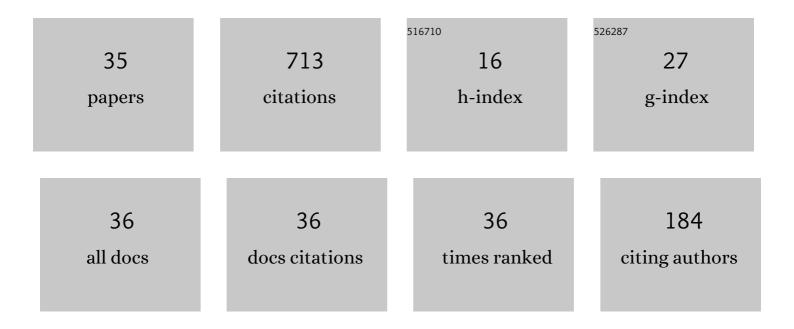
## **Thomas Bartsch**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Transition State in a Noisy Environment. Physical Review Letters, 2005, 95, 058301.	7.8	75
2	Transition state theory in liquids beyond planar dividing surfaces. Chemical Physics, 2010, 370, 270-276.	1.9	68
3	Stochastic transition states: Reaction geometry amidst noise. Journal of Chemical Physics, 2005, 123, 204102.	3.0	57
4	Transition state theory for laser-driven reactions. Journal of Chemical Physics, 2007, 126, 164306.	3.0	52
5	Identifying reactive trajectories using a moving transition state. Journal of Chemical Physics, 2006, 124, 244310.	3.0	47
6	Transition state geometry of driven chemical reactions on time-dependent double-well potentials. Physical Chemistry Chemical Physics, 2016, 18, 30270-30281.	2.8	37
7	Chemical reactions induced by oscillating external fields in weak thermal environments. Journal of Chemical Physics, 2015, 142, 074108.	3.0	28
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	Chaotic dynamics in multidimensional transition states. Journal of Chemical Physics, 2012, 137, 214310.	3.0	23
10	Persistence of transition-state structure in chemical reactions driven by fields oscillating in time. Physical Review E, 2014, 89, 040801.	2.1	23
11	Invariant Manifolds and Rate Constants in Driven Chemical Reactions. Journal of Physical Chemistry B, 2019, 123, 2070-2086.	2.6	23
12	Transition-State Theory Rate Calculations with a Recrossing-Free Moving Dividing Surface. Journal of Physical Chemistry B, 2008, 112, 206-212.	2.6	22
13	Transition state theory for activated systems with driven anharmonic barriers. Journal of Chemical Physics, 2017, 147, 074104.	3.0	19
14	Semiclassical quantization of the hydrogen atom in crossed electric and magnetic fields. Physical Review A, 2003, 67, .	2.5	18
15	Reaction rate calculation with time-dependent invariant manifolds. Journal of Chemical Physics, 2012, 136, 224510.	3.0	18
16	Extracting Multidimensional Phase Space Topology from Periodic Orbits. Physical Review Letters, 2006, 97, 104101.	7.8	16
17	Communication: Transition state theory for dissipative systems without a dividing surface. Journal of Chemical Physics, 2012, 136, 091102.	3.0	14
18	Closed orbits and their bifurcations in the crossed-field hydrogen atom. Physical Review A, 2003, 67, .	2.5	13

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#	Article	IF	CITATIONS
19	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
20	Phase-space geometry of the generalized Langevin equation. Journal of Chemical Physics, 2009, 131, 124121.	3.0	11
21	Significance of ghost orbit bifurcations in semiclassical spectra. Journal of Physics A, 1999, 32, 3013-3027.	1.6	10
22	Symmetry-breaking thermally induced collapse of dipolar Bose-Einstein condensates. Physical Review A, 2012, 86, .	2.5	10
23	Transition state theory for solvated reactions beyond recrossing-free dividing surfaces. Physical Review E, 2016, 93, 062304.	2.1	9
24	Semiclassical quantization with bifurcating orbits. Physical Review A, 2002, 66, .	2.5	8
25	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
26	Uniform Approximations for Non-generic Bifurcation Scenarios Including Bifurcations of Ghost Orbits. Annals of Physics, 1999, 277, 19-73.	2.8	7
27	Semiclassical quantization by harmonic inversion: Comparison of algorithms. Physical Review E, 2001, 64, 056705.	2.1	6
28	The Kustaanheimo–Stiefel transformation in geometric algebra. Journal of Physics A, 2003, 36, 6963-6978.	1.6	6
29	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
30	Finite-barrier corrections for multidimensional barriers in colored noise. Physical Review E, 2019, 99, 052211.	2.1	4
31	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
32	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
33	Uniform semiclassical approximations on a topologically non-trivial configuration space. European Physical Journal D, 2003, 25, 129-138.	1.3	1
34	Rydberg Atoms in Strong Static Fields. , 2006, , 247-252.		1
35	Ghost Orbit Bifurcations in Semiclassical Spectra. Progress of Theoretical Physics Supplement, 2000, 139, 429-436.	0.1	0