Martin Grininger

List of Publications by Year
in descending order

52 papers	1,764 citations	304743 22 h-index	315739 38 g-index
72 all docs	72 docs citations	72 times ranked	1885 citing authors

#	Article	IF	Citations
1	Structural insights into the mechanism of archaellar rotational switching. Nature Communications, 2022, 13, .	12.8	1
2	Transacylation Kinetics in Fatty Acid and Polyketide Synthases and its Sensitivity to Point Mutations**. ChemCatChem, 2021, 13, 2771-2782.	3.7	10
3	Solution Structure and Conformational Flexibility of a Polyketide Synthase Module. Jacs Au, 2021, 1, 2162-2171.	7.9	14
4	Complex transitions between dihydrate and anhydrate forms of ectoine â€“ unexpected behavior of a highly hygroscopic compatible solute in the solid state. CrystEngComm, 2020, 22, 169-172.	2.6	5
5	Type I fatty acid synthase trapped in the octanoylâ€bound state. Protein Science, 2020, 29, 589-605.	7.6	28
6	Fusing Î± and Î² subunits of the fungal fatty acid synthase leads to improved production of fatty acids. Scientific Reports, 2020, 10, 9780.	3.3	7
7	Dodecin as carrier protein for immunizations and bioengineering applications. Scientific Reports, 2020, 10, 13297.	3.3	3
8	Cell-Free Synthesis of Natural Compounds from Genomic DNA of Biosynthetic Gene Clusters. ACS Synthetic Biology, 2020, 9, 2418-2426.	3.8	11
9	Ketosynthase Domain Constrains the Design of Polyketide Synthases. ACS Chemical Biology, 2020, 15, 2422-2432.	3.4	28
10	Substrate promiscuity of polyketide synthase enables production of tsetse fly attractants 3-ethylphenol and 3-propylphenol by engineering precursor supply in yeast. Scientific Reports, 2020, 10, 9962.	3.3	4
11	Smart Molecular Nanosheets for Advanced Preparation of Biological Samples in Electron Cryo-Microscopy. ACS Nano, 2020, 14, 9972-9978.	14.6	14
12	Analysis of the co-translational assembly of the fungal fatty acid synthase (FAS). Scientific Reports, 2020, 10, 895.	3.3	18
13	The role of the iterative modules in polyketide synthase evolution. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8680-8682.	7.1	9
14	The resolution revolution in cryoEM requires high-quality sample preparation: a rapid pipeline to a high-resolution map of yeast fatty acid synthase. IUCrJ, 2020, 7, 220-227.	2.2	16
15	Engineering of Chimeric Polyketide Synthases Using SYNZIP Docking Domains. ACS Chemical Biology, 2019, 14, 426-433.	3.4	31
16	Fatty Acid Biosynthesis: Chainâ€Length Regulation and Control. ChemBioChem, 2019, 20, 2298-2321.	2.6	79
17	Probing the modularity of megasynthases by rational engineering of a fatty acid synthase Type I. Protein Science, 2019, 28, 414-428.	7.6	16
18	Comparative biochemical and structural analysis of the flavin-binding dodecins from Streptomyces davaonensis and Streptomyces coelicolor reveals striking differences with regard to multimerization. Microbiology (United Kingdom), 2019, 165, 1095-1106.	1.8	4

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19	Structure of the archaeal chemotaxis protein CheY in a domain-swapped dimeric conformation. Acta Crystallographica Section F, Structural Biology Communications, 2019, 75, 576-585.	0.8	10
20	Protein denaturation at the air-water interface and how to prevent it. ELife, 2019, 8, .	6.0	196
21	Flavin Storage and Sequestration by <i>Mycobacterium tuberculosis</i> Dodecin. ACS Infectious Diseases, 2018, 4, 1082-1092.	3.8	12
22	Characterization of the Polyspecific Transferase of Murine Type I Fatty Acid Synthase (FAS) and Implications for Polyketide Synthase (PKS) Engineering. ACS Chemical Biology, 2018, 13, 723-732.	3.4	39
23	Site-Specific Labelling of Multidomain Proteins by Amber Codon Suppression. Scientific Reports, 2018, 8, 14864.	3.3	8
24	Analysis and engineering of substrate shuttling by the acyl carrier protein (ACP) in fatty acid synthases (FASs). Chemical Communications, 2018, 54, 11606-11609.	4.1	19
25	Engineering strategies for rational polyketide synthase design. Natural Product Reports, 2018, 35, 1070-1081.	10.3	103
26	An engineered fatty acid synthase combined with a carboxylic acid reductase enables de novo production of 1-octanol in Saccharomyces cerevisiae. Biotechnology for Biofuels, 2018, 11, 150.	6.2	29
27	Characterization of the small flavin-binding dodecin in the roseoflavin producer Streptomyces davawensis. Microbiology (United Kingdom), 2018, 164, 908-919.	1.8	6
28	Expanding the product portfolio of fungal type I fatty acid synthases. Nature Chemical Biology, 2017, 13, 360-362.	8.0	97
29	Engineering fatty acid synthases for directed polyketide production. Nature Chemical Biology, 2017, 13, 363-365.	8.0	63
30	Engineering fungal de novo fatty acid synthesis for short chain fatty acid production. Nature Communications, 2017, 8, 14650.	12.8	117
31	Strategies in megasynthase engineering â€“ fatty acid synthases (FAS) as model proteins. Beilstein Journal of Organic Chemistry, 2017, 13, 1204-1211.	2.2	12
32	Cryoâ€EM structure of fatty acid synthase (FAS) from <i>Rhodosporidium toruloides</i> provides insights into the evolutionary development of fungal FAS. Protein Science, 2015, 24, 987-995.	7.6	28
33	Crystallization and X-ray diffraction studies of a complete bacterial fatty-acid synthase type I. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 1401-1407.	0.8	8
34	Multi-Ligand-Binding Flavoprotein Dodecin as a Key Element for Reversible Surface Modification in Nano-biotechnology. ACS Nano, 2015, 9, 3491-3500.	14.6	26
35	Modular Polyketide Synthases (PKSs): A New Model Fits All?. ChemBioChem, 2014, 15, 2489-2493.	2.6	15
36	Perspectives on the evolution, assembly and conformational dynamics of fatty acid synthase type I (FAS I) systems. Current Opinion in Structural Biology, 2014, 25, 49-56.	5.7	50

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37	Structure and Conformational Variability of the Mycobacterium tuberculosis Fatty Acid Synthase Multienzyme Complex. Structure, 2013, 21, 1251-1257.	3.3	39
38	The Flavoprotein Dodecin as a Redox Probe for Electron Transfer through DNA. Angewandte Chemie - International Edition, 2013, 52, 4950-4953.	13.8	12
39	Directed Manipulation of a Flavoprotein Photocycle. Angewandte Chemie - International Edition, 2013, 52, 8463-8466.	13.8	6
40	Ultrafast Excited-state Deactivation of Flavins Bound to Dodecin. Journal of Biological Chemistry, 2012, 287, 17637-17644.	3.4	24
41	Direct structural insight into the substrate-shuttling mechanism of yeast fatty acid synthase by electron cryomicroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9164-9169.	7.1	62
42	Mechanism of Substrate Shuttling by the Acyl-Carrier Protein within the Fatty Acid Mega-Synthase. Journal of the American Chemical Society, 2010, 132, 12357-12364.	13.7	38
43	Structural and Biochemical Characterization of a Halophilic Archaeal Alkaline Phosphatase. Journal of Molecular Biology, 2010, 400, 52-62.	4.2	22
44	Dodecin Is the Key Player in Flavin Homeostasis of Archaea. Journal of Biological Chemistry, 2009, 284, 13068-13076.	3.4	59
45	Multimeric Options for the Auto-Activation of the Saccharomyces cerevisiae FAS Type I Megasynthase. Structure, 2009, 17, 1063-1074.	3.3	44
46	Blueâ€Lightâ€Triggered Photorelease of Active Chemicals Captured by the Flavoprotein Dodecin. ChemBioChem, 2009, 10, 834-837.	2.6	16
47	Electrochemical switching of the flavoprotein dodecin at gold surfaces modified by flavin-DNA hybrid linkers. Biointerphases, 2008, 3, 51-58.	1.6	22
48	Inhibition of the fungal fatty acid synthase type I multienzyme complex. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12803-12808.	7.1	111
49	Dodecins: A Family of Lumichrome Binding Proteins. Journal of Molecular Biology, 2006, 357, 842-857.	4.2	50
50	Dodecin Sequesters FAD in Closed Conformation from the Aqueous Solution. Journal of Molecular Biology, 2006, 364, 561-566.	4.2	23
51	Parameters affecting the X-ray dose absorbed by macromolecular crystals. Journal of Synchrotron Radiation, 2005, 12, 268-275.	2.4	70
52	Expression, crystallization and crystallographic analysis of DegS, a stress sensor of the bacterial periplasm. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1429-1431.	2.5	5