

# Henning Schomerus

## List of Publications by Year in descending order

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153  
papers

6,723  
citations

53794

45  
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69250

77  
g-index

153  
all docs

153  
docs citations

153  
times ranked

4307  
citing authors

#	ARTICLE	IF	CITATIONS
1	Roadmap on topological photonics. JPhys Photonics, 2022, 4, 032501.	4.6	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, .	3.2	18
3	Special issue in honour of the life and work of Fritz Haake. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 130301.	2.1	2
4	Compatibility of transport effects in non-Hermitian nonreciprocal systems. Physical Review A, 2021, 104, .	2.5	16
5	Corbino field-effect transistors in a magnetic field: Highly tunable photodetectors. Physical Review B, 2021, 104, .	3.2	2
6	Fock-space geometry and strong correlations in many-body localized systems. Physical Review B, 2021, 104, .	3.2	2
7	Observation of supersymmetric pseudo-Landau levels in strained microwave graphene. Light: Science and Applications, 2020, 9, 146.	16.6	26
8	Universality of Entanglement Transitions from Stroboscopic to Continuous Measurements. Physical Review Letters, 2020, 125, 210602.	7.8	64
9	Self-Shielded Topological Receiver Protectors. Physical Review Applied, 2020, 13, .	3.8	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, .	3.6	60
11	Many-body localization of zero modes. Physical Review Research, 2020, 2, .	3.6	7
12	Random-matrix perspective on many-body entanglement with a finite localization length. Physical Review Research, 2020, 2, .	3.6	3
13	Synthetic dimensions and topological chiral currents in mesoscopic rings. Physical Review Research, 2020, 2, .	3.6	6
14	Robust localized zero-energy modes from locally embedded PT -symmetric defects. Physical Review Research, 2020, 2, .	3.6	19
15	Universal hypotrochoidic law for random matrices with cyclic correlations. Physical Review E, 2019, 100, 010302.	2.1	10
16	Entanglement transition from variable-strength weak measurements. Physical Review B, 2019, 100, .	3.2	150
17	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi mathvariant="script"} \rangle \text{PC} \langle \text{/mml:mi} \rangle \langle \text{/mml:math} \rangle$ -symmetry-protected edge states in interacting driven-dissipative bosonic systems. Physical Review A, 2019, 99, .	2.5	6
18	Effect of photonic spin-orbit coupling on the topological edge modes of a Su-Schrieffer-Heeger chain. Physical Review B, 2019, 99, .	3.2	34

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19	Non-Hermitian defect states from lifetime differences. <i>Physical Review A</i> , 2019, 100, .	2.5	8
20	Experimental Realization of Multiple Topological Edge States in a 1D Photonic Lattice. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800202.	8.7	36
21	Exciton Polaritons in a Two-Dimensional Lieb Lattice with Spin-Orbit Coupling. <i>Physical Review Letters</i> , 2018, 120, 097401.	7.8	120
22	Topological hybrid silicon microlasers. <i>Nature Communications</i> , 2018, 9, 981.	12.8	345
23	Supersymmetric Polarization Anomaly in Photonic Discrete-Time Quantum Walks. <i>Physical Review Letters</i> , 2018, 121, 260501.	7.8	21
24	Bulk and edge-state arcs in non-Hermitian coupled-resonator arrays. <i>Physical Review A</i> , 2018, 98, .	2.5	34
25	Topological dynamics and excitations in lasers and condensates with saturable gain or loss. <i>Optics Express</i> , 2018, 26, 22506.	3.4	24
26	Nonlinear mode competition and symmetry-protected power oscillations in topological lasers. <i>New Journal of Physics</i> , 2018, 20, 063044.	2.9	31
27	Fermionic phases and their transitions induced by competing finite-range interactions. <i>Physical Review B</i> , 2018, 98, .	3.2	1
28	One-particle density matrix characterization of many-body localization. <i>Annalen Der Physik</i> , 2017, 529, 1600356.	2.4	45
29	One-particle density matrix occupation spectrum of many-body localized states after a global quench. <i>Physical Review B</i> , 2017, 96, .	3.2	24
30	Topological tight-binding models from nontrivial square roots. <i>Physical Review B</i> , 2017, 95, .	3.2	82
31	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.	4.4	41
32	Sonic Landau Levels and Synthetic Gauge Fields in Mechanical Metamaterials. <i>Physical Review Letters</i> , 2017, 119, 195502.	7.8	61
33	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
34	Isotropic Brownian motions over complex fields as a solvable model for Wigner stability analysis. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 385201.	2.1	11
35	The role of charge conjugation symmetry in topological photonics. , 2016, , .		0
36	Universal Sign Control of Coupling in Tight-Binding Lattices. <i>Physical Review Letters</i> , 2016, 116, 213901.	7.8	56

#	ARTICLE	IF	CITATIONS
37	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
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. <i>Physical Review A</i> , 2015, 92, .	2.5	59
40	Nonequilibrium steady states of ideal bosonic and fermionic quantum gases. <i>Physical Review E</i> , 2015, 92, 062119.	2.1	29
41	Many-Body Localization Characterized from a One-Particle Perspective. <i>Physical Review Letters</i> , 2015, 115, 046603.	7.8	182
42	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.	7.8	299
43	Effect of Chiral Symmetry on Chaotic Scattering from Majorana Zero Modes. <i>Physical Review Letters</i> , 2015, 114, 166803.	7.8	16
44	Selective enhancement of topologically induced interface states in a dielectric resonator chain. <i>Nature Communications</i> , 2015, 6, 6710.	12.8	416
45	Formation and interaction of resonance chains in the open three-disk system. <i>New Journal of Physics</i> , 2014, 16, 033029.	2.9	13
46	Quantum statistics of four-wave mixing by a nonlinear resonant microcavity. <i>Physical Review A</i> , 2014, 90, .	2.5	4
47	Non-Hermitian-transport effects in coupled-resonator optical waveguides. <i>Physical Review A</i> , 2014, 90, .	2.5	29
48	Strain-induced modifications of transport in gated graphene nanoribbons. <i>Physical Review B</i> , 2014, 90, .	3.2	13
49	Degeneracy doubling and sublattice polarization in strain-induced pseudo-Landau levels. <i>Physical Review B</i> , 2014, 90, .	3.2	17
50	Transport Signatures of Pseudomagnetic Landau Levels in Strained Graphene Ribbons. <i>Physical Review Letters</i> , 2013, 110, 266801.	7.8	32
51	Topologically protected midgap states in complex photonic lattices. <i>Optics Letters</i> , 2013, 38, 1912.	3.3	312
52	Fermion-Parity Anomaly of the Critical Supercurrent in the Quantum Spin-Hall Effect. <i>Physical Review Letters</i> , 2013, 110, 017003.	7.8	116
53	Parity Anomaly and Landau-Level Lasing in Strained Photonic Honeycomb Lattices. <i>Physical Review Letters</i> , 2013, 110, 013903.	7.8	62
54	From scattering theory to complex wave dynamics in non-Hermitian $\langle i \rangle_{PT}$ -symmetric resonators. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120194.	3.4	33

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55	A zero-voltage conductance peak from weak antilocalization in a Majorana nanowire. <i>New Journal of Physics</i> , 2012, 14, 125011.	2.9	247
56	Quasideterministic realization of a universal quantum gate in a single scattering process. <i>Physical Review A</i> , 2012, 85, .	2.5	36
57	Causality and quantum interference in time-delayed laser-induced nonsequential double ionization. <i>Physical Review A</i> , 2012, 85, .	2.5	12
58	Weyl law for open systems with sharply divided mixed phase space. <i>Physical Review E</i> , 2012, 85, 046203.	2.1	7
59	Random-matrix theory of amplifying and absorbing resonators with $\text{PT}$ or $\text{PTT}^{\prime}$ symmetry. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 444006.	2.1	10
60	Conductance anomaly near the Lifshitz transition in strained bilayer graphene. <i>Physical Review B</i> , 2012, 85, .	3.2	25
61	Laser-induced quantum pumping in graphene. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	48
62	Universal routes to spontaneous $\text{PT}$ symmetry breaking in non-Hermitian quantum systems. <i>Physical Review A</i> , 2011, 83, .	2.5	17
63	Gate driven adiabatic quantum pumping in graphene. <i>Solid State Communications</i> , 2011, 151, 1065-1070.	1.9	17
64	Quantum noise and mode nonorthogonality in non-Hermitian $\text{PT}$ -symmetric optical resonators. <i>Physical Review A</i> , 2011, 84, .	2.5	56
65	Nonorthogonal pairs of copropagating optical modes in deformed microdisk cavities. <i>Physical Review A</i> , 2011, 84, .	2.5	78
66	Single-parameter pumping in graphene. <i>Physical Review B</i> , 2011, 84, .	3.2	67
67	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
68	Electromagnetic modes in cavities made of negative-index metamaterials. <i>Physical Review A</i> , 2010, 81, .	2.5	5
69	Counting Statistics for Mesoscopic Conductors with Internal Degrees Of Freedom. <i>Physical Review Letters</i> , 2010, 105, 026801.	7.8	3
70	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
71	Quantum Noise and Self-Sustained Radiation of $\text{PT}$ -Symmetric Systems. <i>Physical Review Letters</i> , 2010, 104, 233601.	7.8	152
72	Helical scattering and valleytronics in bilayer graphene. <i>Physical Review B</i> , 2010, 82, .	3.2	42

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73	Asymptotic-boundary-layer method for unstable trajectories: Semiclassical expansions for individual scar wave functions. <i>Physical Review E</i> , 2009, 80, 056202.	2.1	17
74	Quantum pumping in graphene. <i>Physical Review B</i> , 2009, 80, .	3.2	113
75	Semiclassical transport in nearly symmetric quantum dots. II. Symmetry breaking due to asymmetric leads. <i>Physical Review E</i> , 2009, 80, 056210.	2.1	8
76	Lifetime statistics in chaotic dielectric microresonators. <i>Physical Review A</i> , 2009, 79, .	2.5	19
77	Excess quantum noise due to mode nonorthogonality in dielectric microresonators. <i>Physical Review A</i> , 2009, 79, .	2.5	24
78	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
79	Disorder-induced pseudodiffusive transport in graphene nanoribbons. <i>Physical Review B</i> , 2009, 79, .	3.2	11
80	Semiclassical transport in nearly symmetric quantum dots. I. Symmetry breaking in the dot. <i>Physical Review E</i> , 2009, 80, 056209.	2.1	15
81	Pseudospin Valve in Bilayer Graphene: Towards Graphene-Based Pseudospintronics. <i>Physical Review Letters</i> , 2009, 102, 247204.	7.8	143
82	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
83	Model for chaotic dielectric microresonators. <i>Physical Review A</i> , 2008, 77, .	2.5	21
84	Adsorbate-Limited Conductivity of Graphene. <i>Physical Review Letters</i> , 2008, 101, 196803.	7.8	201
85	Controlled decoherence in a quantum $\Lambda$ -kicked rotator. <i>Physical Review A</i> , 2008, 77, .	2.5	22
86	Staggered repulsion of transmission eigenvalues in symmetric open mesoscopic systems. <i>Physical Review B</i> , 2008, 78, .	3.2	9
87	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
88	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
89	Generalized Galitskii approach for the vertex function of a Fermi gas with resonant interaction. <i>Physical Review B</i> , 2007, 76, .	3.2	8
90	Long-time signatures of short-time dynamics in decaying quantum-chaotic systems. <i>Physical Review E</i> , 2007, 75, 016217.	2.1	4

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91	Nonexponential Decoherence and Momentum Subdiffusion in a Quantum Driven Kicked Rotator. Physical Review Letters, 2007, 98, 260401.	7.8	22
92	Effective contact model for transport through weakly-doped graphene. Physical Review B, 2007, 76, .	3.2	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, .	3.2	70
94	Transport in chaotic quantum dots: Effects of spatial symmetries which interchange the leads. Physical Review B, 2006, 73, .	3.2	15
95	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
96	Superconducting Terminals as Sensitive Probes for Scarred States. Physical Review Letters, 2006, 97, 124102.	7.8	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.	7.8	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.	7.8	16
101	Antibunched Photons Emitted by a Quantum Point Contact out of Equilibrium. Physical Review Letters, 2004, 93, 096801.	7.8	55
102	Optomechanical probes of resonances in amplifying microresonators. Physical Review A, 2004, 70, .	2.5	7
103	Electron-electron dynamics in laser-induced nonsequential double ionization. Physical Review A, 2004, 69, .	2.5	83
104	Coulomb repulsion and quantum-classical correspondence in laser-induced nonsequential double ionization. Physical Review A, 2004, 69, .	2.5	44
105	Quantum-to-Classical Crossover of Quasibound States in Open Quantum Systems. Physical Review Letters, 2004, 93, 154102.	7.8	105
106	Aharonov-Bohm physics with spin. I. Geometric phases in one-dimensional ballistic rings. Physical Review B, 2004, 69, .	3.2	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.	1.5	10

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109	Random matrix theory of the proximity effect in disordered wires. <i>Physical Review B</i> , 2003, 67, .	3.2	5
110	Band-center anomaly of the conductance distribution in one-dimensional Anderson localization. <i>Physical Review B</i> , 2003, 67, .	3.2	71
111	Husimi functions at dielectric interfaces: Inside-outside duality for optical systems and beyond. <i>Europhysics Letters</i> , 2003, 62, 636-642.	2.0	126
112	Dynamical model for the quantum-to-classical crossover of shot noise. <i>Physical Review B</i> , 2003, 68, .	3.2	46
113	Quantum Andreev Map: A Paradigm of Quantum Chaos in Superconductivity. <i>Physical Review Letters</i> , 2003, 90, 207004.	7.8	47
114	Anomalous Wave Function Statistics on a One-Dimensional Lattice with Power-Law Disorder. <i>Physical Review Letters</i> , 2003, 91, 176601.	7.8	23
115	Quasibound states at thresholds in multichannel impurity scattering. <i>Journal of Physics A</i> , 2003, 36, 1299-1314.	1.6	5
116	Shot Noise in Ballistic Quantum Dots with a Mixed Classical Phase Space. <i>Physical Review Letters</i> , 2002, 89, 066801.	7.8	16
117	Statistics of finite-time Lyapunov exponents in a random time-dependent potential. <i>Physical Review E</i> , 2002, 66, 066207.	2.1	52
118	Charge and low-frequency response of normal-superconducting heterostructures. <i>Physical Review B</i> , 2002, 65, .	3.2	12
119	Shot noise and transport in small quantum cavities with large openings. <i>Physical Review B</i> , 2002, 66, .	3.2	24
120	Multiple-path interferometer with a single quantum obstacle. <i>Europhysics Letters</i> , 2002, 57, 651-657.	2.0	9
121	High-order above-threshold ionization: The uniform approximation and the effect of the binding potential. <i>Physical Review A</i> , 2002, 66, .	2.5	124
122	Fresnel laws at curved dielectric interfaces of microresonators. <i>Physical Review E</i> , 2002, 65, 045603.	2.1	58
123	Microscopic versus mesoscopic local density of states in one-dimensional localization. <i>Physical Review B</i> , 2002, 65, .	3.2	23
124	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
125	Effect of inelastic scattering on the average Coulomb-blockade peak height in quantum dots. <i>Physical Review B</i> , 2001, 64, .	3.2	12
126	Large sample-to-sample fluctuations of the nonequilibrium critical current through mesoscopic Josephson junctions. <i>Physical Review B</i> , 2001, 63, .	3.2	2



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127	Andreev levels in a single-channel conductor. <i>Physical Review B</i> , 2001, 64, .	3.2	3
128	Semiclassical singularities from bifurcating orbits. <i>Physical Review E</i> , 2001, 63, 066208.	2.1	2
129	Transmission delay times of localized waves. <i>Physical Review E</i> , 2001, 64, 026606.	2.1	9
130	Limits to Error Correction in Quantum Chaos. <i>Physical Review Letters</i> , 2001, 86, 5192-5195.	7.8	12
131	Counting Statistics of Photons Produced by Electronic Shot Noise. <i>Physical Review Letters</i> , 2001, 86, 700-703.	7.8	95
132	Localization-induced coherent backscattering effect in wave dynamics. <i>Physical Review E</i> , 2001, 63, 026605.	2.1	12
133	Single-Mode Delay Time Statistics for Scattering by a Chaotic Cavity. <i>Physica Scripta</i> , 2001, T90, 278.	2.5	1
134	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.	2.6	82
135	Twofold-broken rational tori and the uniform semiclassical approximation. <i>European Physical Journal D</i> , 2000, 10, 5-8.	1.3	0
136	Quantum-limited linewidth of a chaotic laser cavity. <i>Physical Review A</i> , 2000, 61, .	2.5	33
137	Coherent backscattering effect on wave dynamics in a random medium. <i>Europhysics Letters</i> , 2000, 52, 518-524.	2.0	8
138	Search for Two-Scale Localization in Disordered Wires in a Magnetic Field. <i>Physical Review Letters</i> , 2000, 84, 3927-3929.	7.8	12
139	Large Petermann factor in chaotic cavities with many scattering channels. <i>Europhysics Letters</i> , 2000, 49, 48-54.	2.0	48
140	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.	2.1	22
141	Conductance enhancement in quantum-point-contact semiconductor-superconductor devices. <i>Physical Review B</i> , 1999, 60, 13762-13769.	3.2	7
142	Kinetic theory of shot noise in nondegenerate diffusive conductors. <i>Physical Review B</i> , 1999, 60, 5839-5850.	3.2	16
143	Excitation Spectrum of Andreev Billiards with a Mixed Phase Space. <i>Physical Review Letters</i> , 1999, 82, 2951-2954.	7.8	45
144	Uniform approximation for period-quadrupling bifurcations. <i>Journal of Physics A</i> , 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. <i>Journal of Physics A</i> , 1998, 31, 4167-4196.	1.6	28
146	Semiclassical Spectra from Periodic-Orbit Clusters in a Mixed Phase Space. <i>Physical Review Letters</i> , 1997, 79, 1022-1025.	7.8	24
147	Bifurcations of periodic orbits and uniform approximations. <i>Journal of Physics A</i> , 1997, 30, 4537-4562.	1.6	85
148	Semiclassical interference of bifurcations. <i>Europhysics Letters</i> , 1997, 38, 423-428.	2.0	26
149	Semiclassics of rotation and torsion. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1996, 100, 115-127.	1.1	25
150	Subdiffusive and superdiffusive quantum transport and generalized duality. <i>Physical Review B</i> , 1996, 53, R2914-R2917.	3.2	13
151	Secular determinants of random unitary matrices. <i>Journal of Physics A</i> , 1996, 29, 3641-3658.	1.6	63
152	Noisy monitored quantum dynamics of ergodic multi-qubit systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 0, , .	2.1	2
153	Three-fold way of entanglement dynamics in monitored quantum circuits. <i>Journal of Physics A: Mathematical and Theoretical</i> , 0, , .	2.1	7