Rosangela Sozzani

List of Publications by Year
in descending order

61 papers	3,908 citations	136950 32 h-index	138484 58 g-index
72 all docs	72 docs citations	72 times ranked	4893 citing authors

#	Article	IF	Citations
1	Global Analysis of Arabidopsis Gene Expression Uncovers a Complex Array of Changes Impacting Pathogen Response and Cell Cycle during Geminivirus Infection Â. Plant Physiology, 2008, 148, 436-454.	4.8	448
2	Spatiotemporal regulation of cell-cycle genes by SHORTROOT links patterning and growth. Nature, 2010, 466, 128-132.	27.8	385
3	A Bistable Circuit Involving SCARECROW-RETINOBLASTOMA Integrates Cues to Inform Asymmetric Stem Cell Division. Cell, 2012, 150, 1002-1015.	28.9	273
4	Mobile PEAR transcription factors integrate positional cues to prime cambial growth. Nature, 2019, 565, 490-494.	27.8	195
5	Auxin minimum triggers the developmental switch from cell division to cell differentiation in the <i>Arabidopsis</i> root. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7641-E7649.	7.1	193
6	Nucleo-cytoplasmic Partitioning of ARF Proteins Controls Auxin Responses in Arabidopsis thaliana. Molecular Cell, 2019, 76, 177-190.e5.	9.7	165
7	Interplay between Arabidopsis Activating Factors E2Fb and E2Fa in Cell Cycle Progression and Development. Plant Physiology, 2006, 140, 1355-1366.	4.8	146
8	Transcriptional control of tissue formation throughout root development. Science, 2015, 350, 426-430.	12.6	128
9	Arabidopsis Homologs of the<i>Petunia</i>Â<i>HAIRY MERISTEM</i>Gene Are Required for Maintenance of Shoot and Root Indeterminacy Â Â Â. Plant Physiology, 2011, 155, 735-750.	4.8	116
10	Spatial Coordination between Stem Cell Activity and Cell Differentiation in the Root Meristem. Developmental Cell, 2013, 26, 405-415.	7.0	113
11	Two cell-cycle regulated SET-domain proteins interact with proliferating cell nuclear antigen (PCNA) in Arabidopsis. Plant Journal, 2006, 47, 395-407.	5.7	97
12	Predicting gene regulatory networks by combining spatial and temporal gene expression data in <i>Arabidopsis</i> root stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7632-E7640.	7.1	82
13	DOF2.1 Controls Cytokinin-Dependent Vascular Cell Proliferation Downstream of TMO5/LHW. Current Biology, 2019, 29, 520-529.e6.	3.9	80
14	Tracking transcription factor mobility and interaction in Arabidopsis roots with fluorescence correlation spectroscopy. ELife, 2016, 5, .	6.0	79
15	Advanced imaging techniques for the study of plant growth and development. Trends in Plant Science, 2014, 19, 304-310.	8.8	72
16	The Lateral Root Cap Acts as an Auxin Sink that Controls Meristem Size. Current Biology, 2019, 29, 1199-1205.e4.	3.9	72
17	Postembryonic control of root meristem growth and development. Current Opinion in Plant Biology, 2014, 17, 7-12.	7.1	69
18	Computational prediction of gene regulatory networks in plant growth and development. Current Opinion in Plant Biology, 2019, 47, 96-105.	7.1	66

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19	GTL1 and DF1 regulate root hair growth through transcriptional repression of <i>ROOT HAIR DEFECTIVE 6-LIKE 4</i> in <i>Arabidopsis</i>. Development (Cambridge), 2018, 145, .	2.5	63
20	Stem-cell-ubiquitous genes spatiotemporally coordinate division through regulation of stem-cell-specific gene networks. Nature Communications, 2019, 10, 5574.	12.8	62
21	Cell-by-cell dissection of phloem development links a maturation gradient to cell specialization. Science, 2021, 374, eaba5531.	12.6	60
22	Exposure to heavy metal stress triggers changes in plasmodesmatal permeability via deposition and breakdown of callose. Journal of Experimental Botany, 2018, 69, 3715-3728.	4.8	56
23	Integrated omics networks reveal the temporal signaling events of brassinosteroid response in Arabidopsis. Nature Communications, 2021, 12, 5858.	12.8	54
24	Intercellular Protein Movement: Deciphering the Language of Development. Annual Review of Cell and Developmental Biology, 2014, 30, 207-233.	9.4	52
25	The Arabidopsis <i>MCM2</i> gene is essential to embryo development and its overâ€expression alters root meristem function. New Phytologist, 2009, 184, 311-322.	7.3	49
26	The E2FD/DEL2 factor is a component of a regulatory network controlling cell proliferation and development in Arabidopsis. Plant Molecular Biology, 2010, 72, 381-395.	3.9	48
27	Framework for gradual progression of cell ontogeny in the <i>Arabidopsis</i> root meristem. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8922-E8929.	7.1	46
28	High-throughput phenotyping of multicellular organisms: finding the link between genotype and phenotype. Genome Biology, 2011, 12, 219.	9.6	44
29	Uncovering the networks involved in stem cell maintenance and asymmetric cell division in the Arabidopsis root. Current Opinion in Plant Biology, 2016, 29, 38-43.	7.1	40
30	Integrative systems biology: an attempt to describe a simple weed. Current Opinion in Plant Biology, 2012, 15, 162-167.	7.1	38
31	Omics and modelling approaches for understanding regulation of asymmetric cell divisions in arabidopsis and other angiosperm plants. Annals of Botany, 2014, 113, 1083-1105.	2.9	38
32	Genetic Architecture and Molecular Networks Underlying Leaf Thickness in Desert-Adapted Tomato <i>Solanum pennellii</i>. Plant Physiology, 2017, 175, 376-391.	4.8	38
33	BAM1/2 receptor kinase signaling drives CLE peptide-mediated formative cell divisions in <i>Arabidopsis</i> roots. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32750-32756.	7.1	38
34	Light sheet microscopy reveals more gradual light attenuation in light-green versus dark-green soybean leaves. Journal of Experimental Botany, 2016, 67, 4697-4709.	4.8	37
35	Protein complex stoichiometry and expression dynamics of transcription factors modulate stem cell division. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15332-15342.	7.1	34
36	Multi-sample Arabidopsis Growth and Imaging Chamber (MAGIC) for long term imaging in the ZEISS Lightsheet Z.1. Developmental Biology, 2016, 419, 19-25.	2.0	33

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37	Gene Regulatory Network Inference: Connecting Plant Biology and Mathematical Modeling. Frontiers in Genetics, 2020, 11, 457.	2.3	29
38	Characterizing the involvement of <i>FaMADS9</i> in the regulation of strawberry fruit receptacle development. Plant Biotechnology Journal, 2020, 18, 929-943.	8.3	25
39	A hybrid model connecting regulatory interactions with stem cell divisions in the root. Quantitative Plant Biology, 2021, 2, .	2.0	25
40	Gene regulatory networks for compatible versus incompatible grafts identify a role for SlWOX4 during junction formation. Plant Cell, 2022, 34, 535-556.	6.6	24
41	Novel Imaging Modalities Shedding Light on Plant Biology: Start Small and Grow Big. Annual Review of Plant Biology, 2020, 71, 789-816.	18.7	22
42	<scp>tuxnet</scp>: a simple interface to process RNA sequencing data and infer gene regulatory networks. Plant Journal, 2020, 101, 716-730.	5.7	20
43	Experimental data and computational modeling link auxin gradient and development in the Arabidopsis root. Frontiers in Plant Science, 2014, 5, 328.	3.6	17
44	Inferring Gene Regulatory Networks in the Arabidopsis Root Using a Dynamic Bayesian Network Approach. Methods in Molecular Biology, 2017, 1629, 331-348.	0.9	17
45	Dose-Duration Reciprocity for G protein activation: Modulation of kinase to substrate ratio alters cell signaling. PLoS ONE, 2017, 12, e0190000.	2.5	13
46	Current status of the multinational Arabidopsis community. Plant Direct, 2020, 4, e00248.	1.9	13
47	Measuring Protein Movement, Oligomerization State, and Proteinâ€“Protein Interaction in Arabidopsis Roots Using Scanning Fluorescence Correlation Spectroscopy (Scanning FCS). Methods in Molecular Biology, 2017, 1610, 251-266.	0.9	12
48	Field-grown soybean shows genotypic variation in physiological and seed composition responses to heat stress during seed development. Environmental and Experimental Botany, 2022, 195, 104768.	4.2	12
49	Precise transcriptional control of cellular quiescence by BRAVO/WOX5 complex in <i>Arabidopsis</i> roots. Molecular Systems Biology, 2021, 17, e9864.	7.2	11
50	Automated Imaging, Tracking, and Analytics Pipeline for Differentiating Environmental Effects on Root Meristematic Cell Division. Frontiers in Plant Science, 2019, 10, 1487.	3.6	10
51	Identifying Differentially Expressed Genes Using Fluorescence-Activated Cell Sorting (FACS) and RNA Sequencing from Low Input Samples. Methods in Molecular Biology, 2018, 1819, 139-151.	0.9	8
52	Divide and Conquer: The Initiation and Proliferation of Meristems. Critical Reviews in Plant Sciences, 2021, 40, 147-156.	5.7	6
53	Tracking Gene Expression via Light Sheet Microscopy and Computer Vision in Living Organisms. , 2018, 2018, 818-821.		4
54	RNA-Seq and Gene Regulatory Network Analyses Uncover Candidate Genes in the Early Defense to Two Hemibiotrophic Colletorichum spp. in Strawberry. Frontiers in Genetics, 2021, 12, 805771.	2.3	3

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55	Down-regulation of Fra a 1.02 in strawberry fruits causes transcriptomic and metabolic changes compatible with an altered defense response. Horticulture Research, 2021, 8, 58.	6.3	2
56	Spatiotemporal Gene Expression Profiling and Network Inference: A Roadmap for Analysis, Visualization, and Key Gene Identification. Methods in Molecular Biology, 2021, 2328, 47-65.	0.9	2
57	Tissue Regeneration with Hydrogel Encapsulation: A Review of Developments in Plants and Animals. Biodesign Research, 2021, 2021, .	1.9	2
58	MAGIC: Live imaging of cellular division in plant seedlings using lightsheet microscopy. Methods in Cell Biology, 2020, 160, 405-418.	1.1	1
59	BioVision Tracker: A semi-automated image analysis software for spatiotemporal gene expression tracking in Arabidopsis thaliana. Methods in Cell Biology, 2020, 160, 419-436.	1.1	1
60	Editorial overview: Directionality and precision - how signaling and gene regulation drive plant development and growth. Current Opinion in Plant Biology, 2020, 57, A1-A3.	7.1	0
61	Quantifying Intercellular Movement and Protein Stoichiometry for Computational Modeling. Methods in Molecular Biology, 2022, 2457, 367-382.	0.9	0