Tobias Kramer

List of Publications by Year
in descending order

51 papers	1,469 citations	430874 18 h-index	315739 38 g-index
55 all docs	55 docs citations	55 times ranked	1319 citing authors

#	Article	IF	Citations
1	Long-Lived Electronic Coherence in Dissipative Exciton Dynamics of Light-Harvesting Complexes. Journal of Physical Chemistry Letters, 2012, 3, 2828-2833.	4.6	203
2	High-Performance Solution of Hierarchical Equations of Motion for Studying Energy Transfer in Light-Harvesting Complexes. Journal of Chemical Theory and Computation, 2011, 7, 2166-2174.	5.3	153
3	Imaging magnetic focusing of coherent electron waves. Nature Physics, 2007, 3, 464-468.	16.7	135
4	Modelling of oscillations in two-dimensional echo-spectra of the Fennaâ€“Matthewsâ€“Olson complex. New Journal of Physics, 2012, 14, 023018.	2.9	108
5	Scalable High-Performance Algorithm for the Simulation of Exciton Dynamics. Application to the Light-Harvesting Complex II in the Presence of Resonant Vibrational Modes. Journal of Chemical Theory and Computation, 2014, 10, 4045-4054.	5.3	103
6	Challenges facing an understanding of the nature of low-energy excited states in photosynthesis. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1627-1640.	1.0	74
7	Revivals of quantum wave packets in graphene. New Journal of Physics, 2009, 11, 093010.	2.9	56
8	Disentangling Electronic and Vibronic Coherences in Two-Dimensional Echo Spectra. Journal of Physical Chemistry B, 2013, 117, 9380-9385.	2.6	55
9	Electron dynamics in parallel electric and magnetic fields. Physical Review A, 2006, 73, .	2.5	44
10	The gas production of 14 species from comet 67P/Churyumovâ€“Gerasimenko based on DFMS/COPS data from 2014 to 2016. Monthly Notices of the Royal Astronomical Society, 2020, 498, 3995-4004.	4.4	39
11	Ballistic matter waves with angular momentum: Exact solutions and applications. Physical Review A, 2003, 67, .	2.5	34
12	Seasonal changes of the volatile density in the coma and on the surface of comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S20-S28.	4.4	33
13	Surface localization of gas sources on comet 67P/Churyumov-Gerasimenko based on DFMS/COPS data. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	33
14	Efficient calculation of open quantum system dynamics and timeâ€resolved spectroscopy with distributed memory HEOM (DMâ€HEOM). Journal of Computational Chemistry, 2018, 39, 1779-1794.	3.3	31
15	Observed photodetachment in parallel electric and magnetic fields. Physical Review A, 2003, 68, .	2.5	25
16	Machine learning of two-dimensional spectroscopic data. Chemical Physics, 2019, 520, 52-60.	1.9	22
17	Energy flow in the Photosystem I supercomplex: Comparison of approximative theories with DM-HEOM. Chemical Physics, 2018, 515, 262-271.	1.9	21
18	The photoelectric effect in external fields. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 347, 62-66.	2.1	19

#	Article	IF	Citations
19	Branched flow. Physics Today, 2021, 74, 44-51.	0.3	19
20	Wave packet approach to transport in mesoscopic systems. Physica Scripta, 2010, 82, 038101.	2.5	18
21	Phase shifts and phase<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ï€</mml:mi></mml:math>jumps in four-terminal waveguide Aharonov-Bohm interferometers. Physical Review B, 2010, 82, .	3.2	18
22	PREVAILING DUST-TRANSPORT DIRECTIONS ON COMET 67P/CHURYUMOVâ€“GERASIMENKO. Astrophysical Journal Letters, 2015, 813, L33.	8.3	18
23	ON THE ORIGIN OF INNER COMA STRUCTURES OBSERVED BY ROSETTA DURING A DIURNAL ROTATION OF COMET 67P/CHURYUMOVâ€“GERASIMENKO. Astrophysical Journal Letters, 2016, 823, L11.	8.3	16
24	Exact stochastic unraveling of an optical coherence dynamics by cumulant expansion. Journal of Chemical Physics, 2014, 141, 164109.	3.0	15
25	Modeling of Transient Absorption Spectra in Excitonâ€“Charge-Transfer Systems. Journal of Physical Chemistry B, 2017, 121, 463-470.	2.6	15
26	Outgassing-induced acceleration of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A4.	5.1	15
27	Quantum theory of an atom laser originating from a Bose-Einstein condensate or a Fermi gas in the presence of gravity. Physical Review A, 2006, 74, .	2.5	14
28	Self-consistent calculation of electric potentials in Hall devices. Physical Review B, 2010, 81, .	3.2	14
29	Theory of the quantum Hall effect in finite graphene devices. Physical Review B, 2010, 81, .	3.2	13
30	Two-dimensional electronic spectra of the photosynthetic apparatus of green sulfur bacteria. Scientific Reports, 2017, 7, 45245.	3.3	13
31	A HEURISTIC QUANTUM THEORY OF THE INTEGER QUANTUM HALL EFFECT. International Journal of Modern Physics B, 2006, 20, 1243-1260.	2.0	11
32	Spectra of harmonium in a magnetic field using an initial value representation of the semiclassical propagator. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 445309.	2.1	10
33	Comet 67P/Churyumov-Gerasimenko rotation changes derived from sublimation-induced torques. Astronomy and Astrophysics, 2019, 630, A3.	5.1	9
34	Modelling excitonic-energy transfer in light-harvesting complexes. , 2014, , .		8
35	Dust and gas emission from cometary nuclei: the case of comet 67P/Churyumovâ€“Gerasimenko. Advances in Physics: X, 2018, 3, 1404436.	4.1	8
36	Tunnelling out of a time-dependent well. Journal of Physics A, 2005, 38, 5993-6003.	1.6	6

#	Article	IF	Citations
37	Two interacting electrons in a magnetic field: comparison of semiclassical, quantum, and variational solutions. , 2010, , .		6
38	Time-dependent approach to transport and scattering in atomic and mesoscopic physics. , 2011, , .		6
39	Use of Lambertâ€™s theorem for then-dimensional Coulomb problem. Physical Review A, 2009, 80, .	2.5	5
40	DM-HEOM: A Portable and Scalable Solver-Framework for the Hierarchical Equations of Motion. , 2018, , .		5
41	Effect of disorder and polarization sequences on two-dimensional spectra of light-harvesting complexes. Photosynthesis Research, 2020, 144, 147-154.	2.9	5
42	Interacting electrons in a magnetic field in a center-of-mass free basis. Physica Scripta, 2015, 90, 074014.	2.5	4
43	The Ice Composition Close to the Surface of Comet 67P/Churyumov-Gerasimenko. ACS Earth and Space Chemistry, 2022, 6, 1189-1203.	2.7	4
44	Thermal energy and charge currents in multi-terminal nanorings. AIP Advances, 2016, 6, 065306.	1.3	2
45	Fluctuations in the spectra of open few-body systems. New Journal of Physics, 2011, 13, 063033.	2.9	1
46	Interacting electrons in a magnetic field: Mapping quantum mechanics to a classical ersatz-system. , 2012, , .		1
47	Aid workers fear impending disaster in Basra. Nature, 2003, 422, 459-459.	27.8	0
48	Making the move from physics to finance. Nature, 2003, 425, 220-221.	27.8	0
49	Comment on â€œScreening model of metallic nonideal contacts in the integer quantized Hall regimeâ€• Physical Review B, 2011, 84, .	3.2	0
50	The 395th Wilhelm and Else Heraeus Seminar: `Time-dependent phenomena in Quantum Mechanics'. Journal of Physics: Conference Series, 2008, 99, 011001.	0.4	0
51	Transient capture of electrons in magnetic fields, or: comets in the restricted three-body problem. Journal of Physics: Conference Series, 2020, 1612, 012019.	0.4	0