

Nicholas J Turner

List of Publications by Citations

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383
papers

16,034
citations

67
h-index

107
g-index

498
ext. papers

18,468
ext. citations

8.4
avg, IF

7.28
L-index

#	Paper	IF	Citations
383	Directed evolution drives the next generation of biocatalysts. <i>Nature Chemical Biology</i> , 2009 , 5, 567-73	11.7	614
382	Synthetic cascades are enabled by combining biocatalysts with artificial metalloenzymes. <i>Nature Chemistry</i> , 2013 , 5, 93-9	17.6	271
381	Conversion of alcohols to enantiopure amines through dual-enzyme hydrogen-borrowing cascades. <i>Science</i> , 2015 , 349, 1525-9	33.3	268
380	Carboxylic acid reductase is a versatile enzyme for the conversion of fatty acids into fuels and chemical commodities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 87-92	11.5	259
379	Engineering an enantioselective amine oxidase for the synthesis of pharmaceutical building blocks and alkaloid natural products. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10863-9	16.4	257
378	Biocatalytic retrosynthesis. <i>Nature Chemical Biology</i> , 2013 , 9, 285-8	11.7	250
377	Biocatalytic Approaches to the Synthesis of Enantiomerically Pure Chiral Amines. <i>Topics in Catalysis</i> , 2014 , 57, 284-300	2.3	249
376	Constructing Biocatalytic Cascades: In Vitro and in Vivo Approaches to de Novo Multi-Enzyme Pathways. <i>ACS Catalysis</i> , 2017 , 7, 710-724	13.1	241
375	A reductive aminase from <i>Aspergillus oryzae</i> . <i>Nature Chemistry</i> , 2017 , 9, 961-969	17.6	198
374	Deracemization of alpha-methylbenzylamine using an enzyme obtained by in vitro evolution. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 3177-80	16.4	194
373	Cytochromes P450 as useful biocatalysts: addressing the limitations. <i>Chemical Communications</i> , 2011 , 47, 2490-501	5.8	190
372	A chemo-enzymatic route to enantiomerically pure cyclic tertiary amines. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2224-5	16.4	187
371	Enzyme catalysed deracemisation and dynamic kinetic resolution reactions. <i>Current Opinion in Chemical Biology</i> , 2004 , 8, 114-9	9.7	186
370	Deracemisation methods. <i>Current Opinion in Chemical Biology</i> , 2010 , 14, 115-21	9.7	182
369	Enantioselective oxidation of C-O and C-N bonds using oxidases. <i>Chemical Reviews</i> , 2011 , 111, 4073-87	68.1	180
368	Enantioselective Chemo- and Biocatalysis: Partners in Retrosynthesis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8942-8973	16.4	172
367	Extending the application of biocatalysis to meet the challenges of drug development. <i>Nature Reviews Chemistry</i> , 2018 , 2, 409-421	34.6	168

366	Discovery, Engineering, and Synthetic Application of Transaminase Biocatalysts. <i>ACS Catalysis</i> , 2017 , 7, 8263-8284	13.1	166
365	Rapid and ultra-sensitive determination of enzyme activities using surface-enhanced resonance Raman scattering. <i>Nature Biotechnology</i> , 2004 , 22, 1133-8	44.5	166
364	Imine reductases (IREDs). <i>Current Opinion in Chemical Biology</i> , 2017 , 37, 19-25	9.7	153
363	Directed evolution of an amine oxidase possessing both broad substrate specificity and high enantioselectivity. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 4807-10	16.4	153
362	Directed evolution of enzymes for applied biocatalysis. <i>Trends in Biotechnology</i> , 2003 , 21, 474-8	15.1	142
361	A highly efficient synthesis of telaprevir by strategic use of biocatalysis and multicomponent reactions. <i>Chemical Communications</i> , 2010 , 46, 7918-20	5.8	140
360	Rapid screening and scale-up of transaminase catalysed reactions. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 395-8	3.9	138
359	Biocatalysis Using Immobilized Enzymes in Continuous Flow for the Synthesis of Fine Chemicals. <i>Organic Process Research and Development</i> , 2019 , 23, 9-18	3.9	138
358	Identification of a new class of cytochrome P450 from a <i>Rhodococcus</i> sp. <i>Journal of Bacteriology</i> , 2002 , 184, 3898-908	3.5	133
357	Enantioselective biocatalytic oxidative desymmetrization of substituted pyrrolidines. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2182-4	16.4	132
356	A regio- and stereoselective α -transaminase/monoamine oxidase cascade for the synthesis of chiral 2,5-disubstituted pyrrolidines. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2447-50	16.4	131
355	Efficient Production of Enantiomerically Pure Chiral Amines at Concentrations of 50 g/L Using Transaminases. <i>Organic Process Research and Development</i> , 2010 , 14, 234-237	3.9	130
354	Ammonia lyases and aminomutases as biocatalysts for the synthesis of β -amino and α -amino acids. <i>Current Opinion in Chemical Biology</i> , 2011 , 15, 234-40	9.7	127
353	One-Pot Cascade Synthesis of Mono- and Disubstituted Piperidines and Pyrrolidines using Carboxylic Acid Reductase (CAR), α -Transaminase (α TA), and Imine Reductase (IRED) Biocatalysts. <i>ACS Catalysis</i> , 2016 , 6, 3753-3759	13.1	125
352	Chiral amine synthesis using α -transaminases: an amine donor that displaces equilibria and enables high-throughput screening. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10714-7	16.4	115
351	Directed evolution of galactose oxidase: generation of enantioselective secondary alcohol oxidases. <i>ChemBioChem</i> , 2008 , 9, 857-60	3.8	113
350	Asymmetric Reduction of Cyclic Imines Catalyzed by a Whole-Cell Biocatalyst Containing an (S)-Imine Reductase. <i>ChemCatChem</i> , 2013 , 5, 3505-3508	5.2	110
349	An (R)-Imine Reductase Biocatalyst for the Asymmetric Reduction of Cyclic Imines. <i>ChemCatChem</i> , 2015 , 7, 579-583	5.2	106

348	Directed evolution of an amine oxidase for the preparative deracemisation of cyclic secondary amines. <i>ChemBioChem</i> , 2005 , 6, 637-9	3.8	106
347	Applications of transketolases in organic synthesis. <i>Current Opinion in Biotechnology</i> , 2000 , 11, 527-31	11.4	106
346	Amine Boranes: effective reducing agents for the deracemisation of dl-amino acids using l-amino acid oxidase from <i>Proteus myxofaciens</i> . <i>Tetrahedron Letters</i> , 2002 , 43, 707-710	2	105
345	A versatile chemo-enzymatic route to enantiomerically pure beta-branched alpha-amino acids. <i>Journal of the American Chemical Society</i> , 2004 , 126, 4098-9	16.4	104
344	Efficient kinetic resolution of racemic amines using a transaminase in combination with an amino acid oxidase. <i>Chemical Communications</i> , 2009 , 2127-9	5.8	103
343	Highly stereoselective synthesis of substituted prolyl peptides using a combination of biocatalytic desymmetrization and multicomponent reactions. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5289-92	16.4	102
342	Enzyme cascade reactions: synthesis of furandicarboxylic acid (FDCA) and carboxylic acids using oxidases in tandem. <i>Green Chemistry</i> , 2015 , 17, 3271-3275	10	100
341	Synthetic and Therapeutic Applications of Ammonia-lyases and Aminomutases. <i>Chemical Reviews</i> , 2018 , 118, 73-118	68.1	97
340	An automated Design-Build-Test-Learn pipeline for enhanced microbial production of fine chemicals. <i>Communications Biology</i> , 2018 , 1, 66	6.7	97
339	INSPIRED by Nature: NADPH-Dependent Imine Reductases (IREDs) as Catalysts for the Preparation of Chiral Amines. <i>Chemistry - A European Journal</i> , 2016 , 22, 1900-1907	4.8	97
338	Synthesis of homochiral l-(S)-tert-leucine via a lipase catalysed dynamic resolution process. <i>Tetrahedron Letters</i> , 1995 , 36, 1113-1116	2	96
337	Artificial concurrent catalytic processes involving enzymes. <i>Chemical Communications</i> , 2015 , 51, 450-64	5.8	92
336	Biosynthesis and Characterization of Copper Nanoparticles Using <i>Shewanella oneidensis</i> : Application for Click Chemistry. <i>Small</i> , 2018 , 14, 1703145	11	87
335	Synthesis of D- and L-phenylalanine derivatives by phenylalanine ammonia lyases: a multienzymatic cascade process. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4608-11	16.4	84
334	A self-sufficient cytochrome p450 with a primary structural organization that includes a flavin domain and a [2Fe-2S] redox center. <i>Journal of Biological Chemistry</i> , 2003 , 278, 48914-20	5.4	84
333	Enzyme toolbox: novel enantiocomplementary imine reductases. <i>ChemBioChem</i> , 2014 , 15, 2201-4	3.8	80
332	Structures of carboxylic acid reductase reveal domain dynamics underlying catalysis. <i>Nature Chemical Biology</i> , 2017 , 13, 975-981	11.7	80
331	A template-based mnemonic for monoamine oxidase (MAO-N) catalyzed reactions and its application to the chemo-enzymatic deracemisation of the alkaloid (+/-)-crispine A. <i>Chemical Communications</i> , 2007 , 3640-2	5.8	79

- 330 Selective hydrolysis of nitriles under mild conditions by an enzyme.. *Tetrahedron Letters*, **1990**, 31, 7223-7226 77
- 329 Deracemisation and stereoinversion of alpha-amino acids using D-amino acid oxidase and hydride reducing agents. *Chemical Communications*, **2002**, 246-7 5.8 76
- 328 Asymmetric synthesis of synthetic alkaloids by a tandem biocatalysis/Ugi/Pictet-Spengler-type cyclization sequence. *Chemical Communications*, **2010**, 46, 7706-8 5.8 75
- 327 Engineering a Biometallic Whole Cell Catalyst for Enantioselective Deracemization Reactions. *ACS Catalysis*, **2011**, 1, 1589-1594 13.1 74
- 326 Whole-Cell Biocatalysts for Stereoselective C-H Amination Reactions. *Angewandte Chemie - International Edition*, **2016**, 55, 1511-3 16.4 74
- 325 Transketolase from *Escherichia coli*: A practical procedure for using the biocatalyst for asymmetric carbon-carbon bond synthesis. *Tetrahedron: Asymmetry*, **1996**, 7, 2185-2188 73
- 324 Glycoprotein labeling using engineered variants of galactose oxidase obtained by directed evolution. *Journal of the American Chemical Society*, **2011**, 133, 8436-9 16.4 72
- 323 Microwave-assisted sequential amide bond formation and intramolecular amidation: a rapid entry to functionalized oxindoles. *Organic Letters*, **2005**, 7, 863-6 6.2 72
- 322 NAD(P)H-Dependent Dehydrogenases for the Asymmetric Reductive Amination of Ketones: Structure, Mechanism, Evolution and Application. *Advanced Synthesis and Catalysis*, **2017**, 359, 2011-2025 5.6 70
- 321 The structure of monoamine oxidase from *Aspergillus niger* provides a molecular context for improvements in activity obtained by directed evolution. *Journal of Molecular Biology*, **2008**, 384, 1218-31 6.5 70
- 320 Stereoselectivity and Structural Characterization of an Imine Reductase (IRED) from *Amycolatopsis orientalis*. *ACS Catalysis*, **2016**, 6, 3880-3889 13.1 70
- 319 Structure and activity of NADPH-dependent reductase Q1EQE0 from *Streptomyces kanamyceticus*, which catalyses the R-selective reduction of an imine substrate. *ChemBioChem*, **2013**, 14, 1372-9 3.8 69
- 318 Deracemization of β -Methylbenzylamine Using an Enzyme Obtained by In Vitro Evolution. *Angewandte Chemie*, **2002**, 114, 3309-3312 3.6 68
- 317 Enzyme-catalysed carbon-carbon bond formation: use of transketolase from *Escherichia coli*. *Journal of the Chemical Society Perkin Transactions 1*, **1993**, 165-166 68
- 316 Absolute Quantification of Uric Acid in Human Urine Using Surface Enhanced Raman Scattering with the Standard Addition Method. *Analytical Chemistry*, **2017**, 89, 2472-2477 7.8 67
- 315 Monoamine Oxidase (MAO-N) Catalyzed Deracemization of Tetrahydro- β -carbolines: Substrate Dependent Switch in Enantioselectivity. *ACS Catalysis*, **2013**, 3, 2869-2872 13.1 67
- 314 Direct Alkylation of Amines with Primary and Secondary Alcohols through Biocatalytic Hydrogen Borrowing. *Angewandte Chemie - International Edition*, **2017**, 56, 10491-10494 16.4 67
- 313 Directed evolution of enzymes: new biocatalysts for asymmetric synthesis. *Organic and Biomolecular Chemistry*, **2003**, 1, 4133-7 3.9 67

312	Controlling chirality. <i>Current Opinion in Biotechnology</i> , 2003 , 14, 401-6	11.4	66
311	Deracemization by simultaneous bio-oxidative kinetic resolution and stereoinversion. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3731-4	16.4	63
310	Biocatalytic N-Alkylation of Amines Using Either Primary Alcohols or Carboxylic Acids via Reductive Aminase Cascades. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1201-1206	16.4	63
309	Enantioselektive Chemo- und Biokatalyse: Partner in der Retrosynthese. <i>Angewandte Chemie</i> , 2017 , 129, 9068-9100	3.6	62
308	Identification of Novel Bacterial Members of the Imine Reductase Enzyme Family that Perform Reductive Amination. <i>ChemCatChem</i> , 2018 , 10, 510-514	5.2	62
307	Process Requirements of Galactose Oxidase Catalyzed Oxidation of Alcohols. <i>Organic Process Research and Development</i> , 2015 , 19, 1580-1589	3.9	60
306	The continuous oxidation of HMF to FDCA and the immobilisation and stabilisation of periplasmic aldehyde oxidase (PaoABC). <i>Green Chemistry</i> , 2017 , 19, 4660-4665	10	60
305	Regioselective hydrolysis of aromatic dinitriles using a whole cell catalyst. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1994 , 1679		60
304	Biocatalytic Dynamic Kinetic Resolution for the Synthesis of Atropisomeric Biaryl N-Oxide Lewis Base Catalysts. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10755-9	16.4	60
303	Dynamic kinetic resolution: synthesis of optically active β -amino acid derivatives. <i>Tetrahedron: Asymmetry</i> , 2000 , 11, 1687-1690		59
302	Biocatalysis. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		57
301	Chemoenzymatic Synthesis of Optically Pure- and Biarylalanines through Biocatalytic Asymmetric Amination and Palladium-Catalyzed Arylation. <i>ACS Catalysis</i> , 2015 , 5, 5410-5413	13.1	56
300	Development of an R-Selective Amine Oxidase with Broad Substrate Specificity and High Enantioselectivity. <i>ChemCatChem</i> , 2014 , 6, 996-1002	5.2	56
299	Simple and Versatile Laboratory Scale CSTR for Multiphasic Continuous-Flow Chemistry and Long Residence Times. <i>Organic Process Research and Development</i> , 2017 , 21, 1294-1301	3.9	56
298	A surface plasmon resonance-based assay for small molecule inhibitors of human cyclophilin A. <i>Analytical Biochemistry</i> , 2005 , 345, 214-26	3.1	56
297	Adenylation Activity of Carboxylic Acid Reductases Enables the Synthesis of Amides. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14498-14501	16.4	55
296	Role of laccase as an enzymatic pretreatment method to improve lignocellulosic saccharification. <i>Catalysis Science and Technology</i> , 2014 , 4, 2251-2259	5.5	54
295	Engineered enzymes that retain and regenerate their cofactors enable continuous-flow biocatalysis. <i>Nature Catalysis</i> , 2019 , 2, 1006-1015	36.5	54

294	Directed Evolution of the Enzyme Monoamine Oxidase (MAO-N): Highly Efficient Chemo-enzymatic Deracemisation of the Alkaloid (±)-Crispine A. <i>ChemCatChem</i> , 2012 , 4, 1259-1261	5.2	53
293	Enzyme Cascades in Whole Cells for the Synthesis of Chiral Cyclic Amines. <i>ACS Catalysis</i> , 2017 , 7, 2920-2925	13.1	52
292	Engineering and improvement of the efficiency of a chimeric [P450cam-RhFRed reductase domain] enzyme. <i>Chemical Communications</i> , 2009 , 2478-80	5.8	52
291	Design, synthesis and trypanocidal activity of lead compounds based on inhibitors of parasite glycolysis. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 5050-61	3.4	52
290	The Bacterial Ammonia Lyase EncP: A Tunable Biocatalyst for the Synthesis of Unnatural Amino Acids. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12977-83	16.4	51
289	Two-Enzyme Hydrogen-Borrowing Amination of Alcohols Enabled by a Cofactor-Switched Alcohol Dehydrogenase. <i>ChemCatChem</i> , 2017 , 9, 3833-3836	5.2	51
288	Biocatalytic transamination with near-stoichiometric inexpensive amine donors mediated by bifunctional mono- and di-amine transaminases. <i>Green Chemistry</i> , 2017 , 19, 361-366	10	51
287	Stereoselective hydrolysis of nitriles and amides under mild conditions using a whole cell catalyst. <i>Tetrahedron: Asymmetry</i> , 1993 , 4, 1085-1104		51
286	Combined Imine Reductase and Amine Oxidase Catalyzed Deracemization of Nitrogen Heterocycles. <i>ChemCatChem</i> , 2016 , 8, 117-120	5.2	50
285	A generic platform for the immobilisation of engineered biocatalysts. <i>Tetrahedron</i> , 2019 , 75, 327-334	2.4	50
284	Monoamine Oxidase: Tunable Activity for Amine Resolution and Functionalization. <i>ACS Catalysis</i> , 2018 , 8, 11889-11907	13.1	50
283	Unveiling the Biocatalytic Aromatizing Activity of Monoamine Oxidases MAO-N and 6-HDNO: Development of Chemoenzymatic Cascades for the Synthesis of Pyrroles. <i>ACS Catalysis</i> , 2017 , 7, 1295-1300	13.1	49
282	Biocatalytic Routes to Enantiomerically Enriched Dibenz[c,e]azepines. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15589-15593	16.4	49
281	Catalytic bioRhemo and bioBio tandem oxidation reactions for amide and carboxylic acid synthesis. <i>Green Chemistry</i> , 2014 , 16, 4524-4529	10	48
280	Analysis of the domain properties of the novel cytochrome P450 RhF. <i>FEBS Letters</i> , 2005 , 579, 2215-20	3.8	47
279	The biosynthesis of carbocyclic nucleosides. <i>Chemical Society Reviews</i> , 1995 , 24, 169	58.5	47
278	A Regio- and Stereoselective α -Transaminase/Monoamine Oxidase Cascade for the Synthesis of Chiral 2,5-Disubstituted Pyrrolidines. <i>Angewandte Chemie</i> , 2014 , 126, 2479-2482	3.6	46
277	LICRED: a versatile drop-in vector for rapid generation of redox-self-sufficient cytochrome P450s. <i>ChemBioChem</i> , 2010 , 11, 987-94	3.8	46

276	Biocatalytic desymmetrization of an atropisomer with both an enantioselective oxidase and ketoreductases. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7010-3	16.4	46
275	Highly Productive Oxidative Biocatalysis in Continuous Flow by Enhancing the Aqueous Equilibrium Solubility of Oxygen. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10535-10539	16.4	44
274	Nitrile hydratase enzymes in organic synthesis: Enantioselective synthesis of the lactone moiety of the mevinic acids. <i>Tetrahedron Letters</i> , 1996 , 37, 6001-6004	2	44
273	RetroBioCat as a computer-aided synthesis planning tool for biocatalytic reactions and cascades. <i>Nature Catalysis</i> , 2021 , 4, 98-104	36.5	44
272	Phenylalanine ammonia lyase catalyzed synthesis of amino acids by an MIO-cofactor independent pathway. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4652-6	16.4	43
271	Directed Evolution of an Amine Oxidase Possessing both Broad Substrate Specificity and High Enantioselectivity. <i>Angewandte Chemie</i> , 2003 , 115, 4955-4958	3.6	43
270	An Asymmetric Enzyme-Catalyzed Retro-Claisen Reaction for the Desymmetrization of Cyclic β -Diketones. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1111-1114	16.4	42
269	Systematic methodology for the development of biocatalytic hydrogen-borrowing cascades: application to the synthesis of chiral β -substituted carboxylic acids from β -substituted α,β -unsaturated aldehydes. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 223-33	3.9	41
268	Selenzyme: enzyme selection tool for pathway design. <i>Bioinformatics</i> , 2018 , 34, 2153-2154	7.2	41
267	A Mechanism for Reductive Amination Catalyzed by Fungal Reductive Aminases. <i>ACS Catalysis</i> , 2018 , 8, 11534-11541	13.1	41
266	Biocatalytic retrosynthesis: Redesigning synthetic routes to high-value chemicals. <i>Perspectives in Science</i> , 2016 , 9, 42-48	0.8	40
265	Substrate promiscuity of cytochrome P450 RhF. <i>Catalysis Science and Technology</i> , 2013 , 3, 1490	5.5	40
264	Solid-supported cyclohexane-1,3-dione (CHD): a "capture and release" reagent for the synthesis of amides and novel scavenger resin. <i>Organic Letters</i> , 2003 , 5, 849-52	6.2	40
263	Structure, Activity and Stereoselectivity of NADPH-Dependent Oxidoreductases Catalysing the S-Selective Reduction of the Imine Substrate 2-Methylpyrroline. <i>ChemBioChem</i> , 2015 , 16, 1052-9	3.8	39
262	Real-Time Screening of Biocatalysts in Live Bacterial Colonies. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1408-1411	16.4	38
261	Micro-scale process development of transaminase catalysed reactions. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 1280-3	3.9	38
260	Purification and characterization of cloned isopenicillin N synthetase. <i>Journal of Antibiotics</i> , 1987 , 40, 652-9	3.7	38
259	Single-Biocatalyst Synthesis of Enantiopure d-Arylalanines Exploiting an Engineered d-Amino Acid Dehydrogenase. <i>Advanced Synthesis and Catalysis</i> , 2016 , 358, 3298-3306	5.6	37

258	Cephalosporin biosynthesis: A branched pathway sensitive to an isotope effect. <i>Tetrahedron</i> , 1991 , 47, 9881-9900	2.4	37
257	Electrocatalytic Volleyball: Rapid Nanoconfined Nicotinamide Cycling for Organic Synthesis in Electrode Pores. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4948-4952	16.4	37
256	Galactose Oxidase Variants for the Oxidation of Amino Alcohols in Enzyme Cascade Synthesis. <i>ChemCatChem</i> , 2015 , 7, 2313-2317	5.2	36
255	A fast and sensitive assay for measuring the activity and enantioselectivity of transaminases. <i>Chemical Communications</i> , 2011 , 47, 773-5	5.8	36
254	Screening and characterization of a diverse panel of metagenomic imine reductases for biocatalytic reductive amination. <i>Nature Chemistry</i> , 2021 , 13, 140-148	17.6	36
253	Achieving optimal SERS through enhanced experimental design. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 59-66	2.3	36
252	Regio- and Enantio-selective Chemo-enzymatic C-H-Lactonization of Decanoic Acid to (S)- ϵ -Decalactone. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5668-5671	16.4	35
251	Monoamine Oxidase \rightarrow Transaminase Cascade for the Deracemisation and Dealkylation of Amines. <i>ChemCatChem</i> , 2014 , 6, 992-995	5.2	35
250	Generation of a dynamic combinatorial library using sialic acid aldolase and in situ screening against wheat germ agglutinin. <i>Tetrahedron</i> , 2004 , 60, 771-780	2.4	35
249	Chemoenzymatic Synthesis of Substituted Azepanes by Sequential Biocatalytic Reduction and Organolithium-Mediated Rearrangement. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17872-17877	16.4	35
248	Kinetic Resolution and Deracemization of Racemic Amines Using a Reductive Aminase. <i>ChemCatChem</i> , 2018 , 10, 515-519	5.2	34
247	A novel linker for the attachment of alcohols to solid supports. <i>Tetrahedron Letters</i> , 1998 , 39, 3819-3822		34
246	Preparative deracemization of unnatural amino acids. <i>Biochemical Society Transactions</i> , 2006 , 34, 287-90	5.1	34
245	Efficient terpene hydroxylation catalysts based upon P450 enzymes derived from actinomycetes. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 2930-4	3.9	34
244	Identification of broad specificity P450CAM variants by primary screening against indole as substrate. <i>Chemical Communications</i> , 2005 , 3652-4	5.8	34
243	Stereoinversion of beta- and gamma-substituted alpha-amino acids using a chemo-enzymatic oxidation-reduction procedure. <i>Chemical Communications</i> , 2003 , 2636-7	5.8	34
242	Synthesis of a novel N-hydroxypyrrolidine using enzyme catalysed asymmetric carbon-carbon bond synthesis. <i>Tetrahedron Letters</i> , 2000 , 41, 4481-4485	2	33
241	Enantioselective hydrolysis of nitriles and amides using an immobilised whole cell system. <i>Tetrahedron: Asymmetry</i> , 1992 , 3, 1543-1546		33

240	Immobilised whole-cell recombinant monoamine oxidase biocatalysis. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 1229-36	5.7	32
239	Biocatalytic Routes to Nonracemic Chiral Amines 2010 , 431-459		32
238	Efficient palladium-catalyzed cross-coupling of beta-chloroalkylidene/arylidene malonates using microwave chemistry. <i>Journal of Organic Chemistry</i> , 2004 , 69, 6920-2	4.2	32
237	Tuning lipase enantioselectivity in organic media using solid-state buffers. <i>Journal of Organic Chemistry</i> , 2001 , 66, 5074-9	4.2	32
236	Putrescine Transaminases for the Synthesis of Saturated Nitrogen Heterocycles from Polyamines. <i>ChemCatChem</i> , 2016 , 8, 1038-1042	5.2	32
235	Technical Considerations for Scale-Up of Imine-Reductase-Catalyzed Reductive Amination: A Case Study. <i>Organic Process Research and Development</i> , 2019 , 23, 1262-1268	3.9	31
234	Bacterial <i>Anabaena variabilis</i> phenylalanine ammonia lyase: a biocatalyst with broad substrate specificity. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 5555-7	3.4	31
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