

# Maureen B Quin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1049913/publications.pdf>

Version: 2024-02-01

41  
papers

2,238  
citations

304602

22  
h-index

276775

41  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2667  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular breeding of carotenoid biosynthetic pathways. <i>Nature Biotechnology</i> , 2000, 18, 750-753.	9.4	327
2	Traversing the fungal terpenome. <i>Natural Product Reports</i> , 2014, 31, 1449-1473.	5.2	287
3	Engineered Protein Nano-Compartments for Targeted Enzyme Localization. <i>PLoS ONE</i> , 2012, 7, e33342.	1.1	145
4	A roadmap for biocatalysis – functional and spatial orchestration of enzyme cascades. <i>Microbial Biotechnology</i> , 2016, 9, 601-609.	2.0	115
5	Self-Assembling Protein Scaffold System for Easy in Vitro Coimmobilization of Biocatalytic Cascade Enzymes. <i>ACS Catalysis</i> , 2018, 8, 5611-5620.	5.5	115
6	Spatial organization of multi-enzyme biocatalytic cascades. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 4260-4271.	1.5	113
7	Metabolic engineering of <i>Pichia pastoris</i> X-33 for lycopene production. <i>Process Biochemistry</i> , 2009, 44, 1095-1102.	1.8	109
8	Engineering of Biocatalysts: from Evolution to Creation. <i>ACS Catalysis</i> , 2011, 1, 1017-1021.	5.5	80
9	Biosynthesis of Terpenoid Natural Products in Fungi. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2014, 148, 19-61.	0.6	80
10	Mushroom Hunting by Using Bioinformatics: Application of a Predictive Framework Facilitates the Selective Identification of Sesquiterpene Synthases in Basidiomycota. <i>ChemBioChem</i> , 2013, 14, 2480-2491.	1.3	63
11	Encapsulation of multiple cargo proteins within recombinant Eut nanocompartments. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 9187-9200.	1.7	59
12	Biocatalytic portfolio of Basidiomycota. <i>Current Opinion in Chemical Biology</i> , 2016, 31, 40-49.	2.8	55
13	Developing a Protein Scaffolding System for Rapid Enzyme Immobilization and Optimization of Enzyme Functions for Biocatalysis. <i>ACS Synthetic Biology</i> , 2019, 8, 1867-1876.	1.9	55
14	Engineering formation of multiple recombinant Eut protein nanocompartments in <i>E. coli</i> . <i>Scientific Reports</i> , 2016, 6, 24359.	1.6	52
15	Ascomycete <i>Aspergillus oryzae</i> Is an Efficient Expression Host for Production of Basidiomycete Terpenes by Using Genomic DNA Sequences. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	43
16	Structure and Function of the Stressosome Signalling Hub. <i>Sub-Cellular Biochemistry</i> , 2017, 83, 1-41.	1.0	38
17	Current and Emerging Approaches for Natural Product Biosynthesis in Microbial Cells. <i>Advanced Synthesis and Catalysis</i> , 2005, 347, 927-940.	2.1	36
18	Building a toolbox of protein scaffolds for future immobilization of biocatalysts. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 8373-8388.	1.7	33

#	ARTICLE	IF	CITATIONS
19	Structural and functional characterization of a small chitinâ€active lytic polysaccharide monooxygenase domain of a multiâ€modular chitinase from <i>Jonesia denitrificans</i> . FEBS Letters, 2016, 590, 34-42.	1.3	31
20	Development of a synthetic cumate-inducible gene expression system for Bacillus. Applied Microbiology and Biotechnology, 2019, 103, 303-313.	1.7	30
21	Eut Bacterial Microcompartments: Insights into Their Function, Structure, and Bioengineering Applications. Journal of Molecular Microbiology and Biotechnology, 2013, 23, 308-320.	1.0	29
22	A trimodular bacterial enzyme combining hydrolytic activity with oxidative glycosidic bond cleavage efficiently degrades chitin. Journal of Biological Chemistry, 2020, 295, 9134-9146.	1.6	26
23	Sesquiterpene Synthaseâ€3-Hydroxy-3-Methylglutaryl Coenzyme A Synthase Fusion Protein Responsible for Hirsutene Biosynthesis in <i>Stereum hirsutum</i> . Applied and Environmental Microbiology, 2018, 84, .	1.4	25
24	Expression of the <i>Fusarium graminearum</i> terpenome and involvement of the endoplasmic reticulum-derived toxosome. Fungal Genetics and Biology, 2019, 124, 78-87.	0.9	25
25	Discovery of Antifungal and Biofilm Preventative Compounds from Mycelial Cultures of a Unique North American <i>Hericium</i> sp. Fungus. Molecules, 2020, 25, 963.	1.7	24
26	Designer microbes for biosynthesis. Current Opinion in Biotechnology, 2014, 29, 55-61.	3.3	23
27	Investigation of cellular targeting of carotenoid pathway enzymes in <i>Pichia pastoris</i> . Journal of Biotechnology, 2009, 140, 227-233.	1.9	21
28	Genetic engineering microbial natural products discovery. Microbial Biotechnology, 2015, 8, 26-28.	2.0	20
29	Organizing Multi-Enzyme Systems into Programmable Materials for Biocatalysis. Catalysts, 2021, 11, 409.	1.6	20
30	Creating Carotenoid Diversity in <i>E. coli</i> Cells using Combinatorial and Directed Evolution Strategies. Phytochemistry Reviews, 2006, 5, 67-74.	3.1	19
31	Characterization of Three Homologs of the Large Subunit of the Magnesium Chelatase from <i>Chlorobaculum tepidum</i> and Interaction with the Magnesium Protoporphyrin IX Methyltransferase. Journal of Biological Chemistry, 2008, 283, 27776-27784.	1.6	18
32	Moonlighting Metals: Insights into Regulation of Cyclization Pathways in Fungal <i>Protillus</i> â€Protoilludene Sesquiterpene Synthases. ChemBioChem, 2015, 16, 2191-2199.	1.3	17
33	Construction of a BioBrickâ„¢ compatible vector system for <i>Rhodococcus</i> . Plasmid, 2017, 90, 1-4.	0.4	16
34	Engineering <i>Bacillus subtilis</i> for the formation of a durable living biocomposite material. Nature Communications, 2021, 12, 7133.	5.8	16
35	Genome of <i>Diaporthe</i> sp. provides insights into the potential inter-phylum transfer of a fungal sesquiterpenoid biosynthetic pathway. Fungal Biology, 2016, 120, 1050-1063.	1.1	13
36	Molecular Identification and Antimicrobial Activity of Foliar Endophytic Fungi on the Brazilian Pepper Tree ( <i>Schinus terebinthifolius</i> ) Reveal New Species of <i>Diaporthe</i> . Current Microbiology, 2021, 78, 3218-3229.	1.0	13

#	ARTICLE	IF	CITATIONS
37	Solid-Phase Assembly of Multienzyme Systems into Artificial Cellulosomes. <i>Bioconjugate Chemistry</i> , 2021, 32, 1966-1972.	1.8	12
38	The future of biologically inspired next-generation factories for chemicals. <i>Microbial Biotechnology</i> , 2017, 10, 1164-1166.	2.0	11
39	Protein-based scaffolds for enzyme immobilization. <i>Methods in Enzymology</i> , 2019, 617, 323-362.	0.4	11
40	Ethanolamine bacterial microcompartments: from structure, function studies to bioengineering applications. <i>Current Opinion in Microbiology</i> , 2021, 62, 28-37.	2.3	7
41	A Tale of Two Reductases: Extending the Bacteriochlorophyll Biosynthetic Pathway in <i>E. coli</i> . <i>PLoS ONE</i> , 2014, 9, e89734.	1.1	3