

Nicholas F Polizzi

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,397
citations

516710

16
h-index

677142

22
g-index

23
all docs

23
docs citations

23
times ranked

2297
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochemistry and Theory of Proton-Coupled Electron Transfer. <i>Chemical Reviews</i> , 2014, 114, 3381-3465.	47.7	399
2	Charge Transfer in Dynamical Biosystems, or The Treachery of (Static) Images. <i>Accounts of Chemical Research</i> , 2015, 48, 474-481.	15.6	145
3	Physical constraints on charge transport through bacterial nanowires. <i>Faraday Discussions</i> , 2012, 155, 43-61.	3.2	139
4	Zinc-binding structure of a catalytic amyloid from solid-state NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6191-6196.	7.1	102
5	De novo design of a hyperstable non-natural protein-ligand complex with sub-Å... accuracy. <i>Nature Chemistry</i> , 2017, 9, 1157-1164.	13.6	93
6	Inhibitors of the M2 Proton Channel Engage and Disrupt Transmembrane Networks of Hydrogen-Bonded Waters. <i>Journal of the American Chemical Society</i> , 2018, 140, 15219-15226.	13.7	87
7	A defined structural unit enables de novo design of small-molecule-binding proteins. <i>Science</i> , 2020, 369, 1227-1233.	12.6	64
8	Genetically Introducing Biochemically Reactive Amino Acids Dehydroalanine and Dehydrobutyrine in Proteins. <i>Journal of the American Chemical Society</i> , 2019, 141, 7698-7703.	13.7	56
9	Mean First-Passage Times in Biology. <i>Israel Journal of Chemistry</i> , 2016, 56, 816-824.	2.3	54
10	Where Is the Electronic Oscillator Strength? Mapping Oscillator Strength across Molecular Absorption Spectra. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1933-1943.	2.5	38
11	Inhibitor binding mode and allosteric regulation of Na ⁺ -glucose symporters. <i>Nature Communications</i> , 2018, 9, 5245.	12.8	35
12	Allosteric cooperation in a de novo-designed two-domain protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33246-33253.	7.1	35
13	Defusing redox bombs?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10821-10822.	7.1	30
14	Molecular Road Map to Tuning Ground State Absorption and Excited State Dynamics of Long-Wavelength Absorbers. <i>Journal of the American Chemical Society</i> , 2017, 139, 16946-16958.	13.7	30
15	Photoinduced Electron Transfer Elicits a Change in the Static Dielectric Constant of a <i>de Novo</i> Designed Protein. <i>Journal of the American Chemical Society</i> , 2016, 138, 2130-2133.	13.7	22
16	X-ray Crystal Structure of the Influenza A M2 Proton Channel S31N Mutant in Two Conformational States: An Open and Shut Case. <i>Journal of the American Chemical Society</i> , 2019, 141, 11481-11488.	13.7	22
17	Engineering High-Potential Photo-oxidants with Panchromatic Absorption. <i>Journal of the American Chemical Society</i> , 2017, 139, 8412-8415.	13.7	10
18	Excitation energy-dependent photocurrent switching in a single-molecule photodiode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16198-16203.	7.1	10

#	ARTICLE	IF	CITATIONS
19	Engineering opposite electronic polarization of singlet and triplet states increases the yield of high-energy photoproducts. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14465-14470.	7.1	10
20	Allosteric mechanism of signal transduction in the two-component system histidine kinase PhoQ. ELife, 2021, 10, .	6.0	7
21	Modulating Integrin β 3 Activity through Mutagenesis of Allosterically Regulated Intersubunit Contacts. Biochemistry, 2019, 58, 3251-3259.	2.5	6
22	Open-Access, Interactive Explorations for Teaching and Learning Quantum Dynamics. Journal of Chemical Education, 2015, 92, 2161-2164.	2.3	3