

Jerome M Fox

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,106
citations

687363

13
h-index

610901

24
g-index

30
all docs

30
docs citations

30
times ranked

1931
citing authors

#	ARTICLE	IF	CITATIONS
1	Autocatalytic, bistable, oscillatory networks of biologically relevant organic reactions. <i>Nature</i> , 2016, 537, 656-660.	27.8	243
2	The Molecular Origin of Enthalpy/Entropy Compensation in Biomolecular Recognition. <i>Annual Review of Biophysics</i> , 2018, 47, 223-250.	10.0	130
3	A mechanistic model of the enzymatic hydrolysis of cellulose. <i>Biotechnology and Bioengineering</i> , 2010, 107, 37-51.	3.3	129
4	Initial- and Processive-Cut Products Reveal Cellobiohydrolase Rate Limitations and the Role of Companion Enzymes. <i>Biochemistry</i> , 2012, 51, 442-452.	2.5	93
5	Engineering Shadows to Fabricate Optical Metasurfaces. <i>ACS Nano</i> , 2014, 8, 11061-11070.	14.6	91
6	Interactions between Hofmeister Anions and the Binding Pocket of a Protein. <i>Journal of the American Chemical Society</i> , 2015, 137, 3859-3866.	13.7	89
7	A single-molecule analysis reveals morphological targets for cellulase synergy. <i>Nature Chemical Biology</i> , 2013, 9, 356-361.	8.0	69
8	A mechanistic model for rational design of optimal cellulase mixtures. <i>Biotechnology and Bioengineering</i> , 2011, 108, 2561-2570.	3.3	37
9	Evolutionarily Conserved Allosteric Communication in Protein Tyrosine Phosphatases. <i>Biochemistry</i> , 2018, 57, 6443-6451.	2.5	32
10	Water-Induced Restructuring Mutations Can Reverse the Thermodynamic Signature of Ligand Binding to Human Carbonic Anhydrase. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3833-3837.	13.8	28
11	Minimally disruptive optical control of protein tyrosine phosphatase 1B. <i>Nature Communications</i> , 2020, 11, 788.	12.8	27
12	Warning signals for eruptive events in spreading fires. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2378-2383.	7.1	21
13	Abietane-Type Diterpenoids Inhibit Protein Tyrosine Phosphatases by Stabilizing an Inactive Enzyme Conformation. <i>Biochemistry</i> , 2018, 57, 5886-5896.	2.5	20
14	Analysis of Interdependent Kinetic Controls of Fatty Acid Synthases. <i>ACS Catalysis</i> , 2018, 8, 11722-11734.	11.2	14
15	Optogenetic interrogation and control of cell signaling. <i>Current Opinion in Biotechnology</i> , 2020, 66, 195-206.	6.6	14
16	Microbially Guided Discovery and Biosynthesis of Biologically Active Natural Products. <i>ACS Synthetic Biology</i> , 2021, 10, 1505-1519.	3.8	11
17	An evaluation of cellulose saccharification and fermentation with an engineered <i>Saccharomyces cerevisiae</i> capable of cellobiose and xylose utilization. <i>Biotechnology Journal</i> , 2012, 7, 361-373.	3.5	10
18	Acetylation of Surface Lysine Groups of a Protein Alters the Organization and Composition of Its Crystal Contacts. <i>Journal of Physical Chemistry B</i> , 2016, 120, 6461-6468.	2.6	9

#	ARTICLE	IF	CITATIONS
19	A kinetic rationale for functional redundancy in fatty acid biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23557-23564.	7.1	9
20	Optogenetic Analysis of Allosteric Control in Protein Tyrosine Phosphatases. Biochemistry, 2021, 60, 254-258.	2.5	9
21	Kinetically guided, ratiometric tuning of fatty acid biosynthesis. Metabolic Engineering, 2022, 69, 209-220.	7.0	7
22	Water-Resolving Restructuring Mutations Can Reverse the Thermodynamic Signature of Ligand Binding to Human Carbonic Anhydrase. Angewandte Chemie, 2017, 129, 3891-3895.	2.0	6
23	Analysis of Three Architectures for Controlling PTP1B with Light. ACS Synthetic Biology, 2022, 11, 61-68.	3.8	5
24	Reply to Sullivan and Cruz: Defense of a simplified physical model. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4165-E4165.	7.1	1