Thomas Bartsch

List of Publications by Year
in descending order

35 papers	713 citations	516710 16 h-index	526287 27 g-index
36 all docs	36 docs citations	36 times ranked	184 citing authors

#	Article	IF	Citations
1	Finite-barrier corrections for multidimensional barriers in colored noise. Physical Review E, 2019, 99, 052211.	2.1	4
2	Invariant Manifolds and Rate Constants in Driven Chemical Reactions. Journal of Physical Chemistry B, 2019, 123, 2070-2086.	2.6	23
3	Transition state theory for activated systems with driven anharmonic barriers. Journal of Chemical Physics, 2017, 147, 074104.	3.0	19
4	Transition state theory for solvated reactions beyond recrossing-free dividing surfaces. Physical Review E, 2016, 93, 062304.	2.1	9
5	Transition state geometry of driven chemical reactions on time-dependent double-well potentials. Physical Chemistry Chemical Physics, 2016, 18, 30270-30281.	2.8	37
6	Chemical reactions induced by oscillating external fields in weak thermal environments. Journal of Chemical Physics, 2015, 142, 074108.	3.0	28
7	Persistence of transition-state structure in chemical reactions driven by fields oscillating in time. Physical Review E, 2014, 89, 040801.	2.1	23
8	Communication: Transition state trajectory stability determines barrier crossing rates in chemical reactions induced by time-dependent oscillating fields. Journal of Chemical Physics, 2014, 141, 041106.	3.0	27
9	Communication: Transition state theory for dissipative systems without a dividing surface. Journal of Chemical Physics, 2012, 136, 091102.	3.0	14
10	Chaotic dynamics in multidimensional transition states. Journal of Chemical Physics, 2012, 137, 214310.	3.0	23
11	Symmetry-breaking thermally induced collapse of dipolar Bose-Einstein condensates. Physical Review A, 2012, 86, .	2.5	10
12	Reaction rate calculation with time-dependent invariant manifolds. Journal of Chemical Physics, 2012, 136, 224510.	3.0	18
13	Transition state theory in liquids beyond planar dividing surfaces. Chemical Physics, 2010, 370, 270-276.	1.9	68
14	Phase-space geometry of the generalized Langevin equation. Journal of Chemical Physics, 2009, 131, 124121.	3.0	11
15	Transition-State Theory Rate Calculations with a Recrossing-Free Moving Dividing Surface. Journal of Physical Chemistry B, 2008, 112, 206-212.	2.6	22
16	Transition state theory for laser-driven reactions. Journal of Chemical Physics, 2007, 126, 164306.	3.0	52
17	Hydrogen atom in crossed electric and magnetic fields: Phase space topology and torus quantization via periodic orbits. Physical Review A, 2007, 75, .	2.5	12
18	Gluing Torus Families across a Singularity: The Lens Space for the Hydrogen Atom in Crossed Fields. Progress of Theoretical Physics Supplement, 2007, 166, 45-55.	0.1	2

#	Article	IF	Citations
19	Identifying reactive trajectories using a moving transition state. Journal of Chemical Physics, 2006, 124, 244310.	3.0	47
20	Extracting Multidimensional Phase Space Topology from Periodic Orbits. Physical Review Letters, 2006, 97, 104101.	7.8	16
21	Rydberg Atoms in Strong Static Fields. , 2006, , 247-252.		1
22	Photoabsorption spectra of the diamagnetic hydrogen atom in the transition regime to chaos: closed orbit theory with bifurcating orbits. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, S219-S239.	1.5	8
23	Semiclassical ionization dynamics of the hydrogen molecular ion in an electric field of arbitrary orientation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, S241-S260.	1.5	2
24	Transition State in a Noisy Environment. Physical Review Letters, 2005, 95, 058301.	7.8	75
25	Stochastic transition states: Reaction geometry amidst noise. Journal of Chemical Physics, 2005, 123, 204102.	3.0	57
26	Uniform semiclassical approximations on a topologically non-trivial configuration space. European Physical Journal D, 2003, 25, 129-138.	1.3	1
27	Closed orbits and their bifurcations in the crossed-field hydrogen atom. Physical Review A, 2003, 67, .	2.5	13
28	Semiclassical quantization of the hydrogen atom in crossed electric and magnetic fields. Physical Review A, 2003, 67, .	2.5	18
29	The Kustaanheimoâ€"Stiefel transformation in geometric algebra. Journal of Physics A, 2003, 36, 6963-6978.	1.6	6
30	The hydrogen atom in an electric field: closed-orbit theory with bifurcating orbits. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 1231-1254.	1.5	6
31	Semiclassical quantization with bifurcating orbits. Physical Review A, 2002, 66, .	2.5	8
32	Semiclassical quantization by harmonic inversion: Comparison of algorithms. Physical Review E, 2001, 64, 056705.	2.1	6
33	Ghost Orbit Bifurcations in Semiclassical Spectra. Progress of Theoretical Physics Supplement, 2000, 139, 429-436.	0.1	0
34	Significance of ghost orbit bifurcations in semiclassical spectra. Journal of Physics A, 1999, 32, 3013-3027.	1.6	10
35	Uniform Approximations for Non-generic Bifurcation Scenarios Including Bifurcations of Ghost Orbits. Annals of Physics, 1999, 277, 19-73.	2.8	7