

Henning Schomerus

List of Publications by Year in descending order

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153
papers

6,723
citations

53794

45
h-index

69250

77
g-index

153
all docs

153
docs citations

153
times ranked

4307
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective enhancement of topologically induced interface states in a dielectric resonator chain. Nature Communications, 2015, 6, 6710.	12.8	416
2	Topological hybrid silicon microlasers. Nature Communications, 2018, 9, 981.	12.8	345
3	Topologically protected midgap states in complex photonic lattices. Optics Letters, 2013, 38, 1912.	3.3	312
4	Topologically Protected Defect States in Open Photonic Systems with Non-Hermitian Charge-Conjugation and Parity-Time Symmetry. Physical Review Letters, 2015, 115, 200402.	7.8	299
5	A zero-voltage conductance peak from weak antilocalization in a Majorana nanowire. New Journal of Physics, 2012, 14, 125011.	2.9	247
6	Adsorbate-Limited Conductivity of Graphene. Physical Review Letters, 2008, 101, 196803.	7.8	201
7	Many-Body Localization Characterized from a One-Particle Perspective. Physical Review Letters, 2015, 115, 046603.	7.8	182
8	Quantum Noise and Self-Sustained Radiation of P -Symmetric Systems. Physical Review Letters, 2010, 104, 233601.	7.8	152
9	Entanglement transition from variable-strength weak measurements. Physical Review B, 2019, 100, .	3.2	150
10	Pseudospin Valve in Bilayer Graphene: Towards Graphene-Based Pseudospintronics. Physical Review Letters, 2009, 102, 247204.	7.8	143
11	Husimi functions at dielectric interfaces: Inside-outside duality for optical systems and beyond. Europhysics Letters, 2003, 62, 636-642.	2.0	126
12	High-order above-threshold ionization: The uniform approximation and the effect of the binding potential. Physical Review A, 2002, 66, .	2.5	124
13	Exciton Polaritons in a Two-Dimensional Lieb Lattice with Spin-Orbit Coupling. Physical Review Letters, 2018, 120, 097401.	7.8	120
14	Fermion-Parity Anomaly of the Critical Supercurrent in the Quantum Spin-Hall Effect. Physical Review Letters, 2013, 110, 017003.	7.8	116
15	Quantum pumping in graphene. Physical Review B, 2009, 80, .	3.2	113
16	Quantum-to-Classical Crossover of Quasibound States in Open Quantum Systems. Physical Review Letters, 2004, 93, 154102.	7.8	105
17	Effective contact model for transport through weakly-doped graphene. Physical Review B, 2007, 76, .	3.2	99
18	Counting Statistics of Photons Produced by Electronic Shot Noise. Physical Review Letters, 2001, 86, 700-703.	7.8	95

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19	Bifurcations of periodic orbits and uniform approximations. Journal of Physics A, 1997, 30, 4537-4562.	1.6	85
20	Electron-electron dynamics in laser-induced nonsequential double ionization. Physical Review A, 2004, 69, .	2.5	83
21	Quantum limit of the laser line width in chaotic cavities and statistics of residues of scattering matrix poles. Physica A: Statistical Mechanics and Its Applications, 2000, 278, 469-496.	2.6	82
22	Topological tight-binding models from nontrivial square roots. Physical Review B, 2017, 95, .	3.2	82
23	Nonorthogonal pairs of copropagating optical modes in deformed microdisk cavities. Physical Review A, 2011, 84, .	2.5	78
24	Band-center anomaly of the conductance distribution in one-dimensional Anderson localization. Physical Review B, 2003, 67, .	3.2	71
25	Electronic transport in normal-conductor/graphene/normal-conductor junctions and conditions for insulating behavior at a finite charge-carrier density. Physical Review B, 2007, 76, .	3.2	70
26	Correcting Ray Optics at Curved Dielectric Microresonator Interfaces: Phase-Space Unification of Fresnel Filtering and the Goos-Hänchen Shift. Physical Review Letters, 2006, 96, 243903.	7.8	69
27	Single-parameter pumping in graphene. Physical Review B, 2011, 84, .	3.2	67
28	Universality of Entanglement Transitions from Stroboscopic to Continuous Measurements. Physical Review Letters, 2020, 125, 210602.	7.8	64
29	Secular determinants of random unitary matrices. Journal of Physics A, 1996, 29, 3641-3658.	1.6	63
30	Parity Anomaly and Landau-Level Lasing in Strained Photonic Honeycomb Lattices. Physical Review Letters, 2013, 110, 013903.	7.8	62
31	Sonic Landau Levels and Synthetic Gauge Fields in Mechanical Metamaterials. Physical Review Letters, 2017, 119, 195502.	7.8	61
32	Nonreciprocal response theory of non-Hermitian mechanical metamaterials: Response phase transition from the skin effect of zero modes. Physical Review Research, 2020, 2, .	3.6	60
33	Influence of the Coulomb potential on above-threshold ionization: A quantum-orbit analysis beyond the strong-field approximation. Physical Review A, 2015, 92, .	2.5	59
34	Fresnel laws at curved dielectric interfaces of microresonators. Physical Review E, 2002, 65, 045603.	2.1	58
35	Quantum noise and mode nonorthogonality in non-Hermitian γ -symmetric optical resonators. Physical Review A, 2011, 84, .	2.5	56
36	Universal Sign Control of Coupling in Tight-Binding Lattices. Physical Review Letters, 2016, 116, 213901.	7.8	56

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37	Roadmap on topological photonics. JPhys Photonics, 2022, 4, 032501.	4.6	56
38	Antibunched Photons Emitted by a Quantum Point Contact out of Equilibrium. Physical Review Letters, 2004, 93, 096801.	7.8	55
39	Statistics of finite-time Lyapunov exponents in a random time-dependent potential. Physical Review E, 2002, 66, 066207.	2.1	52
40	Quantum-to-classical correspondence in open chaotic systems. Journal of Physics A, 2005, 38, 10663-10682.	1.6	50
41	Large Petermann factor in chaotic cavities with many scattering channels. Europhysics Letters, 2000, 49, 48-54.	2.0	48
42	Nonuniversality of Anderson Localization in Short-Range Correlated Disorder. Physical Review Letters, 2005, 95, 126602.	7.8	48
43	Laser-induced quantum pumping in graphene. Applied Physics Letters, 2012, 101, .	3.3	48
44	Quantum Andreev Map: A Paradigm of Quantum Chaos in Superconductivity. Physical Review Letters, 2003, 90, 207004.	7.8	47
45	Dynamical model for the quantum-to-classical crossover of shot noise. Physical Review B, 2003, 68, .	3.2	46
46	Excitation Spectrum of Andreev Billiards with a Mixed Phase Space. Physical Review Letters, 1999, 82, 2951-2954.	7.8	45
47	One-particle density matrix characterization of many-body localization. Annalen Der Physik, 2017, 529, 1600356.	2.4	45
48	Coulomb repulsion and quantum-classical correspondence in laser-induced nonsequential double ionization. Physical Review A, 2004, 69, .	2.5	44
49	Helical scattering and valleytronics in bilayer graphene. Physical Review B, 2010, 82, .	3.2	42
50	Partial chiral symmetry-breaking as a route to spectrally isolated topological defect states in two-dimensional artificial materials. 2D Materials, 2017, 4, 025008.	4.4	41
51	Aharonov-Bohm physics with spin. I. Geometric phases in one-dimensional ballistic rings. Physical Review B, 2004, 69, .	3.2	39
52	Uniform approximation for period-quadrupling bifurcations. Journal of Physics A, 1998, 31, 165-183.	1.6	36
53	Quasideterministic realization of a universal quantum gate in a single scattering process. Physical Review A, 2012, 85, .	2.5	36
54	Experimental Realization of Multiple Topological Edge States in a 1D Photonic Lattice. Laser and Photonics Reviews, 2019, 13, 1800202.	8.7	36

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55	Bulk and edge-state arcs in non-Hermitian coupled-resonator arrays. <i>Physical Review A</i> , 2018, 98, .	2.5	34
56	Effect of photonic spin-orbit coupling on the topological edge modes of a Su-Schrieffer-Heeger chain. <i>Physical Review B</i> , 2019, 99, .	3.2	34
57	Quantum-limited linewidth of a chaotic laser cavity. <i>Physical Review A</i> , 2000, 61, .	2.5	33
58	From scattering theory to complex wave dynamics in non-Hermitian $\langle i \rangle$ -symmetric resonators. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120194.	3.4	33
59	Transport Signatures of Pseudomagnetic Landau Levels in Strained Graphene Ribbons. <i>Physical Review Letters</i> , 2013, 110, 266801.	7.8	32
60	Nonlinear mode competition and symmetry-protected power oscillations in topological lasers. <i>New Journal of Physics</i> , 2018, 20, 063044.	2.9	31
61	Non-Hermitian-transport effects in coupled-resonator optical waveguides. <i>Physical Review A</i> , 2014, 90, .	2.5	29
62	Nonequilibrium steady states of ideal bosonic and fermionic quantum gases. <i>Physical Review E</i> , 2015, 92, 062119.	2.1	29
63	Periodic orbits near bifurcations of codimension two: Classical mechanics, semiclassics and Stokes transitions. <i>Journal of Physics A</i> , 1998, 31, 4167-4196.	1.6	28
64	Effect of dephasing on charge-counting statistics in chaotic cavities. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 11, 1-7.	2.7	28
65	Non-Markovian master equations from entanglement with stationary unobserved degrees of freedom. <i>Journal of Physics A</i> , 2005, 38, 9251-9262.	1.6	27
66	Fractal Weyl laws for quantum decay in dynamical systems with a mixed phase space. <i>Physical Review E</i> , 2010, 81, 026208.	2.1	26
67	Observation of supersymmetric pseudo-Landau levels in strained microwave graphene. <i>Light: Science and Applications</i> , 2020, 9, 146.	16.6	26
68	Semiclassical interference of bifurcations. <i>Europhysics Letters</i> , 1997, 38, 423-428.	2.0	26
69	Semiclassics of rotation and torsion. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1996, 100, 115-127.	1.1	25
70	Conductance anomaly near the Lifshitz transition in strained bilayer graphene. <i>Physical Review B</i> , 2012, 85, .	3.2	25
71	Semiclassical Spectra from Periodic-Orbit Clusters in a Mixed Phase Space. <i>Physical Review Letters</i> , 1997, 79, 1022-1025.	7.8	24
72	Shot noise and transport in small quantum cavities with large openings. <i>Physical Review B</i> , 2002, 66, .	3.2	24

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73	Excess quantum noise due to mode nonorthogonality in dielectric microresonators. Physical Review A, 2009, 79, .	2.5	24
74	One-particle density matrix occupation spectrum of many-body localized states after a global quench. Physical Review B, 2017, 96, .	3.2	24
75	Topological dynamics and excitations in lasers and condensates with saturable gain or loss. Optics Express, 2018, 26, 22506.	3.4	24
76	Microscopic versus mesoscopic local density of states in one-dimensional localization. Physical Review B, 2002, 65, .	3.2	23
77	Anomalous Wave Function Statistics on a One-Dimensional Lattice with Power-Law Disorder. Physical Review Letters, 2003, 91, 176601.	7.8	23
78	Universal twinkling exponents for spectral fluctuations associated with mixed chaology. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2000, 456, 1659-1668.	2.1	22
79	Nonexponential Decoherence and Momentum Subdiffusion in a Quantum Kicked Rotator. Physical Review Letters, 2007, 98, 260401.	7.8	22
80	Controlled decoherence in a quantum kicked rotator. Physical Review A, 2008, 77, .	2.5	22
81	Model for chaotic dielectric microresonators. Physical Review A, 2008, 77, .	2.5	21
82	Supersymmetric Polarization Anomaly in Photonic Discrete-Time Quantum Walks. Physical Review Letters, 2018, 121, 260501.	7.8	21
83	Lifetime statistics in chaotic dielectric microresonators. Physical Review A, 2009, 79, .	2.5	19
84	Robust localized zero-energy modes from locally embedded PT -symmetric defects. Physical Review Research, 2020, 2, .	3.6	19
85	Diagnostics of entanglement dynamics in noisy and disordered spin chains via the measurement-induced steady-state entanglement transition. Physical Review B, 2022, 105, .	3.2	18
86	Asymptotic-boundary-layer method for unstable trajectories: Semiclassical expansions for individual scar wave functions. Physical Review E, 2009, 80, 056202.	2.1	17
87	Universal routes to spontaneous P - T -symmetry breaking in non-Hermitian quantum systems. Physical Review A, 2011, 83, .	2.5	17
88	Gate driven adiabatic quantum pumping in graphene. Solid State Communications, 2011, 151, 1065-1070.	1.9	17
89	Degeneracy doubling and sublattice polarization in strain-induced pseudo-Landau levels. Physical Review B, 2014, 90, .	3.2	17
90	Kinetic theory of shot noise in nondegenerate diffusive conductors. Physical Review B, 1999, 60, 5839-5850.	3.2	16

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91	Shot Noise in Ballistic Quantum Dots with a Mixed Classical Phase Space. <i>Physical Review Letters</i> , 2002, 89, 066801.	7.8	16
92	Exponential Sensitivity to Dephasing of Electrical Conduction Through a Quantum Dot. <i>Physical Review Letters</i> , 2004, 93, 186806.	7.8	16
93	Effect of Chiral Symmetry on Chaotic Scattering from Majorana Zero Modes. <i>Physical Review Letters</i> , 2015, 114, 166803.	7.8	16
94	Compatibility of transport effects in non-Hermitian nonreciprocal systems. <i>Physical Review A</i> , 2021, 104, .	2.5	16
95	Transport in chaotic quantum dots: Effects of spatial symmetries which interchange the leads. <i>Physical Review B</i> , 2006, 73, .	3.2	15
96	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
97	Semiclassical transport in nearly symmetric quantum dots. I. Symmetry breaking in the dot. <i>Physical Review E</i> , 2009, 80, 056209.	2.1	15
98	Fast and slow edges in bilayer graphene nanoribbons: Tuning the transition from band to Mott insulator. <i>Physical Review B</i> , 2010, 81, .	3.2	15
99	Subdiffusive and superdiffusive quantum transport and generalized duality. <i>Physical Review B</i> , 1996, 53, R2914-R2917.	3.2	13
100	Formation and interaction of resonance chains in the open three-disk system. <i>New Journal of Physics</i> , 2014, 16, 033029.	2.9	13
101	Strain-induced modifications of transport in gated graphene nanoribbons. <i>Physical Review B</i> , 2014, 90, .	3.2	13
102	Search for Two-Scale Localization in Disordered Wires in a Magnetic Field. <i>Physical Review Letters</i> , 2000, 84, 3927-3929.	7.8	12
103	Effect of inelastic scattering on the average Coulomb-blockade peak height in quantum dots. <i>Physical Review B</i> , 2001, 64, .	3.2	12
104	Limits to Error Correction in Quantum Chaos. <i>Physical Review Letters</i> , 2001, 86, 5192-5195.	7.8	12
105	Localization-induced coherent backscattering effect in wave dynamics. <i>Physical Review E</i> , 2001, 63, 026605.	2.1	12
106	Charge and low-frequency response of normal-superconducting heterostructures. <i>Physical Review B</i> , 2002, 65, .	3.2	12
107	Causality and quantum interference in time-delayed laser-induced nonsequential double ionization. <i>Physical Review A</i> , 2012, 85, .	2.5	12
108	Disorder-induced pseudodiffusive transport in graphene nanoribbons. <i>Physical Review B</i> , 2009, 79, .	3.2	11

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109	Isotropic Brownian motions over complex fields as a solvable model for Wigner stability analysis. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 385201.	2.1	11
110	Short-distance wavefunction statistics in one-dimensional Anderson localization. European Physical Journal B, 2003, 35, 421-427.	1.5	10
111	Random-matrix theory of amplifying and absorbing resonators with \mathcal{PT} or \mathcal{PTT}' symmetry. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 444006.	2.1	10
112	Universal hypotrochoidic law for random matrices with cyclic correlations. Physical Review E, 2019, 100, 010302.	2.1	10
113	Transmission delay times of localized waves. Physical Review E, 2001, 64, 026606.	2.1	9
114	Multiple-path interferometer with a single quantum obstacle. Europhysics Letters, 2002, 57, 651-657.	2.0	9
115	Staggered repulsion of transmission eigenvalues in symmetric open mesoscopic systems. Physical Review B, 2008, 78, .	3.2	9
116	Self-Shielded Topological Receiver Protectors. Physical Review Applied, 2020, 13, .	3.8	9
117	Coherent backscattering effect on wave dynamics in a random medium. Europhysics Letters, 2000, 52, 518-524.	2.0	8
118	Generalized Galitskii approach for the vertex function of a Fermi gas with resonant interaction. Physical Review B, 2007, 76, .	3.2	8
119	Semiclassical transport in nearly symmetric quantum dots. II. Symmetry breaking due to asymmetric leads. Physical Review E, 2009, 80, 056210.	2.1	8
120	Non-Hermitian defect states from lifetime differences. Physical Review A, 2019, 100, .	2.5	8
121	Conductance enhancement in quantum-point-contact semiconductor-superconductor devices. Physical Review B, 1999, 60, 13762-13769.	3.2	7
122	Optomechanical probes of resonances in amplifying microresonators. Physical Review A, 2004, 70, .	2.5	7
123	Weyl law for open systems with sharply divided mixed phase space. Physical Review E, 2012, 85, 046203.	2.1	7
124	Many-body localization of zero modes. Physical Review Research, 2020, 2, .	3.6	7
125	Three-fold way of entanglement dynamics in monitored quantum circuits. Journal of Physics A: Mathematical and Theoretical, 0, , .	2.1	7
126	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi mathvariant="script"} \rangle \text{PC} \langle \text{/mml:mi} \rangle \langle \text{/mml:math} \rangle$ -symmetry-protected edge states in interacting driven-dissipative bosonic systems. Physical Review A, 2019, 99, .	2.5	6

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127	Synthetic dimensions and topological chiral currents in mesoscopic rings. <i>Physical Review Research</i> , 2020, 2, .	3.6	6
128	Random matrix theory of the proximity effect in disordered wires. <i>Physical Review B</i> , 2003, 67, .	3.2	5
129	Quasibound states at thresholds in multichannel impurity scattering. <i>Journal of Physics A</i> , 2003, 36, 1299-1314.	1.6	5
130	Electromagnetic modes in cavities made of negative-index metamaterials. <i>Physical Review A</i> , 2010, 81, .	2.5	5
131	Long-time signatures of short-time dynamics in decaying quantum-chaotic systems. <i>Physical Review E</i> , 2007, 75, 016217.	2.1	4
132	Statistical correlations in a Coulomb gas with a test charge. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 332002.	2.1	4
133	Quantum statistics of four-wave mixing by a nonlinear resonant microcavity. <i>Physical Review A</i> , 2014, 90, .	2.5	4
134	Andreev levels in a single-channel conductor. <i>Physical Review B</i> , 2001, 64, .	3.2	3
135	Counting Statistics for Mesoscopic Conductors with Internal Degrees Of Freedom. <i>Physical Review Letters</i> , 2010, 105, 026801.	7.8	3
136	Random-matrix perspective on many-body entanglement with a finite localization length. <i>Physical Review Research</i> , 2020, 2, .	3.6	3
137	Large sample-to-sample fluctuations of the nonequilibrium critical current through mesoscopic Josephson junctions. <i>Physical Review B</i> , 2001, 63, .	3.2	2
138	Semiclassical singularities from bifurcating orbits. <i>Physical Review E</i> , 2001, 63, 066208.	2.1	2
139	Superconducting Terminals as Sensitive Probes for Scarred States. <i>Physical Review Letters</i> , 2006, 97, 124102.	7.8	2
140	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.	2.7	2
141	Special issue in honour of the life and work of Fritz Haake. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 130301.	2.1	2
142	Corbino field-effect transistors in a magnetic field: Highly tunable photodetectors. <i>Physical Review B</i> , 2021, 104, .	3.2	2
143	Fock-space geometry and strong correlations in many-body localized systems. <i>Physical Review B</i> , 2021, 104, .	3.2	2
144	Noisy monitored quantum dynamics of ergodic multi-qubit systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 0, , .	2.1	2

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145	Analytical analysis of single-photon correlations emitted by disordered semiconductor heterostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 23-29.	2.2	1
146	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.	2.7	1
147	Fermionic phases and their transitions induced by competing finite-range interactions. <i>Physical Review B</i> , 2018, 98, .	3.2	1
148	Single-Mode Delay Time Statistics for Scattering by a Chaotic Cavity. <i>Physica Scripta</i> , 2001, T90, 278.	2.5	1
149	Twofold-broken rational tori and the uniform semiclassical approximation. <i>European Physical Journal D</i> , 2000, 10, 5-8.	1.3	0
150	Electron-electron relaxation in disordered interacting systems. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 699-702.	0.8	0
151	The role of charge conjugation symmetry in topological photonics. , 2016, , .		0
152	Nonsequential double ionization: the simple man's S-matrix description. , 2004, , .		0
153	Universal sign-control of evanescent coupling. , 2016, , .		0