

Alexander Eisfeld

List of Publications by Year in descending order

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69
papers

2,665
citations

159585

30
h-index

182427

51
g-index

69
all docs

69
docs citations

69
times ranked

2637
citing authors

#	ARTICLE	IF	CITATIONS
1	Excitation dynamics in polyacene molecules on rare-gas clusters. <i>Journal of Chemical Physics</i> , 2022, 156, 034305.	3.0	3
2	Non-Markovian stochastic Schrödinger equation: Matrix-product-state approach to the hierarchy of pure states. <i>Physical Review A</i> , 2022, 105, .	2.5	9
3	Simulation of absorption spectra of molecular aggregates: A hierarchy of stochastic pure state approach. <i>Journal of Chemical Physics</i> , 2022, 156, 124109.	3.0	4
4	Gaussian process regression for absorption spectra analysis of molecular dimers. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 275, 121091.	3.9	2
5	Tailoring Bose-Einstein-condensate environments for a Rydberg impurity. <i>Physical Review A</i> , 2021, 103, .	2.5	5
6	Coherently delocalized states in dipole interacting Rydberg ensembles: The role of internal degeneracies. <i>Physical Review A</i> , 2021, 104, .	2.5	2
7	Fano resonances in quantum transport with vibrations. <i>Physical Review A</i> , 2021, 104, .	2.5	1
8	Near-field scanning optical microscopy of molecular aggregates: The role of light polarization. <i>Journal of Chemical Physics</i> , 2021, 155, 134701.	3.0	0
9	Imaging the interface of a qubit and its quantum-many-body environment. <i>Physical Review A</i> , 2021, 104, .	2.5	2
10	Extended Coherently Delocalized States in a Frozen Rydberg Gas. <i>Physical Review Letters</i> , 2020, 124, 193401.	7.8	9
11	Two-dimensional spectroscopy of Rydberg gases. <i>New Journal of Physics</i> , 2020, 22, 073040.	2.9	1
12	Delocalization in two and three-dimensional Rydberg gases. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 124003.	1.5	3
13	Excitonic Wave Function Reconstruction from Near-Field Spectra Using Machine Learning Techniques. <i>Physical Review Letters</i> , 2019, 123, 163202.	7.8	13
14	Delocalized excitons and interaction effects in extremely dilute thermal ensembles. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2276-2282.	2.8	31
15	Charge and energy transfer in large molecular assemblies: Quantum state diffusion with an adaptive basis. <i>Journal of Chemical Physics</i> , 2019, 150, 234115.	3.0	8
16	Flexible scheme to truncate the hierarchy of pure states. <i>Journal of Chemical Physics</i> , 2018, 148, 134103.	3.0	11
17	Dye Aggregates in Luminescent Solar Concentrators. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700634.	1.8	6
18	Near-Field Spectroscopy of Nanoscale Molecular Aggregates. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6003-6010.	4.6	13

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19	Gaussian processes for choosing laser parameters for driven, dissipative Rydberg aggregates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 205003.	1.5	4
20	Hierarchy of equations to calculate the linear spectra of molecular aggregates: Time-dependent and frequency domain formulation. <i>International Journal of Quantum Chemistry</i> , 2017, 117, e25386.	2.0	3
21	Singlet Fission in Weakly Interacting Acene Molecules. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2068-2073.	4.6	16
22	Emulation of complex open quantum systems using superconducting qubits. <i>Quantum Information Processing</i> , 2017, 16, 1.	2.2	23
23	Superradiance from Two Dimensional Brick-Wall Aggregates of Dye Molecules: The Role of Size and Shape for the Temperature Dependence. <i>Physical Review Letters</i> , 2017, 119, 097402.	7.8	30
24	Probing weak dipole-dipole interaction using phase-modulated nonlinear spectroscopy. <i>Physical Review A</i> , 2017, 95, .	2.5	16
25	Closures of the functional expansion hierarchy in the non-Markovian quantum state diffusion approach. <i>Journal of Chemical Physics</i> , 2017, 147, 064113.	3.0	8
26	Tuning Nonradiative Lifetimes via Molecular Aggregation. <i>Journal of Physical Chemistry A</i> , 2017, 121, 5948-5953.	2.5	7
27	Non-Perturbative Calculation of Two-Dimensional Spectra Using the Stochastic Hierarchy of Pure States. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4488-4494.	4.6	15
28	Non-Markovian dynamics in ultracold Rydberg aggregates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 134001.	1.5	9
29	Pseudomodes and the corresponding transformation of the temperature-dependent bath correlation function. <i>Physical Review A</i> , 2015, 91, .	2.5	9
30	Cooperative lifetime reduction of single acene molecules attached to the surface of neon clusters. <i>Physical Review B</i> , 2015, 92, .	3.2	11
31	Quantum Simulation of Energy Transport with Embedded Rydberg Aggregates. <i>Physical Review Letters</i> , 2015, 114, 123005.	7.8	51
32	Non-Markovian Quantum State Diffusion for temperature-dependent linear spectra of light harvesting aggregates. <i>Journal of Chemical Physics</i> , 2015, 142, 034115.	3.0	42
33	Hierarchical Equations for Open System Dynamics in Fermionic and Bosonic Environments. <i>Journal of Statistical Physics</i> , 2015, 159, 1408-1423.	1.2	39
34	Extended quantum jump description of vibronic two-dimensional spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 142, 212440.	3.0	12
35	Open quantum system parameters for light harvesting complexes from molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25629-25641.	2.8	28
36	Tunable superradiance in porphyrin chains on insulating surfaces. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 305301.	2.8	11

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37	Analytic representations of bath correlation functions for ohmic and superohmic spectral densities using simple poles. <i>Journal of Chemical Physics</i> , 2014, 141, 094101.	3.0	49
38	Hierarchy of Stochastic Pure States for Open Quantum System Dynamics. <i>Physical Review Letters</i> , 2014, 113, 150403.	7.8	145
39	Finite size line broadening and superradiance of optical transitions in two dimensional long-range ordered molecular aggregates. <i>Journal of Chemical Physics</i> , 2013, 139, 044302.	3.0	45
40	Quantum dynamics simulation with classical oscillators. <i>Physical Review A</i> , 2013, 88, .	2.5	20
41	Photonics meets excitonics: natural and artificial molecular aggregates. <i>Nanophotonics</i> , 2013, 2, 21-38.	6.0	195
42	Breakup of Rydberg-blockaded atom clouds via dipole-dipole interactions. <i>Physical Review A</i> , 2013, 88, .	2.5	16
43	On-chip non-reciprocal optical devices based on quantum inspired photonic lattices. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	41
44	On the alternatives for bath correlators and spectral densities from mixed quantum-classical simulations. <i>Journal of Chemical Physics</i> , 2012, 137, 224103.	3.0	121
45	Accounting for intra-molecular vibrational modes in open quantum system description of molecular systems. <i>Journal of Chemical Physics</i> , 2012, 137, 204110.	3.0	45
46	Quantum simulator of an open quantum system using superconducting qubits: exciton transport in photosynthetic complexes. <i>New Journal of Physics</i> , 2012, 14, 105013.	2.9	79
47	Coherent quantum states from classical oscillator amplitudes. <i>Physical Review A</i> , 2012, 85, .	2.5	33
48	Classical master equation for excitonic transport under the influence of an environment. <i>Physical Review E</i> , 2012, 85, 046118.	2.1	34
49	Equivalence of quantum and classical coherence in electronic energy transfer. <i>Physical Review E</i> , 2011, 83, 051911.	2.1	80
50	Non-Markovian quantum state diffusion for absorption spectra of molecular aggregates. <i>Journal of Chemical Physics</i> , 2011, 134, 034902.	3.0	46
51	Absence of Quantum Oscillations and Dependence on Site Energies in Electronic Excitation Transfer in the Fenna-Matthews-Olson Trimer. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2912-2917.	4.6	83
52	Excitation transport through Rydberg dressing. <i>New Journal of Physics</i> , 2011, 13, 073044.	2.9	49
53	Adiabatic entanglement transport in Rydberg aggregates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 184011.	1.5	29
54	Phase directed excitonic transport and its limitations due to environmental influence. <i>Chemical Physics</i> , 2011, 379, 33-38.	1.9	8

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55	The influence of geometry on the vibronic spectra of quantum aggregates. <i>Journal of Luminescence</i> , 2011, 131, 2555-2564.	3.1	4
56	An efficient method to calculate excitation energy transfer in light-harvesting systems: application to the Fenna-Matthews-Olson complex. <i>New Journal of Physics</i> , 2011, 13, 113034.	2.9	75
57	Conical Intersections in an Ultracold Gas. <i>Physical Review Letters</i> , 2011, 106, 153002.	7.8	41
58	Vibronic line shapes of PTCDA oligomers in helium nanodroplets. <i>Journal of Chemical Physics</i> , 2011, 134, 054907.	3.0	44
59	Anomalous strong exchange narrowing in excitonic systems. <i>Journal of Chemical Physics</i> , 2011, 134, 034901.	3.0	5
60	SPECTRAL PROPERTIES OF MOLECULAR OLIGOMERS: A NON-MARKOVIAN QUANTUM STATE DIFFUSION APPROACH. <i>International Journal of Modern Physics B</i> , 2010, 24, 5060-5067.	2.0	13
61	Newton's Cradle and Entanglement Transport in a Flexible Rydberg Chain. <i>Physical Review Letters</i> , 2010, 105, 053004.	7.8	70
62	Influence of Complex Exciton-Phonon Coupling on Optical Absorption and Energy Transfer of Quantum Aggregates. <i>Physical Review Letters</i> , 2009, 103, 058301.	7.8	92
63	Electronic energy transfer on a vibronically coupled quantum aggregate. <i>Journal of Chemical Physics</i> , 2009, 131, 044909.	3.0	43
64	Exchange narrowing of the J band of molecular dye aggregates. <i>Journal of Chemical Physics</i> , 2008, 128, 044505.	3.0	71
65	Motion of Rydberg atoms induced by resonant dipole-dipole interactions. <i>New Journal of Physics</i> , 2008, 10, 045030.	2.9	49
66	Theory of the absorption and circular dichroism spectra of helical molecular aggregates. <i>Journal of Chemical Physics</i> , 2007, 126, 104904.	3.0	46
67	The J- and H-bands of organic dye aggregates. <i>Chemical Physics</i> , 2006, 324, 376-384.	1.9	367
68	Vibronic energies and spectra of molecular dimers. <i>Journal of Chemical Physics</i> , 2005, 122, 134103.	3.0	74
69	The J-band of organic dyes: lineshape and coherence length. <i>Chemical Physics</i> , 2002, 281, 61-70.	1.9	96