

Jon K Pittman

List of Publications by Citations

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103
papers

7,237
citations

41
h-index

84
g-index

108
ext. papers

8,202
ext. citations

6.2
avg, IF

6.34
L-index

#	Paper	IF	Citations
103	The potential of sustainable algal biofuel production using wastewater resources. <i>Bioresource Technology</i> , 2011 , 102, 17-25	11	1075
102	Shaping the calcium signature. <i>New Phytologist</i> , 2009 , 181, 275-294	9.8	524
101	Emerging mechanisms for heavy metal transport in plants. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2000 , 1465, 104-26	3.8	412
100	Using FTIR spectroscopy for rapid determination of lipid accumulation in response to nitrogen limitation in freshwater microalgae. <i>Bioresource Technology</i> , 2010 , 101, 4499-507	11	360
99	Protein Phylogenetic Analysis of Ca(2+)/cation Antiporters and Insights into their Evolution in Plants. <i>Frontiers in Plant Science</i> , 2012 , 3, 1	6.2	330
98	Managing the manganese: molecular mechanisms of manganese transport and homeostasis. <i>New Phytologist</i> , 2005 , 167, 733-42	9.8	259
97	Up-regulation of a H ⁺ -pyrophosphatase (H ⁺ -PPase) as a strategy to engineer drought-resistant crop plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 18830-5	11.5	218
96	The monosaccharide transporter gene, AtSTP4, and the cell-wall invertase, Atbetafruct1, are induced in Arabidopsis during infection with the fungal biotroph <i>Erysiphe cichoracearum</i> . <i>Plant Physiology</i> , 2003 , 132, 821-9	6.6	198
95	The protein kinase SOS2 activates the Arabidopsis H(+)/Ca(2+) antiporter CAX1 to integrate calcium transport and salt tolerance. <i>Journal of Biological Chemistry</i> , 2004 , 279, 2922-6	5.4	197
94	A role for the AtMTP11 gene of Arabidopsis in manganese transport and tolerance. <i>Plant Journal</i> , 2007 , 51, 198-210	6.9	188
93	The Arabidopsis <i>cax1</i> mutant exhibits impaired ion homeostasis, development, and hormonal responses and reveals interplay among vacuolar transporters. <i>Plant Cell</i> , 2003 , 15, 347-64	11.6	186
92	Functional association of Arabidopsis CAX1 and CAX3 is required for normal growth and ion homeostasis. <i>Plant Physiology</i> , 2005 , 138, 2048-60	6.6	157
91	Increased calcium levels and prolonged shelf life in tomatoes expressing Arabidopsis H ⁺ /Ca ²⁺ transporters. <i>Plant Physiology</i> , 2005 , 139, 1194-206	6.6	130
90	ECA3, a Golgi-localized P2A-type ATPase, plays a crucial role in manganese nutrition in Arabidopsis. <i>Plant Physiology</i> , 2008 , 146, 116-28	6.6	128
89	Vacuolar Ca(2+) uptake. <i>Cell Calcium</i> , 2011 , 50, 139-46	4	104
88	The Arabidopsis <i>cax3</i> mutants display altered salt tolerance, pH sensitivity and reduced plasma membrane H ⁺ -ATPase activity. <i>Planta</i> , 2008 , 227, 659-69	4.7	97
87	Regulation of CAX1, an Arabidopsis Ca ²⁺ /H ⁺ Antiporter. Identification of an N-Terminal Autoinhibitory Domain. <i>Plant Physiology</i> , 2001 , 127, 1020-1029	6.6	94

86	Characterization of CAX4, an Arabidopsis H(+)/cation antiporter. <i>Plant Physiology</i> , 2002 , 128, 1245-54	6.6	94
85	Oxidative stress-tolerant microalgae strains are highly efficient for biofuel feedstock production on wastewater. <i>Biomass and Bioenergy</i> , 2013 , 56, 284-294	5.3	93
84	Elucidating the mechanisms of assembly and subunit interaction of the cellulose synthase complex of Arabidopsis secondary cell walls. <i>Journal of Biological Chemistry</i> , 2009 , 284, 3833-41	5.4	89
83	Root development under metal stress in Arabidopsis thaliana requires the H(+)/cation antiporter CAX4. <i>New Phytologist</i> , 2009 , 183, 95-105	9.8	87
82	Manganese specificity determinants in the Arabidopsis metal/H+ antiporter CAX2. <i>Journal of Biological Chemistry</i> , 2003 , 278, 6610-7	5.4	84
81	CAX-ing a wide net: Cation/H(+) transporters in metal remediation and abiotic stress signalling. <i>Plant Biology</i> , 2016 , 18, 741-9	3.7	82
80	Ca ²⁺ /H ⁺ exchange by acidic organelles regulates cell migration in vivo. <i>Journal of Cell Biology</i> , 2016 , 212, 803-13	7.3	78
79	Ca ²⁺ /H ⁺ exchange by acidic organelles regulates cell migration in vivo. <i>Journal of Experimental Medicine</i> , 2016 , 213, 2134OIA28	16.6	78
78	Functional and regulatory analysis of the Arabidopsis thaliana CAX2 cation transporter. <i>Plant Molecular Biology</i> , 2004 , 56, 959-71	4.6	76
77	Acclimation of microalgae to wastewater environments involves increased oxidative stress tolerance activity. <i>Plant and Cell Physiology</i> , 2014 , 55, 1848-57	4.9	73
76	Bioaccumulation of silver nanoparticles into Daphnia magna from a freshwater algal diet and the impact of phosphate availability. <i>Nanotoxicology</i> , 2014 , 8, 305-16	5.3	73
75	Transcriptional Engineering of Microalgae: Prospects for High-Value Chemicals. <i>Trends in Biotechnology</i> , 2017 , 35, 95-99	15.1	69
74	Comparative analysis of CAX2-like cation transporters indicates functional and regulatory diversity. <i>Biochemical Journal</i> , 2009 , 418, 145-54	3.8	60
73	Microbial degradation of four biodegradable polymers in soil and compost demonstrating polycaprolactone as an ideal compostable plastic. <i>Waste Management</i> , 2019 , 97, 105-114	8.6	59
72	PSR1 Is a Global Transcriptional Regulator of Phosphorus Deficiency Responses and Carbon Storage Metabolism in Chlamydomonas reinhardtii. <i>Plant Physiology</i> , 2016 , 170, 1216-34	6.6	59
71	Mechanism of N-terminal autoinhibition in the Arabidopsis Ca(2+)/H(+) antiporter CAX1. <i>Journal of Biological Chemistry</i> , 2002 , 277, 26452-9	5.4	58
70	Metabolic responses of eukaryotic microalgae to environmental stress limit the ability of FT-IR spectroscopy for species identification. <i>Algal Research</i> , 2015 , 11, 148-155	5	57
69	Multiple Transport Pathways for Mediating Intracellular pH Homeostasis: The Contribution of H(+)/ion Exchangers. <i>Frontiers in Plant Science</i> , 2012 , 3, 11	6.2	57

68	Structural determinants of Ca ²⁺ transport in the Arabidopsis H ⁺ /Ca ²⁺ antiporter CAX1. <i>Journal of Biological Chemistry</i> , 2001 , 276, 43152-9	5.4	56
67	Don't shoot the (second) messenger: endomembrane transporters and binding proteins modulate cytosolic Ca ²⁺ levels. <i>Current Opinion in Plant Biology</i> , 2003 , 6, 257-62	9.9	55
66	Distinct N-terminal regulatory domains of Ca(2+)/H(+) antiporters. <i>Plant Physiology</i> , 2002 , 130, 1054-62	6.6	53
65	Metal bioremediation by CrMTP4 over-expressing <i>Chlamydomonas reinhardtii</i> in comparison to natural wastewater-tolerant microalgae strains. <i>Algal Research</i> , 2017 , 24, 89-96	5	52
64	In planta regulation of the Arabidopsis Ca(2+)/H(+) antiporter CAX1. <i>Journal of Experimental Botany</i> , 2007 , 58, 3419-27	7	52
63	Functional dependence on calcineurin by variants of the <i>Saccharomyces cerevisiae</i> vacuolar Ca ²⁺ /H ⁺ exchanger Vcx1p. <i>Molecular Microbiology</i> , 2004 , 54, 1104-16	4.1	41
62	A cation-regulated and proton gradient-dependent cation transporter from <i>Chlamydomonas reinhardtii</i> has a role in calcium and sodium homeostasis. <i>Journal of Biological Chemistry</i> , 2009 , 284, 525-533	5.4	39
61	Evidence of differential pH regulation of the Arabidopsis vacuolar Ca ²⁺ /H ⁺ antiporters CAX1 and CAX2. <i>FEBS Letters</i> , 2005 , 579, 2648-56	3.8	39
60	Carbon dioxide sequestration in wastewater by a consortium of elevated carbon dioxide-tolerant microalgae. <i>Journal of CO2 Utilization</i> , 2015 , 10, 105-112	7.6	38
59	Characterization of a rice (<i>Oryza sativa</i> L.) gene encoding a temperature-dependent chloroplast omega-3 fatty acid desaturase. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 340, 1209-16	3.4	37
58	ILR2, a novel gene regulating IAA conjugate sensitivity and metal transport in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2003 , 35, 523-34	6.9	37
57	Cadmium exposure and phosphorus limitation increases metal content in the freshwater alga <i>Chlamydomonas reinhardtii</i> . <i>Environmental Science & Technology</i> , 2011 , 45, 7489-96	10.3	36
56	A vacuolar iron-transporter homologue acts as a detoxifier in <i>Plasmodium</i> . <i>Nature Communications</i> , 2016 , 7, 10403	17.4	35
55	Implications of sludge liquor addition for wastewater-based open pond cultivation of microalgae for biofuel generation and pollutant remediation. <i>Bioresource Technology</i> , 2014 , 152, 355-63	11	35
54	Functional studies of split Arabidopsis Ca ²⁺ /H ⁺ exchangers. <i>Journal of Biological Chemistry</i> , 2009 , 284, 34075-83	5.4	35
53	Natural wetlands are efficient at providing long-term metal remediation of freshwater systems polluted by acid mine drainage. <i>Environmental Science & Technology</i> , 2013 , 47, 12029-36	10.3	31
52	Microalgal biomass as a biorefinery platform for biobutanol and biodiesel production. <i>Biochemical Engineering Journal</i> , 2020 , 153, 107396	4.2	31
51	Phylogenetic analysis and protein structure modelling identifies distinct Ca(2+)/Cation antiporters and conservation of gene family structure within Arabidopsis and rice species. <i>Rice</i> , 2016 , 9, 3	5.8	30

50	Kinetic modelling of starch and lipid formation during mixotrophic, nutrient-limited microalgal growth. <i>Bioresource Technology</i> , 2017 , 241, 868-878	11	28
49	High-throughput metabolic screening of microalgae genetic variation in response to nutrient limitation. <i>Metabolomics</i> , 2016 , 12, 9	4.7	28
48	The Plasmodium berghei Ca(2+)/H(+) exchanger, PbCAX, is essential for tolerance to environmental Ca(2+) during sexual development. <i>PLoS Pathogens</i> , 2013 , 9, e1003191	7.6	27
47	Production of lipid-based fuels and chemicals from microalgae: An integrated experimental and model-based optimization study. <i>Algal Research</i> , 2017 , 23, 78-87	5	26
46	Two Glycerol-3-Phosphate Dehydrogenases from Have Distinct Roles in Lipid Metabolism. <i>Plant Physiology</i> , 2017 , 174, 2083-2097	6.6	26
45	Dissecting Pathways Involved in Manganese Homeostasis and Stress in Higher Plant Cells. <i>Plant Cell Monographs</i> , 2010 , 95-117	0.6	26
44	Metabolic adaptation of a Chlamydomonas acidophila strain isolated from acid mine drainage ponds with low eukaryotic diversity. <i>Science of the Total Environment</i> , 2019 , 647, 75-87	10.2	25
43	Expression in yeast links field polymorphisms in PfATP6 to in vitro artemisinin resistance and identifies new inhibitor classes. <i>Journal of Infectious Diseases</i> , 2013 , 208, 468-78	7	24
42	Potential of Bioenergy Production from Microalgae. <i>Current Sustainable/Renewable Energy Reports</i> , 2014 , 1, 94-103	2.8	23
41	Spatial and temporal specificity of Ca signalling in Chlamydomonas reinhardtii in response to osmotic stress. <i>New Phytologist</i> , 2016 , 212, 920-933	9.8	23
40	Microbial Community Shifts in Response to Acid Mine Drainage Pollution Within a Natural Wetland Ecosystem. <i>Frontiers in Microbiology</i> , 2018 , 9, 1445	5.7	22
39	Organic complexation of U(VI) in reducing soils at a natural analogue site: Implications for uranium transport. <i>Chemosphere</i> , 2020 , 254, 126859	8.4	19
38	Knockout of multiple Arabidopsis cation/H(+) exchangers suggests isoform-specific roles in metal stress response, germination and seed mineral nutrition. <i>PLoS ONE</i> , 2012 , 7, e47455	3.7	19
37	Multi-factor kinetic modelling of microalgal biomass cultivation for optimised lipid production. <i>Bioresource Technology</i> , 2018 , 269, 417-425	11	17
36	Two additional type IIA Ca(2+)-ATPases are expressed in Arabidopsis thaliana: evidence that type IIA sub-groups exist. <i>Gene</i> , 1999 , 236, 137-47	3.8	17
35	Exchangers man the pumps: Functional interplay between proton pumps and proton-coupled Ca exchangers. <i>Plant Signaling and Behavior</i> , 2008 , 3, 354-6	2.5	14
34	Models of microalgal cultivation for added-value products - A review. <i>Biotechnology Advances</i> , 2020 , 44, 107609	17.8	13
33	Radioactivity and the environment: technical approaches to understand the role of arbuscular mycorrhizal plants in radionuclide bioaccumulation. <i>Frontiers in Plant Science</i> , 2015 , 6, 580	6.2	12

32	Ca ²⁺ Pumps and Ca ²⁺ Antiporters in Plant Development. <i>Signaling and Communication in Plants</i> , 2011 , 133-161	1	12
31	Cloning and characterization of a PI-like MADS-box gene in <i>Phalaenopsis</i> orchid. <i>BMB Reports</i> , 2007 , 40, 845-52	5.5	12
30	Microbial bloom formation in a high pH spent nuclear fuel pond. <i>Science of the Total Environment</i> , 2020 , 720, 137515	10.2	11
29	Macroalgae as spatial and temporal bioindicators of coastal metal pollution following remediation and diversion of acid mine drainage. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 182, 109458	7	11
28	Increased metal tolerance and bioaccumulation of zinc and cadmium in <i>Chlamydomonas reinhardtii</i> expressing a AtHMA4 C-terminal domain protein. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 2996-3005	4.9	9
27	Optimisation of microalgal cultivation via nutrient-enhanced strategies: the biorefinery paradigm. <i>Biotechnology for Biofuels</i> , 2021 , 14, 64	7.8	8
26	The association of microbial activity with Fe, S and trace element distribution in sediment cores within a natural wetland polluted by acid mine drainage. <i>Chemosphere</i> , 2019 , 231, 432-441	8.4	7
25	Multi-genomic analysis of the cation diffusion facilitator transporters from algae. <i>Metallomics</i> , 2020 , 12, 617-630	4.5	7
24	Role of Cation/Proton Exchangers in Abiotic Stress Signaling and Stress Tolerance in Plants 2015 , 95-117		6
23	Radiation Tolerance of , a Cyanobacterium Relevant to the First Generation Magnox Storage Pond. <i>Frontiers in Microbiology</i> , 2020 , 11, 515	5.7	6
22	Calcium Signalling in Plants 2012 ,		6
21	Multiple environmental factors influence U, Th and Ra bioaccumulation in arbuscular mycorrhizal-associated plants. <i>Science of the Total Environment</i> , 2018 , 640-641, 921-934	10.2	6
20	Biochemical signatures of acclimation by <i>Chlamydomonas reinhardtii</i> to different ionic stresses. <i>Algal Research</i> , 2019 , 37, 83-91	5	6
19	Effects of air pollutants on proton and sucrose transport at the plasma membrane of <i>Ricinus communis</i> . <i>Plant, Cell and Environment</i> , 1999 , 22, 221-227	8.4	3
18	Mechanisms of detoxification of high copper concentrations by the microalga <i>Chlorella sorokiniana</i> . <i>Biochemical Journal</i> , 2020 , 477, 3729-3741	3.8	3
17	Isolation of fungal strains for biodegradation and saccharification of microalgal biomass. <i>Biomass and Bioenergy</i> , 2020 , 137, 105547	5.3	3
16	Specific arbuscular mycorrhizal fungal-plant interactions determine radionuclide and metal transfer into <i>Plantago lanceolata</i> . <i>Plants People Planet</i> , 2021 , 3, 667-678	4.1	3
15	Integrated Computational and Experimental Studies of Microalgal Production of Fuels and Chemicals. <i>Computer Aided Chemical Engineering</i> , 2015 , 2393-2398	0.6	2

14	Increased metal tolerance and bioaccumulation of zinc and cadmium in <i>Chlamydomonas reinhardtii</i> expressing a AtHMA4 C-terminal domain protein		2
13	Bio-mineralization of Sr by the Cyanobacterium <i>Pseudanabaena catenata</i> Under Alkaline Conditions. <i>Frontiers in Earth Science</i> , 2020 , 8,	3.5	2
12	Improved saccharification of <i>Chlorella vulgaris</i> biomass by fungal secreted enzymes for bioethanol production. <i>Algal Research</i> , 2021 , 58, 102402	5	2
11	Addition of organic acids to acid mine drainage polluted wetland sediment leads to microbial community structure and functional changes and improved water quality. <i>Environmental Pollution</i> , 2021 , 290, 118064	9.3	2
10	Mechanism and Evolution of Calcium Transport Across the Plant Plasma Membrane. <i>Plant Cell Monographs</i> , 2011 , 275-289	0.6	1
9	The effects of ionizing radiation on the structure and antioxidative and metal-binding capacity of the cell wall of microalga <i>Chlorella sorokiniana</i> . <i>Chemosphere</i> , 2020 , 260, 127553	8.4	1
8	Experimental Studies and Model Based Optimisation of Microalgal Production of Fuels and Chemicals. <i>Computer Aided Chemical Engineering</i> , 2016 , 38, 2145-2150	0.6	1
7	Tea plant roots respond to aluminum-induced mineral nutrient imbalances by transcriptional regulation of multiple cation and anion transporters.. <i>BMC Plant Biology</i> , 2022 , 22, 203	5.3	1
6	Kinetic Modelling and Scaled-up Experimental Studies of Microalgal Fuels and Chemicals Production. <i>Computer Aided Chemical Engineering</i> , 2017 , 2833-2838	0.6	
5	Model-based Fed-batch Algal Cultivation Strategy for Enhanced Starch Production. <i>Computer Aided Chemical Engineering</i> , 2018 , 1595-1600	0.6	
4	A multiscale model approach for cell growth for lipids and pigments production by <i>Haematococcus pluvialis</i> under different environmental conditions.. <i>Computer Aided Chemical Engineering</i> , 2019 , 46, 1573-1578	0.6	
3	Characterisation of Metal Transport Proteins for providing metal stress tolerance in green microalgae. <i>New Biotechnology</i> , 2014 , 31, S141	6.4	
2	Optimisation of microalgal starch formation for the biochemical production of biobutanol. <i>Computer Aided Chemical Engineering</i> , 2017 , 2899-2904	0.6	
1	Modelling of Starch Production by Microalgal Biomass under Multi-nutrient Limitation. <i>Computer Aided Chemical Engineering</i> , 2016 , 2133-2138	0.6	