James L Galman

List of Publications by Year
in descending order

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Version: 2024-02-01

30 papers	1,369 citations	430754 18 h-index	434063 31 g-index
35 all docs	35 docs citations	35 times ranked	1205 citing authors

#	Article	IF	Citations
1	Discovery, Engineering, and Synthetic Application of Transaminase Biocatalysts. ACS Catalysis, 2017, 7, 8263-8284.	5.5	261
2	A Regioâ€•and Stereoselective Ï‰â€Transaminase/Monoamine Oxidase Cascade for the Synthesis of Chiral 2,5â€Disubstituted Pyrrolidines. Angewandte Chemie - International Edition, 2014, 53, 2447-2450.	7.2	158
3	A Multidisciplinary Approach Toward the Rapid and Preparative-Scale Biocatalytic Synthesis of Chiral Amino Alcohols: A Concise Transketolase-/Ï‰-Transaminase-Mediated Synthesis of (2S,3S)-2-Aminopentane-1,3-diol. Organic Process Research and Development, 2010, 14, 99-107.	1.3	80
4	Monoamine Oxidase: Tunable Activity for Amine Resolution and Functionalization. ACS Catalysis, 2018, 8, 11889-11907.	5.5	75
5	Biocatalytic transamination with near-stoichiometric inexpensive amine donors mediated by bifunctional mono- and di-amine transaminases. Green Chemistry, 2017, 19, 361-366.	4.6	69
6	Non-Î±-hydroxylated aldehydes with evolved transketolase enzymes. Organic and Biomolecular Chemistry, 2010, 8, 1301.	1.5	68
7	Singleâ€Biocatalyst Synthesis of Enantiopure <scp>d</scp>â€Arylalanines Exploiting an Engineered <scp>d</scp>â€Amino Acid Dehydrogenase. Advanced Synthesis and Catalysis, 2016, 358, 3298-3306.	2.1	51
8	Characterization of imine reductases in reductive amination for the exploration of structure-activity relationships. Science Advances, 2020, 6, eaay9320.	4.7	48
9	Stereoselectivity of an Ï‰-transaminase-mediated amination of 1,3-dihydroxy-1-phenylpropane-2-one. Tetrahedron: Asymmetry, 2009, 20, 570-574.	1.8	45
10	Î±,Î±â€²-Dihydroxyketone formation using aromatic and heteroaromatic aldehydes with evolved transketolase enzymes. Chemical Communications, 2010, 46, 7608.	2.2	45
11	Coupling Droplet Microfluidics with Mass Spectrometry for Ultrahigh-Throughput Analysis of Complex Mixtures up to and above 30 Hz. Analytical Chemistry, 2020, 92, 12605-12612.	3.2	45
12	One-Pot Biocatalytic Synthesis of Substituted <scp>d</scp>-Tryptophans from Indoles Enabled by an Engineered Aminotransferase. ACS Catalysis, 2019, 9, 3482-3486.	5.5	43
13	Consolidated production of coniferol and other high-value aromatic alcohols directly from lignocellulosic biomass. Green Chemistry, 2020, 22, 144-152.	4.6	38
14	A biocatalytic cascade for the conversion of fatty acids to fatty amines. Green Chemistry, 2019, 21, 4932-4935.	4.6	36
15	Putrescine Transaminases for the Synthesis of Saturated Nitrogen Heterocycles from Polyamines. ChemCatChem, 2016, 8, 1038-1042.	1.8	35
16	Synthesis of 2,5â€Disubstituted Pyrrolidine Alkaloids via A Oneâ€Pot Cascade Using Transaminase and Reductive Aminase Biocatalysts. ChemCatChem, 2018, 10, 4733-4738.	1.8	31
17	Zymophore identification enables the discovery of novel phenylalanine ammonia lyase enzymes. Scientific Reports, 2017, 7, 13691.	1.6	30
18	Biocatalytic retrosynthesis approaches to<scp>d</scp>-(2,4,5-trifluorophenyl)alanine, key precursor of the antidiabetic sitagliptin. Green Chemistry, 2019, 21, 4368-4379.	4.6	20

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19	Application of a modified Mosherâ€™s method for the determination of enantiomeric ratio and absolute configuration at C-3 of chiral 1,3-dihydroxy ketones. Tetrahedron: Asymmetry, 2009, 20, 1828-1831.	1.8	17
20	Cloning, expression and characterisation of P450-Hal1 (CYP116B62) from Halomonas sp. NCIMB 172: A self-sufficient P450 with high expression and diverse substrate scope. Enzyme and Microbial Technology, 2018, 113, 1-8.	1.6	15
21	Biomimetic synthesis of 2-substituted N-heterocycle alkaloids by one-pot hydrolysis, transamination and decarboxylative Mannich reaction. Chemical Communications, 2018, 54, 11316-11319.	2.2	15
22	n-Butylamine as an alternative amine donor for the stereoselective biocatalytic transamination of ketones. Catalysis Today, 2018, 306, 96-101.	2.2	14
23	Rapid Screening of Diverse Biotransformations for Enzyme Evolution. Jacs Au, 2021, 1, 508-516.	3.6	13
24	Efficient synthesis of Î±-alkyl-Î²-amino amides by transaminase-mediated dynamic kinetic resolutions. Catalysis Science and Technology, 2019, 9, 4083-4090.	2.1	12
25	Oneâ€Pot Biocatalytic In Vivo Methylationâ€Hydroamination of Bioderived Lignin Monomers to Generate a Key Precursor to Lâ€DOPA. Angewandte Chemie - International Edition, 2022, 61, .	7.2	12
26	A stereospecific solid-phase screening assay for colonies expressing both (R)- and (S) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Engineering Sciences, 2016, 374, 20150084.	1.6	11
27	Characterization of a Putrescine Transaminase From Pseudomonas putida and its Application to the Synthesis of Benzylamine Derivatives. Frontiers in Bioengineering and Biotechnology, 2018, 6, 205.	2.0	11
28	An automated microscale platform for evaluation and optimization of oxidative bioconversion processes. Biotechnology Progress, 2012, 28, 392-405.	1.3	9
29	Investigating the reaction mechanism and organocatalytic synthesis of Î±,Î±â€²-dihydroxy ketones. Organic and Biomolecular Chemistry, 2012, 10, 2621.	1.5	7
30	Oneâ€Pot Biocatalytic In Vivo Methylationâ€Hydroamination of Bioderived Lignin Monomers to Generate a Key Precursor to Lâ€DOPA. Angewandte Chemie, 2022, 134, .	1.6	2