

Stanley J Roux

List of Publications by Year in descending order

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64
papers

3,791
citations

109321

35
h-index

128289

60
g-index

65
all docs

65
docs citations

65
times ranked

2593
citing authors

#	ARTICLE	IF	CITATIONS
1	Extracellular ATP Induces the Accumulation of Superoxide via NADPH Oxidases in Arabidopsis. <i>Plant Physiology</i> , 2006, 140, 1222-1232.	4.8	260
2	The Role of Annexin 1 in Drought Stress in Arabidopsis. <i>Plant Physiology</i> , 2009, 150, 1394-1410.	4.8	220
3	Evidence of a Novel Cell Signaling Role for Extracellular Adenosine Triphosphates and Diphosphates in Arabidopsis. <i>Plant Cell</i> , 2004, 16, 2652-2664.	6.6	182
4	Differential Expression of Members of the Annexin Multigene Family in Arabidopsis. <i>Plant Physiology</i> , 2001, 126, 1072-1084.	4.8	156
5	A Role for Ectophosphatase in Xenobiotic Resistance. <i>Plant Cell</i> , 2000, 12, 519-533.	6.6	147
6	Evolutionary adaptation of plant annexins has diversified their molecular structures, interactions and functional roles. <i>New Phytologist</i> , 2012, 196, 695-712.	7.3	145
7	Extracellular ATP: an unexpected role as a signaler in plants. <i>Trends in Plant Science</i> , 2007, 12, 522-527.	8.8	136
8	A Pan-plant Protein Complex Map Reveals Deep Conservation and Novel Assemblies. <i>Cell</i> , 2020, 181, 460-474.e14.	28.9	133
9	Extracellular ATP Inhibits Root Gravitropism at Concentrations That Inhibit Polar Auxin Transport. <i>Plant Physiology</i> , 2003, 131, 147-154.	4.8	122
10	Apyrases (Nucleoside Triphosphate-Diphosphohydrolases) Play a Key Role in Growth Control in Arabidopsis. <i>Plant Physiology</i> , 2007, 144, 961-975.	4.8	122
11	Disruption of Apyrases Inhibits Pollen Germination in Arabidopsis. <i>Plant Physiology</i> , 2003, 131, 1638-1647.	4.8	117
12	Apyrase Functions in Plant Phosphate Nutrition and Mobilizes Phosphate from Extracellular ATP1. <i>Plant Physiology</i> , 1999, 119, 543-552.	4.8	103
13	Characterization of Oat Calmodulin and Radioimmunoassay of Its Subcellular Distribution. <i>Plant Physiology</i> , 1984, 75, 382-386.	4.8	101
14	Intersection of two signalling pathways: extracellular nucleotides regulate pollen germination and pollen tube growth via nitric oxide. <i>Journal of Experimental Botany</i> , 2009, 60, 2129-2138.	4.8	85
15	Multiherbicide tolerance conferred by AtPgp1 and apyrase overexpression in Arabidopsis thaliana. <i>Nature Biotechnology</i> , 2003, 21, 428-433.	17.5	84
16	Role of calcium ions in phytochrome responses: an update. <i>Physiologia Plantarum</i> , 1986, 66, 344-348.	5.2	83
17	Extracellular Nucleotides and Apyrases Regulate Stomatal Aperture in Arabidopsis. <i>Plant Physiology</i> , 2011, 156, 1740-1753.	4.8	82
18	Structure, function, and mechanism of action of Calmodulin. <i>Critical Reviews in Plant Sciences</i> , 1986, 4, 311-339.	5.7	78

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19	Apyrase (Nucleoside Triphosphate-Diphosphohydrolase) and Extracellular Nucleotides Regulate Cotton Fiber Elongation in Cultured Ovules. <i>Plant Physiology</i> , 2010, 152, 1073-1083.	4.8	75
20	Both the stimulation and inhibition of root hair growth induced by extracellular nucleotides in <i>Arabidopsis</i> are mediated by nitric oxide and reactive oxygen species. <i>Plant Molecular Biology</i> , 2010, 74, 423-435.	3.9	74
21	Photoreversible Calcium Fluxes Induced by Phytochrome in Oat Coleoptile Cells. <i>Plant Physiology</i> , 1980, 65, 658-662.	4.8	71
22	Gene expression changes induced by space flight in single-cells of the fern <i>Ceratopteris richardii</i> . <i>Planta</i> , 2008, 229, 151-159.	3.2	65
23	Apyrase Suppression Raises Extracellular ATP Levels and Induces Gene Expression and Cell Wall Changes Characteristic of Stress Responses. <i>Plant Physiology</i> , 2014, 164, 2054-2067.	4.8	65
24	Antisense Expression of an <i>Arabidopsis</i> Ran Binding Protein Renders Transgenic Roots Hypersensitive to Auxin and Alters Auxin-Induced Root Growth and Development by Arresting Mitotic Progress. <i>Plant Cell</i> , 2001, 13, 2619-2630.	6.6	64
25	Light-modulated abundance of an mRNA encoding a calmodulin-regulated, chromatin-associated NTPase in pea. <i>Plant Molecular Biology</i> , 1996, 30, 135-147.	3.9	57
26	Gravity-directed calcium current in germinating spores of <i>Ceratopteris richardii</i> . <i>Planta</i> , 2000, 210, 607-610.	3.2	55
27	Molecular and biochemical comparison of two different apyrases from <i>Arabidopsis thaliana</i> . <i>Plant Physiology and Biochemistry</i> , 2000, 38, 913-922.	5.8	52
28	Apyrases, extracellular ATP and the regulation of growth. <i>Current Opinion in Plant Biology</i> , 2011, 14, 700-706.	7.1	51
29	Identification of plant actin-binding proteins by F-actin affinity chromatography. <i>Plant Journal</i> , 2000, 24, 127-137.	5.7	48
30	Role for Apyrases in Polar Auxin Transport in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2012, 160, 1985-1995.	4.8	45
31	PARTICIPATION OF EXTRACELLULAR NUCLEOTIDES IN THE WOUND RESPONSE OF <i>DASYCLADUS VERMICULARIS</i> AND <i>ACETABULARIA ACETABULUM</i> (DASYCLADALES, CHLOROPHYTA).	2.3	40
32	Breakthroughs spotlighting roles for extracellular nucleotides and apyrases in stress responses and growth and development. <i>Plant Science</i> , 2014, 225, 107-116.	3.6	40
33	ANN1 and ANN2 Function in Post-Phloem Sugar Transport in Root Tips to Affect Primary Root Growth. <i>Plant Physiology</i> , 2018, 178, 390-401.	4.8	40
34	Influence of gravity and light on the developmental polarity of <i>Ceratopteris richardii</i> fern spores. <i>Planta</i> , 1998, 205, 553-560.	3.2	39
35	Cellular mechanisms controlling light-stimulated gravitropism: Role of calcium. <i>Critical Reviews in Plant Sciences</i> , 1987, 5, 205-236.	5.7	38
36	Polar distribution of annexin-like proteins during phytochrome-mediated initiation and growth of rhizoids in the ferns <i>Dryopteris</i> and <i>Anemia</i> . <i>Planta</i> , 1995, 197, 376-384.	3.2	36

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37	Characterization of Nucleoside Triphosphatase Activity in Isolated Pea Nuclei and Its Photoreversible Regulation by Light. <i>Plant Physiology</i> , 1986, 81, 609-613.	4.8	35
38	Regulation of a recombinant pea nuclear apyrase by calmodulin and casein kinase II. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2000, 1494, 248-255.	2.4	33
39	RNA-seq analysis identifies potential modulators of gravity response in spores of <i>Ceratopteris</i> (Parkeriaceae): Evidence for modulation by calcium pumps and apyrase activity. <i>American Journal of Botany</i> , 2013, 100, 161-174.	1.7	31
40	Inhibition of gravitropism in oat coleoptiles by the calcium chelator, ethyleneglycol-bis-(beta-aminoethyl ether)-N'-tetraacetic acid. <i>Physiologia Plantarum</i> , 1984, 61, 449-454.	5.2	30
41	AtAPY1 and AtAPY2 Function as Golgi-Localized Nucleoside Diphosphatases in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2012, 53, 1913-1925.	3.1	30
42	Modulation of Root Skewing in <i>Arabidopsis</i> by Apyrases and Extracellular ATP. <i>Plant and Cell Physiology</i> , 2015, 56, pcv134.	3.1	29
43	A self-referencing biosensor for real-time monitoring of physiological ATP transport in plant systems. <i>Biosensors and Bioelectronics</i> , 2015, 74, 37-44.	10.1	28
44	Light Differentially Regulates Cell Division and the mRNA Abundance of Pea Nucleolin during De-Etiolation. <i>Plant Physiology</i> , 2001, 125, 339-350.	4.8	26
45	Co-regulation of exine wall patterning, pollen fertility and anther dehiscence by <i>Arabidopsis</i> apyrases 6 and 7. <i>Plant Physiology and Biochemistry</i> , 2013, 69, 62-73.	5.8	26
46	Role of Ca ²⁺ in Mediating Plant Responses to Extracellular ATP and ADP. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3590.	4.1	25
47	DETERMINATION OF EXTINCTION COEFFICIENTS OF OAT PHYTOCHROME BY QUANTITATIVE AMINO ACID ANALYSES. <i>Photochemistry and Photobiology</i> , 1982, 35, 537-543.	2.5	24
48	Ectopic expression of a pea apyrase enhances root system architecture and drought survival in <i>Arabidopsis</i> and soybean. <i>Plant, Cell and Environment</i> , 2019, 42, 337-353.	5.7	24
49	Early development of fern gametophytes in microgravity. <i>Advances in Space Research</i> , 2003, 31, 215-220.	2.6	21
50	Biochemical characterization of <i>Arabidopsis</i> APYRASE family reveals their roles in regulating endomembrane NDP/NMP homoeostasis. <i>Biochemical Journal</i> , 2015, 472, 43-54.	3.7	18
51	Current status and proposed roles for nitric oxide as a key mediator of the effects of extracellular nucleotides on plant growth. <i>Frontiers in Plant Science</i> , 2013, 4, 427.	3.6	15
52	Recent Advances Clarifying the Structure and Function of Plant Apyrases (Nucleoside Triphosphate) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.1	13
53	A RAPID PROCEDURE FOR THE PURIFICATION OF 124 kDALTON PHYTOCHROME FROM AVENA. <i>Photochemistry and Photobiology</i> , 1985, 41, 229-232.	2.5	12
54	CALCIUM-REGULATED NUCLEAR ENZYMES: POTENTIAL MEDIATORS OF PHYTOCHROME-INDUCED CHANGES IN NUCLEAR METABOLISM?. <i>Photochemistry and Photobiology</i> , 1992, 56, 811-814.	2.5	11

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55	Partial purification and characterization of a type 1 protein phosphatase in purified nuclei of pea plumules. <i>Biochemical Journal</i> , 1996, 319, 985-991.	3.7	9
56	Red Light-Induced Appearance of Phosphotyrosine-like Epitopes on Nuclear Proteins from Pea (<i>Pisum</i>) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	2.5	9
57	A Start Point for Extracellular Nucleotide Signaling. <i>Molecular Plant</i> , 2014, 7, 937-938.	8.3	7
58	APYRASE1/2 mediate red light-induced de-etiolation growth in <i>Arabidopsis</i> seedlings. <i>Plant Physiology</i> , 2022, 189, 1728-1740.	4.8	5
59	Regulation of enzymes in isolated plant nuclei. <i>BioEssays</i> , 1986, 5, 120-123.	2.5	4
60	Regulation of Plant Growth and Development by Extracellular Nucleotides. , 2006, , 221-234.		4
61	New Insights in Plant Biology Gained from Research in Space. <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2015, 3, 3-19.	0.8	4
62	Apyrase inhibitors enhance the ability of diverse fungicides to inhibit the growth of different plantâ€pathogenic fungi. <i>Molecular Plant Pathology</i> , 2017, 18, 1012-1023.	4.2	3
63	Extracellular ATP Signaling in Animals and Plants: Comparison and Contrast. , 2019, , 389-409.		1
64	Constitutive expression of a pea apyrase, psNTP9, increases seed yield in field-grown soybean. <i>Scientific Reports</i> , 2022, 12, .	3.3	1