## **Henning Schomerus**

List of Publications by Year in descending order

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61687 78623 6,723 153 45 77 citations h-index g-index papers 153 153 153 4918 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Roadmap on topological photonics. JPhys Photonics, 2022, 4, 032501.	2.2	56
2	Diagnostics of entanglement dynamics in noisy and disordered spin chains via the measurement-induced steady-state entanglement transition. Physical Review B, 2022, 105, .	1.1	18
3	Special issue in honour of the life and work of Fritz Haake. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 130301.	0.7	2
4	Compatibility of transport effects in non-Hermitian nonreciprocal systems. Physical Review A, 2021, 104, .	1.0	16
5	Corbino field-effect transistors in a magnetic field: Highly tunable photodetectors. Physical Review B, 2021, 104, .	1.1	2
6	Fock-space geometry and strong correlations in many-body localized systems. Physical Review B, 2021, 104, .	1.1	2
7	Observation of supersymmetric pseudo-Landau levels in strained microwave graphene. Light: Science and Applications, 2020, 9, 146.	7.7	26
8	Universality of Entanglement Transitions from Stroboscopic to Continuous Measurements. Physical Review Letters, 2020, 125, 210602.	2.9	64
9	Self-Shielded Topological Receiver Protectors. Physical Review Applied, 2020, 13, .	1.5	9
10	Nonreciprocal response theory of non-Hermitian mechanical metamaterials: Response phase transition from the skin effect of zero modes. Physical Review Research, 2020, 2, .	1.3	60
11	Many-body localization of zero modes. Physical Review Research, 2020, 2, .	1.3	7
12	Random-matrix perspective on many-body entanglement with a finite localization length. Physical Review Research, 2020, 2, .	1.3	3
13	Synthetic dimensions and topological chiral currents in mesoscopic rings. Physical Review Research, 2020, 2, .	1.3	6
14	Robust localized zero-energy modes from locally embedded PT -symmetric defects. Physical Review Research, 2020, 2, .	1.3	19
15	Universal hypotrochoidic law for random matrices with cyclic correlations. Physical Review E, 2019, 100, 010302.	0.8	10
16	Entanglement transition from variable-strength weak measurements. Physical Review B, 2019, 100, .	1.1	150
17	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script"&gt;PC</mml:mi </mml:math> -symmetry-protected edge states in interacting driven-dissipative bosonic systems. Physical Review A, 2019, 99, .	1.0	6
18	Effect of photonic spin-orbit coupling on the topological edge modes of a Su-Schrieffer-Heeger chain. Physical Review B, 2019, 99, .	1.1	34

#	Article	IF	CITATIONS
19	Non-Hermitian defect states from lifetime differences. Physical Review A, 2019, 100, .	1.0	8
20	Experimental Realization of Multiple Topological Edge States in a 1D Photonic Lattice. Laser and Photonics Reviews, 2019, 13, 1800202.	4.4	36
21	Exciton Polaritons in a Two-Dimensional Lieb Lattice with Spin-Orbit Coupling. Physical Review Letters, 2018, 120, 097401.	2.9	120
22	Topological hybrid silicon microlasers. Nature Communications, 2018, 9, 981.	5.8	345
23	Supersymmetric Polarization Anomaly in Photonic Discrete-Time Quantum Walks. Physical Review Letters, 2018, 121, 260501.	2.9	21
24	Bulk and edge-state arcs in non-Hermitian coupled-resonator arrays. Physical Review A, 2018, 98, .	1.0	34
25	Topological dynamics and excitations in lasers and condensates with saturable gain or loss. Optics Express, 2018, 26, 22506.	1.7	24
26	Nonlinear mode competition and symmetry-protected power oscillations in topological lasers. New Journal of Physics, 2018, 20, 063044.	1.2	31
27	Fermionic phases and their transitions induced by competing finite-range interactions. Physical Review B, 2018, 98, .	1.1	1
28	Oneâ€particle density matrix characterization of manyâ€body localization. Annalen Der Physik, 2017, 529, 1600356.	0.9	45
29	One-particle density matrix occupation spectrum of many-body localized states after a global quench. Physical Review B, 2017, 96, .	1.1	24
30	Topological tight-binding models from nontrivial square roots. Physical Review B, 2017, 95, .	1.1	82
31	Partial chiral symmetry-breaking as a route to spectrally isolated topological defect states in two-dimensional artificial materials. 2D Materials, 2017, 4, 025008.	2.0	41
32	Sonic Landau Levels and Synthetic Gauge Fields in Mechanical Metamaterials. Physical Review Letters, 2017, 119, 195502.	2.9	61
33	Effect of a tunnel barrier on the scattering from a Majorana bound state in an Andreev billiard. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 77, 54-64.	1.3	2
34	Isotropic Brownian motions over complex fields as a solvable model for May–Wigner stability analysis. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 385201.	0.7	11
35	The role of charge conjugation symmetry in topological photonics. , 2016, , .		0
36	Universal Sign Control of Coupling in Tight-Binding Lattices. Physical Review Letters, 2016, 116, 213901.	2.9	56

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37	Reprint of : Effect of a tunnel barrier on the scattering from a Majorana bound state in an Andreev billiard. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 82, 106-116.	1.3	1
38	Universal sign-control of evanescent coupling. , 2016, , .		0
39	Influence of the Coulomb potential on above-threshold ionization: A quantum-orbit analysis beyond the strong-field approximation. Physical Review A, 2015, 92, .	1.0	59
40	Nonequilibrium steady states of ideal bosonic and fermionic quantum gases. Physical Review E, 2015, 92, 062119.	0.8	29
41	Many-Body Localization Characterized from a One-Particle Perspective. Physical Review Letters, 2015, 115, 046603.	2.9	182
42	Topologically Protected Defect States in Open Photonic Systems with Non-Hermitian Charge-Conjugation and Parity-Time Symmetry. Physical Review Letters, 2015, 115, 200402.	2.9	299
43	Effect of Chiral Symmetry on Chaotic Scattering from Majorana Zero Modes. Physical Review Letters, 2015, 114, 166803.	2.9	16
44	Selective enhancement of topologically induced interface states in a dielectric resonator chain. Nature Communications, 2015, 6, 6710.	5.8	416
45	Formation and interaction of resonance chains in the open three-disk system. New Journal of Physics, 2014, 16, 033029.	1.2	13
46	Quantum statistics of four-wave mixing by a nonlinear resonant microcavity. Physical Review A, 2014, 90, .	1.0	4
47	Non-Hermitian-transport effects in coupled-resonator optical waveguides. Physical Review A, 2014, 90,	1.0	29
48	Strain-induced modifications of transport in gated graphene nanoribbons. Physical Review B, 2014, 90,	1.1	13
49	Degeneracy doubling and sublattice polarization in strain-induced pseudo-Landau levels. Physical Review B, 2014, 90, .	1.1	17
50	Transport Signatures of Pseudomagnetic Landau Levels in Strained Graphene Ribbons. Physical Review Letters, 2013, 110, 266801.	2.9	32
51	Topologically protected midgap states in complex photonic lattices. Optics Letters, 2013, 38, 1912.	1.7	312
52	Fermion-Parity Anomaly of the Critical Supercurrent in the Quantum Spin-Hall Effect. Physical Review Letters, 2013, 110, 017003.	2.9	116
53	Parity Anomaly and Landau-Level Lasing in Strained Photonic Honeycomb Lattices. Physical Review Letters, 2013, 110, 013903.	2.9	62
54	From scattering theory to complex wave dynamics in non-Hermitian <i>PT</i> -symmetric resonators. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120194.	1.6	33

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55	A zero-voltage conductance peak from weak antilocalization in a Majorana nanowire. New Journal of Physics, 2012, 14, 125011.	1.2	247
56	Quasideterministic realization of a universal quantum gate in a single scattering process. Physical Review A, 2012, 85, .	1.0	36
57	Causality and quantum interference in time-delayed laser-induced nonsequential double ionization. Physical Review A, 2012, 85, .	1.0	12
58	Weyl law for open systems with sharply divided mixed phase space. Physical Review E, 2012, 85, 046203.	0.8	7
59	Random-matrix theory of amplifying and absorbing resonators with \$mathcal {PT}\$ or \$mathcal {PTT}^{prime }\$ symmetry. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 444006.	0.7	10
60	Conductance anomaly near the Lifshitz transition in strained bilayer graphene. Physical Review B, 2012, 85, .	1.1	25
61	Laser-induced quantum pumping in graphene. Applied Physics Letters, 2012, 101, .	1.5	48
62	Universal routes to spontaneous <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="script">P</mml:mi><mml:mi mathvariant="script">T</mml:mi></mml:mrow></mml:math> -symmetry breaking in non-Hermitian quantum systems. Physical Review A, 2011, 83, .	1.0	17
63	Gate driven adiabatic quantum pumping in graphene. Solid State Communications, 2011, 151, 1065-1070.	0.9	17
64	Quantum noise and mode nonorthogonality in non-Hermitian <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math> -symmetric optical resonators. Physical Review A, 2011, 84, .	1.0	56
65	Nonorthogonal pairs of copropagating optical modes in deformed microdisk cavities. Physical Review A, 2011, 84, .	1.0	78
66	Single-parameter pumping in graphene. Physical Review B, 2011, 84, .	1.1	67
67	Fast and slow edges in bilayer graphene nanoribbons: Tuning the transition from band to Mott insulator. Physical Review B, 2010, 81, .	1.1	15
68	Electromagnetic modes in cavities made of negative-index metamaterials. Physical Review A, 2010, 81, .	1.0	5
69	Counting Statistics for Mesoscopic Conductors with Internal Degrees Of Freedom. Physical Review Letters, 2010, 105, 026801.	2.9	3
70	Fractal Weyl laws for quantum decay in dynamical systems with a mixed phase space. Physical Review E, 2010, 81, 026208.	0.8	26
71	Quantum Noise and Self-Sustained Radiation of <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">P</mml:mi><mml:mi mathvariant="script">T</mml:mi></mml:math> -Symmetric Systems. Physical Review Letters. 2010. 104. 233601.	2.9	152
72	Helical scattering and valleytronics in bilayer graphene. Physical Review B, 2010, 82, .	1.1	42

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73	Asymptotic-boundary-layer method for unstable trajectories: Semiclassical expansions for individual scar wave functions. Physical Review E, 2009, 80, 056202.	0.8	17
74	Quantum pumping in graphene. Physical Review B, 2009, 80, .	1.1	113
75	Semiclassical transport in nearly symmetric quantum dots. II. Symmetry breaking due to asymmetric leads. Physical Review E, 2009, 80, 056210.	0.8	8
76	Lifetime statistics in chaotic dielectric microresonators. Physical Review A, 2009, 79, .	1.0	19
77	Excess quantum noise due to mode nonorthogonality in dielectric microresonators. Physical Review A, 2009, 79, .	1.0	24
78	Analytical analysis of single-photon correlations emitted by disordered semiconductor heterostructures. Journal of Materials Science: Materials in Electronics, 2009, 20, 23-29.	1.1	1
79	Disorder-induced pseudodiffusive transport in graphene nanoribbons. Physical Review B, 2009, 79, .	1.1	11
80	Semiclassical transport in nearly symmetric quantum dots. I. Symmetry breaking in the dot. Physical Review E, 2009, 80, 056209.	0.8	15
81	Pseudospin Valve in Bilayer Graphene: Towards Graphene-Based Pseudospintronics. Physical Review Letters, 2009, 102, 247204.	2.9	143
82	Electron-electron relaxation in disordered interacting systems. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 699-702.	0.8	0
83	Model for chaotic dielectric microresonators. Physical Review A, 2008, 77, .	1.0	21
84	Adsorbate-Limited Conductivity of Graphene. Physical Review Letters, 2008, 101, 196803.	2.9	201
85	Controlled decoherence in a quantum Lévy kicked rotator. Physical Review A, 2008, 77, .	1.0	22
86	Staggered repulsion of transmission eigenvalues in symmetric open mesoscopic systems. Physical Review B, 2008, 78, .	1.1	9
87	Statistical correlations in a Coulomb gas with a test charge. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 332002.	0.7	4
88	Entanglement between static and flying qubits in an Aharonov–Bohm double electrometer. New Journal of Physics, 2007, 9, 67-67.	1.2	15
89	Generalized Galitskii approach for the vertex function of a Fermi gas with resonant interaction. Physical Review B, 2007, 76, .	1.1	8
90	Long-time signatures of short-time dynamics in decaying quantum-chaotic systems. Physical Review E, 2007, 75, 016217.	0.8	4

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91	Nonexponential Decoherence and Momentum Subdiffusion in a Quantum Lévy Kicked Rotator. Physical Review Letters, 2007, 98, 260401.	2.9	22
92	Effective contact model for transport through weakly-doped graphene. Physical Review B, 2007, 76, .	1.1	99
93	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, .	1.1	70
94	Transport in chaotic quantum dots: Effects of spatial symmetries which interchange the leads. Physical Review B, 2006, 73, .	1.1	15
95	Correcting Ray Optics at Curved Dielectric Microresonator Interfaces: Phase-Space Unification of Fresnel Filtering and the Goos-HÃ <b>¤</b> chen Shift. Physical Review Letters, 2006, 96, 243903.	2.9	69
96	Superconducting Terminals as Sensitive Probes for Scarred States. Physical Review Letters, 2006, 97, 124102.	2.9	2
97	Non-Markovian master equations from entanglement with stationary unobserved degrees of freedom. Journal of Physics A, 2005, 38, 9251-9262.	1.6	27
98	Nonuniversality of Anderson Localization in Short-Range Correlated Disorder. Physical Review Letters, 2005, 95, 126602.	2.9	48
99	Quantum-to-classical correspondence in open chaotic systems. Journal of Physics A, 2005, 38, 10663-10682.	1.6	50
100	Exponential Sensitivity to Dephasing of Electrical Conduction Through a Quantum Dot. Physical Review Letters, 2004, 93, 186806.	2.9	16
101	Antibunched Photons Emitted by a Quantum Point Contact out of Equilibrium. Physical Review Letters, 2004, 93, 096801.	2.9	55
102	Optomechanical probes of resonances in amplifying microresonators. Physical Review A, 2004, 70, .	1.0	7
103	Electron-electron dynamics in laser-induced nonsequential double ionization. Physical Review A, 2004, 69, .	1.0	83
104	Coulomb repulsion and quantum-classical correspondence in laser-induced nonsequential double ionization. Physical Review A, 2004, 69, .	1.0	44
105	Quantum-to-Classical Crossover of Quasibound States in Open Quantum Systems. Physical Review Letters, 2004, 93, 154102.	2.9	105
106	Aharonov-Bohm physics with spin. I. Geometric phases in one-dimensional ballistic rings. Physical Review B, 2004, 69, .	1.1	39
107	Nonsequential double ionization: the simple man's S-matrix description. , 2004, , .		0
108	Short-distance wavefunction statistics in one-dimensional Anderson localization. European Physical Journal B, 2003, 35, 421-427.	0.6	10

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109	Random matrix theory of the proximity effect in disordered wires. Physical Review B, 2003, 67, .	1.1	5
110	Band-center anomaly of the conductance distribution in one-dimensional Anderson localization. Physical Review B, 2003, 67, .	1.1	71
111	Husimi functions at dielectric interfaces: Inside-outside duality for optical systems and beyond. Europhysics Letters, 2003, 62, 636-642.	0.7	126
112	Dynamical model for the quantum-to-classical crossover of shot noise. Physical Review B, 2003, 68, .	1.1	46
113	Quantum Andreev Map: A Paradigm of Quantum Chaos in Superconductivity. Physical Review Letters, 2003, 90, 207004.	2.9	47
114	Anomalous Wave Function Statistics on a One-Dimensional Lattice with Power-Law Disorder. Physical Review Letters, 2003, 91, 176601.	2.9	23
115	Quasibound states at thresholds in multichannel impurity scattering. Journal of Physics A, 2003, 36, 1299-1314.	1.6	5
116	Shot Noise in Ballistic Quantum Dots with a Mixed Classical Phase Space. Physical Review Letters, 2002, 89, 066801.	2.9	16
117	Statistics of finite-time Lyapunov exponents in a random time-dependent potential. Physical Review E, 2002, 66, 066207.	0.8	52
118	Charge and low-frequency response of normal-superconducting heterostructures. Physical Review B, 2002, 65, .	1.1	12
119	Shot noise and transport in small quantum cavities with large openings. Physical Review B, 2002, 66, .	1.1	24
120	Multiple-path interferometer with a single quantum obstacle. Europhysics Letters, 2002, 57, 651-657.	0.7	9
121	High-order above-threshold ionization: The uniform approximation and the effect of the binding potential. Physical Review A, 2002, 66, .	1.0	124
122	Fresnel laws at curved dielectric interfaces of microresonators. Physical Review E, 2002, 65, 045603.	0.8	58
123	Microscopic versus mesoscopic local density of states in one-dimensional localization. Physical Review B, 2002, 65, .	1.1	23
124	Effect of dephasing on charge-counting statistics in chaotic cavities. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 11, 1-7.	1.3	28
125	Effect of inelastic scattering on the average Coulomb-blockade peak height in quantum dots. Physical Review B, 2001, 64, .	1.1	12
126	Large sample-to-sample fluctuations of the nonequilibrium critical current through mesoscopic Josephson junctions. Physical Review B, 2001, 63, .	1.1	2

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127	Andreev levels in a single-channel conductor. Physical Review B, 2001, 64, .	1.1	3
128	Semiclassical singularities from bifurcating orbits. Physical Review E, 2001, 63, 066208.	0.8	2
129	Transmission delay times of localized waves. Physical Review E, 2001, 64, 026606.	0.8	9
130	Limits to Error Correction in Quantum Chaos. Physical Review Letters, 2001, 86, 5192-5195.	2.9	12
131	Counting Statistics of Photons Produced by Electronic Shot Noise. Physical Review Letters, 2001, 86, 700-703.	2.9	95
132	Localization-induced coherent backscattering effect in wave dynamics. Physical Review E, 2001, 63, 026605.	0.8	12
133	Single-Mode Delay Time Statistics for Scattering by a Chaotic Cavity. Physica Scripta, 2001, T90, 278.	1.2	1
134	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.	1.2	82
135	Twofold-broken rational tori and the uniform semiclassical approximation. European Physical Journal D, 2000, 10, 5-8.	0.6	0
136	Quantum-limited linewidth of a chaotic laser cavity. Physical Review A, 2000, 61, .	1.0	33
137	Coherent backscattering effect on wave dynamics in a random medium. Europhysics Letters, 2000, 52, 518-524.	0.7	8
138	Search for Two-Scale Localization in Disordered Wires in a Magnetic Field. Physical Review Letters, 2000, 84, 3927-3929.	2.9	12
139	Large Petermann factor in chaotic cavities with many scattering channels. Europhysics Letters, 2000, 49, 48-54.	0.7	48
140	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.	1.0	22
141	Conductance enhancement in quantum-point-contact semiconductor-superconductor devices. Physical Review B, 1999, 60, 13762-13769.	1.1	7
142	Kinetic theory of shot noise in nondegenerate diffusive conductors. Physical Review B, 1999, 60, 5839-5850.	1.1	16
143	Excitation Spectrum of Andreev Billiards with a Mixed Phase Space. Physical Review Letters, 1999, 82, 2951-2954.	2.9	45
144	Uniform approximation for period-quadrupling bifurcations. Journal of Physics A, 1998, 31, 165-183.	1.6	36

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145	Periodic orbits near bifurcations of codimension two: Classical mechanics, semiclassics and Stokes transitions. Journal of Physics A, 1998, 31, 4167-4196.	1.6	28
146	Semiclassical Spectra from Periodic-Orbit Clusters in a Mixed Phase Space. Physical Review Letters, 1997, 79, 1022-1025.	2.9	24
147	Bifurcations of periodic orbits and uniform approximations. Journal of Physics A, 1997, 30, 4537-4562.	1.6	85
148	Semiclassical interference of bifurcations. Europhysics Letters, 1997, 38, 423-428.	0.7	26
149	Semiclassics of rotation and torsion. Zeitschrift Fýr Physik B-Condensed Matter, 1996, 100, 115-127.	1.1	25
150	Subdiffusive and superdiffusive quantum transport and generalized duality. Physical Review B, 1996, 53, R2914-R2917.	1.1	13
151	Secular determinants of random unitary matrices. Journal of Physics A, 1996, 29, 3641-3658.	1.6	63
152	Noisy monitored quantum dynamics of ergodic multi-qubit systems. Journal of Physics A: Mathematical and Theoretical, $0$ , , .	0.7	2
153	Three-fold way of entanglement dynamics in monitored quantum circuits. Journal of Physics A: Mathematical and Theoretical, 0, , .	0.7	7