

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