

Rainer Leonhardt

List of Publications by Year in descending order

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58
papers

2,221
citations

331670

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330143

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all docs

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docs citations

58
times ranked

1617
citing authors

#	ARTICLE	IF	CITATIONS
1	Supercontinuum generation by stimulated Raman scattering and parametric four-wave mixing in photonic crystal fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002, 19, 753.	2.1	421
2	Scalar modulation instability in the normal dispersion regime by use of a photonic crystal fiber. <i>Optics Letters</i> , 2003, 28, 2225.	3.3	292
3	White-light supercontinuum generation with 60-ps pump pulses in a photonic crystal fiber. <i>Optics Letters</i> , 2001, 26, 1356.	3.3	283
4	Continuous-wave all-optoelectronic terahertz imaging. <i>Applied Physics Letters</i> , 2002, 80, 3003-3005.	3.3	193
5	Characterization of a microstructured Zeonex terahertz fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, 1013.	2.1	124
6	THz propagation in kagome hollow-core microstructured fibers. <i>Optics Express</i> , 2011, 19, 18470.	3.4	111
7	Aspheric lenses for terahertz imaging. <i>Optics Express</i> , 2008, 16, 15991.	3.4	107
8	All-optoelectronic continuous wave THz imaging for biomedical applications. <i>Physics in Medicine and Biology</i> , 2002, 47, 3743-3748.	3.0	95
9	Ultra-high Q terahertz whispering-gallery modes in a silicon resonator. <i>APL Photonics</i> , 2018, 3, .	5.7	46
10	Low loss and flat dispersion Kagome photonic crystal fiber in the terahertz regime. <i>Optics Communications</i> , 2018, 410, 452-456.	2.1	42
11	Ballistic and Localized Transport for the Atom Optics Kicked Rotor in the Limit of a Vanishing Kicking Period. <i>Physical Review Letters</i> , 2005, 94, 174103.	7.8	39
12	Terahertz pulse propagation in 3D-printed waveguide with metal wires component. <i>Optics Express</i> , 2014, 22, 26042.	3.4	37
13	Hybrid hollow core fibers with embedded wires as THz waveguides. <i>Optics Express</i> , 2013, 21, 2903.	3.4	34
14	High resolution terahertz spectroscopy of a whispering gallery mode bubble resonator using Hilbert analysis. <i>Optics Express</i> , 2017, 25, 16860.	3.4	33
15	Terahertz whispering gallery mode bubble resonator. <i>Optica</i> , 2017, 4, 809.	9.3	33
16	Observation of robust quantum resonance peaks in an atom optics kicked rotor with amplitude noise. <i>Physical Review E</i> , 2004, 70, 036217.	2.1	29
17	Low Loss and Low Dispersion Fiber for Transmission Applications in the Terahertz Regime. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 830-833.	2.5	28
18	Experimental verification of a one-parameter scaling law for the quantum and "classical" resonances of the atom-optics kicked rotor. <i>Physical Review A</i> , 2005, 71, .	2.5	25

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19	Coherent Continuous Wave Terahertz Spectroscopy Using Hilbert Transform. Journal of Infrared, Millimeter, and Terahertz Waves, 2019, 40, 524-534.	2.2	23
20	3D-Printed Broadband Dielectric Tube Terahertz Waveguide with Anti-Reflection Structure. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 1086-1095.	2.2	21
21	Fano resonances in a high-Q terahertz whispering-gallery mode resonator coupled to a multi-mode waveguide. Optics Letters, 2017, 42, 4359.	3.3	21
22	Prism coupling of high-Q terahertz whispering-gallery-modes over two octaves from 02 THz to 11 THz. Optics Express, 2018, 26, 31190.	3.4	21
23	Thermal tuning of silicon terahertz whispering-gallery mode resonators. Applied Physics Letters, 2018, 113, .	3.3	19
24	Metallic and 3D-printed dielectric helical terahertz waveguides. Optics Express, 2015, 23, 33359.	3.4	18
25	Nonlinear optical frequency conversion of an amplified Fourier Domain Mode Locked (FDML) laser. Optics Express, 2009, 17, 16801.	3.4	15
26	Subwavelength thick ultrahigh-Q terahertz disc microresonators. Photonics Research, 2020, 8, 1183.	7.0	15
27	All-“optoelectronic continuous”-wave terahertz systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 263-281.	3.4	13
28	Scaling law and stability for a noisy quantum system. Physical Review E, 2008, 78, 025206.	2.1	13
29	Terahertz Gas-Phase Spectroscopy Using a Sub-Wavelength Thick Ultrahigh-Q Microresonator. Sensors, 2020, 20, 3005.	3.8	13
30	Instantaneous quadrature components or Jones vector retrieval using the Pancharatnam-“Berry phase in frequency domain low-coherence interferometry. Optics Letters, 2012, 37, 3102.	3.3	10
31	Free-space coupling to symmetric high-Q terahertz whispering-gallery mode resonators. Optics Letters, 2019, 44, 2220.	3.3	10
32	Anomalous blue-shift of terahertz whispering-gallery modes via dielectric and metallic tuning. Optics Letters, 2019, 44, 1319.	3.3	9
33	Parametric processes in microstructured and highly nonlinear optical fibres. Optical and Quantum Electronics, 2007, 39, 1103-1114.	3.3	5
34	Hollow core terahertz waveguide fabricated using a 3D printer. , 2014, , .		5
35	The effect of amplitude noise on the quantum and diffusion resonances of the atom optics kicked rotor. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 369-374.	2.7	4
36	Deviations from early-time quasilinear behavior for the atom-optics kicked rotor near the classical limit. Physical Review E, 2005, 71, 027201.	2.1	4

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37	Microresonator Frequency Reference for Terahertz Precision Sensing and Metrology. IEEE Transactions on Terahertz Science and Technology, 2022, 12, 70-74.	3.1	4
38	RAY-OPTICS ANALYSIS OF SINGLE MODE CONDITION FOR OPTICAL WAVEGUIDES WITH RECTANGULAR CROSS-SECTION. Progress in Electromagnetics Research, 2013, 135, 81-89.	4.4	3
39	Wideband, low loss Terahertz propagation through kagome air-core microstructured fibers. , 2011, , .		1
40	Plasmonic ridge THz waveguide based on metal micro pillars. , 2016, , .		1
41	Mode identification for ultra high-Q terahertz whispering-gallery modes. , 2018, , .		1
42	Widely-tunable high-conversion-efficiency chi(3) parametric oscillator. , 2007, , .		0
43	Aspherical lenses for terahertz spectroscopy. Proceedings of SPIE, 2007, , .	0.8	0
44	Single mode propagation through a terahertz kagome microstructured fiber. , 2011, , .		0
45	Depth-ambiguity free or polarization sensitive optical frequency domain imaging using the Pancharatnam-Berry phase. , 2012, , .		0
46	THz pulse guidance in hollow core fibers with embedded indium wires. , 2012, , .		0
47	Polymer optical fibres: conventional and microstructured fibres. , 2012, , .		0
48	Broadband THz guidance in helical waveguides. , 2014, , .		0
49	3D-printed dielectric helical THz waveguides. , 2015, , .		0
50	Dielectric tube Terahertz waveguide with anti-reflection structure. , 2016, , .		0
51	Laser Ablation of a Polymer Electro-Optic Modulator. IEEE Photonics Technology Letters, 2016, 28, 895-898.	2.5	0
52	Dielectric bubble whispering gallery mode terahertz resonator. , 2017, , .		0
53	Terahertz Frequency Domain Spectroscopy using Hilbert Transformation. , 2019, , .		0
54	Anomalous blue-shift of terahertz whispering-gallery modes. , 2019, , .		0

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55	Free-space coupling of terahertz whispering-gallery modes. , 2019, , .		0
56	THz frequency reference for precision metrology. , 2021, , .		0
57	All-Optoelectronic CW THz Imaging for Tumor Recognition. Springer Series in Chemical Physics, 2003, , 280-282.	0.2	0
58	Parts-per-million water vapor sensing using an ultrahigh-Q THz disc microresonator. , 2020, , .		0