

John E Mcgeehan

List of Publications by Year in descending order

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52
papers

3,267
citations

279798

23
h-index

182427

51
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52
all docs

52
docs citations

52
times ranked

3931
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Performance of PETase as a Function of Reaction Conditions, Substrate Properties, and Product Accumulation. <i>ChemSusChem</i> , 2022, 15, .	6.8	42
2	Cytochromes P450 in the biocatalytic valorization of lignin. <i>Current Opinion in Biotechnology</i> , 2022, 73, 43-50.	6.6	16
3	Debottlenecking 4-hydroxybenzoate hydroxylation in <i>Pseudomonas putida</i> KT2440 improves muconate productivity from p-coumarate. <i>Metabolic Engineering</i> , 2022, 70, 31-42.	7.0	25
4	A flexible kinetic assay efficiently sorts prospective biocatalysts for PET plastic subunit hydrolysis. <i>RSC Advances</i> , 2022, 12, 8119-8130.	3.6	8
5	Critical enzyme reactions in aromatic catabolism for microbial lignin conversion. <i>Nature Catalysis</i> , 2022, 5, 86-98.	34.4	51
6	Biochemical and structural characterization of an aromatic ring- ω -hydroxylating dioxygenase for terephthalic acid catabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2121426119.	7.1	19
7	Discovery, characterization, and metabolic engineering of Rieske non-heme iron monooxygenases for guaiacol O-demethylation. <i>Chem Catalysis</i> , 2022, 2, 1989-2011.	6.1	8
8	Priorities to inform research on marine plastic pollution in Southeast Asia. <i>Science of the Total Environment</i> , 2022, 841, 156704.	8.0	25
9	Particle Size Reduction of Poly(ethylene terephthalate) Increases the Rate of Enzymatic Depolymerization But Does Not Increase the Overall Conversion Extent. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 9131-9140.	6.7	39
10	Engineering a Cytochrome P450 for Demethylation of Lignin-Derived Aromatic Aldehydes. <i>Jacs Au</i> , 2021, 1, 252-261.	7.9	20
11	Chemical and biological catalysis for plastics recycling and upcycling. <i>Nature Catalysis</i> , 2021, 4, 539-556.	34.4	420
12	Techno-economic, life-cycle, and socioeconomic impact analysis of enzymatic recycling of poly(ethylene terephthalate). <i>Joule</i> , 2021, 5, 2479-2503.	24.0	160
13	Characterization and engineering of a two-enzyme system for plastics depolymerization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25476-25485.	7.1	262
14	Enabling microbial syringol conversion through structure-guided protein engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13970-13976.	7.1	41
15	Characterization and engineering of a plastic-degrading aromatic polyesterase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4350-E4357.	7.1	632
16	A promiscuous cytochrome P450 aromatic O-demethylase for lignin bioconversion. <i>Nature Communications</i> , 2018, 9, 2487.	12.8	135
17	A newly identified Rab-GDI paralogue has a role in neural development in amphibia. <i>Gene</i> , 2017, 599, 78-86.	2.2	4
18	Human Mitochondrial Cytochrome b Variants Studied in Yeast: Not All Are Silent Polymorphisms. <i>Human Mutation</i> , 2016, 37, 933-941.	2.5	22

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19	A metastable structure for the compact 30â€­nm chromatin fibre. <i>FEBS Letters</i> , 2016, 590, 935-942.	2.8	12
20	The construction of customized nucleosomal arrays. <i>Analytical Biochemistry</i> , 2016, 496, 71-75.	2.4	8
21	Radiation damage within nucleoprotein complexes studied by macromolecular X-ray crystallography. <i>Radiation Physics and Chemistry</i> , 2016, 128, 118-125.	2.8	4
22	RNA protects a nucleoprotein complex against radiation damage. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 648-657.	2.3	18
23	Lignocellulose degradation mechanisms across the Tree of Life. <i>Current Opinion in Chemical Biology</i> , 2015, 29, 108-119.	6.1	478
24	Radiation damage to nucleoprotein complexes in macromolecular crystallography. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 213-224.	2.4	21
25	Identification and functional prediction of mitochondrial complex III and IV mutations associated with glioblastoma. <i>Neuro-Oncology</i> , 2015, 17, 942-952.	1.2	23
26	Structural and Mutagenic Analysis of the RM Controller Protein C.Esp1396I. <i>PLoS ONE</i> , 2014, 9, e98365.	2.5	3
27	Non-rigid image registration to reduce beam-induced blurring of cryo-electron microscopy images. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 58-66.	2.4	5
28	Structural characterization of a unique marine animal family 7 cellobiohydrolase suggests a mechanism of cellulase salt tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10189-10194.	7.1	87
29	Structural analysis of DNA-protein complexes regulating the restriction modification systemEsp1396I. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 962-966.	0.7	6
30	Structural Analysis of Mitochondrial Mutations Reveals a Role for Bigenomic Protein Interactions in Human Disease. <i>PLoS ONE</i> , 2013, 8, e69003.	2.5	25
31	Large Multimeric Assemblies of Nucleosome Assembly Protein and Histones Revealed by Small-angle X-ray Scattering and Electron Microscopy. <i>Journal of Biological Chemistry</i> , 2012, 287, 26657-26665.	3.4	12
32	Size Does Matter. Sterically Demanding Metallocene-Substituted 3-Methylidene-Oxindoles Exhibit Poor Kinase Inhibitory Action. <i>Organometallics</i> , 2011, 30, 3177-3181.	2.3	19
33	Raman-assisted crystallography of biomolecules at the synchrotron: Instrumentation, methods and applications. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 750-759.	2.3	17
34	Infrared protein crystallography. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 760-777.	2.3	24
35	Amyloid-Î² ₄₂ Interacts Mainly with Insoluble Prion Protein in the Alzheimer Brain. <i>Journal of Biological Chemistry</i> , 2011, 286, 15095-15105.	3.4	75
36	PrP Conformational Transitions Alter Species Preference of a PrP-specific Antibody. <i>Journal of Biological Chemistry</i> , 2010, 285, 13874-13884.	3.4	50

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37	Reply to Kascsak: Definition of the PrP 3F4 Epitope Revisited. <i>Journal of Biological Chemistry</i> , 2010, 285, 1e6.	3.4	0
38	Colouring cryo-cooled crystals: online microspectrophotometry. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 163-172.	2.4	69
39	Structural and Biophysical Characterization of the Proteins Interacting with the Herpes Simplex Virus 1 Origin of Replication. <i>Journal of Biological Chemistry</i> , 2009, 284, 16343-16353.	3.4	12
40	Failure to Detect the Presence of Prions in the Uterine and Gestational Tissues from a Gravida with Creutzfeldt-Jakob Disease. <i>American Journal of Pathology</i> , 2009, 174, 1602-1608.	3.8	19
41	X-ray tomographic reconstruction of macromolecular samples. <i>Journal of Applied Crystallography</i> , 2008, 41, 1057-1066.	4.5	28
42	Structural analysis of the genetic switch that regulates the expression of restriction-modification genes. <i>Nucleic Acids Research</i> , 2008, 36, 4778-4787.	14.5	34
43	Advances in spectroscopic methods for biological crystals. 1. Fluorescence lifetime measurements. <i>Journal of Applied Crystallography</i> , 2007, 40, 1105-1112.	4.5	57
44	Plastic-embedded protein crystals. <i>Journal of Synchrotron Radiation</i> , 2007, 14, 128-132.	2.4	6
45	X-ray radiation-induced damage in DNA monitored by online Raman. <i>Journal of Synchrotron Radiation</i> , 2007, 14, 99-108.	2.4	40
46	Insoluble Aggregates and Protease-resistant Conformers of Prion Protein in Uninfected Human Brains. <i>Journal of Biological Chemistry</i> , 2006, 281, 34848-34858.	3.4	109
47	Concealment of epitope by reduction and alkylation in prion protein. <i>Biochemical and Biophysical Research Communications</i> , 2005, 326, 652-659.	2.1	14
48	Cloning, expression, purification, and characterisation of the dUTPase encoded by the integrated <i>Bacillus subtilis</i> temperate bacteriophage SPI ² . <i>Protein Expression and Purification</i> , 2005, 42, 92-99.	1.3	6
49	A novel strategy for the expression and purification of the DNA methyltransferase, M.AhdI. <i>Protein Expression and Purification</i> , 2004, 37, 236-242.	1.3	4
50	Purification and characterisation of a novel DNA methyltransferase, M.AhdI. <i>Nucleic Acids Research</i> , 2003, 31, 2803-2810.	14.5	23
51	Crystallization and preliminary crystallographic analysis of deoxyuridine 5'-triphosphate nucleotidohydrolase from <i>Bacillus subtilis</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 876-878.	2.5	3
52	Evolution of the dUTPase Gene of Mammalian and Avian Herpesviruses. <i>Current Protein and Peptide Science</i> , 2001, 2, 325-333.	1.4	27