

Ulrich Kuhl

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3256182/ulrich-kuhl-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98
papers

3,156
citations

28
h-index

54
g-index

105
ext. papers

3,790
ext. citations

5.7
avg, IF

5.26
L-index

#	Paper	IF	Citations
98	Dynamically encircling an exceptional point for asymmetric mode switching. <i>Nature</i> , 2016 , 537, 76-79	50.4	414
97	Selective enhancement of topologically induced interface states in a dielectric resonator chain. <i>Nature Communications</i> , 2015 , 6, 6710	17.4	299
96	Experimental observation of the mobility edge in a waveguide with correlated disorder. <i>Applied Physics Letters</i> , 2000 , 77, 633-635	3.4	185
95	Freak waves in the linear regime: a microwave study. <i>Physical Review Letters</i> , 2010 , 104, 093901	7.4	144
94	Topological transition of Dirac points in a microwave experiment. <i>Physical Review Letters</i> , 2013 , 110, 033902	7.4	111
93	First experimental realization of the Dirac oscillator. <i>Physical Review Letters</i> , 2013 , 111, 170405	7.4	100
92	Microwave Realization of the Hofstadter Butterfly. <i>Physical Review Letters</i> , 1998 , 80, 3232-3235	7.4	86
91	Tight-binding couplings in microwave artificial graphene. <i>Physical Review B</i> , 2013 , 88,	3.3	77
90	Direct processes in chaotic microwave cavities in the presence of absorption. <i>Physical Review Letters</i> , 2005 , 94, 144101	7.4	75
89	Enhancement of localization in one-dimensional random potentials with long-range correlations. <i>Physical Review Letters</i> , 2008 , 100, 126402	7.4	73
88	Distribution of reflection coefficients in absorbing chaotic microwave cavities. <i>Physical Review Letters</i> , 2003 , 91, 174102	7.4	71
87	Classical wave experiments on chaotic scattering. <i>Journal of Physics A</i> , 2005 , 38, 10433-10463		70
86	Dynamical tunneling in mushroom billiards. <i>Physical Review Letters</i> , 2008 , 100, 174103	7.4	68
85	Dirac point and edge states in a microwave realization of tight-binding graphene-like structures. <i>Physical Review B</i> , 2010 , 82,	3.3	64
84	Effective Hamiltonian for a microwave billiard with attached waveguide. <i>Physical Review E</i> , 2002 , 65, 066211	2.4	57
83	Scarred and Chaotic Field Distributions in a Three-Dimensional Sinai-Microwave Resonator. <i>Physical Review Letters</i> , 1998 , 80, 1030-1033	7.4	56
82	Probing decoherence through Fano resonances. <i>Physical Review Letters</i> , 2010 , 105, 056801	7.4	51

81	Random anti-lasing through coherent perfect absorption in a disordered medium. <i>Nature</i> , 2019 , 567, 351-355	50.4	50
80	Resonance widths in open microwave cavities studied by harmonic inversion. <i>Physical Review Letters</i> , 2008 , 100, 254101	7.4	50
79	Global versus Local Billiard Level Dynamics: The Limits of Universality. <i>Physical Review Letters</i> , 1999 , 82, 2026-2029	7.4	44
78	Tunable Fano resonances in transport through microwave billiards. <i>Physical Review E</i> , 2004 , 69, 046208	2.4	43
77	Manipulation of edge states in microwave artificial graphene. <i>New Journal of Physics</i> , 2014 , 16, 113023	2.9	38
76	One dimensional Kronig-Penney model with positional disorder: Theory versus experiment. <i>Physical Review B</i> , 2009 , 80,	3.3	34
75	Measurement of long-range wave-function correlations in an open microwave billiard. <i>Physical Review Letters</i> , 2005 , 94, 036804	7.4	34
74	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
73	Microwave Realization of the Gaussian Symplectic Ensemble. <i>Physical Review Letters</i> , 2016 , 117, 064101	7.4	31
72	Experimental Width Shift Distribution: A Test of Nonorthogonality for Local and Global Perturbations. <i>Physical Review Letters</i> , 2014 , 113, 224101	7.4	30
71	Mixing of wavefunctions in rectangular microwave billiards. <i>European Physical Journal B</i> , 2000 , 17, 253-259		29
70	Experimental observation of the spectral gap in microwave n-disk systems. <i>Physical Review Letters</i> , 2013 , 110, 164102	7.4	26
69	Correlations of electromagnetic fields in chaotic cavities. <i>Europhysics Letters</i> , 1999 , 46, 134-140	1.6	26
68	Experimental verification of topologically induced vortices inside a billiard. <i>Journal of Physics A</i> , 1999 , 32, 8225-8230		26
67	Disordered graphene and boron nitride in a microwave tight-binding analog. <i>Physical Review B</i> , 2013 , 87,	3.3	25
66	Focusing inside Disordered Media with the Generalized Wigner-Smith Operator. <i>Physical Review Letters</i> , 2017 , 119, 033903	7.4	25
65	Microwave fidelity studies by varying antenna coupling. <i>Physical Review E</i> , 2010 , 82, 036207	2.4	24
64	Microwave experiments using open chaotic cavities in the realm of the effective Hamiltonian formalism. <i>Fortschritte Der Physik</i> , 2013 , 61, 404-419	5.7	23

63	Experimental observation of a fundamental length scale of waves in random media. <i>Physical Review Letters</i> , 2013 , 111, 183902	7.4	23
62	Spectral properties of microwave graphs with local absorption. <i>Physical Review E</i> , 2014 , 89, 022925	2.4	23
61	Wave functions, nodal domains, flow, and vortices in open microwave systems. <i>European Physical Journal: Special Topics</i> , 2007 , 145, 103-123	2.3	23
60	Microwave experiments simulating quantum search and directed transport in artificial graphene. <i>Physical Review Letters</i> , 2015 , 114, 110501	7.4	22
59	Experimental Observation of Resonance-Assisted Tunneling. <i>Physical Review Letters</i> , 2015 , 115, 104101	7.4	21
58	Weyl asymptotics: from closed to open systems. <i>Physical Review E</i> , 2012 , 86, 066205	2.4	21
57	Microwave realization of quasi-one-dimensional systems with correlated disorder. <i>Physical Review B</i> , 2011 , 83,	3.3	21
56	Algebraic fidelity decay for local perturbations. <i>Physical Review Letters</i> , 2008 , 100, 124101	7.4	20
55	Statistics of the electromagnetic response of a chaotic reverberation chamber. <i>Advanced Electromagnetics</i> , 2015 , 4, 38	1.2	18
54	Probing localization in absorbing systems via Loschmidt echos. <i>Physical Review Letters</i> , 2009 , 102, 253901	7.4	17
53	Current and Vorticity Auto Correlation Functions in Open Microwave Billiards. <i>Progress of Theoretical Physics Supplement</i> , 2003 , 150, 105-114		17
52	Measurement of the Goos-Hänchen shift in a microwave cavity. <i>New Journal of Physics</i> , 2011 , 13, 023013	2.9	16
51	Optimal wave fields for micromanipulation in complex scattering environments. <i>Nature Photonics</i> , 2020 , 14, 149-153	33.9	16
50	Density and correlation functions of vortex and saddle points in open billiard systems. <i>Physical Review E</i> , 2009 , 79, 016203	2.4	15
49	On the theory of cavities with point-like perturbations: part I. General theory. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 275101	2	14
48	Optimal Multiplexing of Spatially Encoded Information across Custom-Tailored Configurations of a Metasurface-Tunable Chaotic Cavity. <i>Physical Review Applied</i> , 2020 , 13,	4.3	13
47	Fano resonances and decoherence in transport through quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005 , 29, 325-333	3	12
46	Microwave transmission spectra in regular and irregular one-dimensional scattering arrangements. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001 , 9, 384-388	3	12

45	Experimental Tuning of Transport Regimes in Hyperuniform Disordered Photonic Materials. <i>Physical Review Letters</i> , 2020 , 125, 127402	7.4	12
44	Waveguide photonic limiters based on topologically protected resonant modes. <i>Physical Review B</i> , 2017 , 95,	3.3	11
43	Energy landscape in a Penrose tiling. <i>Physical Review B</i> , 2016 , 93,	3.3	11
42	Lossy chaotic electromagnetic reverberation chambers: Universal statistical behavior of the vectorial field. <i>Physical Review E</i> , 2016 , 93, 032108	2.4	11
41	Fluctuations in an established transmission in the presence of a complex environment. <i>Physical Review E</i> , 2017 , 96, 032221	2.4	11
40	Transport gap engineering by contact geometry in graphene nanoribbons: Experimental and theoretical studies on artificial materials. <i>Physical Review B</i> , 2017 , 95,	3.3	11
39	Microwave studies of chaotic billiards and disordered systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001 , 9, 571-577	3	11
38	Spectra and spectral correlations of microwave graphs with symplectic symmetry. <i>Physical Review E</i> , 2018 , 97, 022204	2.4	9
37	In situ realization of particlelike scattering states in a microwave cavity. <i>Physical Review A</i> , 2018 , 97,	2.6	9
36	Fidelity decay for local perturbations: microwave evidence for oscillating decay exponents. <i>Physical Review E</i> , 2011 , 83, 016214	2.4	9
35	Surface scattering and band gaps in rough waveguides and nanowires. <i>Physical Review B</i> , 2012 , 86,	3.3	9
34	Formation and interaction of resonance chains in the open three-disk system. <i>New Journal of Physics</i> , 2014 , 16, 033029	2.9	8
33	Investigating dynamical tunnelling in open quantum dots by means of a soft-walled microwave-cavity analogue. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, L191-L198	1.8	8
32	Microwave Realization of the Chiral Orthogonal, Unitary, and Symplectic Ensembles. <i>Physical Review Letters</i> , 2020 , 124, 116801	7.4	7
31	Observation of supersymmetric pseudo-Landau levels in strained microwave graphene. <i>Light: Science and Applications</i> , 2020 , 9, 146	16.7	7
30	Microwave emulations and tight-binding calculations of transport in polyacetylene. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 24-29	2.3	6
29	Schematic baryon models, their tight binding description and their microwave realization. <i>New Journal of Physics</i> , 2013 , 15, 123014	2.9	6
28	Implementing nonuniversal features with a random matrix theory approach: Application to space-to-configuration multiplexing. <i>Physical Review E</i> , 2020 , 102, 010201	2.4	6

27	Self-Shielded Topological Receiver Protectors. <i>Physical Review Applied</i> , 2020 , 13,	4.3	5
26	Compounding approach for univariate time series with nonstationary variances. <i>Physical Review E</i> , 2015 , 92, 062901	2.4	5
25	Transmission in waveguides with compositional and structural disorder: experimental effects of disorder cross-correlations. <i>New Journal of Physics</i> , 2012 , 14, 013048	2.9	5
24	Quantum stress in chaotic billiards. <i>Physical Review E</i> , 2008 , 77, 066209	2.4	5
23	Experimental Study of Generic Billiards with Microwave Resonators. <i>Progress of Theoretical Physics Supplement</i> , 2000 , 139, 283-300		5
22	Microwave Limiters Implemented by Coupled Dielectric Resonators Based on a Topological Defect Mode and CT-Symmetry Breaking. <i>Acta Physica Polonica A</i> , 2019 , 136, 790-796	0.6	5
21	Encircling exceptional points as a non-Hermitian extension of rapid adiabatic passage. <i>Physical Review A</i> , 2020 , 102,	2.6	5
20	Non-Hermitian CT-Symmetric Spectral Protection of Nonlinear Defect Modes. <i>Physical Review Letters</i> , 2020 , 125, 113901	7.4	5
19	Universal intensity statistics in a chaotic reverberation chamber to refine the criterion of statistical field uniformity 2015 ,		4
18	Transport studies in three-terminal microwave graphs with orthogonal, unitary, and symplectic symmetry. <i>Physical Review B</i> , 2018 , 98,	3.3	4
17	Global and local level dynamics in chaotic microwave billiards. <i>Annalen Der Physik</i> , 1999 , 8, 733-741	2.6	4
16	Diffuse field cross-correlation in a programmable-metasurface-stirred reverberation chamber. <i>Applied Physics Letters</i> , 2021 , 118, 104101	3.4	3
15	Microwave experiments in the realm of fidelity. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	3
14	Microwave resonator lattices for topological photonics [Invited]. <i>Optical Materials Express</i> , 2021 , 11, 629	2.6	3
13	Experimental Realization of Optimal Energy Storage in Resonators Embedded in Scattering Media. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000335	8.3	3
12	Channel cross correlations in transport through complex media. <i>Physical Review B</i> , 2016 , 94,	3.3	2
11	Sharp diffraction peaks from chaotic structures. <i>Chaos</i> , 1997 , 7, 577-589	3.3	2
10	Non-linear coherent perfect absorption in the proximity of exceptional points. <i>Communications Physics</i> , 2022 , 5,	5.4	2

9	Current vortices in aromatic carbon molecules. <i>Physical Review B</i> , 2020 , 102,	3.3	2
8	Level dynamics in pseudointegrable billiards: an experimental study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004 , 344, 523-529	3.3	1
7	Fidelity in Quasi-1D Systems as a Probe for Anderson Localization. <i>Acta Physica Polonica A</i> , 2009 , 116, 756-764	0.6	1
6	Diffuse field cross-correlations: Scattering theory and electromagnetic experiments. <i>Physical Review E</i> , 2021 , 104, 044204	2.4	1
5	Uncorrelated configurations and field uniformity in reverberation chambers stirred by reconfigurable metasurfaces. <i>Applied Physics Letters</i> , 2021 , 118, 144101	3.4	1
4	Localisation and transport in bidimensional random models with separable Hamiltonians. <i>New Journal of Physics</i> , 2019 , 21, 073041	2.9	0
3	Microwave graph analogs for the voltage drop in three-terminal devices with orthogonal, unitary, and symplectic symmetry.. <i>Physical Review E</i> , 2022 , 105, 014202	2.4	0
2	Spectral duality in graphs and microwave networks. <i>Physical Review E</i> , 2021 , 104, 045211	2.4	0
1	Microwave studies of chaotic billiards and disordered systems 2000 , 515-528		