Joseph M Jez

List of Publications by Year
in descending order

156 papers	8,266 citations	38742 50 h-index	53230 85 g-index
170 all docs	170 docs citations	170 times ranked	9134 citing authors

#	Article	IF	Citations
1	Structure of chalcone synthase and the molecular basis of plant polyketide biosynthesis. Nature Structural Biology, 1999, 6, 775-784.	9.7	584
2	A new nomenclature for the aldo-keto reductase superfamily. Biochemical Pharmacology, 1997, 54, 639-647.	4.4	346
3	Structure and mechanism of the evolutionarily unique plant enzyme chalcone isomerase. Nature Structural Biology, 2000, 7, 786-791.	9.7	311
4	Molecular basis for AUXIN RESPONSE FACTOR protein interaction and the control of auxin response repression. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5427-5432.	7.1	249
5	Structural control of polyketide formation in plant-specific polyketide synthases. Chemistry and Biology, 2000, 7, 919-930.	6.0	236
6	Crystal Structure and Molecular Modeling of 17-DMAG in Complex with Human Hsp90. Chemistry and Biology, 2003, 10, 361-368.	6.0	183
7	Using Unnatural Protein Fusions to Engineer Resveratrol Biosynthesis in Yeast and Mammalian Cells. Journal of the American Chemical Society, 2006, 128, 13030-13031.	13.7	179
8	Nucleo-cytoplasmic Partitioning of ARF Proteins Controls Auxin Responses in Arabidopsis thaliana. Molecular Cell, 2019, 76, 177-190.e5.	9.7	165
9	Molecular Basis of Cysteine Biosynthesis in Plants. Journal of Biological Chemistry, 2005, 280, 38803-38813.	3.4	161
10	Thiol-Based Regulation of Redox-Active Glutamate-Cysteine Ligase from <i>Arabidopsis thaliana</i>. Plant Cell, 2007, 19, 2653-2661.	6.6	154
11	Natureâ€™s assembly line: biosynthesis of simple phenylpropanoids and polyketides. Plant Journal, 2008, 54, 750-762.	5.7	151
12	Comprehensive analysis of the <i>Brassica juncea</i> root proteome in response to cadmium exposure by complementary proteomic approaches. Proteomics, 2009, 9, 2419-2431.	2.2	148
13	Steroid recognition and regulation of hormone action: crystal structure of testosterone and NADP+ bound to 3Î±-hydroxysteroid/dihydrodiol dehydrogenase. Structure, 1997, 5, 799-812.	3.3	142
14	Reaction Mechanism of Chalcone Isomerase. Journal of Biological Chemistry, 2002, 277, 1361-1369.	3.4	138
15	Structural Basis for Prereceptor Modulation of Plant Hormones by GH3 Proteins. Science, 2012, 336, 1708-1711.	12.6	137
16	Indole-3-acetaldehyde dehydrogenase-dependent auxin synthesis contributes to virulence of Pseudomonas syringae strain DC3000. PLoS Pathogens, 2018, 14, e1006811.	4.7	135
17	Enzyme Redesign. Chemical Reviews, 2001, 101, 3027-3046.	47.7	132
18	Expanding the biosynthetic repertoire of plant type III polyketide synthases by altering starter molecule specificity. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5319-5324.	7.1	130

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19	Phosphoproteomic identification of targets of the Arabidopsis sucrose nonfermenting-like kinase SnRK2.8 reveals a connection to metabolic processes. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6460-6465.	7.1	129
20	Arabidopsis thaliana Glutamate-Cysteine Ligase. Journal of Biological Chemistry, 2004, 279, 33463-33470.	3.4	126
21	Mechanism of Chalcone Synthase. Journal of Biological Chemistry, 2000, 275, 39640-39646.	3.4	123
22	A Structural Basis for the Biosynthesis of the Major Chlorogenic Acids Found in Coffee Â Â. Plant Physiology, 2012, 160, 249-260.	4.8	120
23	<i>Arabidopsis thaliana</i> GH3.5 acyl acid amido synthetase mediates metabolic crosstalk in auxin and salicylic acid homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13917-13922.	7.1	118
24	The next green movement: Plant biology for the environment and sustainability. Science, 2016, 353, 1241-1244.	12.6	117
25	Structural Basis for Interaction of O-Acetylserine Sulfhydrylase and Serine Acetyltransferase in the Arabidopsis Cysteine Synthase Complex. Plant Cell, 2006, 18, 3647-3655.	6.6	103
26	A redoxâ€active isopropylmalate dehydrogenase functions in the biosynthesis of glucosinolates and leucine in Arabidopsis. Plant Journal, 2009, 60, 679-690.	5.7	102
27	Kinetic Basis for the Conjugation of Auxin by a GH3 Family Indole-acetic Acid-Amido Synthetase. Journal of Biological Chemistry, 2010, 285, 29780-29786.	3.4	91
28	Structural basis and evolution of redox regulation in plant adenosine-5â€²-phosphosulfate kinase. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 309-314.	7.1	91
29	Structure-function aspects and inhibitor design of type 5 17Î²-hydroxysteroid dehydrogenase (AKR1C3). Molecular and Cellular Endocrinology, 2001, 171, 137-149.	3.2	88
30	Mechanistic analysis of wheat chlorophyllase. Archives of Biochemistry and Biophysics, 2005, 438, 146-155.	3.0	83
31	Sensing Sulfur Conditions: Simple to Complex Protein Regulatory Mechanisms in Plant Thiol Metabolism. Molecular Plant, 2010, 3, 269-279.	8.3	83
32	14-3-3 Proteins fine-tune plant nutrient metabolism. FEBS Letters, 2011, 585, 143-147.	2.8	81
33	The <i>Î²</i>â€cyanoalanine synthase pathway: beyond cyanide detoxification. Plant, Cell and Environment, 2016, 39, 2329-2341.	5.7	79
34	Modulating plant hormones by enzyme action. Plant Signaling and Behavior, 2010, 5, 1607-1612.	2.4	78
35	Plant Glutathione Biosynthesis: Diversity in Biochemical Regulation and Reaction Products. Frontiers in Plant Science, 2011, 2, 45.	3.6	78
36	A chemical inhibitor of jasmonate signaling targets JAR1 in Arabidopsis thaliana. Nature Chemical Biology, 2014, 10, 830-836.	8.0	76

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37	Assembly of the Cysteine Synthase Complex and the Regulatory Role of Protein-Protein Interactions. Journal of Biological Chemistry, 2009, 284, 10268-10275.	3.4	70
38	Editorâ€™s Choice: Crop Genome Plasticity and Its Relevance to Food and Feed Safety of Genetically Engineered Breeding Stacks. Plant Physiology, 2012, 160, 1842-1853.	4.8	68
39	An elaborate heterotrimeric Gâ€protein family from soybean expands the diversity of plant Gâ€protein networks. New Phytologist, 2011, 190, 35-48.	7.3	67
40	Mutagenic Definition of a Papain-Like Catalytic Triad, Sufficiency of the N-Terminal Domain for Single-Site Core Catalytic Enzyme Acylation, and C-Terminal Domain for Augmentative Metal Activation of a Eukaryotic Phytochelatin Synthase. Plant Physiology, 2006, 141, 858-869.	4.8	65
41	Enzyme Action in the Regulation of Plant Hormone Responses. Journal of Biological Chemistry, 2013, 288, 19304-19311.	3.4	64
42	Transgenic soybean plants overexpressing O-acetylserine sulfhydrylase accumulate enhanced levels of cysteine and Bowmanâ€"Birk protease inhibitor in seeds. Planta, 2012, 235, 13-23.	3.2	62
43	Review: The promise and limits for enhancing sulfur-containing amino acid content of soybean seed. Plant Science, 2018, 272, 14-21.	3.6	61
44	From sulfur to homoglutathione: thiol metabolism in soybean. Amino Acids, 2010, 39, 963-978.	2.7	59
45	From climate change to molecular response: redox proteomics of ozoneâ€induced responses in soybean. New Phytologist, 2012, 194, 220-229.	7.3	57
46	Kinetic Mechanism of Glutathione Synthetase from Arabidopsis thaliana. Journal of Biological Chemistry, 2004, 279, 42726-42731.	3.4	55
47	Structure and Reaction Mechanism of Phosphoethanolamine Methyltransferase from the Malaria Parasite Plasmodium falciparum. Journal of Biological Chemistry, 2012, 287, 1426-1434.	3.4	55
48	Characterization of the Substrate Binding Site in Rat Liver 3Î±-Hydroxysteroid/Dihydrodiol Dehydrogenase. Journal of Biological Chemistry, 1996, 271, 30190-30198.	3.4	54
49	Soybean ATP sulfurylase, a homodimeric enzyme involved in sulfur assimilation, is abundantly expressed in roots and induced by cold treatment. Archives of Biochemistry and Biophysics, 2006, 450, 20-29.	3.0	53
50	The cysteine regulatory complex from plants and microbes: what was old is new again. Current Opinion in Structural Biology, 2013, 23, 302-310.	5.7	53
51	Identification, Characterization, Epitope Mapping, and Three-Dimensional Modeling of the Î±-Subunit of Î²-Conglycinin of Soybean, a Potential Allergen for Young Pigs. Journal of Agricultural and Food Chemistry, 2007, 55, 4014-4020.	5.2	52
52	Structure of Soybean Î²-Cyanoalanine Synthase and the Molecular Basis for Cyanide Detoxification in Plants. Plant Cell, 2012, 24, 2696-2706.	6.6	50
53	Structural biology of plant sulfur metabolism: From assimilation to biosynthesis. Natural Product Reports, 2012, 29, 1138.	10.3	49
54	Thermodynamics of the Interaction between O-Acetylserine Sulfhydrylase and the C-Terminus of Serine Acetyltransferase. Biochemistry, 2007, 46, 5586-5594.	2.5	46

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55	A liquid chromatographyâ€"tandem mass spectrometry-based assay for indole-3-acetic acidâ€"amido synthetase. Analytical Biochemistry, 2009, 390, 149-154.	2.4	46
56	GÎ± and regulator of Gâ€protein signaling (RGS) protein pairs maintain functional compatibility and conserved interaction interfaces throughout evolution despite frequent loss of RGS proteins in plants. New Phytologist, 2017, 216, 562-575.	7.3	46
57	Î²-N-Oxalyl-l-Î±,Î²-diaminopropionic Acid (Î²-ODAP) Content in Lathyrus sativus: The Integration of Nitrogen and Sulfur Metabolism through Î²-Cyanoalanine Synthase. International Journal of Molecular Sciences, 2017, 18, 526.	4.1	46
58	Identification of a Noroxomaritidine Reductase with Amaryllidaceae Alkaloid Biosynthesis Related Activities. Journal of Biological Chemistry, 2016, 291, 16740-16752.	3.4	42
59	Molecular basis of the evolution of alternative tyrosine biosynthetic routes in plants. Nature Chemical Biology, 2017, 13, 1029-1035.	8.0	42
60	Molecular basis for branched steviol glucoside biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13131-13136.	7.1	41
61	Editorâ€™s Choice: Evaluating the Potential for Adverse Interactions within Genetically Engineered Breeding Stacks. Plant Physiology, 2013, 161, 1587-1594.	4.8	40
62	Refining the nuclear auxin response pathway through structural biology. Current Opinion in Plant Biology, 2015, 27, 22-28.	7.1	40
63	Structural and Functional Evolution of Isopropylmalate Dehydrogenases in the Leucine and Glucosinolate Pathways of Arabidopsis thaliana. Journal of Biological Chemistry, 2011, 286, 28794-28801.	3.4	39
64	Structural Evolution of Differential Amino Acid Effector Regulation in Plant Chorismate Mutases. Journal of Biological Chemistry, 2014, 289, 28619-28628.	3.4	39
65	Structure and Mechanism of Soybean ATP Sulfurylase and the Committed Step in Plant Sulfur Assimilation. Journal of Biological Chemistry, 2014, 289, 10919-10929.	3.4	39
66	Structural biology of plant sulfur metabolism: from sulfate to glutathione. Journal of Experimental Botany, 2019, 70, 4089-4103.	4.8	39
67	Structural and Kinetic Analysis of the Unnatural Fusion Protein 4-Coumaroyl-CoA Ligase::Stilbene Synthase. Journal of the American Chemical Society, 2011, 133, 20684-20687.	13.7	37
68	Determination of the GH3.12 protein conformation through HPLC-integrated SAXS measurements combined with X-ray crystallography. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 2072-2080.	2.5	37
69	Molecular Basis of the Evolution of Methylthioalkylmalate Synthase and the Diversity of Methionine-Derived Glucosinolates. Plant Cell, 2019, 31, 1633-1647.	6.6	37
70	Production of high levels of polyâ€3â€hydroxybutyrate in plastids of <i><scp>C</scp>amelina sativa</i> seeds. Plant Biotechnology Journal, 2015, 13, 675-688.	8.3	35
71	Probing the origins of glutathione biosynthesis through biochemical analysis of glutamate-cysteine ligase and glutathione synthetase from a model photosynthetic prokaryote. Biochemical Journal, 2013, 450, 63-72.	3.7	34
72	Effects of proteome rebalancing and sulfur nutrition on the accumulation of methionine rich ÃŽÂ´-zein in transgenic soybeans. Frontiers in Plant Science, 2014, 5, 633.	3.6	34

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73	Contributions of conserved serine and tyrosine residues to catalysis, ligand binding, and cofactor processing in the active site of tyrosine ammonia lyase. Phytochemistry, 2008, 69, 1496-1506.	2.9	32
74	The role of 5â€²-adenylylsulfate reductase in the sulfur assimilation pathway of soybean: Molecular cloning, kinetic characterization, and gene expression. Phytochemistry, 2008, 69, 356-364.	2.9	32
75	Structure of Soybean Serine Acetyltransferase and Formation of the Cysteine Regulatory Complex as a Molecular Chaperone. Journal of Biological Chemistry, 2013, 288, 36463-36472.	3.4	32
76	Arabidopsis thaliana GH3.15 acyl acid amido synthetase has a highly specific substrate preference for the auxin precursor indole-3-butyric acid. Journal of Biological Chemistry, 2018, 293, 4277-4288.	3.4	32
77	Two Chimeric Regulators of G-protein Signaling (RGS) Proteins Differentially Modulate Soybean Heterotrimeric G-protein Cycle. Journal of Biological Chemistry, 2012, 287, 17870-17881.	3.4	31
78	Redox Switching of Adenosine-5â€²-phosphosulfate Kinase with Photoactivatable Atomic Oxygen Precursors. Journal of the American Chemical Society, 2012, 134, 16979-16982.	13.7	31
79	Defining a Two-pronged Structural Model for PB1 (Phox/Bem1p) Domain Interaction in Plant Auxin Responses. Journal of Biological Chemistry, 2015, 290, 12868-12878.	3.4	31
80	Structure and Mechanism of Ferulic Acid Decarboxylase (FDC1) from Saccharomyces cerevisiae. Applied and Environmental Microbiology, 2015, 81, 4216-4223.	3.1	30
81	Antimalarial agents against both sexual and asexual parasites stages: structure-activity relationships and biological studies of the Malaria Box compound 1-[5-(4-bromo-2-chlorophenyl)furan-2-yl]-N-[(piperidin-4-yl)methyl]methanamine (MMV019918) and analogues. European Journal of Medicinal Chemistry, 2018, 150, 698-718.	5.5	27
82	Adaptive Engineering of Phytochelatin-based Heavy Metal Tolerance. Journal of Biological Chemistry, 2015, 290, 17321-17330.	3.4	26
83	Reaction Mechanism of Glutathione Synthetase from Arabidopsis thaliana. Journal of Biological Chemistry, 2007, 282, 17157-17165.	3.4	24
84	Nucleotide Binding Site Communication in Arabidopsis thaliana Adenosine 5â€²-Phosphosulfate Kinase. Journal of Biological Chemistry, 2012, 287, 30385-30394.	3.4	24
85	Structural basis for regulation of rhizobial nodulation and symbiosis gene expression by the regulatory protein NolR. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6509-6514.	7.1	23
86	The small molecule JIB-04 disrupts O₂binding in the Fe-dependent histone demethylase KDM4A/JMJD2A. Chemical Communications, 2017, 53, 2174-2177.	4.1	23
87	Structural Basis for Evolution of Product Diversity in Soybean Glutathione Biosynthesis. Plant Cell, 2009, 21, 3450-3458.	6.6	22
88	Evolution of Structure and Mechanistic Divergence in Di-Domain Methyltransferases from Nematode Phosphocholine Biosynthesis. Structure, 2013, 21, 1778-1787.	3.3	22
89	A Single Amino Acid Change Is Responsible for Evolution of Acyltransferase Specificity in Bacterial Methionine Biosynthesis. Journal of Biological Chemistry, 2008, 283, 7561-7567.	3.4	21
90	Structural biology and regulation of the plant sulfation pathway. Chemico-Biological Interactions, 2016, 259, 31-38.	4.0	21

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91	Crystal structure of phosphoethanolamine methyltransferase from Plasmodium falciparum in complex with amodiaquine. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 4990-4993.	2.2	20
92	Functional classification of protein toxins as a basis for bioinformatic screening. Scientific Reports, 2017, 7, 13940.	3.3	19
93	Kinetic mechanism of the dimeric ATP sulfurylase from plants. Bioscience Reports, 2013, 33, .	2.4	18
94	Immunolocalization of glutathione biosynthesis enzymes in Arabidopsis thaliana. Plant Physiology and Biochemistry, 2014, 75, 9-13.	5.8	18
95	Brassicaceae-specific Gretchen Hagen 3 acyl acid amido synthetases conjugate amino acids to chorismate, a precursor of aromatic amino acids and salicylic acid. Journal of Biological Chemistry, 2019, 294, 16855-16864.	3.4	18
96	Threonine-insensitive Homoserine Dehydrogenase from Soybean. Journal of Biological Chemistry, 2010, 285, 827-834.	3.4	17
97	Redox-linked Gating of Nucleotide Binding by the N-terminal Domain of Adenosine 5â€²-Phosphosulfate Kinase*. Journal of Biological Chemistry, 2013, 288, 6107-6115.	3.4	17
98	Assessing functional diversity in the soybean Î²-substituted alanine synthase enzyme family. Phytochemistry, 2012, 83, 15-24.	2.9	16
99	Evolution of allosteric regulation in chorismate mutases from early plants. Biochemical Journal, 2017, 474, 3705-3717.	3.7	16
100	Conformational changes in the di-domain structure of Arabidopsis phosphoethanolamine methyltransferase leads to active-site formation. Journal of Biological Chemistry, 2017, 292, 21690-21702.	3.4	16
101	Beyond the Teaching Assistantship: CURE Leadership as a Training Platform for Future Faculty. Journal of Chemical Education, 2018, 95, 3-6.	2.3	16
102	Thermodynamic Evaluation of Ligand Binding in the Plant-like Phosphoethanolamine Methyltransferases of the Parasitic Nematode Haemonchus contortus. Journal of Biological Chemistry, 2011, 286, 38060-38068.	3.4	15
103	Nematode phospholipid metabolism: an example of closing the genomeâ€"structureâ€"function circle. Trends in Parasitology, 2014, 30, 241-250.	3.3	15
104	Recapitulating the Structural Evolution of Redox Regulation in Adenosine 5â€²-Phosphosulfate Kinase from Cyanobacteria to Plants. Journal of Biological Chemistry, 2015, 290, 24705-24714.	3.4	15
105	Investigating the reaction and substrate preference of indole-3-acetaldehyde dehydrogenase from the plant pathogen <i>Pseudomonas syringae Pto</i>DC3000. Bioscience Reports, 2020, 40, .	2.4	15
106	Connecting primary and specialized metabolism: Amino acid conjugation of phytohormones by GRETCHEN HAGEN 3 (GH3) acyl acid amido synthetases. Current Opinion in Plant Biology, 2022, 66, 102194.	7.1	15
107	Revisiting protein structure, function, and evolution in the genomic era. Journal of Invertebrate Pathology, 2017, 142, 11-15.	3.2	14
108	Arabidopsis: the original plant chassis organism. Plant Cell Reports, 2018, 37, 1359-1366.	5.6	14

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109	Redoxâ€regulatory mechanisms induced by oxidative stress in <i>Brassica juncea</i> roots monitored by 2â€ĐE proteomics. Proteomics, 2011, 11, 1346-1350.	2.2	13
110	Structure and Mechanism of Isopropylmalate Dehydrogenase from Arabidopsis thaliana. Journal of Biological Chemistry, 2016, 291, 13421-13430.	3.4	13
111	An Alternative Mechanism for the Methylation of Phosphoethanolamine Catalyzed by Plasmodium falciparum Phosphoethanolamine Methyltransferase*. Journal of Biological Chemistry, 2014, 289, 33815-33825.	3.4	12
112	Structural basis for substrate recognition and inhibition of prephenate aminotransferase from Arabidopsis. Plant Journal, 2018, 94, 304-314.	5.7	12
113	Modification of auxinic phenoxyalkanoic acid herbicides by the acyl acid amido synthetase GH3.15 from Arabidopsis. Journal of Biological Chemistry, 2018, 293, 17731-17738.	3.4	12
114	Potent, specific MEPicides for treatment of zoonotic staphylococci. PLoS Pathogens, 2020, 16, e1007806.	4.7	12
115	Chronologically modified androgen receptor in recurrent castration-resistant prostate cancer and its therapeutic targeting. Science Translational Medicine, 2022, 14, .	12.4	12
116	Toward Protein Engineering for Phytoremediation: Possibilities and Challenges. International Journal of Phytoremediation, 2011, 13, 77-89.	3.1	11
117	Bifunctional Substrate Activation via an Arginine Residue Drives Catalysis in Chalcone Isomerases. ACS Catalysis, 2019, 9, 8388-8396.	11.2	11
118	Overexpression of ATP sulfurylase improves the sulfur amino acid content, enhances the accumulation of Bowmanâ€“Birk protease inhibitor and suppresses the accumulation of the Î²-subunit of Î²-conglycinin in soybean seeds. Scientific Reports, 2020, 10, 14989.	3.3	11
119	Impact of overexpression of cytosolic isoform of O-acetylserine sulfhydrylase on soybean nodulation and nodule metabolome. Scientific Reports, 2018, 8, 2367.	3.3	10
120	Synthetic biology meets plant metabolism. Plant Science, 2018, 273, 1-2.	3.6	10
121	Phosphatidylcholine Biosynthesis as a Potential Target for Inhibition of Metabolism in Parasitic Nematodes. Current Enzyme Inhibition, 2007, 3, 133-142.	0.4	9
122	Nodule-Enriched GRETCHEN HAGEN 3 Enzymes Have Distinct Substrate Specificities and Are Important for Proper Soybean Nodule Development. International Journal of Molecular Sciences, 2017, 18, 2547.	4.1	9
123	Plant metabolic engineering in the synthetic biology era: plant chassis selection. Plant Cell Reports, 2018, 37, 1357-1358.	5.6	9
124	Beyond X-rays: an overview of emerging structural biology methods. Emerging Topics in Life Sciences, 2021, 5, 221-230.	2.6	9
125	Distribution and the evolutionary history of G-protein components in plant and algal lineages. Plant Physiology, 2022, 189, 1519-1535.	4.8	9
126	Mutational analysis of YgfZ, a folate-dependent protein implicated in iron/sulphur cluster metabolism. FEMS Microbiology Letters, 2012, 326, 168-172.	1.8	8

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127	A multisubstrate reductase from Plantago major: structure-function in the short chain reductase superfamily. Scientific Reports, 2018, 8, 14796.	3.3	8
128	Structure-guided microbial targeting of antistaphylococcal prodrugs. ELife, 2021, 10, .	6.0	7
129	Point mutations that boost aromatic amino acid production and CO ₂ assimilation in plants. Science Advances, 2022, 8, .	10.3	7
130	A kaleidoscope of carotenoids. Nature Biotechnology, 2000, 18, 825-826.	17.5	6
131	Natural product biosynthesis: What's next? An introduction to the JBC Reviews Thematic Series. Journal of Biological Chemistry, 2020, 295, 335-336.	3.4	6
132	An integrated protein chemistry laboratory. Biochemistry and Molecular Biology Education, 2008, 36, 125-128.	1.2	5
133	Reaction Mechanism of Prephenate Dehydrogenase from the Alternative Tyrosine Biosynthesis Pathway in Plants. ChemBioChem, 2018, 19, 1132-1136.	2.6	5
134	Structural Studies of Aliphatic Glucosinolate Chain-Elongation Enzymes. Antioxidants, 2021, 10, 1500.	5.1	5
135	Development of a high-throughput purification method and a continuous assay system for chlorophyllase. Analytical Biochemistry, 2006, 353, 93-98.	2.4	4
136	Developing a new interdisciplinary lab course for undergraduate and graduate students: Plant cells and proteins. Biochemistry and Molecular Biology Education, 2007, 35, 410-415.	1.2	4
137	To be or not to be transgenic. Nature Biotechnology, 2012, 30, 825-826.	17.5	4
138	The plant pathogen enzyme AldC is a long-chain aliphatic aldehyde dehydrogenase. Journal of Biological Chemistry, 2020, 295, 13914-13926.	3.4	4
139	Two independently evolved natural mutations additively deregulate TyrA enzymes and boost tyrosine production <i>inâ€‰planta</i>. Plant Journal, 2022, 109, 844-855.	5.7	4
140	Spectroscopic Characterization of Bendazac and Benzydamine: Possible Photochemical Modes of Action. Biochemical and Biophysical Research Communications, 1996, 221, 266-270.	2.1	3
141	Plant nitrilase: a new job for an old enzyme. Biochemical Journal, 2019, 476, 1105-1107.	3.7	3
142	Structural and biochemical analysis of phosphoethanolamine methyltransferase from the pine wilt nematode Bursaphelenchus xylophilus. Molecular and Biochemical Parasitology, 2020, 238, 111291.	1.1	3
143	Enzymatic and structural characterization of HAD5, an essential phosphomannomutase of malaria-causing parasites. Journal of Biological Chemistry, 2022, 298, 101550.	3.4	3
144	The devil (and an active jasmonate hormone) is in the details. Nature Chemical Biology, 2009, 5, 273-274.	8.0	2

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145	Introduction to emerging technologies in plant science. Emerging Topics in Life Sciences, 2021, 5, 177-178.	2.6	2
146	A natural singleâ€nucleotide polymorphism variant in <i>sulfite reductase</i> influences sulfur assimilation in maize. New Phytologist, 2021, 232, 692-704.	7.3	2
147	The Phosphobase Methylation Pathway in Caernorhabditis elegans: A New Route to Phospholipids in Animals. Current Chemical Biology, 2011, 5, 183-188.	0.5	2
148	Plants in the real world: An introduction to the JBC Reviews thematic series. Journal of Biological Chemistry, 2020, 295, 15376-15377.	3.4	1
149	Protecting P-type plasma membrane H+-ATPases from ROS. Biochemical Journal, 2021, 478, 1511-1513.	3.7	1
150	Lights, X-Rays, Oxygen!. Cell, 2014, 158, 701-703.	28.9	0
151	Dissonance Strikes a Chord in Stilbene Synthesizers. Cell Chemical Biology, 2016, 23, 1440-1441.	5.2	0
152	Introduction to the Thematic Minireview Series: Green biological chemistry. Journal of Biological Chemistry, 2018, 293, 5016-5017.	3.4	0
153	Improving societies' harassment policies. Science, 2018, 361, 984-985.	12.6	0
154	The plant pathogen enzyme AldC is a longâ€chain aliphatic aldehyde dehydrogenase. FASEB Journal, 2021, 35, .	0.5	0
155	Structural and Functional Evolution of Isopropylmalate Dehydrogenases in the Leucine and Glucosinolate Pathways. FASEB Journal, 2012, 26, 576.2.	0.5	0
156	Structural and Biochemical Investigation of Plantâ€Nematode Interactions. FASEB Journal, 2018, 32, 526.1.	0.5	0