

Henning Schomerus

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144
papers

5,189
citations

41
h-index

66
g-index

153
ext. papers

6,061
ext. citations

4.1
avg, IF

6.29
L-index

#	Paper	IF	Citations
144	Selective enhancement of topologically induced interface states in a dielectric resonator chain. <i>Nature Communications</i> , 2015 , 6, 6710	17.4	299
143	Topologically protected midgap states in complex photonic lattices. <i>Optics Letters</i> , 2013 , 38, 1912-4	3	223
142	Topological hybrid silicon microlasers. <i>Nature Communications</i> , 2018 , 9, 981	17.4	210
141	A zero-voltage conductance peak from weak antilocalization in a Majorana nanowire. <i>New Journal of Physics</i> , 2012 , 14, 125011	2.9	209
140	Topologically Protected Defect States in Open Photonic Systems with Non-Hermitian Charge-Conjugation and Parity-Time Symmetry. <i>Physical Review Letters</i> , 2015 , 115, 200402	7.4	203
139	Adsorbate-limited conductivity of graphene. <i>Physical Review Letters</i> , 2008 , 101, 196803	7.4	177
138	Quantum noise and self-sustained radiation of PT-symmetric systems. <i>Physical Review Letters</i> , 2010 , 104, 233601	7.4	129
137	Many-Body Localization Characterized from a One-Particle Perspective. <i>Physical Review Letters</i> , 2015 , 115, 046603	7.4	126
136	Pseudospin valve in bilayer graphene: towards graphene-based pseudospintronics. <i>Physical Review Letters</i> , 2009 , 102, 247204	7.4	125
135	High-order above-threshold ionization: The uniform approximation and the effect of the binding potential. <i>Physical Review A</i> , 2002 , 66,	2.6	108
134	Husimi functions at dielectric interfaces: Inside-outside duality for optical systems and beyond. <i>Europhysics Letters</i> , 2003 , 62, 636-642	1.6	104
133	Quantum pumping in graphene. <i>Physical Review B</i> , 2009 , 80,	3.3	97
132	Effective contact model for transport through weakly-doped graphene. <i>Physical Review B</i> , 2007 , 76,	3.3	95
131	Fermion-parity anomaly of the critical supercurrent in the quantum spin-Hall effect. <i>Physical Review Letters</i> , 2013 , 110, 017003	7.4	94
130	Quantum-to-classical crossover of quasibound states in open quantum systems. <i>Physical Review Letters</i> , 2004 , 93, 154102	7.4	91
129	Counting statistics of photons produced by electronic shot noise. <i>Physical Review Letters</i> , 2001 , 86, 700-3	7.4	87
128	Exciton Polaritons in a Two-Dimensional Lieb Lattice with Spin-Orbit Coupling. <i>Physical Review Letters</i> , 2018 , 120, 097401	7.4	82

127	Electron-electron dynamics in laser-induced nonsequential double ionization. <i>Physical Review A</i> , 2004 , 69,	2.6	80
126	Bifurcations of periodic orbits and uniform approximations. <i>Journal of Physics A</i> , 1997 , 30, 4537-4562		79
125	Quantum limit of the laser line width in chaotic cavities and statistics of residues of scattering matrix poles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 278, 469-496	3.3	71
124	Electronic transport in normal-conductor/graphene/normal-conductor junctions and conditions for insulating behavior at a finite charge-carrier density. <i>Physical Review B</i> , 2007 , 76,	3.3	70
123	Entanglement transition from variable-strength weak measurements. <i>Physical Review B</i> , 2019 , 100,	3.3	64
122	Correcting ray optics at curved dielectric microresonator interfaces: phase-space unification of Fresnel filtering and the Goos-Hänchen shift. <i>Physical Review Letters</i> , 2006 , 96, 243903	7.4	64
121	Band-center anomaly of the conductance distribution in one-dimensional Anderson localization. <i>Physical Review B</i> , 2003 , 67,	3.3	62
120	Nonorthogonal pairs of copropagating optical modes in deformed microdisk cavities. <i>Physical Review A</i> , 2011 , 84,	2.6	60
119	Secular determinants of random unitary matrices. <i>Journal of Physics A</i> , 1996 , 29, 3641-3658		53
118	Single-parameter pumping in graphene. <i>Physical Review B</i> , 2011 , 84,	3.3	52
117	Antibunched photons emitted by a quantum point contact out of equilibrium. <i>Physical Review Letters</i> , 2004 , 93, 096801	7.4	52
116	Fresnel laws at curved dielectric interfaces of microresonators. <i>Physical Review E</i> , 2002 , 65, 045603	2.4	52
115	Quantum-to-classical correspondence in open chaotic systems. <i>Journal of Physics A</i> , 2005 , 38, 10663-10682		49
114	Parity anomaly and Landau-level lasing in strained photonic honeycomb lattices. <i>Physical Review Letters</i> , 2013 , 110, 013903	7.4	48
113	Quantum noise and mode nonorthogonality in non-Hermitian PT-symmetric optical resonators. <i>Physical Review A</i> , 2011 , 84,	2.6	47
112	Quantum Andreev map: a paradigm of quantum chaos in superconductivity. <i>Physical Review Letters</i> , 2003 , 90, 207004	7.4	47
111	Statistics of finite-time Lyapunov exponents in a random time-dependent potential. <i>Physical Review E</i> , 2002 , 66, 066207	2.4	46
110	Dynamical model for the quantum-to-classical crossover of shot noise. <i>Physical Review B</i> , 2003 , 68,	3.3	45

109	Large Petermann factor in chaotic cavities with many scattering channels. <i>Europhysics Letters</i> , 2000 , 49, 48-54	1.6	45
108	Excitation Spectrum of Andreev Billiards with a Mixed Phase Space. <i>Physical Review Letters</i> , 1999 , 82, 2951-2954	7.4	42
107	Universal Sign Control of Coupling in Tight-Binding Lattices. <i>Physical Review Letters</i> , 2016 , 116, 213901	7.4	41
106	Topological tight-binding models from nontrivial square roots. <i>Physical Review B</i> , 2017 , 95,	3.3	41
105	Nonuniversality of anderson localization in short-range correlated disorder. <i>Physical Review Letters</i> , 2005 , 95, 126602	7.4	41
104	Coulomb repulsion and quantum-classical correspondence in laser-induced nonsequential double ionization. <i>Physical Review A</i> , 2004 , 69,	2.6	41
103	Influence of the Coulomb potential on above-threshold ionization: A quantum-orbit analysis beyond the strong-field approximation. <i>Physical Review A</i> , 2015 , 92,	2.6	36
102	Aharonov-Bohm physics with spin. I. Geometric phases in one-dimensional ballistic rings. <i>Physical Review B</i> , 2004 , 69,	3.3	35
101	Uniform approximation for period-quadrupling bifurcations. <i>Journal of Physics A</i> , 1998 , 31, 165-183		35
100	Sonic Landau Levels and Synthetic Gauge Fields in Mechanical Metamaterials. <i>Physical Review Letters</i> , 2017 , 119, 195502	7.4	34
99	Helical scattering and valleytronics in bilayer graphene. <i>Physical Review B</i> , 2010 , 82,	3.3	34
98	Laser-induced quantum pumping in graphene. <i>Applied Physics Letters</i> , 2012 , 101, 153506	3.4	33
97	Partial chiral symmetry-breaking as a route to spectrally isolated topological defect states in two-dimensional artificial materials. <i>2D Materials</i> , 2017 , 4, 025008	5.9	31
96	Quasideterministic realization of a universal quantum gate in a single scattering process. <i>Physical Review A</i> , 2012 , 85,	2.6	30
95	Quantum-limited linewidth of a chaotic laser cavity. <i>Physical Review A</i> , 2000 , 61,	2.6	30
94	Transport signatures of pseudomagnetic Landau levels in strained graphene ribbons. <i>Physical Review Letters</i> , 2013 , 110, 266801	7.4	28
93	Effect of dephasing on charge-counting statistics in chaotic cavities. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001 , 11, 1-7	3	28
92	Non-Markovian master equations from entanglement with stationary unobserved degrees of freedom. <i>Journal of Physics A</i> , 2005 , 38, 9251-9262		27

91	Bulk and edge-state arcs in non-Hermitian coupled-resonator arrays. <i>Physical Review A</i> , 2018 , 98,	2.6	27
90	From scattering theory to complex wave dynamics in non-Hermitian PT-symmetric resonators. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120194		26
89	Periodic orbits near bifurcations of codimension two: Classical mechanics, semiclassics and Stokes transitions. <i>Journal of Physics A</i> , 1998 , 31, 4167-4196		26
88	One-particle density matrix characterization of many-body localization. <i>Annalen Der Physik</i> , 2017 , 529, 1600356	2.6	25
87	Semiclassics of rotation and torsion. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1996 , 100, 115-127		25
86	Nonequilibrium steady states of ideal bosonic and fermionic quantum gases. <i>Physical Review E</i> , 2015 , 92, 062119	2.4	24
85	Non-Hermitian-transport effects in coupled-resonator optical waveguides. <i>Physical Review A</i> , 2014 , 90,	2.6	24
84	Shot noise and transport in small quantum cavities with large openings. <i>Physical Review B</i> , 2002 , 66,	3.3	24
83	Nonreciprocal response theory of non-Hermitian mechanical metamaterials: Response phase transition from the skin effect of zero modes. <i>Physical Review Research</i> , 2020 , 2,	3.9	24
82	Semiclassical interference of bifurcations. <i>Europhysics Letters</i> , 1997 , 38, 423-428	1.6	24
81	Effect of photonic spin-orbit coupling on the topological edge modes of a Su-Schrieffer-Heeger chain. <i>Physical Review B</i> , 2019 , 99,	3.3	23
80	Nonlinear mode competition and symmetry-protected power oscillations in topological lasers. <i>New Journal of Physics</i> , 2018 , 20, 063044	2.9	23
79	Conductance anomaly near the Lifshitz transition in strained bilayer graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	22
78	Fractal Weyl laws for quantum decay in dynamical systems with a mixed phase space. <i>Physical Review E</i> , 2010 , 81, 026208	2.4	22
77	Semiclassical Spectra from Periodic-Orbit Clusters in a Mixed Phase Space. <i>Physical Review Letters</i> , 1997 , 79, 1022-1025	7.4	21
76	Microscopic versus mesoscopic local density of states in one-dimensional localization. <i>Physical Review B</i> , 2002 , 65,	3.3	21
75	Experimental Realization of Multiple Topological Edge States in a 1D Photonic Lattice. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1800202	8.3	21
74	Controlled decoherence in a quantum kicked rotator. <i>Physical Review A</i> , 2008 , 77,	2.6	20

73	Nonexponential decoherence and momentum subdiffusion in a quantum kicked rotator. <i>Physical Review Letters</i> , 2007 , 98, 260401	7.4	20
72	Excess quantum noise due to mode nonorthogonality in dielectric microresonators. <i>Physical Review A</i> , 2009 , 79,	2.6	19
71	Anomalous wave function statistics on a one-dimensional lattice with power-law disorder. <i>Physical Review Letters</i> , 2003 , 91, 176601	7.4	19
70	Universal twinkling exponents for spectral fluctuations associated with mixed chaology. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2000 , 456, 1659-1668 ^{2,4}	2.4	19
69	Lifetime statistics in chaotic dielectric microresonators. <i>Physical Review A</i> , 2009 , 79,	2.6	18
68	Asymptotic-boundary-layer method for unstable trajectories: semiclassical expansions for individual scar wave functions. <i>Physical Review E</i> , 2009 , 80, 056202	2.4	17
67	Model for chaotic dielectric microresonators. <i>Physical Review A</i> , 2008 , 77,	2.6	17
66	Topological dynamics and excitations in lasers and condensates with saturable gain or loss. <i>Optics Express</i> , 2018 , 26, 22506-22518	3.3	17
65	Exponential sensitivity to dephasing of electrical conduction through a quantum dot. <i>Physical Review Letters</i> , 2004 , 93, 186806	7.4	16
64	Shot noise in ballistic quantum dots with a mixed classical phase space. <i>Physical Review Letters</i> , 2002 , 89, 066801	7.4	16
63	Universality of Entanglement Transitions from Stroboscopic to Continuous Measurements. <i>Physical Review Letters</i> , 2020 , 125, 210602	7.4	15
62	Universal routes to spontaneous PT-symmetry breaking in non-Hermitian quantum systems. <i>Physical Review A</i> , 2011 , 83,	2.6	15
61	Gate driven adiabatic quantum pumping in graphene. <i>Solid State Communications</i> , 2011 , 151, 1065-1070	1.6	15
60	Entanglement between static and flying qubits in an Aharonov-Bohm double electrometer. <i>New Journal of Physics</i> , 2007 , 9, 67-67	2.9	15
59	Effect of chiral symmetry on chaotic scattering from Majorana zero modes. <i>Physical Review Letters</i> , 2015 , 114, 166803	7.4	14
58	One-particle density matrix occupation spectrum of many-body localized states after a global quench. <i>Physical Review B</i> , 2017 , 96,	3.3	14
57	Transport in chaotic quantum dots: Effects of spatial symmetries which interchange the leads. <i>Physical Review B</i> , 2006 , 73,	3.3	14
56	Kinetic theory of shot noise in nondegenerate diffusive conductors. <i>Physical Review B</i> , 1999 , 60, 5839-5850	3.9	14

55	Strain-induced modifications of transport in gated graphene nanoribbons. <i>Physical Review B</i> , 2014 , 90,	3.3	13
54	Fast and slow edges in bilayer graphene nanoribbons: Tuning the transition from band to Mott insulator. <i>Physical Review B</i> , 2010 , 81,	3.3	13
53	Semiclassical transport in nearly symmetric quantum dots. I. Symmetry breaking in the dot. <i>Physical Review E</i> , 2009 , 80, 056209	2.4	13
52	Supersymmetric Polarization Anomaly in Photonic Discrete-Time Quantum Walks. <i>Physical Review Letters</i> , 2018 , 121, 260501	7.4	13
51	Causality and quantum interference in time-delayed laser-induced nonsequential double ionization. <i>Physical Review A</i> , 2012 , 85,	2.6	12
50	Effect of inelastic scattering on the average Coulomb-blockade peak height in quantum dots. <i>Physical Review B</i> , 2001 , 64,	3.3	12
49	Limits to error correction in quantum chaos. <i>Physical Review Letters</i> , 2001 , 86, 5192-5	7.4	11
48	Localization-induced coherent backscattering effect in wave dynamics. <i>Physical Review E</i> , 2001 , 63, 026605	7.4	11
47	Charge and low-frequency response of normal-superconducting heterostructures. <i>Physical Review B</i> , 2002 , 65,	3.3	11
46	Search for two-scale localization in disordered wires in a magnetic field. <i>Physical Review Letters</i> , 2000 , 84, 3927-9	7.4	11
45	Subdiffusive and superdiffusive quantum transport and generalized duality. <i>Physical Review B</i> , 1996 , 53, R2914-R2917	3.3	11
44	Random-matrix theory of amplifying and absorbing resonators with PT or PTT' symmetry. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012 , 45, 444006	2	10
43	Disorder-induced pseudodiffusive transport in graphene nanoribbons. <i>Physical Review B</i> , 2009 , 79,	3.3	10
42	Short-distance wavefunction statistics in one-dimensional Anderson localization. <i>European Physical Journal B</i> , 2003 , 35, 421-427	1.2	9
41	Isotropic Brownian motions over complex fields as a solvable model for May-Wigner stability analysis. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016 , 49, 385201	2	8
40	Degeneracy doubling and sublattice polarization in strain-induced pseudo-Landau levels. <i>Physical Review B</i> , 2014 , 90,	3.3	8
39	Formation and interaction of resonance chains in the open three-disk system. <i>New Journal of Physics</i> , 2014 , 16, 033029	2.9	8
38	Staggered repulsion of transmission eigenvalues in symmetric open mesoscopic systems. <i>Physical Review B</i> , 2008 , 78,	3.3	8

37	Generalized Galitskii approach for the vertex function of a Fermi gas with resonant interaction. <i>Physical Review B</i> , 2007 , 76,	3.3	8
36	Transmission delay times of localized waves. <i>Physical Review E</i> , 2001 , 64, 026606	2.4	8
35	Multiple-path interferometer with a single quantum obstacle. <i>Europhysics Letters</i> , 2002 , 57, 651-657	1.6	8
34	Semiclassical transport in nearly symmetric quantum dots. II. Symmetry breaking due to asymmetric leads. <i>Physical Review E</i> , 2009 , 80, 056210	2.4	7
33	Optomechanical probes of resonances in amplifying microresonators. <i>Physical Review A</i> , 2004 , 70,	2.6	7
32	Coherent backscattering effect on wave dynamics in a random medium. <i>Europhysics Letters</i> , 2000 , 52, 518-524	1.6	7
31	Conductance enhancement in quantum-point-contact semiconductor-superconductor devices. <i>Physical Review B</i> , 1999 , 60, 13762-13769	3.3	7
30	Observation of supersymmetric pseudo-Landau levels in strained microwave graphene. <i>Light: Science and Applications</i> , 2020 , 9, 146	16.7	7
29	PC-symmetry-protected edge states in interacting driven-dissipative bosonic systems. <i>Physical Review A</i> , 2019 , 99,	2.6	6
28	Universal hypotrochoidic law for random matrices with cyclic correlations. <i>Physical Review E</i> , 2019 , 100, 010302	2.4	6
27	Weyl law for open systems with sharply divided mixed phase space. <i>Physical Review E</i> , 2012 , 85, 046203	2.4	6
26	Robust localized zero-energy modes from locally embedded PT-symmetric defects. <i>Physical Review Research</i> , 2020 , 2,	3.9	6
25	Self-Shielded Topological Receiver Protectors. <i>Physical Review Applied</i> , 2020 , 13,	4.3	5
24	Electromagnetic modes in cavities made of negative-index metamaterials. <i>Physical Review A</i> , 2010 , 81,	2.6	5
23	Quasibound states at thresholds in multichannel impurity scattering. <i>Journal of Physics A</i> , 2003 , 36, 1299-1314	5	
22	Random matrix theory of the proximity effect in disordered wires. <i>Physical Review B</i> , 2003 , 67,	3.3	5
21	Non-Hermitian defect states from lifetime differences. <i>Physical Review A</i> , 2019 , 100,	2.6	5
20	Statistical correlations in a Coulomb gas with a test charge. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 332002	2	4

19	Synthetic dimensions and topological chiral currents in mesoscopic rings. <i>Physical Review Research</i> , 2020 , 2,	3.9	4
18	Quantum statistics of four-wave mixing by a nonlinear resonant microcavity. <i>Physical Review A</i> , 2014 , 90,	2.6	3
17	Counting statistics for mesoscopic conductors with internal degrees of freedom. <i>Physical Review Letters</i> , 2010 , 105, 026801	7.4	3
16	Long-time signatures of short-time dynamics in decaying quantum-chaotic systems. <i>Physical Review E</i> , 2007 , 75, 016217	2.4	3
15	Andreev levels in a single-channel conductor. <i>Physical Review B</i> , 2001 , 64,	3.3	3
14	Superconducting terminals as sensitive probes for scarred states. <i>Physical Review Letters</i> , 2006 , 97, 124102	7.2	2
13	Large sample-to-sample fluctuations of the nonequilibrium critical current through mesoscopic Josephson junctions. <i>Physical Review B</i> , 2001 , 63,	3.3	2
12	Semiclassical singularities from bifurcating orbits. <i>Physical Review E</i> , 2001 , 63, 066208	2.4	2
11	Many-body localization of zero modes. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
10	Effect of a tunnel barrier on the scattering from a Majorana bound state in an Andreev billiard. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 77, 54-64	3	2
9	Reprint of : Effect of a tunnel barrier on the scattering from a Majorana bound state in an Andreev billiard. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 82, 106-116	3	1
8	Fermionic phases and their transitions induced by competing finite-range interactions. <i>Physical Review B</i> , 2018 , 98,	3.3	1
7	Analytical analysis of single-photon correlations emitted by disordered semiconductor heterostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2009 , 20, 23-29	2.1	1
6	Random-matrix perspective on many-body entanglement with a finite localization length. <i>Physical Review Research</i> , 2020 , 2,	3.9	1
5	Single-Mode Delay Time Statistics for Scattering by a Chaotic Cavity. <i>Physica Scripta</i> , 2001 , T90, 278	2.6	1
4	Compatibility of transport effects in non-Hermitian nonreciprocal systems. <i>Physical Review A</i> , 2021 , 104,	2.6	1
3	Special issue in honour of the life and work of Fritz Haake. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021 , 54, 130301	2	0
2	Electron-electron relaxation in disordered interacting systems. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 699-702		

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