

Thomas Bartsch

List of Publications by Year in descending order

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35
papers

713
citations

516561

16
h-index

526166

27
g-index

36
all docs

36
docs citations

36
times ranked

184
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition State in a Noisy Environment. <i>Physical Review Letters</i> , 2005, 95, 058301.	2.9	75
2	Transition state theory in liquids beyond planar dividing surfaces. <i>Chemical Physics</i> , 2010, 370, 270-276.	0.9	68
3	Stochastic transition states: Reaction geometry amidst noise. <i>Journal of Chemical Physics</i> , 2005, 123, 204102.	1.2	57
4	Transition state theory for laser-driven reactions. <i>Journal of Chemical Physics</i> , 2007, 126, 164306.	1.2	52
5	Identifying reactive trajectories using a moving transition state. <i>Journal of Chemical Physics</i> , 2006, 124, 244310.	1.2	47
6	Transition state geometry of driven chemical reactions on time-dependent double-well potentials. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 30270-30281.	1.3	37
7	Chemical reactions induced by oscillating external fields in weak thermal environments. <i>Journal of Chemical Physics</i> , 2015, 142, 074108.	1.2	28
8	Communication: Transition state trajectory stability determines barrier crossing rates in chemical reactions induced by time-dependent oscillating fields. <i>Journal of Chemical Physics</i> , 2014, 141, 041106.	1.2	27
9	Chaotic dynamics in multidimensional transition states. <i>Journal of Chemical Physics</i> , 2012, 137, 214310.	1.2	23
10	Persistence of transition-state structure in chemical reactions driven by fields oscillating in time. <i>Physical Review E</i> , 2014, 89, 040801.	0.8	23
11	Invariant Manifolds and Rate Constants in Driven Chemical Reactions. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2070-2086.	1.2	23
12	Transition-State Theory Rate Calculations with a Recrossing-Free Moving Dividing Surface. <i>Journal of Physical Chemistry B</i> , 2008, 112, 206-212.	1.2	22
13	Transition state theory for activated systems with driven anharmonic barriers. <i>Journal of Chemical Physics</i> , 2017, 147, 074104.	1.2	19
14	Semiclassical quantization of the hydrogen atom in crossed electric and magnetic fields. <i>Physical Review A</i> , 2003, 67, .	1.0	18
15	Reaction rate calculation with time-dependent invariant manifolds. <i>Journal of Chemical Physics</i> , 2012, 136, 224510.	1.2	18
16	Extracting Multidimensional Phase Space Topology from Periodic Orbits. <i>Physical Review Letters</i> , 2006, 97, 104101.	2.9	16
17	Communication: Transition state theory for dissipative systems without a dividing surface. <i>Journal of Chemical Physics</i> , 2012, 136, 091102.	1.2	14
18	Closed orbits and their bifurcations in the crossed-field hydrogen atom. <i>Physical Review A</i> , 2003, 67, .	1.0	13

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19	Hydrogen atom in crossed electric and magnetic fields: Phase space topology and torus quantization via periodic orbits. <i>Physical Review A</i> , 2007, 75, .	1.0	12
20	Phase-space geometry of the generalized Langevin equation. <i>Journal of Chemical Physics</i> , 2009, 131, 124121.	1.2	11
21	Significance of ghost orbit bifurcations in semiclassical spectra. <i>Journal of Physics A</i> , 1999, 32, 3013-3027.	1.6	10
22	Symmetry-breaking thermally induced collapse of dipolar Bose-Einstein condensates. <i>Physical Review A</i> , 2012, 86, .	1.0	10
23	Transition state theory for solvated reactions beyond recrossing-free dividing surfaces. <i>Physical Review E</i> , 2016, 93, 062304.	0.8	9
24	Semiclassical quantization with bifurcating orbits. <i>Physical Review A</i> , 2002, 66, .	1.0	8
25	Photoabsorption spectra of the diamagnetic hydrogen atom in the transition regime to chaos: closed orbit theory with bifurcating orbits. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, S219-S239.	0.6	8
26	Uniform Approximations for Non-generic Bifurcation Scenarios Including Bifurcations of Ghost Orbits. <i>Annals of Physics</i> , 1999, 277, 19-73.	1.0	7
27	Semiclassical quantization by harmonic inversion: Comparison of algorithms. <i>Physical Review E</i> , 2001, 64, 056705.	0.8	6
28	The Kustaanheimo–Stiefel transformation in geometric algebra. <i>Journal of Physics A</i> , 2003, 36, 6963-6978.	1.6	6
29	The hydrogen atom in an electric field: closed-orbit theory with bifurcating orbits. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 1231-1254.	0.6	6
30	Finite-barrier corrections for multidimensional barriers in colored noise. <i>Physical Review E</i> , 2019, 99, 052211.	0.8	4
31	Semiclassical ionization dynamics of the hydrogen molecular ion in an electric field of arbitrary orientation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, S241-S260.	0.6	2
32	Gluing Torus Families across a Singularity: The Lens Space for the Hydrogen Atom in Crossed Fields. <i>Progress of Theoretical Physics Supplement</i> , 2007, 166, 45-55.	0.2	2
33	Uniform semiclassical approximations on a topologically non-trivial configuration space. <i>European Physical Journal D</i> , 2003, 25, 129-138.	0.6	1
34	Rydberg Atoms in Strong Static Fields. , 2006, , 247-252.		1
35	Ghost Orbit Bifurcations in Semiclassical Spectra. <i>Progress of Theoretical Physics Supplement</i> , 2000, 139, 429-436.	0.2	0