

Barbara Fresch

List of Publications by Year in descending order

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papers

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Strategies to simulate dephasing-assisted quantum transport on digital quantum computers. <i>New Journal of Physics</i> , 2022, 24, 023039.	2.9	4
2	The tunneling splitting and the Kramers theory of activated processes. <i>Chemical Physics</i> , 2022, 561, 111608.	1.9	1
3	Quantum computing for classical problems: variational quantum eigensolver for activated processes. <i>New Journal of Physics</i> , 2021, 23, 123045.	2.9	5
4	Spectral shift, electronic coupling and exciton delocalization in nanocrystal dimers: insights from all-atom electronic structure computations. <i>Nanoscale</i> , 2020, 12, 18124-18136.	5.6	6
5	Chirality of a rhodamine heterodimer linked to a DNA scaffold: an experimental and computational study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7516-7523.	2.8	2
6	Coherent Exciton Dynamics in Ensembles of Size-Dispersed CdSe Quantum Dot Dimers Probed via Ultrafast Spectroscopy: A Quantum Computational Study. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1328.	2.5	12
7	Stability of antibacterial Te(IV) compounds: A combined experimental and computational study. <i>Journal of Inorganic Biochemistry</i> , 2019, 198, 110719.	3.5	4
8	Effect of Different Conformational Distributions on the Ultrafast Coherence Dynamics in Porphyrin-Based Polymers. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10212-10224.	3.1	10
9	An n-Bit Adder Realized via Coherent Optical Parallel Computing. , 2019, , .		0
10	Signatures of Anderson localization and delocalized random quantum states. <i>Chemical Physics</i> , 2018, 514, 141-149.	1.9	1
11	Fast Energy Transfer in CdSe Quantum Dot Layered Structures: Controlling Coupling with Covalent-Bond Organic Linkers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5753-5758.	3.1	22
12	Multivalued Logic at the Nanoscale. <i>Natural Computing Series</i> , 2018, , 295-318.	2.2	4
13	A Probabilistic Finite State Logic Machine Realized Experimentally on a Single Dopant Atom. <i>Nano Letters</i> , 2017, 17, 1846-1852.	9.1	9
14	Implementation of Multivariable Logic Functions in Parallel by Electrically Addressing a Molecule of Three Dopants in Silicon. <i>ChemPhysChem</i> , 2017, 18, 1790-1797.	2.1	3
15	Implementation of Probabilistic Algorithms by Multi-Chromophoric Molecular Networks with Application to Multiple Travelling Pathways. <i>ChemPhysChem</i> , 2017, 18, 1782-1789.	2.1	2
16	A Cu(II) complex targeting the translocator protein: in vitro and in vivo antitumor potential and mechanistic insights. <i>Chemical Communications</i> , 2017, 53, 134-137.	4.1	30
17	Thermal Pure States for Finite and Isolated Quantum Systems. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7261-7272.	2.5	1
18	Coherent electronic and nuclear dynamics in a rhodamine heterodimer-DNA supramolecular complex. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23043-23051.	2.8	24

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19	Force measurements reveal how small binders perturb the dissociation mechanisms of DNA duplex sequences. <i>Nanoscale</i> , 2016, 8, 11718-11726.	5.6	11
20	Quantum Statistical Ensemble Resilient to Thermalization. <i>Journal of Physical Chemistry A</i> , 2016, 120, 5071-5082.	2.5	1
21	Pilot-Wave Quantum Theory with a Single Bohm's Trajectory. <i>Foundations of Physics</i> , 2016, 46, 575-605.	1.3	4
22	Electronic coherences in rhodamine dimers: vibronic coupling and distance dependence. , 2016, , .		0
23	Information processing in parallel through directionally resolved molecular polarization components in coherent multidimensional spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 143, 064106.	3.0	10
24	Charge Redistribution Effects on the UV-Vis Spectra of Small Ligated Gold Clusters: a Computational Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10969-10980.	3.1	33
25	Parallel and Multivalued Logic by the Two-Dimensional Photon-Echo Response of a Rhodamine-DNA Complex. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1714-1718.	4.6	26
26	Atomistic account of structural and dynamical changes induced by small binders in the double helix of a short DNA. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14070-14082.	2.8	17
27	Tuning the Properties of Pd Nanoclusters by Ligand Coatings: Electronic Structure Computations on Phosphine, Thiol, and Mixed Phosphine-Thiol Ligand Shells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9790-9800.	3.1	20
28	Ligand and Solvation Effects on the Structural and Electronic Properties of Small Gold Clusters. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4362-4376.	3.1	34
29	Molecular decision trees realized by ultrafast electronic spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17183-17188.	7.1	26
30	Reactivity of Auranofin with Selenols and Thiols – Implications for the Anticancer Activity of Gold(I) Compounds. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2718-2727.	2.0	25
31	Typical response of quantum pure states. <i>European Physical Journal B</i> , 2013, 86, 1.	1.5	10
32	Magnetostructural effects in ligand stabilized Pd ₁₃ clusters: a density functional theory study. <i>Nanoscale</i> , 2012, 4, 4138.	5.6	17
33	Interplay of structural and electronic stabilizing factors in neutral and cationic phosphine protected Au ₁₃ clusters. <i>European Physical Journal D</i> , 2012, 66, 1.	1.3	16
34	Querying a quasi-classical Oracle: One-bit function identification problem implemented in a single atom transistor. <i>Europhysics Letters</i> , 2012, 99, 28004.	2.0	2
35	Beyond quantum microcanonical statistics. <i>Journal of Chemical Physics</i> , 2011, 134, 054510.	3.0	9
36	Emergence of equilibrium thermodynamic properties in quantum pure states. II. Analysis of a spin model system. <i>Journal of Chemical Physics</i> , 2010, 133, 034510.	3.0	15

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37	Emergence of equilibrium thermodynamic properties in quantum pure states. I. Theory. Journal of Chemical Physics, 2010, 133, 034509.	3.0	15
38	Typicality in Ensembles of Quantum States: Monte Carlo Sampling versus Analytical Approximations. Journal of Physical Chemistry A, 2009, 113, 14502-14513.	2.5	20
39	Collective Fluctuations in Ordered Fluids Investigated by Two-Dimensional Electron-Electron Double Resonance Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 24238-24254.	2.6	6