organ growth and correct tissue patterning of the root tip. <i>Annals of Botany</i> , 2013, 112, 1803-1814.	2.9	18
25	Glutathione Enhances Auxin Sensitivity in <i>Arabidopsis</i> Roots. <i>Biomolecules</i> , 2020, 10, 1550.	4.0	18
26	Epigenetic Clues to Better Understanding of the Asexual Embryogenesis in planta and in vitro. <i>Frontiers in Plant Science</i> , 2019, 10, 778.	3.6	17
27	3D Analysis of Mitosis Distribution Pattern in the Plant Root Tip with iRoCS Toolbox. <i>Methods in Molecular Biology</i> , 2020, 2094, 119-125.	0.9	16
28	2-D Clinostat for Simulated Microgravity Experiments with <i>Arabidopsis</i> Seedlings. <i>Microgravity Science and Technology</i> , 2016, 28, 59-66.	1.4	15
29	Optimizing Protocols for <i>Arabidopsis</i> Shoot and Root Protoplast Cultivation. <i>Plants</i> , 2021, 10, 375.	3.5	15
30	Dehydroascorbate and glutathione regulate the cellular development of <i>Nicotiana tabacum</i> L. SR-1 protoplasts. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2010, 46, 289-297.	2.1	14
31	Fast Scalar and Vectorial Grayscale Based Invariant Features for 3D Cell Nuclei Localization and Classification. <i>Lecture Notes in Computer Science</i> , 2006, , 182-191.	1.3	12
32	Cell-Cycle, Phase-Specific Activation of Maize streak virus Promoters. <i>Molecular Plant-Microbe Interactions</i> , 2001, 14, 609-617.	2.6	10
33	Modification of plant <i>Rac/Rop</i> GTPase signalling using bacterial toxin transgenes. <i>Plant Journal</i> , 2013, 73, 314-324.	5.7	8
34	The role of <i>AUX1</i> during lateral root development in the domestication of the model C4 grass <i>Setaria italica</i> . <i>Journal of Experimental Botany</i> , 2022, 73, 2021-2034.	4.8	7
35	Modeling of Sparsely Sampled Tubular Surfaces Using Coupled Curves. <i>Lecture Notes in Computer Science</i> , 2012, , 83-92.	1.3	6
36	Systems biology analysis of the WOX5 gene and its functions in the root stem cell niche. <i>Russian Journal of Genetics: Applied Research</i> , 2017, 7, 404-420.	0.4	5

#	ARTICLE	IF	CITATIONS
37	Methods of In Situ Quantitative Root Biology. <i>Plants</i> , 2021, 10, 2399.	3.5	5
38	A simple pipeline for cell cycle kinetic studies in the root apical meristem. <i>Journal of Experimental Botany</i> , 2022, 73, 4683-4695.	4.8	5
39	The key role of PIN proteins in auxin transport in <i>Arabidopsis thaliana</i> Roots. <i>Russian Journal of Genetics: Applied Research</i> , 2015, 5, 279-285.	0.4	2
40	A PLA-iRoCS Pipeline for the Localization of Protein-Protein Interactions In Situ. <i>Methods in Molecular Biology</i> , 2018, 1787, 161-170.	0.9	2
41	Modeling of asymmetric division of somatic cell in protoplasts culture of higher plants. <i>Regulatory Mechanisms in Biosystems</i> , 2020, 11, 255-265.	0.6	1
42	Editorial: How Cells Build Plants: Regulatory Mechanisms for Integrated Functioning of Plant Cells and the Whole Plant Body. <i>Frontiers in Plant Science</i> , 2021, 12, 706892.	3.6	0