

# James L Galman

## List of Publications by Year in descending order

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30  
papers

1,369  
citations

430754

18  
h-index

434063

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35  
docs citations

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times ranked

1205  
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Pot Biocatalytic In Vivo Methylation-Hydroamination of Bioderived Lignin Monomers to Generate a Key Precursor to L-DOPA. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
2	One-Pot Biocatalytic In Vivo Methylation-Hydroamination of Bioderived Lignin Monomers to Generate a Key Precursor to L-DOPA. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	12
3	Rapid Screening of Diverse Biotransformations for Enzyme Evolution. <i>Jacs Au</i> , 2021, 1, 508-516.	3.6	13
4	Consolidated production of coniferol and other high-value aromatic alcohols directly from lignocellulosic biomass. <i>Green Chemistry</i> , 2020, 22, 144-152.	4.6	38
5	Coupling Droplet Microfluidics with Mass Spectrometry for Ultrahigh-Throughput Analysis of Complex Mixtures up to and above 30 Hz. <i>Analytical Chemistry</i> , 2020, 92, 12605-12612.	3.2	45
6	Characterization of imine reductases in reductive amination for the exploration of structure-activity relationships. <i>Science Advances</i> , 2020, 6, eaay9320.	4.7	48
7	Biocatalytic retrosynthesis approaches to <i>d</i> -(2,4,5-trifluorophenyl)alanine, key precursor of the antidiabetic sitagliptin. <i>Green Chemistry</i> , 2019, 21, 4368-4379.	4.6	20
8	Efficient synthesis of $\beta$ -alkyl- $\alpha$ -amino amides by transaminase-mediated dynamic kinetic resolutions. <i>Catalysis Science and Technology</i> , 2019, 9, 4083-4090.	2.1	12
9	A biocatalytic cascade for the conversion of fatty acids to fatty amines. <i>Green Chemistry</i> , 2019, 21, 4932-4935.	4.6	36
10	One-Pot Biocatalytic Synthesis of Substituted <i>d</i> -Tryptophans from Indoles Enabled by an Engineered Aminotransferase. <i>ACS Catalysis</i> , 2019, 9, 3482-3486.	5.5	43
11	Cloning, expression and characterisation of P450-Hal1 (CYP116B62) from <i>Halomonas</i> sp. NCIMB 172: A self-sufficient P450 with high expression and diverse substrate scope. <i>Enzyme and Microbial Technology</i> , 2018, 113, 1-8.	1.6	15
12	<i>n</i> -Butylamine as an alternative amine donor for the stereoselective biocatalytic transamination of ketones. <i>Catalysis Today</i> , 2018, 306, 96-101.	2.2	14
13	Monoamine Oxidase: Tunable Activity for Amine Resolution and Functionalization. <i>ACS Catalysis</i> , 2018, 8, 11889-11907.	5.5	75
14	Characterization of a Putrescine Transaminase From <i>Pseudomonas putida</i> and its Application to the Synthesis of Benzylamine Derivatives. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 205.	2.0	11
15	Biomimetic synthesis of 2-substituted <i>N</i> -heterocycle alkaloids by one-pot hydrolysis, transamination and decarboxylative Mannich reaction. <i>Chemical Communications</i> , 2018, 54, 11316-11319.	2.2	15
16	Synthesis of 2,5-disubstituted Pyrrolidine Alkaloids <i>via</i> A One-Pot Cascade Using Transaminase and Reductive Aminase Biocatalysts. <i>ChemCatChem</i> , 2018, 10, 4733-4738.	1.8	31
17	Discovery, Engineering, and Synthetic Application of Transaminase Biocatalysts. <i>ACS Catalysis</i> , 2017, 7, 8263-8284.	5.5	261
18	Zymophore identification enables the discovery of novel phenylalanine ammonia lyase enzymes. <i>Scientific Reports</i> , 2017, 7, 13691.	1.6	30

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19	Biocatalytic transamination with near-stoichiometric inexpensive amine donors mediated by bifunctional mono- and di-amine transaminases. <i>Green Chemistry</i> , 2017, 19, 361-366.	4.6	69
20	Putrescine Transaminases for the Synthesis of Saturated Nitrogen Heterocycles from Polyamines. <i>ChemCatChem</i> , 2016, 8, 1038-1042.	1.8	35
21	A stereospecific solid-phase screening assay for colonies expressing both ( <i>R</i> )- and ( <i>S</i> )-Tj ETQq1 1 0.784314 rgBT /Over Engineering Sciences, 2016, 374, 20150084.	1.6	11
22	Single-Step Biocatalyst Synthesis of Enantiopure $\alpha$ -Arylalanines Exploiting an Engineered $\alpha$ -Amino Acid Dehydrogenase. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 3298-3306.	2.1	51
23	A Regio- and Stereoselective $\gamma$ -Transaminase/Monoamine Oxidase Cascade for the Synthesis of Chiral 2,5-Disubstituted Pyrrolidines. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2447-2450.	7.2	158
24	Investigating the reaction mechanism and organocatalytic synthesis of $\beta,\beta$ -dihydroxy ketones. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 2621.	1.5	7
25	An automated microscale platform for evaluation and optimization of oxidative bioconversion processes. <i>Biotechnology Progress</i> , 2012, 28, 392-405.	1.3	9
26	A Multidisciplinary Approach Toward the Rapid and Preparative-Scale Biocatalytic Synthesis of Chiral Amino Alcohols: A Concise Transketolase- $\gamma$ -Transaminase-Mediated Synthesis of (2 <i>S</i> ,3 <i>S</i> )-2-Aminopentane-1,3-diol. <i>Organic Process Research and Development</i> , 2010, 14, 99-107.	1.3	80
27	$\beta,\beta$ -Dihydroxyketone formation using aromatic and heteroaromatic aldehydes with evolved transketolase enzymes. <i>Chemical Communications</i> , 2010, 46, 7608.	2.2	45
28	Non- $\beta$ -hydroxylated aldehydes with evolved transketolase enzymes. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 1301.	1.5	68
29	Stereoselectivity of an $\gamma$ -transaminase-mediated amination of 1,3-dihydroxy-1-phenylpropane-2-one. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 570-574.	1.8	45
30	Application of a modified Mosher's method for the determination of enantiomeric ratio and absolute configuration at C-3 of chiral 1,3-dihydroxy ketones. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 1828-1831.	1.8	17