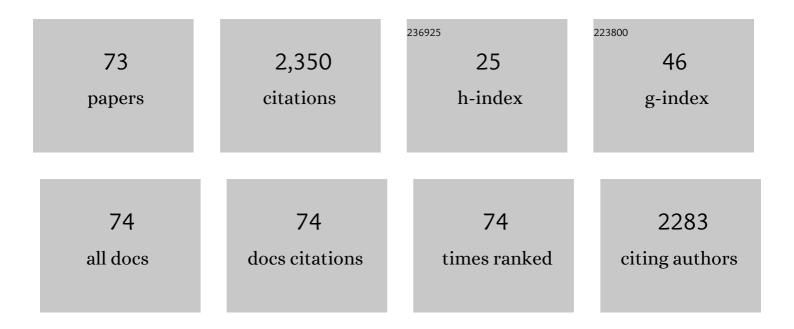
Christopher C R Allen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Biodegradation and Rhodococcus – masters of catabolic versatility. Current Opinion in Biotechnology, 2005, 16, 282-290.	6.6	373
2	Application of ω-Transaminases in the Pharmaceutical Industry. Chemical Reviews, 2018, 118, 349-367.	47.7	267
3	Purification and Characterization of a Novel Naphthalene Dioxygenase from <i>Rhodococcus</i> sp. Strain NCIMB12038. Journal of Bacteriology, 1999, 181, 6200-6204.	2.2	110
4	Metagenomic Characterisation of the Viral Community of Lough Neagh, the Largest Freshwater Lake in Ireland. PLoS ONE, 2016, 11, e0150361.	2.5	87
5	Biodegradation by Members of the Genus Rhodococcus: Biochemistry, Physiology, and Genetic Adaptation. Advances in Applied Microbiology, 2006, 59, 1-29.	2.4	85
6	Enantioselective bacterial biotransformation routes to cis-diol metabolites of monosubstituted benzenes, naphthalene and benzocycloalkenes of either absolute configuration. Journal of the Chemical Society Chemical Communications, 1995, , 117.	2.0	73
7	Web-Type Evolution of Rhodococcus Gene Clusters Associated with Utilization of Naphthalene. Applied and Environmental Microbiology, 2005, 71, 1754-1764.	3.1	73
8	bis-cis-Dihydrodiols:Â A New Class of Metabolites Resulting from Biphenyl Dioxygenase-Catalyzed Sequential Asymmetriccis-Dihydroxylation of Polycyclic Arenes and Heteroarenes. Journal of Organic Chemistry, 1999, 64, 4005-4011.	3.2	59
9	Toluene and naphthalene dioxygenase-catalysed sulfoxidation of alkyl aryl sulfides. Journal of the Chemical Society Perkin Transactions 1, 1998, , 1929-1934.	0.9	57
10	Chemoenzymatic Synthesis of Carbasugars (+)-Pericosines Aâ^'C from Diverse Aromatic cis-Dihydrodiol Precursors. Organic Letters, 2010, 12, 2206-2209.	4.6	53
11	Structure and Increased Thermostability of Rhodococcus sp. Naphthalene 1,2-Dioxygenase. Journal of Bacteriology, 2005, 187, 7222-7231.	2.2	51
12	Raman Deuterium Isotope Probing Reveals Microbial Metabolism at the Single-Cell Level. Analytical Chemistry, 2017, 89, 13305-13312.	6.5	51
13	Azaarene cis-dihydrodiol-derived 2,2′-bipyridine ligands for asymmetric allylic oxidation and cyclopropanation. Chemical Communications, 2008, , 5535.	4.1	50
14	Rational Design of a (S)-Selective-Transaminase for Asymmetric Synthesis of (1S)-1-(1,1′-biphenyl-2-yl)ethanamine. ACS Catalysis, 2016, 6, 7749-7759.	11.2	46
15	Dioxygenase-catalysed oxidation of alkylaryl sulfides: sulfoxidation versus cis-dihydrodiol formation. Organic and Biomolecular Chemistry, 2004, 2, 2530.	2.8	41
16	Chemoenzymatic synthesis of carbasugars from iodobenzene. Organic and Biomolecular Chemistry, 2005, 3, 1953.	2.8	38
17	Dioxygenase-catalysed oxidation of monosubstituted thiophenes: sulfoxidation versus dihydrodiol formation. Organic and Biomolecular Chemistry, 2003, 1, 984-994.	2.8	34
18	Bacterial dioxygenase- and monooxygenase-catalysed sulfoxidation of benzo[b]thiophenes. Organic and Biomolecular Chemistry, 2012, 10, 782-790.	2.8	33

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19	Tracking the Fate of Microbially Sequestered Carbon Dioxide in Soil Organic Matter. Environmental Science & Technology, 2013, 47, 5128-5137.	10.0	31
20	Regioselectivity and stereoselectivity of dioxygenase catalysed cis-dihydroxylation of mono- and tri-cyclic azaarene substrates. Organic and Biomolecular Chemistry, 2008, 6, 3957.	2.8	30
21	Tandem enzyme-catalysed oxidations of alkyl phenyl sulfides and alkyl benzenes: enantiocomplementary routes to chiral phenols. Chemical Communications, 2002, , 1914-1915.	4.1	29
22	Stereoselective reductase-catalysed deoxygenation of sulfoxides in aerobic and anaerobic bacteria. Organic and Biomolecular Chemistry, 2004, 2, 554.	2.8	29
23	Genomes of "phiKMV-like viruses―of Pseudomonas aeruginosa contain localized single-strand interruptions. Virology, 2009, 391, 1-4.	2.4	27
24	Enantioselective dioxygenase-catalysed formation and thermal racemisation of chiral thiophene sulfoxides. Chemical Communications, 1996, , 2363.	4.1	26
25	Analysis of transduction in wastewater bacterial populations by targeting the phage-derived 16S rRNA gene sequences. FEMS Microbiology Ecology, 2011, 76, 100-108.	2.7	26
26	syn-Benzene dioxides: chemoenzymatic synthesis from 2,3-cis-dihydrodiol derivatives of monosubstituted benzenes and their application in the synthesis of regioisomeric 1,2- and 3,4-cis-dihydrodiols and 1,4-dioxocins. Organic and Biomolecular Chemistry, 2007, 5, 2267.	2.8	25
27	Dioxygenase-catalysed dihydroxylation of arene cis-dihydrodiols and acetonide derivatives: a new approach to the synthesis of enantiopure tetraoxygenated bioproducts from arenes. Chemical Communications, 2006, , 4934.	4.1	24
28	Chemoenzymatic synthesis of the trans-dihydrodiol isomers of monosubstituted benzenes viaanti-benzene dioxides. Organic and Biomolecular Chemistry, 2006, 4, 2208.	2.8	24
29	New families of enantiopure cyclohexenone cis-diol, o-quinol dimer and hydrate metabolites from dioxygenase-catalysed dihydroxylation of phenols. Chemical Communications, 2009, , 3633.	4.1	23
30	Genomes and Plasmids in Rhodococcus. Microbiology Monographs, 2010, , 73-90.	0.6	22
31	Chemoenzymatic formal synthesis of (â^')- and (+)-epibatidine. Organic and Biomolecular Chemistry, 2012, 10, 2774.	2.8	22
32	Dioxygenase-catalysed cis-dihydroxylation of meta-substituted phenols to yield cyclohexenone cis-diol and derived enantiopure cis-triol metabolites. Organic and Biomolecular Chemistry, 2011, 9, 1479.	2.8	21
33	cis-Dihydrodiol, arene oxide and phenol metabolites of dictamnine: key intermediates in the biodegradation and biosynthesis of furoquinoline alkaloids. Chemical Communications, 2005, , 3989.	4.1	20
34	Multiple site dioxygenase-catalysed cis-dihydroxylation of polycyclic azaarenes to yield a new class of bis-cis-diol metabolites. Chemical Communications, 1999, , 1201-1202.	4.1	19
35	Chemoenzymatic synthesis of the carbasugars carba-β-l-galactopyranose, carba-β-l-talopyranose and carba-α-l-talopyranose from methyl benzoate. Organic and Biomolecular Chemistry, 2010, 8, 1415.	2.8	19
36	Chemoenzymatic synthesis of trans-dihydrodiol derivatives of monosubstituted benzenes from the corresponding cis-dihydrodiol isomers. Organic and Biomolecular Chemistry, 2007, 5, 514.	2.8	18

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37	Analysis of viral and bacterial communities in groundwater associated with contaminated land. Science of the Total Environment, 2019, 656, 1413-1426.	8.0	18
38	Regio- and stereo-selective dioxygenase-catalysed cis-dihydroxylation of fjord-region polycyclic arenes. Journal of the Chemical Society, Perkin Transactions 1, 2001, , 1264-1269.	1.3	17
39	Chemoenzymatic synthesis of a mixed phosphine–phosphine oxide catalyst and its application to asymmetric allylation of aldehydes and hydrogenation of alkenes. Organic and Biomolecular Chemistry, 2012, 10, 1388.	2.8	16
40	Isolation and Characterisation of a Halotolerant ï‰â€Transaminase from a Triassic Period Salt Mine and Its Application to Biocatalysis. ChemistrySelect, 2017, 2, 9783-9791.	1.5	16
41	The occurrence of PAHs and faecal sterols in Dublin Bay and their influence on sedimentary microbial communities. Marine Pollution Bulletin, 2016, 106, 215-224.	5.0	15
42	Characterisation of a solvent-tolerant haloarchaeal (R)-selective transaminase isolated from a Triassic period salt mine. Applied Microbiology and Biotechnology, 2019, 103, 5727-5737.	3.6	15
43	Effect of soil horizon stratigraphy on the microbial ecology of alpine paleosols. Science of the Total Environment, 2019, 657, 1183-1193.	8.0	15
44	Biphenyl dioxygenase-catalysed cis-dihydroxylation of tricyclic azaarenes: chemoenzymatic synthesis of arene oxide metabolites and furoquinoline alkaloids. RSC Advances, 2013, 3, 10944.	3.6	14
45	The distribution of novel bacterial laccases in alpine paleosols is directly related to soil stratigraphy. Science of the Total Environment, 2019, 671, 19-27.	8.0	14
46	Toluene Dioxygenase-Catalyzed Synthesis and Reactions of <i>cis</i> -Diol Metabolites Derived from 2- and 3-Methoxyphenols. Journal of Organic Chemistry, 2015, 80, 3429-3439.	3.2	13
47	A Microbial Link to Weathering of Postglacial Rocks and Sediments, Mount Viso Area, Western Alps, Demonstrated through Analysis of a Soil/Paleosol Bio/Chronosequence. Journal of Geology, 2016, 124, 149-169.	1.4	13
48	Toluene dioxygenase-catalyzed cis-dihydroxylation of benzo[b]thiophenes and benzo[b]furans: synthesis of benzo[b]thiophene 2,3-oxide. Organic and Biomolecular Chemistry, 2012, 10, 7292.	2.8	12
49	Engineering Peptides to Catalyze and Control Stabilization of Gas Hydrates: Learning From Nature. Journal of Physical Chemistry Letters, 2020, 11, 5068-5075.	4.6	11
50	Extent and Variation of Phage-Borne Bacterial 16S rRNA Gene Sequences in Wastewater Environments. Applied and Environmental Microbiology, 2011, 77, 5529-5532.	3.1	10
51	Structure, stereochemistry and synthesis of enantiopure cyclohexenone cis-diol bacterial metabolites derived from phenols. Organic and Biomolecular Chemistry, 2012, 10, 6217.	2.8	10
52	Characterization of a novel ω-transaminase from a Triassic salt mine metagenome. Biochemical and Biophysical Research Communications, 2018, 503, 2936-2942.	2.1	9
53	Chemoenzymatic Synthesis of (â~)-Ribisins A and B from Dibenzo[<i>b,d</i>]furan. Journal of Organic Chemistry, 2019, 84, 15165-15172.	3.2	9
54	Crystallization and preliminary X-ray diffraction analysis of naphthalene dioxygenase fromRhodococcussp. strain NCIMB 12038. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 2173-2174.	2.5	8

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55	Enzyme-catalysed oxidation of 1,2-disulfides to yield chiral thiosulfinate, sulfoxide and cis-dihydrodiol metabolites. RSC Advances, 2014, 4, 27607-27619.	3.6	8
56	Arene <i>cis</i> â€Diol Dehydrogenaseâ€Catalysed Regio―and Stereoselective Oxidation of Areneâ€; Cycloalkane―and Cycloalkeneâ€ <i>cis</i> â€diols to Yield Catechols and Chiral αâ€Ketols. Advanced Synthesis and Catalysis, 2015, 357, 1881-1894.	4.3	8
57	Enzymeâ€Catalysed Synthesis of Cyclohexâ€2â€enâ€1â€one <i>cis</i> â€Diols from Substituted Phenols, Anilines Derived 4â€Hydroxycyclohexâ€2â€enâ€1â€ones. Advanced Synthesis and Catalysis, 2017, 359, 4002-4014.	s and 4.3	8
58	Large perturbations in CO2 flux and subsequent chemosynthesis are induced in agricultural soil by the addition of elemental sulfur. Scientific Reports, 2017, 7, 4732.	3.3	8
59	Magnetic-field effects on methane-hydrate kinetics and potential geophysical implications: Insights from non-equilibrium molecular dynamics. Science of the Total Environment, 2019, 661, 664-669.	8.0	8
60	Tandem enzyme-catalysed reduction/cis-dihydroxylation of 2,2,2-trifluoroace- tophenone: chemoenzymatic routes to new enantiopure phenol and benzylic alcohol reagents. Journal of Chemical Technology and Biotechnology, 2007, 82, 1072-1081.	3.2	7
61	Pf16 and phiPMW: Expanding the realm of Pseudomonas putida bacteriophages. PLoS ONE, 2017, 12, e0184307.	2.5	7
62	Cisâ€Ðihydroxylation of Tricyclic Arenes and Heteroarenes Catalyzed by Toluene Dioxygenase: A Molecular Docking Study and Experimental Validation. Advanced Synthesis and Catalysis, 2019, 361, 2526.	4.3	7
63	Chemoenzymatic synthesis of monocyclic arene oxides and arene hydrates from substituted benzene substrates. Organic and Biomolecular Chemistry, 2013, 11, 3020.	2.8	6
64	Magnetic-Field Manipulation of Naturally Occurring Microbial Chiral Peptides to Regulate Gas-Hydrate Formation. Journal of Physical Chemistry Letters, 2020, 11, 9079-9085.	4.6	6
65	Toluene Dioxygenase-Catalyzed cis-Dihydroxylation of Quinolines: A Molecular Docking Study and Chemoenzymatic Synthesis of Quinoline Arene Oxides. Frontiers in Bioengineering and Biotechnology, 2020, 8, 619175.	4.1	6
66	Spectroscopic Characterisation of the Naphthalene Dioxygenase from Rhodococcus sp. Strain NCIMB12038. International Journal of Molecular Sciences, 2019, 20, 3402.	4.1	5
67	Microbial Stabilization and Kinetic Enhancement of Marine Methane Hydrates. Geomicrobiology Journal, 2020, 37, 279-286.	2.0	5
68	Monooxygenase- and Dioxygenase-Catalyzed Oxidative Dearomatization of Thiophenes by Sulfoxidation, cis-Dihydroxylation and Epoxidation. International Journal of Molecular Sciences, 2022, 23, 909.	4.1	4
69	Enantiopurity and absolute configuration determination of arene <i>cis</i> â€dihydrodiol metabolites and derivatives using chiral boronic acids. Chirality, 2018, 30, 5-18.	2.6	3
70	Chemoenzymatic synthesis of enantiopure hydroxy sulfoxides derived from substituted arenes. Organic and Biomolecular Chemistry, 2016, 14, 2651-2664.	2.8	2
71	Draft Genome Sequence of <i>Rhodococcus</i> sp. Strain NCIMB 12038, a Naphthalene-Degrading Bacterium. Genome Announcements, 2018, 6, .	0.8	1
72	Revealing the global importance of isoprene metabolism by marine bacteria. Environmental Microbiology, 2017, 19, 3413-3414.	3.8	0

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73	Expression, purification and crystallization of a novel metagenome-derived salicylaldehyde dehydrogenase from Alpine soil. Acta Crystallographica Section F, Structural Biology Communications, 2022, 78, 161-169.	0.8	0