

Nicolas P D Sawaya

List of Publications by Year in descending order

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16
papers

1,472
citations

687363

13
h-index

996975

15
g-index

17
all docs

17
docs citations

17
times ranked

1437
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Chemistry in the Age of Quantum Computing. <i>Chemical Reviews</i> , 2019, 119, 10856-10915.	47.7	748
2	OpenFermion: the electronic structure package for quantum computers. <i>Quantum Science and Technology</i> , 2020, 5, 034014.	5.8	214
3	Programmed coherent coupling in a synthetic DNA-based excitonic circuit. <i>Nature Materials</i> , 2018, 17, 159-166.	27.5	106
4	Resource-efficient digital quantum simulation of d-level systems for photonic, vibrational, and spin-s Hamiltonians. <i>Npj Quantum Information</i> , 2020, 6, .	6.7	74
5	Temperature-dependent conformations of exciton-coupled Cy3 dimers in double-stranded DNA. <i>Journal of Chemical Physics</i> , 2018, 148, 085101.	3.0	58
6	Intel Quantum Simulator: a cloud-ready high-performance simulator of quantum circuits. <i>Quantum Science and Technology</i> , 2020, 5, 034007.	5.8	55
7	Quantum Algorithm for Calculating Molecular Vibronic Spectra. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3586-3591.	4.6	39
8	qTorch: The quantum tensor contraction handler. <i>PLoS ONE</i> , 2018, 13, e0208510.	2.5	31
9	Fast Delocalization Leads To Robust Long-Range Excitonic Transfer in a Large Quantum Chlorosome Model. <i>Nano Letters</i> , 2015, 15, 1722-1729.	9.1	29
10	Error Sensitivity to Environmental Noise in Quantum Circuits for Chemical State Preparation. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 3097-3108.	5.3	27
11	Excitonics: A Set of Gates for Molecular Exciton Processing and Signaling. <i>ACS Nano</i> , 2018, 12, 6410-6420.	14.6	26
12	Coherent Dynamics of Mixed Frenkel and Charge-Transfer Excitons in Dinaphtho[2,3- <i>b</i> :2'- <i>f</i>]thieno[3,2- <i>b</i>]-thiophene Thin Films: The Importance of Hole Delocalization. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1374-1380.	4.6	24
13	Near- and long-term quantum algorithmic approaches for vibrational spectroscopy. <i>Physical Review A</i> , 2021, 104, .	2.5	17
14	Quantum Computer-Aided Design: Digital Quantum Simulation of Quantum Processors. <i>Physical Review Applied</i> , 2021, 16, .	3.8	12
15	Analog Quantum Simulation of Non-Condon Effects in Molecular Spectroscopy. <i>ACS Photonics</i> , 2021, 8, 2007-2016.	6.6	8
16	On connectivity-dependent resource requirements for digital quantum simulation of d-level particles. , 2020, , .		2