

Anna-Lisa Paul

List of Publications by Year in descending order

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92
papers

3,098
citations

126907

33
h-index

168389

53
g-index

94
all docs

94
docs citations

94
times ranked

2184
citing authors

#	ARTICLE	IF	CITATIONS
1	14-3-3 proteins in plant physiology. <i>Seminars in Cell and Developmental Biology</i> , 2011, 22, 720-727.	5.0	234
2	Spaceflight Transcriptomes: Unique Responses to a Novel Environment. <i>Astrobiology</i> , 2012, 12, 40-56.	3.0	140
3	Plants in space. <i>Current Opinion in Plant Biology</i> , 2002, 5, 258-263.	7.1	127
4	The 14-3-3 Proteins <i>14-3-3</i> and <i>14-3-3</i> Influence Transition to Flowering and Early Phytochrome Response. <i>Plant Physiology</i> , 2007, 145, 1692-1702.	4.8	107
5	14-3-3 phosphoprotein interaction networks “ does isoform diversity present functional interaction specification?”. <i>Frontiers in Plant Science</i> , 2012, 3, 190.	3.6	104
6	Organ-specific remodeling of the Arabidopsis transcriptome in response to spaceflight. <i>BMC Plant Biology</i> , 2013, 13, 112.	3.6	99
7	Isoform-specific Subcellular Localization among 14-3-3 Proteins in Arabidopsis Seems to be Driven by Client Interactions. <i>Molecular Biology of the Cell</i> , 2005, 16, 1735-1743.	2.1	96
8	Transgene Expression Patterns Indicate That Spaceflight Affects Stress Signal Perception and Transduction in Arabidopsis. <i>Plant Physiology</i> , 2001, 126, 613-621.	4.8	93
9	Microgravity effects on leaf morphology, cell structure, carbon metabolism and mRNA expression of dwarf wheat. <i>Planta</i> , 2006, 224, 1038-1049.	3.2	92
10	Hypobaric Biology: Arabidopsis Gene Expression at Low Atmospheric Pressure. <i>Plant Physiology</i> , 2004, 134, 215-223.	4.8	90
11	Plant growth strategies are remodeled by spaceflight. <i>BMC Plant Biology</i> , 2012, 12, 232.	3.6	90
12	In vivo and in vitro characterization of protein interactions with the dyad G-box of the Arabidopsis Adh gene.. <i>Plant Cell</i> , 1990, 2, 207-214.	6.6	80
13	Fundamental Plant Biology Enabled by The Space Shuttle. <i>American Journal of Botany</i> , 2013, 100, 226-234.	1.7	75
14	Arabidopsis gene expression patterns are altered during spaceflight. <i>Advances in Space Research</i> , 2005, 36, 1175-1181.	2.6	73
15	Plant phosphopeptide-binding proteins as signaling mediators. <i>Current Opinion in Plant Biology</i> , 2010, 13, 527-532.	7.1	73
16	Spaceflight engages heat shock protein and other molecular chaperone genes in tissue culture cells of <i>Arabidopsis thaliana</i> . <i>American Journal of Botany</i> , 2013, 100, 235-248.	1.7	73
17	Localization of 14-3-3 proteins in the nuclei of arabidopsis and maize. <i>Plant Journal</i> , 1997, 12, 1439-1445.	5.7	71
18	Spaceflight Induces Specific Alterations in the Proteomes of Arabidopsis. <i>Astrobiology</i> , 2015, 15, 32-56.	3.0	63

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19	Genetic dissection of the Arabidopsis spaceflight transcriptome: Are some responses dispensable for the physiological adaptation of plants to spaceflight?. <i>PLoS ONE</i> , 2017, 12, e0180186.	2.5	63
20	In vivo footprinting reveals unique cis-elements and different modes of hypoxic induction in maize Adh1 and Adh2.. <i>Plant Cell</i> , 1991, 3, 159-168.	6.6	62
21	Regulation of genes encoding the large subunit of ribulose-1,5-bisphosphate carboxylase and the photosystem II polypeptides D-1 and D-2 during the cell cycle of <i>Chlamydomonas reinhardtii</i> .. <i>Journal of Cell Biology</i> , 1986, 103, 1837-1845.	5.2	56
22	The effect of spaceflight on the gravity-sensing auxin gradient of roots: GFP reporter gene microscopy on orbit. <i>Npj Microgravity</i> , 2016, 2, 15023.	3.7	54
23	Constitutive and anaerobically induced DNase-I-hypersensitive sites in the 5' region of the maize Adh1 gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987, 84, 799-803.	7.1	51
24	High magnetic field induced changes of gene expression in arabidopsis. <i>Biomagnetic Research and Technology</i> , 2006, 4, 7.	2.0	47
25	Growth Performance and Root Transcriptome Remodeling of Arabidopsis in Response to Mars-Like Levels of Magnesium Sulfate. <i>PLoS ONE</i> , 2010, 5, e12348.	2.5	47
26	Epigenomics in an extraterrestrial environment: organ-specific alteration of DNA methylation and gene expression elicited by spaceflight in <i>Arabidopsis thaliana</i> . <i>BMC Genomics</i> , 2019, 20, 205.	2.8	47
27	The 14-3-3 proteins of Arabidopsis regulate root growth and chloroplast development as components of the photosensory system. <i>Journal of Experimental Botany</i> , 2012, 63, 3061-3070.	4.8	44
28	Exposure of <i>Arabidopsis thaliana</i> to Hypobaric Environments: Implications for Low-Pressure Bioregenerative Life Support Systems for Human Exploration Missions and Terraforming on Mars. <i>Astrobiology</i> , 2006, 6, 851-866.	3.0	42
29	Parabolic Flight Induces Changes in Gene Expression Patterns in <i>Arabidopsis thaliana</i> . <i>Astrobiology</i> , 2011, 11, 743-758.	3.0	39
30	Utilization of single-image normalized difference vegetation index (NDVI) for early plant stress detection. <i>Applications in Plant Sciences</i> , 2018, 6, e01186.	2.1	39
31	Comparative Interactomics: Analysis of Arabidopsis 14-3-3 Complexes Reveals Highly Conserved 14-3-3 Interactions between Humans and Plants. <i>Journal of Proteome Research</i> , 2009, 8, 1913-1924.	3.7	38
32	Plant molecular biology in the space station era: Utilization of KSC fixation tubes with RNAlater. <i>Acta Astronautica</i> , 2005, 56, 623-628.	3.2	37
33	Higher Order Chromatin Structures in Maize and Arabidopsis. <i>Plant Cell</i> , 1998, 10, 1349-1359.	6.6	36
34	Root Skewing-Associated Genes Impact the Spaceflight Response of <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 239.	3.6	32
35	Spaceflight-induced alternative splicing during seedling development in <i>Arabidopsis thaliana</i> . <i>Npj Microgravity</i> , 2019, 5, 9.	3.7	31
36	Osmium tetroxide footprinting of a scaffold attachment region in the maize Adh1 promoter. <i>Plant Molecular Biology</i> , 1993, 22, 1145-1151.	3.9	26

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37	Plants grown in Apollo lunar regolith present stress-associated transcriptomes that inform prospects for lunar exploration. <i>Communications Biology</i> , 2022, 5, 382.	4.4	26
38	Molecular Aspects of Stress-Gene Regulation During Spaceflight. <i>Journal of Plant Growth Regulation</i> , 2002, 21, 166-176.	5.1	25
39	The Plant Health Monitoring System of the EDEN ISS Space Greenhouse in Antarctica During the 2018 Experiment Phase. <i>Frontiers in Plant Science</i> , 2019, 10, 1457.	3.6	25
40	Adenine Nucleotide Pool Perturbation Is a Metabolic Trigger for AMP Deaminase Inhibitor-Based Herbicide Toxicity. <i>Plant Physiology</i> , 2007, 143, 1752-1760.	4.8	24
41	Lunar Plant Biology – A Review of the Apollo Era. <i>Astrobiology</i> , 2010, 10, 261-274.	3.0	24
42	Skewing in Arabidopsis roots involves disparate environmental signaling pathways. <i>BMC Plant Biology</i> , 2017, 17, 31.	3.6	24
43	The fungicidal and phytotoxic properties of benomyl and PPM in supplemented agar media supporting transgenic arabidopsis plants for a Space Shuttle flight experiment. <i>Applied Microbiology and Biotechnology</i> , 2001, 55, 480-485.	3.6	22
44	ARG1 Functions in the Physiological Adaptation of Undifferentiated Plant Cells to Spaceflight. <i>Astrobiology</i> , 2017, 17, 1077-1111.	3.0	22
45	Higher-order chromatin structure: looping long molecules. , 1999, 41, 713-720.		21
46	The performance of KSC Fixation Tubes with RNALater for orbital experiments: A case study in ISS operations for molecular biology. <i>Advances in Space Research</i> , 2011, 48, 199-206.	2.6	20
47	Developing strategies for automated remote plant production systems: Environmental control and monitoring of the Arthur Clarke Mars Greenhouse in the Canadian High Arctic. <i>Advances in Space Research</i> , 2009, 44, 1367-1381.	2.6	19
48	HSFA2 Functions in the Physiological Adaptation of Undifferentiated Plant Cells to Spaceflight. <i>International Journal of Molecular Sciences</i> , 2019, 20, 390.	4.1	18
49	Dissecting Low Atmospheric Pressure Stress: Transcriptome Responses to the Components of Hypobaric Stress in Arabidopsis. <i>Frontiers in Plant Science</i> , 2017, 8, 528.	3.6	16
50	14-3-3 isoforms participate in red light signaling and photoperiodic flowering. <i>Plant Signaling and Behavior</i> , 2008, 3, 304-306.	2.4	15
51	Spaceflight Exploration in Plant Gravitational Biology. <i>Methods in Molecular Biology</i> , 2015, 1309, 285-305.	0.9	14
52	Phosphomimetic mutation of a conserved serine residue in Arabidopsis thaliana 14-3-3 β suggests a regulatory role of phosphorylation in dimerization and target interactions. <i>Plant Physiology and Biochemistry</i> , 2015, 97, 296-303.	5.8	13
53	Chemical detection of Z-DNA within the maize Adh1 promoter. <i>Plant Molecular Biology</i> , 1992, 18, 1181-1184.	3.9	12
54	14-3-3 Proteins, red light, and photoperiodic flowering. <i>Plant Signaling and Behavior</i> , 2008, 3, 511-515.	2.4	11

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55	Epigenomic Regulators Elongator Complex Subunit 2 and Methyltransferase 1 Differentially Condition the Spaceflight Response in Arabidopsis. <i>Frontiers in Plant Science</i> , 2021, 12, 691790.	3.6	11
56	Deployment of a Prototype Plant GFP Imager at the Arthur Clarke Mars Greenhouse of the Haughton Mars Project. <i>Sensors</i> , 2008, 8, 2762-2773.	3.8	10
57	Patterns of Arabidopsis gene expression in the face of hypobaric stress. <i>AoB PLANTS</i> , 2017, 9, .	2.3	10
58	Comparing <i>scRNA-Seq</i> and microarray gene expression data in two zones of the <i>Arabidopsis</i> root apex relevant to spaceflight. <i>Applications in Plant Sciences</i> , 2018, 6, e01197.	2.1	10
59	Remote sensing of gene expression in Planta: transgenic plants as monitors of exogenous stress perception in extraterrestrial environments. <i>Life Support & Biosphere Science: International Journal of Earth Space</i> , 2002, 8, 83-91.	0.1	10
60	In vivo footprinting identifies an activating element of the maize Adh2 promoter specific for root and vascular tissues. <i>Plant Journal</i> , 1994, 5, 523-533.	5.7	9
61	<i>Arabidopsis thaliana</i> for Spaceflight Applications—Preparing Dormant Biology for Passive Stowage and On-Orbit Activation. <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2014, 2, 81-89.	0.8	9
62	Permeabilized Arabidopsis protoplasts provide new insight into the chromatin structure of plant alcohol dehydrogenase genes. , 1998, 22, 7-16.		8
63	Root Growth Patterns and Morphometric Change Based on the Growth Media. <i>Microgravity Science and Technology</i> , 2016, 28, 621-631.	1.4	8
64	A member of the CONSTANS-Like protein family is a putative regulator of reactive oxygen species homeostasis and spaceflight physiological adaptation. <i>AoB PLANTS</i> , 2019, 11, ply075.	2.3	8
65	Mapping by VESGEN of Leaf Venation Patterning in <i>Arabidopsis thaliana</i> with Bioinformatic Dimensions of Gene Expression. <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2014, 2, 68-81.	0.8	8
66	Transcription Factor Veracity: Is GBF3 Responsible for ABA-Regulated Expression of Arabidopsis Adh?. <i>Plant Cell</i> , 1996, 8, 847.	6.6	7
67	Effects of a Spaceflight Environment on Heritable Changes in Wheat Gene Expression. <i>Astrobiology</i> , 2009, 9, 359-367.	3.0	7
68	NDVI imaging within space exploration plant growth modules — A case study from EDEN ISS Antarctica. <i>Life Sciences in Space Research</i> , 2020, 26, 1-9.	2.3	7
69	Deployment of a Fully-Automated Green Fluorescent Protein Imaging System in a High Arctic Autonomous Greenhouse. <i>Sensors</i> , 2013, 13, 3530-3548.	3.8	6
70	A method for preparing spaceflight RNA later—fixed <i>Arabidopsis thaliana</i> (Brassicaceae) tissue for scanning electron microscopy. <i>Applications in Plant Sciences</i> , 2013, 1, 1300034.	2.1	5
71	Data for characterization of SALK_084889, a T-DNA insertion line of Arabidopsis thaliana. <i>Data in Brief</i> , 2017, 13, 253-258.	1.0	5
72	Shared Metabolic Remodeling Processes Characterize the Transcriptome of <i>Arabidopsis thaliana</i> within Various Suborbital Flight Environments. <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2021, 9, 13-29.	0.8	5

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73	Enabling the Spaceflight Methylome: DNA Isolated from Plant Tissues Preserved in RNAlater [®] Is Suitable for Bisulfite PCR Assay of Genome Methylation. <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2016, 4, 28-37.	0.8	5
74	Approaches for Surveying Cosmic Radiation Damage in Large Populations of <i>Arabidopsis thaliana</i> Seeds “ Antarctic Balloons and Particle Beams. <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2018, 6, 54-73.	0.8	4
75	The TAGES Imaging System: Optimizing a Green Fluorescent Protein Imaging System for Plants. , 2003, , .		3
76	Mars Plant Biology: A Workshop Report and Recommendations for Plant Biology in the Exploration Era. <i>Habitation</i> , 2006, 11, 1-4.	0.2	3
77	Flexible imaging payload for real-time fluorescent biological imaging in parabolic, suborbital and space analog environments. <i>Life Sciences in Space Research</i> , 2014, 3, 32-44.	2.3	3
78	Plant adaptation to low atmospheric pressures: potential molecular responses. <i>Life Support & Biosphere Science: International Journal of Earth Space</i> , 2002, 8, 93-101.	0.1	3
79	In vivo Footprinting Reveals Unique cis-Elements and Different Modes of Hypoxic Induction in Maize Adh1 and Adh2. <i>Plant Cell</i> , 1991, 3, 159.	6.6	2
80	Chapter 27 In Vivo Footprinting of Protein-DNA Interactions. <i>Methods in Cell Biology</i> , 1995, 49, 391-400.	1.1	2
81	In Vivo Footprinting in Arabidopsis. , 1998, 82, 417-429.		2
82	Higher Order Chromatin Structures in Maize and Arabidopsis. <i>Plant Cell</i> , 1998, 10, 1349.	6.6	2
83	Topographical imaging technique for qualitative analysis of microarray data. <i>BioTechniques</i> , 2006, 41, 554-558.	1.8	1
84	An Analysis of Chromatin Structure and Gene Regulation. , 1987, , 47-58.		1
85	Assays for studying chromatin structure. , 1989, , 231-241.		1
86	A simple optoelectronic device for controlling an electrophoresis apparatus. <i>Review of Scientific Instruments</i> , 1989, 60, 3072-3073.	1.3	0
87	2 Chromatin. <i>Methods in Plant Biochemistry</i> , 1996, , 13-28.	0.2	0
88	Transgenic Plant Biomonitors: Stress Gene Biocompatibility Evaluation of the Plant Growth Facility for PGIM-01. , 0, , .		0
89	Phenotypic characterization of an Arabidopsis T-DNA insertion line SALK_063500. <i>Data in Brief</i> , 2018, 18, 913-919.	1.0	0
90	Gene Expression in Space Biology Experiments. , 2003, , 343-346.		0

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91	Chromatin Structure and Gene Expression. , 1989, , 355-370.		0
92	Genomic Sequencing in Maize. , 1994, , 579-585.		0