Bertrand Georgeot

List of Publications by Year
in descending order

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92	2,357	186265	233421
papers	citations	28 h-index	45 g-index

94	94	94	1181
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantum Denoising-Based Super-Resolution Algorithm Applied to Dental Tomography Images. , 2022, , .		6
2	A Novel Image Denoising Algorithm Using Concepts of Quantum Many-Body Theory. Signal Processing, 2022, 201, 108690.	3.7	12
3	Harmonic structures of Beethoven quartets: a complex network approach. European Physical Journal B, 2022, 95, .	1.5	0
4	Chaos-Assisted Long-Range Tunneling for Quantum Simulation. Physical Review Letters, 2021, 126, 174102.	7.8	7
5	Symmetry violation of quantum multifractality: Gaussian fluctuations versus algebraic localization. Physical Review Research, 2021, 3, .	3.6	5
6	Coherent forward scattering peak and multifractality. Physical Review Research, 2021, 3, .	3.6	4
7	Image Denoising Inspired by Quantum Many-Body physics. , 2021, , .		8
8	Quantum Mechanics-Based Signal and Image Representation: Application to Denoising. IEEE Open Journal of Signal Processing, 2021, 2, 190-206.	3.5	22
9	Plug-and-Play Quantum Adaptive Denoiser for Deconvolving Poisson Noisy Images. IEEE Access, 2021, 9, 139771-139791.	4.2	11
10	Despeckling Ultrasound Images Using Quantum Many-Body Physics. , 2021, , .		2
11	Poisson Image Deconvolution by a Plug-and-Play Quantum Denoising Scheme. , 2021, , .		6
12	Accuracy of neural networks for the simulation of chaotic dynamics: Precision of training data vs precision of the algorithm. Chaos, 2020, 30, 113118.	2.5	17
13	Chaos-assisted tunneling resonances in a synthetic Floquet superlattice. Science Advances, 2020, 6, .	10.3	22
14	Two critical localization lengths in the Anderson transition on random graphs. Physical Review Research, 2020, 2, .	3.6	37
15	Multifractality of open quantum systems. Physical Review E, 2019, 100, 032223.	2.1	9
16	Quantum Hamiltonian Computing protocols for molecular electronics Boolean logic gates. Quantum Science and Technology, 2019, 4, 035009.	5.8	8
17	Correlations in the chaotic spectrum of pressure modes in rapidly rotating stars. Europhysics Letters, 2019, 125, 49002.	2.0	3
18	Regularities in the spectrum of chaotic p-modes in rapidly rotating stars. Astronomy and Astrophysics, 2019, 631, A140.	5.1	4

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19	Kapitza stabilization of a repulsive Bose-Einstein condensate in an oscillating optical lattice. Physical Review A, 2018, 97, .	2.5	9
20	Basin Entropy, a Measure of Final State Unpredictability and Its Application to the Chaotic Scattering of Cold Atoms. Understanding Complex Systems, 2018, , 9-34.	0.6	5
21	Distinguishing humans from computers in the game of go: A complex network approach. Europhysics Letters, 2017, 119, 48001.	2.0	6
22	Chaotic dynamics and fractal structures in experiments with cold atoms. Physical Review A, 2017, 95, .	2.5	34
23	Chaos-assisted tunneling in the presence of Anderson localization. Physical Review E, 2017, 96, 040201.	2.1	7
24	Scaling Theory of the Anderson Transition in Random Graphs: Ergodicity and Universality. Physical Review Letters, 2017, 118, 166801.	7.8	76
25	Basin entropy: a new tool to analyze uncertainty in dynamical systems. Scientific Reports, 2016, 6, 31416.	3.3	135
26	Probing surface states with many-body wave packet scattering. Europhysics Letters, 2016, 115, 20010.	2.0	3
27	Routes towards the experimental observation of the large fluctuations due to chaos-assisted tunneling effects with cold atoms. Physical Review A, 2016, 94, .	2.5	7
28	Band-gap structures for matter waves. Physical Review A, 2015, 92, .	2.5	6
29	Multifractality of quantum wave functions in the presence of perturbations. Physical Review E, 2015, 92, 032914.	2.1	11
30	Move ordering and communities in complex networks describing the game of go. European Physical Journal B, 2014, 87, 1.	1.5	6
31	Two Scenarios for Quantum Multifractality Breakdown. Physical Review Letters, 2014, 112, 234101.	7.8	23
32	Realization of tunnel barriers for matter waves using spatial gaps. Europhysics Letters, 2013, 103, 50006.	2.0	10
33	Regular and Irregular Pressure Modes in Rapidly Rotating Stars. Lecture Notes in Physics, 2013, , 115-132.	0.7	1
34	The game of go as a complex network. Europhysics Letters, 2012, 97, 68002.	2.0	9
35	Multifractality of quantum wave packets. Physical Review E, 2012, 86, 056215.	2.1	12
36	Optically Guided Beam Splitter for Propagating Matter Waves. Physical Review Letters, 2012, 109, 030403.	7.8	31

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37	Regular oscillation sub-spectrum of rapidly rotating stars. Astronomy and Astrophysics, 2012, 546, A11.	5.1	24
38	Universal emergence of PageRank. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 465101.	2.1	14
39	Exploring Classically Chaotic Potentials with a Matter Wave Quantum Probe. Physical Review Letters, 2011, 107, 254104.	7.8	21
40	Regular Modes in Rotating Stars. Physical Review Letters, 2011, 107, 121101.	7.8	16
41	Pâ€modes in rapidly rotating stars: Looking for regular patterns in synthetic asymptotic spectra. Astronomische Nachrichten, 2010, 331, 1053-1056.	1.2	13
42	Quantum Algorithm for Exact MonteÂCarlo Sampling. Physical Review Letters, 2010, 104, 250502.	7.8	1
43	Spectral properties of the Google matrix of the World Wide Web and other directed networks. Physical Review E, 2010, 81, 056109.	2.1	33
44	Chirality of Triangular Antiferromagnetic Clusters as a Qubit. Physical Review Letters, 2010, 104, 200502.	7.8	39
45	Interaction of a propagating guided matter wave with a localized potential. New Journal of Physics, 2010, 12, 085013.	2.9	12
46	Multifractal wave functions of simple quantum maps. Physical Review E, 2010, 82, 046206.	2.1	27
47	Asymptotic analysis of high-frequency acoustic modes in rapidly rotating stars. Astronomy and Astrophysics, 2009, 500, 1173-1192.	5.1	71
48	Entropy of entanglement and multifractal exponents for random states. Physical Review A, 2009, 79, .	2.5	13
49	Chaotic dynamics of a Bose-Einstein condensate coupled to a qubit. Physical Review E, 2009, 79, 066205.	2.1	5
50	Quantum circuit for three-qubit random states. Physical Review A, 2009, 80, .	2.5	3
51	Delocalization transition for the Google matrix. Physical Review E, 2009, 80, 026107.	2.1	33
52	Quantum computation of multifractal exponents through the quantum wavelet transform. Physical Review A, 2009, 79, .	2.5	6
53	Entanglement and Localization of Wavefunctions. NATO Science for Peace and Security Series B: Physics and Biophysics, 2009, , 51-63.	0.3	0
54	Multifractality and intermediate statistics in quantum maps. Physical Review E, 2008, 77, 035201.	2.1	27

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55	Wave chaos in rapidly rotating stars. Physical Review E, 2008, 78, 016215.	2.1	49
56	Optimal number of controlled-NOT gates to generate a three-qubit state. Physical Review A, 2008, 77, .	2.5	18
57	Interference versus success probability in quantum algorithms with imperfections. Physical Review A, 2008, 77, .	2.5	7
58	Quantum computing of semiclassical formulas. Physical Review E, 2008, 77, 046218.	2.1	3
59	Time Reversal of Bose-Einstein Condensates. Physical Review Letters, 2008, 101, 074102.	7.8	19
60	Cooling by Time Reversal of Atomic Matter Waves. Physical Review Letters, 2008, 100, 044106.	7.8	20
61	Entanglement of localized states. Physical Review A, 2007, 76, .	2.5	22
62	Complexity of chaos and quantum computation. Mathematical Structures in Computer Science, 2007, 17, .	0.6	2
63	Quantum computing for physics research. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 559, 6-12.	1.6	2
64	Quantitative measure of interference. Physical Review A, 2006, 73, .	2.5	27
65	Quantum computation and analysis of Wigner and Husimi functions: Toward a quantum image treatment. Physical Review E, 2005, 71, 066215.	2.1	19
66	Intermediate quantum maps for quantum computation. Physical Review A, 2005, 72, .	2.5	10
67	Quantum computing of delocalization in small-world networks. Physical Review E, 2005, 72, 036203.	2.1	41
68	Quantum computing of PoincarÃ© recurrences and periodic orbits. Physical Review A, 2004, 69, .	2.5	9
69	Quantum computation of a complex system: The kicked Harper model. Physical Review E, 2004, 70, 056218.	2.1	14
70	Strange attractor simulated on a quantum computer. European Physical Journal D, 2003, 22, 127-130.	1.3	8
71	Quantum computing of quantum chaos in the kicked rotator model. Physical Review E, 2003, 67, 046220.	2.1	28
72	Georgeot and Shepelyansky Reply:. Physical Review Letters, 2002, 88, .	7.8	7

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73	Analysis of singular inertial modes in a spherical shell: the slender toroidal shell model. Journal of Fluid Mechanics, 2002, 463, 345-360.	3.4	33
74	Inertial waves in a rotating spherical shell: attractors and asymptotic spectrum. Journal of Fluid Mechanics, 2001, 435, 103-144.	3.4	151
75	Exponential Gain in Quantum Computing of Quantum Chaos and Localization. Physical Review Letters, 2001, 86, 2890-2893.	7.8	67
76	Stable Quantum Computation of Unstable Classical Chaos. Physical Review Letters, 2001, 86, 5393-5396.	7.8	34
77	Wave Attractors in Rotating Fluids: A Paradigm for Ill-Posed Cauchy Problems. Physical Review Letters, 2000, 85, 4277-4280.	7.8	41
78	Quantum chaos border for quantum computing. Physical Review E, 2000, 62, 3504-3507.	2.1	136
79	Emergence of quantum chaos in the quantum computer core and how to manage it. Physical Review E, 2000, 62, 6366-6375.	2.1	110
80	Integrability and Quantum Chaos in Spin Glass Shards. Physical Review Letters, 1998, 81, 5129-5132.	7.8	68
81	Breit-Wigner Width and Inverse Participation Ratio in Finite Interacting Fermi Systems. Physical Review Letters, 1997, 79, 4365-4368.	7.8	64
82	Arithmetical chaos. Physics Reports, 1997, 291, 219-324.	25.6	54
83	Smoothed density of states for problems with ray splitting. Physical Review E, 1996, 53, 207-213.	2.1	42
84	Ray splitting and quantum chaos. Physical Review E, 1996, 53, 3284-3302.	2.1	39
85	Ray Splitting and Quantum Chaos. Physical Review Letters, 1996, 76, 2476-2479.	7.8	50
86	Fredholm method for scars. Journal of Physics A, 1996, 29, 919-937.	1.6	36
87	Quantum chaos on constant negative curvature surfaces. Chaos, Solitons and Fractals, 1995, 5, 1311-1323.	5.1	8
88	Fredholm Theory for Quasiclassical Scattering. Physical Review Letters, 1995, 74, 4110-4113.	7.8	27
89	Exact and Quasiclassical Fredholm Solutions of Quantum Billiards. Physical Review Letters, 1995, 74, 2851-2854.	7.8	54
90	Trace formula for Riemann surfaces with magnetic field. Physical Review Letters, 1993, 71, 3786-3789.	7.8	16

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91	Trace formulas for arithmetical systems. Physical Review E, 1993, 47, R2217-R2220.	2.1	4
92	Chaotic billiards generated by arithmetic groups. Physical Review Letters, 1992, 69, 1477-1480.	7.8	84