

Kevin D Walker

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

2,232
citations

257450

24
h-index

214800

47
g-index

54
all docs

54
docs citations

54
times ranked

1414
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Biocatalysis of precursors to new-generation SB-T-taxanes effective against paclitaxel-resistant cancer cells. Archives of Biochemistry and Biophysics, 2022, 719, 109165. | 3.0 | 2 |
| 2 | Semibiocatalytic Approach toward Regioisomerically Enriched Ethyl Dimethylpyrazines Important in Flavor Industries. Journal of Agricultural and Food Chemistry, 2021, 69, 15314-15324. | 5.2 | 0 |
| 3 | Intermolecular Amine Transfer to Enantioenriched trans-3-Phenylglycidates by an $\hat{1}\pm/\hat{1}^2$ -Aminomutase to Access Both anti-Phenylserine Isomers. ACS Catalysis, 2020, 10, 15071-15082. | 11.2 | 1 |
| 4 | CoA recycling by a benzoate coenzyme A ligase in cascade reactions with aroyltransferases to biocatalyze paclitaxel analogs. Archives of Biochemistry and Biophysics, 2020, 683, 108276. | 3.0 | 3 |
| 5 | Exploring the Scope of an $\hat{1}\pm/\hat{1}^2$ -Aminomutase for the Amination of Cinnamate Epoxides to Arylserines and Arylisoserines. ACS Catalysis, 2019, 9, 7418-7430. | 11.2 | 10 |
| 6 | Understanding Which Residues of the Active Site and Loop Structure of a Tyrosine Aminomutase Define Its Mutase and Lyase Activities. Biochemistry, 2018, 57, 3503-3514. | 2.5 | 8 |
| 7 | Paclitaxel Biosynthesis: Adenylation and Thiolation Domains of an NRPS TycA PheAT Module Produce Various Arylisoserine CoA Thioesters. Biochemistry, 2017, 56, 1415-1425. | 2.5 | 9 |
| 8 | 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. Biochemistry, 2017, 56, 5920-5930. | 2.5 | 14 |
| 9 | Layer-by-Layer Deposition with Polymers Containing Nitrotriacetate, A Convenient Route to Fabricate Metal- and Protein-Binding Films. ACS Applied Materials & Interfaces, 2016, 8, 10164-10173. | 8.0 | 20 |
| 10 | Identification and characterization of the missing phosphatase on the riboflavin biosynthesis pathway in <i>Arabidopsis thaliana</i> . Plant Journal, 2016, 88, 705-716. | 5.7 | 32 |
| 11 | Mutation of Aryl Binding Pocket Residues Results in an Unexpected Activity Switch in an <i>Oryza sativa</i> Tyrosine Aminomutase. Biochemistry, 2016, 55, 3497-3503. | 2.5 | 3 |
| 12 | A Tyrosine Aminomutase from Rice (<i>Oryza sativa</i>) Isomerizes <i>S</i> - $\hat{1}\pm$ to <i>R</i> - $\hat{1}^2$ -Tyrosine with Unique High Enantioselectivity and Retention of Configuration. Biochemistry, 2016, 55, 1-4. | 2.5 | 17 |
| 13 | Whole-cell biocatalytic production of variously substituted $\hat{1}^2$ -aryl- and $\hat{1}^2$ -heteroaryl- $\hat{1}^2$ -amino acids. Journal of Biotechnology, 2016, 217, 12-21. | 3.8 | 14 |
| 14 | Kinetically and Crystallographically Guided Mutations of a Benzoate CoA Ligase (BadA) Elucidate Mechanism and Expand Substrate Permissivity. Biochemistry, 2015, 54, 6230-6242. | 2.5 | 25 |
| 15 | Genome sequencing and analysis of the paclitaxel-producing endophytic fungus <i>Penicillium aurantiogriseum</i> NRRL 62431. BMC Genomics, 2014, 15, 69. | 2.8 | 125 |
| 16 | Ring-Substituted $\hat{1}\pm$ -Arylalanines for Probing Substituent Effects on the Isomerization Reaction Catalyzed by an Aminomutase. ACS Catalysis, 2014, 4, 3077-3090. | 11.2 | 10 |
| 17 | A Bacterial Tyrosine Aminomutase Proceeds through Retention or Inversion of Stereochemistry To Catalyze Its Isomerization Reaction. Journal of the American Chemical Society, 2013, 135, 11193-11204. | 13.7 | 17 |
| 18 | Assessing the Deamination Rate of a Covalent Aminomutase Adduct by Burst Phase Analysis. Biochemistry, 2012, 51, 5226-5228. | 2.5 | 9 |

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|----|--|------|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | (<i>S</i>)-Styryl- β -alanine Used To Probe the Intermolecular Mechanism of an Intramolecular MIO-Aminomutase. <i>Biochemistry</i> , 2011, 50, 10082-10090. | 2.5 | 12 |
| 22 | Mechanistic, Mutational, and Structural Evaluation of a <i>Taxus</i> Phenylalanine Aminomutase. <i>Biochemistry</i> , 2011, 50, 2919-2930. | 2.5 | 55 |
| 23 | Stereochemistry and Mechanism of a Microbial Phenylalanine Aminomutase. <i>Journal of the American Chemical Society</i> , 2011, 133, 8531-8533. | 13.7 | 53 |
| 24 | Separation of β - and α -arylanines by nickel nitrilotriacetate chromatography. <i>Journal of Separation Science</i> , 2010, 33, 1279-1282. | 2.5 | 3 |
| 25 | Point Mutations (Q19P and N23K) Increase the Operational Solubility of a β -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 |
| 26 | Synthesis of 4-Deacetyl-1-dimethylsilyl-7-triethylsilylbaccatin III. <i>Journal of Organic Chemistry</i> , 2009, 74, 2186-2188. | 3.2 | 2 |
| 27 | 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 |
| 28 | Enhanced Conversion of Racemic β -Arylanines to (R)- β -Arylanines by Coupled Racemase/Aminomutase Catalysis. <i>Journal of Organic Chemistry</i> , 2009, 74, 6953-6959. | 3.2 | 26 |
| 29 | The Taxol Pathway β -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 |
| 30 | Unusual Mechanism for an Aminomutase Rearrangement: Retention of Configuration at the Migration Termini. <i>Biochemistry</i> , 2007, 46, 9785-9794. | 2.5 | 49 |
| 31 | 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 |
| 32 | 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 |
| 33 | Profiling a Taxol Pathway β -Acetyltransferase: Assessment of the Specificity and the Production of Baccatin III by <i>In Vivo</i> Acetylation in <i>E. coli</i> . <i>Chemistry and Biology</i> , 2006, 13, 309-317. | 6.0 | 24 |
| 34 | 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 |
| 35 | Taxol Biosynthesis. <i>Chemistry and Biology</i> , 2004, 11, 663-672. | 6.0 | 52 |
| 36 | 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 |

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|----|---|------|-----------|
| 37 | Regioselectivity of taxoid-O-acetyltransferases: heterologous expression and characterization of a new taxadien-5 β -ol-O-acetyltransferase. Archives of Biochemistry and Biophysics, 2004, 430, 237-246. | 3.0 | 36 |
| 38 | The final acylation step in Taxol biosynthesis: Cloning of the taxoid C13-side-chain N-benzoyltransferase from Taxus. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9166-9171. | 7.1 | 122 |
| 39 | Molecular cloning and heterologous expression of the C-13 phenylpropanoid side chain-CoA acyltransferase that functions in Taxol biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12715-12720. | 7.1 | 102 |
| 40 | Taxol biosynthetic genes. Phytochemistry, 2001, 58, 1-7. | 2.9 | 189 |
| 41 | Molecular cloning of a 10-deacetylbaccatin III-10-O-acetyl transferase cDNA from Taxus and functional expression in Escherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 583-587. | 7.1 | 155 |
| 42 | Molecular Cloning of a Taxa-4(20),11(12)-dien-5 β -ol-O-Acetyl Transferase cDNA from Taxus and Functional Expression in Escherichia coli. Archives of Biochemistry and Biophysics, 2000, 374, 371-380. | 3.0 | 130 |
| 43 | Taxol biosynthesis: Molecular cloning of a benzoyl-CoA:taxane 2 α -O-benzoyltransferase cDNA from Taxus and functional expression in Escherichia coli. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 13591-13596. | 7.1 | 147 |
| 44 | 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. Archives of Biochemistry and Biophysics, 1999, 364, 273-279. | 3.0 | 64 |
| 45 | Taxol Biosynthesis. , 1999, , 31-50. | | 3 |
| 46 | Detection of a Phenylalanine Aminomutase in Cell-Free Extracts of Taxus brevifolia and Preliminary Characterization of Its Reaction. Journal of the American Chemical Society, 1998, 120, 5333-5334. | 13.7 | 46 |
| 47 | Biosynthetic Studies of β -Cycloheptyl Fatty Acids in Alicyclobacillus cycloheptanicus. Formation of Cycloheptanecarboxylic Acid from Phenylacetic Acid. Journal of Organic Chemistry, 1997, 62, 2173-2185. | 3.2 | 34 |
| 48 | The Biosynthesis of Tropic Acid: A Reevaluation of the Stereochemical Course of the Conversion of Phenyllactate to Tropate in Datura stramonium. Journal of the American Chemical Society, 1996, 118, 925-926. | 13.7 | 26 |
| 49 | Genetic transformation of mature Taxus: an approach to genetically control the in vitro production of the anticancer drug, taxol. Plant Science, 1994, 95, 187-196. | 3.6 | 58 |
| 50 | Biosynthetic studies on taxol. Pure and Applied Chemistry, 1994, 66, 2045-2048. | 1.9 | 12 |
| 51 | Chemical and Microbiological Analysis of Vacuum-packed, Pasteurized Flaked Imitation Crabmeat. Journal of Food Science, 1991, 56, 164-167. | 3.1 | 17 |
| 52 | Selective determination of histamine by flow injection analysis. Analytical Chemistry, 1990, 62, 1971-1976. | 6.5 | 44 |
| 53 | Determination of tri-n-butyltin in oysters by reaction β gas chromatography of hydride derivatives. Talanta, 1990, 37, 975-979. | 5.5 | 9 |