

Kevin D Walker

List of Publications by Year in descending order

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53
papers

2,232
citations

257429

24
h-index

214788

47
g-index

54
all docs

54
docs citations

54
times ranked

1414
citing authors

#	ARTICLE	IF	CITATIONS
1	Taxol biosynthetic genes. <i>Phytochemistry</i> , 2001, 58, 1-7.	2.9	189
2	Random sequencing of an induced <i>Taxus</i> cell cDNA library for identification of clones involved in Taxol biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9149-9154.	7.1	158
3	Molecular cloning of a 10-deacetyl baccatin III-10-O-acetyl transferase cDNA from <i>Taxus</i> and functional expression in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 583-587.	7.1	155
4	Taxol biosynthesis: Molecular cloning of a benzoyl-CoA:taxane 2 α -O-benzoyltransferase cDNA from <i>Taxus</i> and functional expression in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 13591-13596.	7.1	147
5	Molecular Cloning of a Taxa-4(20),11(12)-dien-5 β -ol-O-Acetyl Transferase cDNA from <i>Taxus</i> and Functional Expression in <i>Escherichia coli</i> . <i>Archives of Biochemistry and Biophysics</i> , 2000, 374, 371-380.	3.0	130
6	Genome sequencing and analysis of the paclitaxel-producing endophytic fungus <i>Penicillium aurantiogriseum</i> NRRL 62431. <i>BMC Genomics</i> , 2014, 15, 69.	2.8	125
7	The final acylation step in Taxol biosynthesis: Cloning of the taxoid C13-side-chain N-benzoyltransferase from <i>Taxus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9166-9171.	7.1	122
8	Cloning, Heterologous Expression, and Characterization of a Phenylalanine Aminomutase Involved in Taxol Biosynthesis. <i>Journal of Biological Chemistry</i> , 2004, 279, 53947-53954.	3.4	120
9	Molecular cloning and heterologous expression of the C-13 phenylpropanoid side chain-CoA acyltransferase that functions in Taxol biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 12715-12720.	7.1	102
10	Partial Purification and Characterization of Acetyl Coenzyme A: Taxa-4(20),11(12)-dien-5 β -ol-O-Acetyl Transferase That Catalyzes the First Acylation Step of Taxol Biosynthesis. <i>Archives of Biochemistry and Biophysics</i> , 1999, 364, 273-279.	3.0	64
11	Genetic transformation of mature <i>Taxus</i> : an approach to genetically control the in vitro production of the anticancer drug, taxol. <i>Plant Science</i> , 1994, 95, 187-196.	3.6	58
12	Mechanistic, Mutational, and Structural Evaluation of a <i>Taxus</i> Phenylalanine Aminomutase. <i>Biochemistry</i> , 2011, 50, 2919-2930.	2.5	55
13	Stereochemistry and Mechanism of a Microbial Phenylalanine Aminomutase. <i>Journal of the American Chemical Society</i> , 2011, 133, 8531-8533.	13.7	53
14	Taxol Biosynthesis. <i>Chemistry and Biology</i> , 2004, 11, 663-672.	6.0	52
15	Unusual Mechanism for an Aminomutase Rearrangement: Retention of Configuration at the Migration Termini. <i>Biochemistry</i> , 2007, 46, 9785-9794.	2.5	49
16	Detection of a Phenylalanine Aminomutase in Cell-Free Extracts of <i>Taxus brevifolia</i> and Preliminary Characterization of Its Reaction. <i>Journal of the American Chemical Society</i> , 1998, 120, 5333-5334.	13.7	46
17	Selective determination of histamine by flow injection analysis. <i>Analytical Chemistry</i> , 1990, 62, 1971-1976.	6.5	44
18	β -Styryl- and β -Aryl- β -alanine Products of Phenylalanine Aminomutase Catalysis. <i>Journal of the American Chemical Society</i> , 2007, 129, 6988-6989.	13.7	40

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19	Insights into the Mechanistic Pathway of the <i>Pantoea agglomerans</i> Phenylalanine Aminomutase. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2898-2902.	13.8	37
20	Regioselectivity of taxoid-O-acetyltransferases: heterologous expression and characterization of a new taxadien-5 β -ol-O-acetyltransferase. <i>Archives of Biochemistry and Biophysics</i> , 2004, 430, 237-246.	3.0	36
21	Biosynthetic Studies of β -Cycloheptyl Fatty Acids in <i>Alicyclobacillus cycloheptanicus</i> . Formation of Cycloheptanecarboxylic Acid from Phenylacetic Acid. <i>Journal of Organic Chemistry</i> , 1997, 62, 2173-2185.	3.2	34
22	Identification and characterization of the missing phosphatase on the riboflavin biosynthesis pathway in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2016, 88, 705-716.	5.7	32
23	The Biosynthesis of Tropic Acid: A Reevaluation of the Stereochemical Course of the Conversion of Phenyllactate to Tropate in <i>Datura stramonium</i> . <i>Journal of the American Chemical Society</i> , 1996, 118, 925-926.	13.7	26
24	Enhanced Conversion of Racemic \pm -Arylalanines to (R)- β -Arylalanines by Coupled Racemase/Aminomutase Catalysis. <i>Journal of Organic Chemistry</i> , 2009, 74, 6953-6959.	3.2	26
25	The Taxol Pathway 10-O-Acetyltransferase Shows Regioselective Promiscuity with the Oxetane Hydroxyl of 4-Deacetyltaxanes. <i>Journal of the American Chemical Society</i> , 2008, 130, 17187-17194.	13.7	25
26	Kinetically and Crystallographically Guided Mutations of a Benzoate CoA Ligase (BadA) Elucidate Mechanism and Expand Substrate Permissivity. <i>Biochemistry</i> , 2015, 54, 6230-6242.	2.5	25
27	Profiling a Taxol Pathway 10 β -Acetyltransferase: Assessment of the Specificity and the Production of Baccatin III by In Vivo Acetylation in <i>E. coli</i> . <i>Chemistry and Biology</i> , 2006, 13, 309-317.	6.0	24
28	An <i>N</i> -Aroyltransferase of the BAHD Superfamily Has Broad Aroyl CoA Specificity <i>in Vitro</i> with Analogues of <i>N</i> -Deacetylpaclitaxel. <i>Journal of the American Chemical Society</i> , 2009, 131, 5994-6002.	13.7	24
29	Layer-by-Layer Deposition with Polymers Containing Nitrilotriacetate, A Convenient Route to Fabricate Metal- and Protein-Binding Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10164-10173.	8.0	20
30	Chemical and Microbiological Analysis of Vacuum-packed, Pasteurized Flaked Imitation Crabmeat. <i>Journal of Food Science</i> , 1991, 56, 164-167.	3.1	17
31	A Bacterial Tyrosine Aminomutase Proceeds through Retention or Inversion of Stereochemistry To Catalyze Its Isomerization Reaction. <i>Journal of the American Chemical Society</i> , 2013, 135, 11193-11204.	13.7	17
32	A Tyrosine Aminomutase from Rice (<i>Oryza sativa</i>) Isomerizes <i>S</i> - β - to <i>R</i> - β -Tyrosine with Unique High Enantioselectivity and Retention of Configuration. <i>Biochemistry</i> , 2016, 55, 1-4.	2.5	17
33	Taxol Biosynthesis: Tyrocidine Synthetase A Catalyzes the Production of Phenylisoserinyl CoA and Other Amino Phenylpropanoyl Thioesters. <i>Chemistry and Biology</i> , 2012, 19, 679-685.	6.0	14
34	Whole-cell biocatalytic production of variously substituted β -aryl- and β -heteroaryl- β -amino acids. <i>Journal of Biotechnology</i> , 2016, 217, 12-21.	3.8	14
35	Biocatalysis of a Paclitaxel Analogue: Conversion of Baccatin III to <i>N</i> -Debenzoyl- <i>N</i> -(2-furoyl)paclitaxel and Characterization of an Amino Phenylpropanoyl CoA Transferase. <i>Biochemistry</i> , 2017, 56, 5920-5930.	2.5	14
36	Biosynthetic studies on taxol. <i>Pure and Applied Chemistry</i> , 1994, 66, 2045-2048.	1.9	12

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37	(<i>S</i>)-Styryl- α -alanine Used To Probe the Intermolecular Mechanism of an Intramolecular MIO-Aminomutase. <i>Biochemistry</i> , 2011, 50, 10082-10090.	2.5	12
38	Expression of an acetyl-CoA synthase and a CoA-transferase in <i>Escherichia coli</i> to produce modified taxanes <i>in vivo</i> . <i>Biotechnology Journal</i> , 2007, 2, 266-274.	3.5	11
39	Ring-Substituted α -Arylalanines for Probing Substituent Effects on the Isomerization Reaction Catalyzed by an Aminomutase. <i>ACS Catalysis</i> , 2014, 4, 3077-3090.	11.2	10
40	Exploring the Scope of an α -Aminomutase for the Amination of Cinnamate Epoxides to Arylserines and Arylisoserines. <i>ACS Catalysis</i> , 2019, 9, 7418-7430.	11.2	10
41	Determination of tri- <i>n</i> -butyltin in oysters by reaction-gas chromatography of hydride derivatives. <i>Talanta</i> , 1990, 37, 975-979.	5.5	9
42	Assessing the Deamination Rate of a Covalent Aminomutase Adduct by Burst Phase Analysis. <i>Biochemistry</i> , 2012, 51, 5226-5228.	2.5	9
43	Paclitaxel Biosynthesis: Adenylation and Thiolation Domains of an NRPS TycA PheAT Module Produce Various Arylisoserine CoA Thioesters. <i>Biochemistry</i> , 2017, 56, 1415-1425.	2.5	9
44	Point Mutations (Q19P and N23K) Increase the Operational Solubility of a <i>S</i> -Benzoyltransferase that Conveys Various Acyl Groups from CoA to a Taxane Acceptor. <i>Journal of Natural Products</i> , 2010, 73, 151-159.	3.0	8
45	Understanding Which Residues of the Active Site and Loop Structure of a Tyrosine Aminomutase Define Its Mutase and Lyase Activities. <i>Biochemistry</i> , 2018, 57, 3503-3514.	2.5	8
46	Separation of α - from β -arylalanines by nickel nitrilotriacetate chromatography. <i>Journal of Separation Science</i> , 2010, 33, 1279-1282.	2.5	3
47	Mutation of Aryl Binding Pocket Residues Results in an Unexpected Activity Switch in an <i>Oryza sativa</i> Tyrosine Aminomutase. <i>Biochemistry</i> , 2016, 55, 3497-3503.	2.5	3
48	CoA recycling by a benzoate coenzyme A ligase in cascade reactions with aroyltransferases to biocatalyze paclitaxel analogs. <i>Archives of Biochemistry and Biophysics</i> , 2020, 683, 108276.	3.0	3
49	Taxol Biosynthesis. , 1999, , 31-50.		3
50	Synthesis of 4-Deacetyl-1-dimethylsilyl-7-triethylsilylbaccatin III. <i>Journal of Organic Chemistry</i> , 2009, 74, 2186-2188.	3.2	2
51	Biocatalysis of precursors to new-generation SB-T-taxanes effective against paclitaxel-resistant cancer cells. <i>Archives of Biochemistry and Biophysics</i> , 2022, 719, 109165.	3.0	2
52	Intermolecular Amine Transfer to Enantioenriched trans-3-Phenylglycidates by an α -Aminomutase to Access Both anti-Phenylserine Isomers. <i>ACS Catalysis</i> , 2020, 10, 15071-15082.	11.2	1
53	Semibiocatalytic Approach toward Regioisomerically Enriched Ethyl Dimethylpyrazines Important in Flavor Industries. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 15314-15324.	5.2	0