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	New approach to periodic orbit theory of spectral correlations. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 065101.	2.1	1
2	Semiclassical prediction of large spectral fluctuations in interacting kicked spin chains. Annals of Physics, 2018, 389, 250-282.	2.8	7
3	Trace formula for interacting spins. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 085304.	2.1	8
4	Semiclassical Identification of Periodic Orbits in a Quantum Many-Body System. Physical Review Letters, 2017, 118, 164101.	7.8	32
5	Self-averaging characteristics of spectral fluctuations. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 135101.	2.1	9
6	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
7	Chaotic maps and flows: exact Riemann–Siegel lookalike for spectral fluctuations. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 425101.	2.1	3
8	Parametrization of spin-1 classical states. Physical Review A, 2012, 85, .	2.5	5
9	Large effects of boundaries on spin amplification in spin chains. Physical Review A, 2010, 82, .	2.5	0
10	Level statistics in arithmetical and pseudo-arithmetical chaos. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 262001.	2.1	2
11	Quantifying quantumness and the quest for Queens of Quantum. New Journal of Physics, 2010, 12, 063005.	2.9	72
12	Periodic-orbit theory of universal level correlations in quantum chaos. New Journal of Physics, 2009, 11, 103025.	2.9	72
13	Semiclassical theory for universality in quantum chaos with symmetry crossover. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 495101.	2.1	6
14	Classicality of spin states. Physical Review A, 2008, 78, .	2.5	71
15	Semiclassical spectral correlator in quasi one-dimensional systems. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 395101.	2.1	0
16	Semiclassical theory for parametric correlation of energy levels. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 47-63.	2.1	16
17	Periodic-Orbit Theory of Level Correlations. Physical Review Letters, 2007, 98, 044103.	7.8	147
18	Semiclassical approach to chaotic quantum transport. New Journal of Physics, 2007, 9, 12-12.	2.9	76

#	ARTICLE	IF	CITATIONS
19	Semiclassical prediction for shot noise in chaotic cavities. Journal of Physics A, 2006, 39, L159-L165.	1.6	70
20	Semiclassical Theory of Chaotic Conductors. Physical Review Letters, 2006, 96, 066804.	7.8	102
21	Periodic-orbit theory of universality in quantum chaos. Physical Review E, 2005, 72, 046207.	2.1	143
22	Universal spectral form factor for chaotic dynamics. Journal of Physics A, 2004, 37, L31-L37.	1.6	47
23	Semiclassical Foundation of Universality in Quantum Chaos. Physical Review Letters, 2004, 93, .	7.8	221
24	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
25	Level Dynamics and Universality of Spectral Fluctuations. Foundations of Physics, 2001, 31, 613-622.	1.3	6
26	Long-lived quantum coherence between macroscopically distinct states in superradiance. Optics Communications, 2000, 179, 411-415.	2.1	23
27	Vibrational magnetism of HCN and its isotopomers using rotational London atomic orbitals. Chemical Physics, 1996, 208, 341-349.	1.9	8
28	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
29	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
30	Time dependence of physical observables in wave-packet states. Physical Review A, 1994, 49, 1704-1708.	2.5	10
31	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
32	Dipole-dipole interaction of two excited hydrogen atoms. Physical Review A, 1993, 48, 941-950.	2.5	4
33	Discrete semiclassical methods in the theory of Rydberg atoms in external fields. Reviews of Modern Physics, 1993, 65, 115-161.	45.6	106
34	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
35	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
36	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

#	Article	IF	Citations
37	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
38	Three-body Coulomb problem in the dipole approximation. Physical Review A, 1990, 42, 6537-6544.	2.5	21