Nicholas F Polizzi

List of Publications by Year
in descending order

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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	Allosteric mechanism of signal transduction in the two-component system histidine kinase PhoQ. ELife, 2021, 10, .	6.0	7
2	A defined structural unit enables de novo design of small-moleculeâ€“binding proteins. Science, 2020, 369, 1227-1233.	12.6	64
3	Allosteric cooperation in a de novo-designed two-domain protein. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 33246-33253.	7.1	35
4	Excitation energy-dependent photocurrent switching in a single-molecule photodiode. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16198-16203.	7.1	10
5	Modulating Integrin Î±IIbÎ²3 Activity through Mutagenesis of Allosterically Regulated Intersubunit Contacts. Biochemistry, 2019, 58, 3251-3259.	2.5	6
6	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
7	X-ray Crystal Structure of the Influenza A M2 Proton Channel S31N Mutant in Two Conformational States: An Open and Shut Case. Journal of the American Chemical Society, 2019, 141, 11481-11488.	13.7	22
8	Genetically Introducing Biochemically Reactive Amino Acids Dehydroalanine and Dehydrobutyrine in Proteins. Journal of the American Chemical Society, 2019, 141, 7698-7703.	13.7	56
9	Inhibitor binding mode and allosteric regulation of Na+-glucose symporters. Nature Communications, 2018, 9, 5245.	12.8	35
10	Inhibitors of the M2 Proton Channel Engage and Disrupt Transmembrane Networks of Hydrogen-Bonded Waters. Journal of the American Chemical Society, 2018, 140, 15219-15226.	13.7	87
11	Zinc-binding structure of a catalytic amyloid from solid-state NMR. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6191-6196.	7.1	102
12	Engineering High-Potential Photo-oxidants with Panchromatic Absorption. Journal of the American Chemical Society, 2017, 139, 8412-8415.	13.7	10
13	Molecular Road Map to Tuning Ground State Absorption and Excited State Dynamics of Long-Wavelength Absorbers. Journal of the American Chemical Society, 2017, 139, 16946-16958.	13.7	30
14	De novo design of a hyperstable non-natural proteinâ€“ligand complex with sub-Ã… accuracy. Nature Chemistry, 2017, 9, 1157-1164.	13.6	93
15	Mean Firstâ€Passage Times in Biology. Israel Journal of Chemistry, 2016, 56, 816-824.	2.3	54
16	Photoinduced Electron Transfer Elicits a Change in the Static Dielectric Constant of a de Novo Designed Protein. Journal of the American Chemical Society, 2016, 138, 2130-2133.	13.7	22
17	Where Is the Electronic Oscillator Strength? Mapping Oscillator Strength across Molecular Absorption Spectra. Journal of Physical Chemistry A, 2016, 120, 1933-1943.	2.5	38
18	Open-Access, Interactive Explorations for Teaching and Learning Quantum Dynamics. Journal of Chemical Education, 2015, 92, 2161-2164.	2.3	3

#	Article	IF	Citations
19	Defusing redox bombs?. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10821-10822.	7.1	30
20	Charge Transfer in Dynamical Biosystems, or The Treachery of (Static) Images. Accounts of Chemical Research, 2015, 48, 474-481.	15.6	145
21	Biochemistry and Theory of Proton-Coupled Electron Transfer. Chemical Reviews, 2014, 114, 3381-3465.	47.7	399
22	Physical constraints on charge transport through bacterial nanowires. Faraday Discussions, 2012, 155, 43-61.	3.2	139