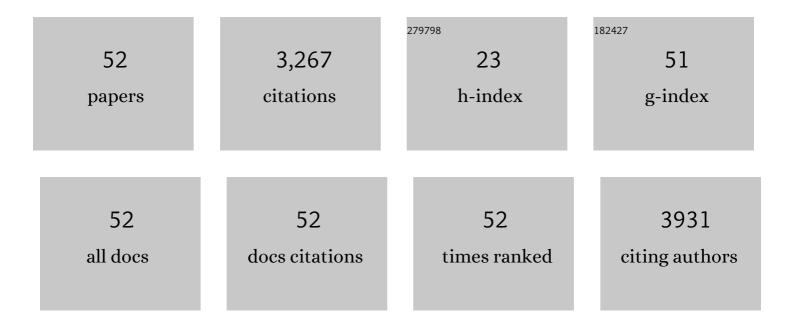
## John E Mcgeehan

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Characterization and engineering of a plastic-degrading aromatic polyesterase. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4350-E4357.	7.1	632
2	Lignocellulose degradation mechanisms across the Tree of Life. Current Opinion in Chemical Biology, 2015, 29, 108-119.	6.1	478
3	Chemical and biological catalysis for plastics recycling and upcycling. Nature Catalysis, 2021, 4, 539-556.	34.4	420
4	Characterization and engineering of a two-enzyme system for plastics depolymerization. Proceedings of the United States of America, 2020, 117, 25476-25485.	7.1	262
5	Techno-economic, life-cycle, and socioeconomic impact analysis of enzymatic recycling of poly(ethylene terephthalate). Joule, 2021, 5, 2479-2503.	24.0	160
6	A promiscuous cytochrome P450 aromatic O-demethylase for lignin bioconversion. Nature Communications, 2018, 9, 2487.	12.8	135
7	Insoluble Aggregates and Protease-resistant Conformers of Prion Protein in Uninfected Human Brains. Journal of Biological Chemistry, 2006, 281, 34848-34858.	3.4	109
8	Structural characterization of a unique marine animal family 7 cellobiohydrolase suggests a mechanism of cellulase salt tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10189-10194.	7.1	87
9	Amyloid-β42 Interacts Mainly with Insoluble Prion Protein in the Alzheimer Brain. Journal of Biological Chemistry, 2011, 286, 15095-15105.	3.4	75
10	Colouring cryo-cooled crystals: online microspectrophotometry. Journal of Synchrotron Radiation, 2009, 16, 163-172.	2.4	69
11	Advances in spectroscopic methods for biological crystals. 1. Fluorescence lifetime measurements. Journal of Applied Crystallography, 2007, 40, 1105-1112.	4.5	57
12	Critical enzyme reactions in aromatic catabolism for microbial lignin conversion. Nature Catalysis, 2022, 5, 86-98.	34.4	51
13	PrP Conformational Transitions Alter Species Preference of a PrP-specific Antibody. Journal of Biological Chemistry, 2010, 285, 13874-13884.	3.4	50
14	Comparative Performance of PETase as a Function of Reaction Conditions, Substrate Properties, and Product Accumulation. ChemSusChem, 2022, 15, .	6.8	42
15	Enabling microbial syringol conversion through structure-guided protein engineering. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13970-13976.	7.1	41
16	X-ray radiation-induced damage in DNA monitored by online Raman. Journal of Synchrotron Radiation, 2007, 14, 99-108.	2.4	40
17	Particle Size Reduction of Poly(ethylene terephthalate) Increases the Rate of Enzymatic Depolymerization But Does Not Increase the Overall Conversion Extent. ACS Sustainable Chemistry and Engineering, 2022, 10, 9131-9140.	6.7	39
18	Structural analysis of the genetic switch that regulates the expression of restriction-modification genes. Nucleic Acids Research, 2008, 36, 4778-4787.	14.5	34

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19	X-ray tomographic reconstruction of macromolecular samples. Journal of Applied Crystallography, 2008, 41, 1057-1066.	4.5	28
20	Evolution of the dUTPase Gene of Mammalian and Avian Herpesviruses. Current Protein and Peptide Science, 2001, 2, 325-333.	1.4	27
21	Structural Analysis of Mitochondrial Mutations Reveals a Role for Bigenomic Protein Interactions in Human Disease. PLoS ONE, 2013, 8, e69003.	2.5	25
22	Debottlenecking 4-hydroxybenzoate hydroxylation in Pseudomonas putida KT2440 improves muconate productivity from p-coumarate. Metabolic Engineering, 2022, 70, 31-42.	7.0	25
23	Priorities to inform research on marine plastic pollution in Southeast Asia. Science of the Total Environment, 2022, 841, 156704.	8.0	25
24	Infrared protein crystallography. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 760-777.	2.3	24
25	Purification and characterisation of a novel DNA methyltransferase, M.AhdI. Nucleic Acids Research, 2003, 31, 2803-2810.	14.5	23
26	Identification and functional prediction of mitochondrial complex III and IV mutations associated with glioblastoma. Neuro-Oncology, 2015, 17, 942-952.	1.2	23
27	Human Mitochondrial Cytochrome b Variants Studied in Yeast: Not All Are Silent Polymorphisms. Human Mutation, 2016, 37, 933-941.	2.5	22
28	Radiation damage to nucleoprotein complexes inÂmacromolecular crystallography. Journal of Synchrotron Radiation, 2015, 22, 213-224.	2.4	21
29	Engineering a Cytochrome P450 for Demethylation of Lignin-Derived Aromatic Aldehydes. Jacs Au, 2021, 1, 252-261.	7.9	20
30	Failure to Detect the Presence of Prions in the Uterine and Gestational Tissues from a Gravida with Creutzfeldt-Jakob Disease. American Journal of Pathology, 2009, 174, 1602-1608.	3.8	19
31	Size Does Matter. Sterically Demanding Metallocene-Substituted 3-Methylidene-Oxindoles Exhibit Poor Kinase Inhibitory Action. Organometallics, 2011, 30, 3177-3181.	2.3	19
32	Biochemical and structural characterization of an aromatic ring–hydroxylating dioxygenase for terephthalic acid catabolism. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2121426119.	7.1	19
33	RNA protects a nucleoprotein complex against radiation damage. Acta Crystallographica Section D: Structural Biology, 2016, 72, 648-657.	2.3	18
34	Raman-assisted crystallography of biomolecules at the synchrotron: Instrumentation, methods and applications. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 750-759.	2.3	17
35	Cytochromes P450 in the biocatalytic valorization of lignin. Current Opinion in Biotechnology, 2022, 73, 43-50.	6.6	16
36	Concealment of epitope by reduction and alkylation in prion protein. Biochemical and Biophysical Research Communications, 2005, 326, 652-659.	2.1	14

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37	Structural and Biophysical Characterization of the Proteins Interacting with the Herpes Simplex Virus 1 Origin of Replication. Journal of Biological Chemistry, 2009, 284, 16343-16353.	3.4	12
38	Large Multimeric Assemblies of Nucleosome Assembly Protein and Histones Revealed by Small-angle X-ray Scattering and Electron Microscopy. Journal of Biological Chemistry, 2012, 287, 26657-26665.	3.4	12
39	A metastable structure for the compact 30â€nm chromatin fibre. FEBS Letters, 2016, 590, 935-942.	2.8	12
40	The construction of customized nucleosomal arrays. Analytical Biochemistry, 2016, 496, 71-75.	2.4	8
41	A flexible kinetic assay efficiently sorts prospective biocatalysts for PET plastic subunit hydrolysis. RSC Advances, 2022, 12, 8119-8130.	3.6	8
42	Discovery, characterization, and metabolic engineering of Rieske non-heme iron monooxygenases for guaiacol O-demethylation. Chem Catalysis, 2022, 2, 1989-2011.	6.1	8
43	Cloning, expression, purification, and characterisation of the dUTPase encoded by the integrated Bacillus subtilis temperate bacteriophage SPÎ <sup>2</sup> . Protein Expression and Purification, 2005, 42, 92-99.	1.3	6
44	Plastic-embedded protein crystals. Journal of Synchrotron Radiation, 2007, 14, 128-132.	2.4	6
45	Structural analysis of DNA–protein complexes regulating the restriction–modification systemEsp1396I. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 962-966.	0.7	6
46	Non-rigid image registration to reduce beam-induced blurring of cryo-electron microscopy images. Journal of Synchrotron Radiation, 2013, 20, 58-66.	2.4	5
47	A novel strategy for the expression and purification of the DNA methyltransferase, M.Ahdl. Protein Expression and Purification, 2004, 37, 236-242.	1.3	4
48	Radiation damage within nucleoprotein complexes studied by macromolecular X-ray crystallography. Radiation Physics and Chemistry, 2016, 128, 118-125.	2.8	4
49	A newly identified Rab-GDI paralogue has a role in neural development in amphibia. Gene, 2017, 599, 78-86.	2.2	4
50	Crystallization and preliminary crystallographic analysis of deoxyuridine 5′-triphosphate nucleotidohydrolase fromBacillus subtilis. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 876-878.	2.5	3
51	Structural and Mutagenic Analysis of the RM Controller Protein C.Esp1396I. PLoS ONE, 2014, 9, e98365.	2.5	3
52	Reply to Kascsak: Definition of the PrP 3F4 Epitope Revisited. Journal of Biological Chemistry, 2010, 285, le6.	3.4	0