Joseph P Noel

List of Publications by Year
in descending order

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160 papers	22,185 citations	8159 76 h-index	8835 145 g-index
170 all docs	170 docs citations	170 times ranked	19300 citing authors

#	Article	IF	Citations
1	Plant-based CO₂ drawdown and storage as SiC. RSC Advances, 2021, 11, 15512-15518.	1.7	4
2	Structure and Mechanistic Analyses of the Gating Mechanism of Elongating Ketosynthases. ACS Catalysis, 2021, 11, 6787-6799.	5.5	12
3	Innovating carbon-capture biotechnologies through ecosystem-inspired solutions. One Earth, 2021, 4, 49-59.	3.6	21
4	Dissecting modular synthases through inhibition: A complementary chemical and genetic approach. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 126820.	1.0	5
5	Activity Mapping the Acyl Carrier Protein: Elongating Ketosynthase Interaction in Fatty Acid Biosynthesis. Biochemistry, 2020, 59, 3626-3638.	1.2	13
6	Interfacial plasticity facilitates high reaction rate of E. coli FAS malonyl-CoA:ACP transacylase, FabD. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24224-24233.	3.3	31
7	Algal neurotoxin biosynthesis repurposes the terpene cyclase structural fold into an N -prenyltransferase. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12799-12805.	3.3	13
8	Gating mechanism of elongating Î²-ketoacyl-ACP synthases. Nature Communications, 2020, 11, 1727.	5.8	44
9	Modulation of auxin formation by the cytosolic phenylalanine biosynthetic pathway. Nature Chemical Biology, 2020, 16, 850-856.	3.9	27
10	Bifunctional Substrate Activation via an Arginine Residue Drives Catalysis in Chalcone Isomerases. ACS Catalysis, 2019, 9, 8388-8396.	5.5	11
11	Substrate Specificity and Engineering of Mevalonate 5-Phosphate Decarboxylase. ACS Chemical Biology, 2019, 14, 1767-1779.	1.6	10
12	Strigolactone perception and deactivation by a hydrolase receptor DWARF14. Nature Communications, 2019, 10, 191.	5.8	198
13	A coupled in vitro/in vivo approach for engineering a heterologous type III PKS to enhance polyketide biosynthesis in Saccharomyces cerevisiae. Biotechnology and Bioengineering, 2018, 115, 1394-1402.	1.7	12
14	Evolution of chalcone isomerase from a noncatalytic ancestor. Nature Chemical Biology, 2018, 14, 548-555.	3.9	113
15	Contribution of isopentenyl phosphate to plant terpenoid metabolism. Nature Plants, 2018, 4, 721-729.	4.7	100
16	Dynamics and Bifunctional Substrate Activation by an Arginine Drive Catalysis in Plant Chalcone Isomerases. FASEB Journal, 2018, 32, lb73.	0.2	0
17	Structural basis for specific ligation of the peroxisome proliferator-activated receptor Î´. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2563-E2570.	3.3	52
18	A Red Algal Bourbonane Sesquiterpene Synthase Defined by Microgram-Scale NMR-Coupled Crystalline Sponge X-ray Diffraction Analysis. Journal of the American Chemical Society, 2017, 139, 16838-16844.	6.6	55

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19	Molecular architectures of benzoic acid-specific type III polyketide synthases. Acta Crystallographica Section D: Structural Biology, 2017, 73, 1007-1019.	1.1	11
20	Unveiling the functional diversity of the alpha/beta hydrolase superfamily in the plant kingdom. Current Opinion in Structural Biology, 2016, 41, 233-246.	2.6	135
21	Local auxin metabolism regulates environment-induced hypocotyl elongation. Nature Plants, 2016, 2, 16025.	4.7	122
22	Co-evolution of Hormone Metabolism and Signaling Networks Expands Plant Adaptive Plasticity. Cell, 2016, 166, 881-893.	13.5	125
23	Dynamic Conformational States Dictate Selectivity toward the Native Substrate in a Substrate-Permissive Acyltransferase. Biochemistry, 2016, 55, 6314-6326.	1.2	57
24	Biosynthetic potential of sesquiterpene synthases: product profiles of Egyptian Henbane premnaspirodiene synthase and related mutants. Journal of Antibiotics, 2016, 69, 524-533.	1.0	19
25	Biosynthesis of coral settlement cue tetrabromopyrrole in marine bacteria by a uniquely adapted brominaseâ€"thioesterase enzyme pair. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3797-3802.	3.3	81
26	Harvesting the biosynthetic machineries that cultivate a variety of indispensable plant natural products. Current Opinion in Chemical Biology, 2016, 31, 66-73.	2.8	18
27	Cryptochrome 1 interacts with PIF4 to regulate high temperature-mediated hypocotyl elongation in response to blue light. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 224-229.	3.3	332
28	Orthologs of the archaeal isopentenyl phosphate kinase regulate terpenoid production in plants. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10050-10055.	3.3	74
29	Formation of a Novel Macrocyclic Alkaloid from the Unnatural Farnesyl Diphosphate Analogue Anilinogeranyl Diphosphate by 5-Epi-Aristolochene Synthase. ACS Chemical Biology, 2015, 10, 1729-1736.	1.6	31
30	Mechanism-Based Post-Translational Modification and Inactivation in Terpene Synthases. ACS Chemical Biology, 2015, 10, 2501-2511.	1.6	21
31	Structural Studies of Cinnamoyl-CoA Reductase and Cinnamyl-Alcohol Dehydrogenase, Key Enzymes of Monolignol Biosynthesis Â. Plant Cell, 2014, 26, 3709-3727.	3.1	85
32	The phosphopantetheinyl transferases: catalysis of a post-translational modification crucial for life. Natural Product Reports, 2014, 31, 61-108.	5.2	283
33	Structure, Biochemistry, and Inhibition of Essential 4â€²-Phosphopantetheinyl Transferases from Two Species of Mycobacteria. ACS Chemical Biology, 2014, 9, 1939-1944.	1.6	48
34	Genetic Basis for the Biosynthesis of the Pharmaceutically Important Class of Epoxyketone Proteasome Inhibitors. ACS Chemical Biology, 2014, 9, 301-309.	1.6	51
35	Spectral and structural comparison between bright and dim green fluorescent proteins in Amphioxus. Scientific Reports, 2014, 4, 5469.	1.6	30
36	Confluence of structural and chemical biology: plant polyketide synthases as biocatalysts for a bio-based future. Current Opinion in Plant Biology, 2013, 16, 365-372.	3.5	27

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37	Flavin-mediated dual oxidation controls an enzymatic Favorskii-type rearrangement. Nature, 2013, 503, 552-556.	13.7	147
38	Coordination of auxin and ethylene biosynthesis by the aminotransferase VAS1. Nature Chemical Biology, 2013, 9, 244-246.	3.9	99
39	An open letter to the metabolomics community: looking forward to a future of integrative plant biology. Metabolomics, 2013, 9, 268-270.	1.4	0
40	Chemodiversity in Selaginella: a reference system for parallel and convergent metabolic evolution in terrestrial plants. Frontiers in Plant Science, 2013, 4, 119.	1.7	59
41	Expanding the Library and Substrate Diversity of the Pyrrolysylâ€tRNA Synthetase to Incorporate Unnatural Amino Acids Containing Conjugated Rings. ChemBioChem, 2013, 14, 2100-2105.	1.3	46
42	Smoke-derived karrikin perception by the Î±/Î²-hydrolase KAI2 from Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8284-8289.	3.3	152
43	Discovery of a metabolic alternative to the classical mevalonate pathway. ELife, 2013, 2, e00672.	2.8	83
44	Protein Epistasis Revealed from Thermostability Profiles of Nicotiana tabacum 5â€epiâ€Aristolochene Synthase. FASEB Journal, 2013, 27, 561.5.	0.2	0
45	Emergent Decarboxylase Activity and Attenuation of Î±/Î²-Hydrolase Activity during the Evolution of Methylketone Biosynthesis in Tomato. Plant Cell, 2012, 24, 1596-1607.	3.1	23
46	Structural and Kinetic Analysis of Prolyl-isomerization/Phosphorylation Cross-Talk in the CTD Code. ACS Chemical Biology, 2012, 7, 1462-1470.	1.6	59
47	Architectures, mechanisms and molecular evolution of natural product methyltransferases. Natural Product Reports, 2012, 29, 1238.	5.2	239
48	Evolution of the chalcone-isomerase fold from fatty-acid binding to stereospecific catalysis. Nature, 2012, 485, 530-533.	13.7	191
49	The Rise of Chemodiversity in Plants. Science, 2012, 336, 1667-1670.	6.0	326
50	Structureâ€"Function Analyses of Plant Type III Polyketide Synthases. Methods in Enzymology, 2012, 515, 317-335.	0.4	22
51	Physical Constraints on Sesquiterpene Diversity Arising from Cyclization of the Eudesm-5-yl Carbocation. Journal of the American Chemical Society, 2011, 133, 12632-12641.	6.6	35
52	Stereochemical Basis for Engineered Pyrrolysyl-tRNA Synthetase and the Efficient in Vivo Incorporation of Structurally Divergent Non-native Amino Acids. ACS Chemical Biology, 2011, 6, 733-743.	1.6	97
53	Structural basis of steroid hormone perception by the receptor kinase BRI1. Nature, 2011, 474, 467-471.	13.7	340
54	Genetically Encoding Unnatural Amino Acids in Neural Stem Cells and Optically Reporting Voltage-Sensitive Domain Changes in Differentiated Neurons. Stem Cells, 2011, 29, 1231-1240.	1.4	65

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55	Structure-Function Analyses of a Caffeic Acid O-Methyltransferase from Perennial Ryegrass Reveal the Molecular Basis for Substrate Preference Â. Plant Cell, 2011, 22, 4114-4127.	3.1	84
56	Structural and functional analysis of the phosphoryl transfer reaction mediated by the human small Câ€terminal domain phosphatase, Scp1. Protein Science, 2010, 19, 974-986.	3.1	34
57	Synthetic metabolism goes green. Nature, 2010, 468, 380-381.	13.7	7
58	Functional Analyses of Caffeic Acid O-Methyltransferase and Cinnamoyl-CoA-Reductase Genes from Perennial Ryegrass (Lolium perenne). Plant Cell, 2010, 22, 3357-3373.	3.1	161
59	Structural Elucidation of Cisoid and Transoid Cyclization Pathways of a Sesquiterpene Synthase Using 2-Fluorofarnesyl Diphosphates. ACS Chemical Biology, 2010, 5, 377-392.	1.6	60
60	Mutation of Archaeal Isopentenyl Phosphate Kinase Highlights Mechanism and Guides Phosphorylation of Additional Isoprenoid Monophosphates. ACS Chemical Biology, 2010, 5, 589-601.	1.6	30
61	Enzymatic Functions of Wild Tomato Methylketone Synthases 1 and 2. Plant Physiology, 2010, 154, 67-77.	2.3	74
62	Bisabolyl-Derived Sesquiterpenes from Tobacco 5-Epi-aristolochene Synthase-Catalyzed Cyclization of (2Z,6E)-Farnesyl Diphosphate. Journal of the American Chemical Society, 2010, 132, 4281-4289.	6.6	35
63	Biosynthesis of t-Anethole in Anise: Characterization of t-Anol/Isoeugenol Synthase and an O-Methyltransferase Specific for a C7-C8 Propenyl Side Chain Â Â. Plant Physiology, 2009, 149, 384-394.	2.3	62
64	Multiple Biochemical and Morphological Factors Underlie the Production of Methylketones in Tomato Trichomes Â Â. Plant Physiology, 2009, 151, 1952-1964.	2.3	62
65	The lack of floral synthesis and emission of isoeugenol in Petunia axillaris subsp. parodii is due to a mutation in the isoeugenol synthase gene. Plant Journal, 2009, 58, 961-969.	2.8	34
66	Laetirobin from the Parasitic Growth ofLaetiporus sulphureusonRobinia pseudoacacia. Journal of Natural Products, 2009, 72, 1980-1987.	1.5	16
67	Sâ€Adenosylâ€<scp>L</scp>â€Methionine Hydrolase (Adenosineâ€Forming), a Conserved Bacterial and Archeal Protein Related to SAMâ€Dependent Halogenases. ChemBioChem, 2008, 9, 2215-2219.	1.3	27
68	Chemoenzymatic syntheses of prenylated aromatic small molecules using Streptomyces prenyltransferases with relaxed substrate specificities. Bioorganic and Medicinal Chemistry, 2008, 16, 8117-8126.	1.4	101
69	Discovery and characterization of a marine bacterial SAM-dependent chlorinase. Nature Chemical Biology, 2008, 4, 69-74.	3.9	206
70	Evolving biosynthetic tangos negotiate mechanistic landscapes. Nature Chemical Biology, 2008, 4, 217-222.	3.9	60
71	The multiple phenylpropene synthases in both Clarkia breweri and Petunia hybrida represent two distinct protein lineages. Plant Journal, 2008, 54, 362-374.	2.8	76
72	Metabolite Induction of Caenorhabditis elegans Dauer Larvae Arises via Transport in the Pharynx. ACS Chemical Biology, 2008, 3, 294-304.	1.6	23

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73	Rapid Synthesis of Auxin via a New Tryptophan-Dependent Pathway Is Required for Shade Avoidance in Plants. Cell, 2008, 133, 164-176.	13.5	928
74	Quantitative exploration of the catalytic landscape separating divergent plant sesquiterpene synthases. Nature Chemical Biology, 2008, 4, 617-623.	3.9	184
75	Structural, Biochemical, and Phylogenetic Analyses Suggest That Indole-3-Acetic Acid Methyltransferase Is an Evolutionarily Ancient Member of the SABATH Family. Plant Physiology, 2008, 146, 323-324.	2.3	82
76	New auxin analogs with growth-promoting effects in intact plants reveal a chemical strategy to improve hormone delivery. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15190-15195.	3.3	100
77	Functional Characterization of Premnaspirodiene Oxygenase, a Cytochrome P450 Catalyzing Regio- and Stereo-specific Hydroxylations of Diverse Sesquiterpene Substrates. Journal of Biological Chemistry, 2007, 282, 31744-31754.	1.6	103
78	Methylation of Gibberellins by Arabidopsis GAMT1 and GAMT2. Plant Cell, 2007, 19, 32-45.	3.1	218
79	Mechanisms of Type III Polyketide Synthase Functional Diversity: From 'Steric Modulation' to the 'Reaction Partitioning' Model. ACS Symposium Series, 2007, , 185-197.	0.5	1
80	Structure and Reaction Mechanism of Basil Eugenol Synthase. PLoS ONE, 2007, 2, e993.	1.1	39
81	A soluble, magnesium-independent prenyltransferase catalyzes reverse and regularC-prenylations andO-prenylations of aromatic substrates. FEBS Letters, 2007, 581, 2889-2893.	1.3	52
82	Structural Basis for High-Affinity Peptide Inhibition of Human Pin1. ACS Chemical Biology, 2007, 2, 320-328.	1.6	123
83	Interception of the Enzymatic Conversion of Farnesyl Diphosphate to 5â€Epiâ€Aristolochene by Using a Fluoro Substrate Analogue: 1â€Fluorogermacrene A from (2E,6Z)â€6â€Fluorofarnesyl Diphosphate. ChemBioChem, 2007, 8, 1826-1833.	1.3	43
84	Metabolic engineering of sesquiterpene metabolism in yeast. Biotechnology and Bioengineering, 2007, 97, 170-181.	1.7	123
85	Digging for answers, smelling a hint of success and tasting triumph. Nature Chemical Biology, 2007, 3, 690-691.	3.9	1
86	Genetically encoding unnatural amino acids for cellular and neuronal studies. Nature Neuroscience, 2007, 10, 1063-1072.	7.1	164
87	Determinants for dephosphorylation of the RNA polymerase II Câ€terminal domain by Scp1. FASEB Journal, 2007, 21, A1032.	0.2	0
88	Identifying and manipulating structural determinates linking catalytic specificities in terpene synthases. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9826-9831.	3.3	195
89	Type III Polyketide Synthase Î²-Ketoacyl-ACP Starter Unit and Ethylmalonyl-CoA Extender Unit Selectivity Discovered byStreptomyces coelicolorGenome Mining. Journal of the American Chemical Society, 2006, 128, 14754-14755.	6.6	140
90	Biosynthesis of Plant Volatiles: Nature's Diversity and Ingenuity. Science, 2006, 311, 808-811.	6.0	766

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91	Structural Basis for Dual Functionality of Isoflavonoid O-Methyltransferases in the Evolution of Plant Defense Responses. Plant Cell, 2006, 18, 3656-3669.	3.1	77
92	An Arabidopsis thaliana methyltransferase capable of methylating farnesoic acid. Archives of Biochemistry and Biophysics, 2006, 448, 123-132.	1.4	73
93	Stereochemistry and deuterium isotope effects associated with the cyclization-rearrangements catalyzed by tobacco epiaristolochene and hyoscyamus premnaspirodiene synthases, and the chimeric CH4 hybrid cyclase. Archives of Biochemistry and Biophysics, 2006, 448, 31-44.	1.4	33
94	Biosynthetic potential of sesquiterpene synthases: Alternative products of tobacco 5-epi-aristolochene synthase. Archives of Biochemistry and Biophysics, 2006, 448, 73-82.	1.4	40
95	Determinants for Dephosphorylation of the RNA Polymerase II C-Terminal Domain by Scp1. Molecular Cell, 2006, 24, 759-770.	4.5	103
96	Methylation of sulfhydryl groups: a new function for a family of small molecule plantO-methyltransferases. Plant Journal, 2006, 46, 193-205.	2.8	28
97	Biosynthesis of Dictyostelium discoideum differentiation-inducing factor by a hybrid type I fatty acidâ€"type III polyketide synthase. Nature Chemical Biology, 2006, 2, 494-502.	3.9	110
98	Structural Determinants and Modulation of Substrate Specificity in Phenylalanine-Tyrosine Ammonia-Lyases. Chemistry and Biology, 2006, 13, 1327-1338.	6.2	114
99	Functional analysis of members of the isoflavone and isoflavanone O-methyltransferase enzyme families from the model legume Medicago truncatula. Plant Molecular Biology, 2006, 62, 715-733.	2.0	61
100	Structural Basis for the Modulation of CDK-Dependent/Independent Activity of Cyclin D1. Cell Cycle, 2006, 5, 2760-2768.	1.3	13
101	Structural basis for the design of potent and species-specific inhibitors of 3-hydroxy-3-methylglutaryl CoA synthases. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11491-11496.	3.3	37
102	Structure-function-folding relationship in a WW domain. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10648-10653.	3.3	199
103	Eugenol and isoeugenol, characteristic aromatic constituents of spices, are biosynthesized via reduction of a coniferyl alcohol ester. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10128-10133.	3.3	323
104	Floral benzenoid carboxyl methyltransferases: From in vitro to in planta function. Phytochemistry, 2005, 66, 1211-1230.	1.4	113
105	Structural basis for the promiscuous biosynthetic prenylation of aromatic natural products. Nature, 2005, 435, 983-987.	13.7	270
106	Structureâ€"function relationships in plant phenylpropanoid biosynthesis. Current Opinion in Plant Biology, 2005, 8, 249-253.	3.5	95
107	Structure of the Mg-Chelatase Cofactor GUN4 Reveals a Novel Hand-Shaped Fold for Porphyrin Binding. PLoS Biology, 2005, 3, e151.	2.6	80
108	Structural Elucidation of Chalcone Reductase and Implications for Deoxychalcone Biosynthesis. Journal of Biological Chemistry, 2005, 280, 30496-30503.	1.6	93

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109	Crystal Structures of Alfalfa Caffeoyl Coenzyme A 3-O-Methyltransferase. Plant Physiology, 2005, 137, 1009-1017.	2.3	111
110	Structural and Kinetic Basis for Substrate Selectivity in Populus tremuloides Sinapyl Alcohol Dehydrogenase. Plant Cell, 2005, 17, 1598-1611.	3.1	73
111	Kinetic and Molecular Analysis of 5-Epiaristolochene 1,3-Dihydroxylase, a Cytochrome P450 Enzyme Catalyzing Successive Hydroxylations of Sesquiterpenes. Journal of Biological Chemistry, 2005, 280, 3686-3696.	1.6	43
112	Gene Library Synthesis by Structure-Based Combinatorial Protein Engineering. Methods in Enzymology, 2004, 388, 75-91.	0.4	18
113	Biochemical and Structural Characterization of Benzenoid Carboxyl Methyltransferases Involved in Floral Scent Production in Stephanotis floribunda and Nicotiana suaveolens. Plant Physiology, 2004, 135, 1946-1955.	2.3	65
114	Crystal Structure of a Bacterial Type III Polyketide Synthase and Enzymatic Control of Reactive Polyketide Intermediates. Journal of Biological Chemistry, 2004, 279, 45162-45174.	1.6	149
115	An Aldol Switch Discovered in Stilbene Synthases Mediates Cyclization Specificity of Type III Polyketide Synthases. Chemistry and Biology, 2004, 11, 1179-1194.	6.2	237
116	An enzyme-coupled colorimetric assay for S-adenosylmethionine-dependent methyltransferases. Analytical Biochemistry, 2004, 326, 100-105.	1.1	116
117	A single-vial analytical and quantitative gas chromatographyâ€“mass spectrometry assay for terpene synthases. Analytical Biochemistry, 2004, 335, 210-217.	1.1	60
118	Expression and characterization of the type III polyketide synthase 1,3,6,8-tetrahydroxynaphthalene synthase from Streptomyces coelicolor A3(2). Journal of Industrial Microbiology and Biotechnology, 2003, 30, 510-515.	1.4	56
119	An Arabidopsis thaliana gene for methylsalicylate biosynthesis, identified by a biochemical genomics approach, has a role in defense. Plant Journal, 2003, 36, 577-588.	2.8	278
120	The chalcone synthase superfamily of type III polyketide synthases. Natural Product Reports, 2003, 20, 79-110.	5.2	882
121	Conformational Flexibility Underlies Ubiquitin Ligation Mediated by the WWP1 HECT Domain E3 Ligase. Molecular Cell, 2003, 11, 249-259.	4.5	249
122	A Chemical, Genetic, and Structural Analysis of the Nuclear Bile Acid Receptor FXR. Molecular Cell, 2003, 11, 1079-1092.	4.5	359
123	Structural Basis for Substrate Recognition in the Salicylic Acid Carboxyl Methyltransferase Family. Plant Cell, 2003, 15, 1704-1716.	3.1	214
124	Chapter two Structural, functional, and evolutionary basis for methylation of plant small molecules. Recent Advances in Phytochemistry, 2003, 37, 37-58.	0.5	68
125	Structural Basis for the Modulation of Lignin Monomer Methylation by Caffeic Acid/5-Hydroxyferulic Acid 3/5-O-Methyltransferase. Plant Cell, 2002, 14, 1265-1277.	3.1	222
126	Reaction Mechanism of Chalcone Isomerase. Journal of Biological Chemistry, 2002, 277, 1361-1369.	1.6	138

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127	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.	3.3	130
128	Structure and Mechanism of 2-C-Methyl-d-erythritol 2,4-Cyclodiphosphate Synthase. Journal of Biological Chemistry, 2002, 277, 8667-8672.	1.6	72
129	Critical Role of WW Domain Phosphorylation in Regulating Phosphoserine Binding Activity and Pin1 Function. Journal of Biological Chemistry, 2002, 277, 2381-2384.	1.6	210
130	Characterization of Phenylpropene O-Methyltransferases from Sweet Basil. Plant Cell, 2002, 14, 505-519.	3.1	224
131	Plant-like Biosynthetic Pathways in Bacteria:Â From Benzoic Acid to Chalcone1. Journal of Natural Products, 2002, 65, 1956-1962.	1.5	111
132	Role of Hydrogen Bonds in the Reaction Mechanism of Chalcone Isomeraseâ€. Biochemistry, 2002, 41, 5168-5176.	1.2	60
133	Divergent perspectives on GM food. Nature Biotechnology, 2002, 20, 1195-1196.	9.4	11
134	Structure-Guided Programming of Polyketide Chain-Length Determination in Chalcone Synthaseâ€. Biochemistry, 2001, 40, 14829-14838.	1.2	91
135	Structures of two natural product methyltransferases reveal the basis for substrate specificity in plant O-methyltransferases. Nature Structural Biology, 2001, 8, 271-279.	9.7	298
136	Structure of 4-diphosphocytidyl-2-C- methylerythritol synthetase involved in mevalonate- independent isoprenoid biosynthesis. Nature Structural Biology, 2001, 8, 641-648.	9.7	93
137	Use of CrKÎ± radiation to enhance the signal from anomalous scatterers including sulfur. Journal of Applied Crystallography, 2000, 33, 876-881.	1.9	15
138	Structural control of polyketide formation in plant-specific polyketide synthases. Chemistry and Biology, 2000, 7, 919-930.	6.2	236
139	Structure of the human anti-apoptotic protein survivin reveals a dimeric arrangement. Nature Structural Biology, 2000, 7, 602-608.	9.7	226
140	Structural basis for phosphoserine-proline recognition by group IV WW domains. Nature Structural Biology, 2000, 7, 639-643.	9.7	644
141	A kaleidoscope of carotenoids. Nature Biotechnology, 2000, 18, 825-826.	9.4	6
142	Structure and mechanism of the evolutionarily unique plant enzyme chalcone isomerase. Nature Structural Biology, 2000, 7, 786-791.	9.7	311
143	Demonstration of Germacrene A as an Intermediate in 5-Epi-aristolochene Synthase Catalysis. Journal of the American Chemical Society, 2000, 122, 1861-1866.	6.6	109
144	Mechanism of Chalcone Synthase. Journal of Biological Chemistry, 2000, 275, 39640-39646.	1.6	123

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145	Dissection of Malonyl-Coenzyme A Decarboxylation from Polyketide Formation in the Reaction Mechanism of a Plant Polyketide Synthaseâ€. Biochemistry, 2000, 39, 890-902.	1.2	294
146	Structure of chalcone synthase and the molecular basis of plant polyketide biosynthesis. Nature Structural Biology, 1999, 6, 775-784.	9.7	584
147	Dimerization inhibits the activity of receptor-like protein-tyrosine phosphatase-Î±. Nature, 1999, 401, 606-610.	13.7	177
148	Dimerization-Induced Inhibition of Receptor Protein Tyrosine Phosphatase Function Through an Inhibitory Wedge. Science, 1998, 279, 88-91.	6.0	240
149	Structural Basis for Cyclic Terpene Biosynthesis by Tobacco 5-Epi-Aristolochene Synthase. Science, 1997, 277, 1815-1820.	6.0	690
150	Structural and Functional Analysis of the Mitotic Rotamase Pin1 Suggests Substrate Recognition Is Phosphorylation Dependent. Cell, 1997, 89, 875-886.	13.5	663
151	Turning off the Ras switch with the flick of a finger. Nature Structural Biology, 1997, 4, 677-680.	9.7	16
152	Structural basis for inhibition of receptor protein-tyrosine phosphatase-Î± by dimerization. Nature, 1996, 382, 555-559.	13.7	317
153	Structural determinants for activation of the Î±-subunit of a heterotrimeric G protein. Nature, 1994, 369, 621-628.	13.7	703
154	GTPase mechanism of Gproteins from the 1.7-Ã… crystal structure of transducin Î± - GDP AlFâˆ’4. Nature, 1994, 372, 276-279.	13.7	594
155	The 2.2 Ã… crystal structure of transducin-Î± complexed with GTPÎ³S. Nature, 1993, 366, 654-663.	13.7	901
156	Phospholipase A2 engineering. 3. Replacement of lysine-56 by neutral residues improves catalytic efficiency significantly, alters substrate specificity, and clarifies the mechanism of interfacial recognition. Journal of the American Chemical Society, 1990, 112, 3704-3706.	6.6	27
157	Phospholipase A2 engineering. 4. Can the active-site aspartate-99 function alone?. Journal of the American Chemical Society, 1990, 112, 7074-7076.	6.6	25
158	A novel expression vector for high-level synthesis and secretion of foreign proteins in Escherichia coli: overproduction of bovine pancreatic phospholipase A2. Gene, 1990, 93, 229-234.	1.0	59
159	Phospholipase A2 engineering: Design, synthesis, and expression of a gene for bovine (pro)phospholipase A2. Journal of Cellular Biochemistry, 1989, 40, 309-320.	1.2	21
160	Phospholipids Chiral at Phosphorus. 13. Stereochemical Comparison of Phospholipase A₂, Lecithin-Cholesterol Acyl Transferase, and Platelet-Activating Factor. Phosphorous and Sulfur and the Related Elements, 1987, 30, 601-604.	0.2	6