Peter A Braun

List of Publications by Year
in descending order

38 papers	1,336 citations	567281 15 h-index	345221 36 g-index
38 all docs	38 docs citations	38 times ranked	453 citing authors

#	Article	IF	Citations
1	Semiclassical Foundation of Universality in Quantum Chaos. Physical Review Letters, 2004, 93, .	7.8	221
2	Periodic-Orbit Theory of Level Correlations. Physical Review Letters, 2007, 98, 044103.	7.8	147
3	Periodic-orbit theory of universality in quantum chaos. Physical Review E, 2005, 72, 046207.	2.1	143
4	Discrete semiclassical methods in the theory of Rydberg atoms in external fields. Reviews of Modern Physics, 1993, 65, 115-161.	45.6	106
5	Semiclassical Theory of Chaotic Conductors. Physical Review Letters, 2006, 96, 066804.	7.8	102
6	Semiclassical approach to chaotic quantum transport. New Journal of Physics, 2007, 9, 12-12.	2.9	76
7	Periodic-orbit theory of universal level correlations in quantum chaos. New Journal of Physics, 2009, 11, 103025.	2.9	72
8	Quantifying quantumness and the quest for Queens of Quantum. New Journal of Physics, 2010, 12, 063005.	2.9	72
9	Classicality of spin states. Physical Review A, 2008, 78, .	2.5	71
10	Semiclassical prediction for shot noise in chaotic cavities. Journal of Physics A, 2006, 39, L159-L165.	1.6	70
11	Universal spectral form factor for chaotic dynamics. Journal of Physics A, 2004, 37, L31-L37.	1.6	47
12	Semiclassical Identification of Periodic Orbits in a Quantum Many-Body System. Physical Review Letters, 2017, 118, 164101.	7.8	32
13	Long-lived quantum coherence between macroscopically distinct states in superradiance. Optics Communications, 2000, 179, 411-415.	2.1	23
14	Three-body Coulomb problem in the dipole approximation. Physical Review A, 1990, 42, 6537-6544.	2.5	21
15	Semiclassical theory for parametric correlation of energy levels. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 47-63.	2.1	16
16	Statistics of self-crossings and avoided crossings of periodic orbits in the Hadamard-Gutzwiller model. European Physical Journal B, 2002, 30, 189-206.	1.5	14
17	The influence of higher-order anharmonic corrections to the energy spectrum on the evolution of quantum wavepackets. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, L329-L335.	1.5	13
18	Time dependence of physical observables in wave-packet states. Physical Review A, 1994, 49, 1704-1708.	2.5	10

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19	Self-averaging characteristics of spectral fluctuations. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 135101.	2.1	9
20	Vibrational magnetism of HCN and its isotopomers using rotational London atomic orbitals. Chemical Physics, 1996, 208, 341-349.	1.9	8
21	Trace formula for interacting spins. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 085304.	2.1	8
22	Intensity distribution in the spectrum of highly excited atomic hydrogen in parallel electric and magnetic fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, 399-412.	1.5	7
23	Semiclassical prediction of large spectral fluctuations in interacting kicked spin chains. Annals of Physics, 2018, 389, 250-282.	2.8	7
24	Intensity distribution in the quadratic Zeeman splitting of highly excited atomic hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, 3083-3094.	1.5	6
25	Level Dynamics and Universality of Spectral Fluctuations. Foundations of Physics, 2001, 31, 613-622.	1.3	6
26	Semiclassical theory for universality in quantum chaos with symmetry crossover. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 495101.	2.1	6
27	Parametrization of spin-1 classical states. Physical Review A, 2012, 85, .	2.5	5
28	Dipole-dipole interaction of two excited hydrogen atoms. Physical Review A, 1993, 48, 941-950.	2.5	4
29	Chaotic maps and flows: exact Riemannâ€“Siegel lookalike for spectral fluctuations. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 425101.	2.1	3
30	Oscillator strengths in the spectra of highly excited atomic hydrogen in crossed electric and magnetic fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, 2313-2326.	1.5	2
31	Comment on â€˜â€˜Differential equation for the spherical dipole matrix elements of hydrogenâ€™â€™. Physical Review A, 1992, 46, 6108-6109.	2.5	2
32	Coherent laser excitation of diamagnetic Rydberg states in the hydrogen atom. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 3739-3747.	1.5	2
33	Level statistics in arithmetical and pseudo-arithmetical chaos. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 262001.	2.1	2
34	Franck-Condon rules for probabilities of transitions between Rydberg levels of atomic hydrogen in a magnetic field. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 5621-5636.	1.5	1
35	Beyond the Heisenberg time: semiclassical treatment of spectral correlations in chaotic systems with spin 1/2. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 045102.	2.1	1
36	New approach to periodic orbit theory of spectral correlations. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 065101.	2.1	1

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37	Semiclassical spectral correlator in quasi one-dimensional systems. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 395101.	2.1	0
38	Large effects of boundaries on spin amplification in spin chains. Physical Review A, 2010, 82, .	2.5	0