

# Rainer Leonhardt

## List of Publications by Year in descending order

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58  
papers

2,221  
citations

331670

21  
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330143

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58  
all docs

58  
docs citations

58  
times ranked

1617  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microresonator Frequency Reference for Terahertz Precision Sensing and Metrology. IEEE Transactions on Terahertz Science and Technology, 2022, 12, 70-74.	3.1	4
2	THz frequency reference for precision metrology. , 2021, , .		0
3	Terahertz Gas-Phase Spectroscopy Using a Sub-Wavelength Thick Ultrahigh-Q Microresonator. Sensors, 2020, 20, 3005.	3.8	13
4	Subwavelength thick ultrahigh-Q terahertz disc microresonators. Photonics Research, 2020, 8, 1183.	7.0	15
5	Parts-per-million water vapor sensing using an ultrahigh-Q THz disc microresonator. , 2020, , .		0
6	Coherent Continuous Wave Terahertz Spectroscopy Using Hilbert Transform. Journal of Infrared, Millimeter, and Terahertz Waves, 2019, 40, 524-534.	2.2	23
7	Terahertz Frequency Domain Spectroscopy using Hilbert Transformation. , 2019, , .		0
8	Anomalous blue-shift of terahertz whispering-gallery modes. , 2019, , .		0
9	Free-space coupling of terahertz whispering-gallery modes. , 2019, , .		0
10	Anomalous blue-shift of terahertz whispering-gallery modes via dielectric and metallic tuning. Optics Letters, 2019, 44, 1319.	3.3	9
11	Free-space coupling to symmetric high-Q terahertz whispering-gallery mode resonators. Optics Letters, 2019, 44, 2220.	3.3	10
12	Ultra-high Q terahertz whispering-gallery modes in a silicon resonator. APL Photonics, 2018, 3, .	5.7	46
13	Low loss and flat dispersion Kagome photonic crystal fiber in the terahertz regime. Optics Communications, 2018, 410, 452-456.	2.1	42
14	Thermal tuning of silicon terahertz whispering-gallery mode resonators. Applied Physics Letters, 2018, 113, .	3.3	19
15	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
16	Mode identification for ultra high-Q terahertz whispering-gallery modes. , 2018, , .		1
17	Low Loss and Low Dispersion Fiber for Transmission Applications in the Terahertz Regime. IEEE Photonics Technology Letters, 2017, 29, 830-833.	2.5	28
18	Dielectric bubble whispering gallery mode terahertz resonator. , 2017, , .		0

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19	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
20	High resolution terahertz spectroscopy of a whispering gallery mode bubble resonator using Hilbert analysis. Optics Express, 2017, 25, 16860.	3.4	33
21	Terahertz whispering gallery mode bubble resonator. Optica, 2017, 4, 809.	9.3	33
22	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
23	Plasmonic ridge THz waveguide based on metal micro pillars. , 2016, , .		1
24	Dielectric tube Terahertz waveguide with anti-reflection structure. , 2016, , .		0
25	Laser Ablation of a Polymer Electro-Optic Modulator. IEEE Photonics Technology Letters, 2016, 28, 895-898.	2.5	0
26	Metallic and 3D-printed dielectric helical terahertz waveguides. Optics Express, 2015, 23, 33359.	3.4	18
27	3D-printed dielectric helical THz waveguides. , 2015, , .		0
28	Hollow core terahertz waveguide fabricated using a 3D printer. , 2014, , .		5
29	Broadband THz guidance in helical waveguides. , 2014, , .		0
30	Terahertz pulse propagation in 3D-printed waveguide with metal wires component. Optics Express, 2014, 22, 26042.	3.4	37
31	Hybrid hollow core fibers with embedded wires as THz waveguides. Optics Express, 2013, 21, 2903.	3.4	34
32	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
33	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
34	Depth-ambiguity free or polarization sensitive optical frequency domain imaging using the Pancharatnam-Berry phase. , 2012, , .		0
35	THz pulse guidance in hollow core fibers with embedded indium wires. , 2012, , .		0
36	Polymer optical fibres: conventional and microstructured fibres. , 2012, , .		0

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37	Characterization of a microstructured Zeonex terahertz fiber. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1013.	2.1	124
38	THz propagation in kagome hollow-core microstructured fibers. Optics Express, 2011, 19, 18470.	3.4	111
39	Single mode propagation through a terahertz kagome microstructured fiber. , 2011, , .		0
40	Wideband, low loss Terahertz propagation through kagome air-core microstructured fibers. , 2011, , .		1
41	Nonlinear optical frequency conversion of an amplified Fourier Domain Mode Locked (FDML) laser. Optics Express, 2009, 17, 16801.	3.4	15
42	Aspheric lenses for terahertz imaging. Optics Express, 2008, 16, 15991.	3.4	107
43	Scaling law and stability for a noisy quantum system. Physical Review E, 2008, 78, 025206.	2.1	13
44	Widely-tunable high-conversion-efficiency chi(3) parametric oscillator. , 2007, , .		0
45	Aspherical lenses for terahertz spectroscopy. Proceedings of SPIE, 2007, , .	0.8	0
46	Parametric processes in microstructured and highly nonlinear optical fibres. Optical and Quantum Electronics, 2007, 39, 1103-1114.	3.3	5
47	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
48	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
49	Ballistic and Localized Transport for the Atom Optics Kicked Rotor in the Limit of a Vanishing Kicking Period. Physical Review Letters, 2005, 94, 174103.	7.8	39
50	Experimental verification of a one-parameter scaling law for the quantum and "classical" resonances of the atom-optics kicked rotor. Physical Review A, 2005, 71, .	2.5	25
51	Observation of robust quantum resonance peaks in an atom optics kicked rotor with amplitude noise. Physical Review E, 2004, 70, 036217.	2.1	29
52	All "optoelectronic continuous" wave terahertz systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 263-281.	3.4	13
53	Scalar modulation instability in the normal dispersion regime by use of a photonic crystal fiber. Optics Letters, 2003, 28, 2225.	3.3	292
54	All-Optoelectronic CW THz Imaging for Tumor Recognition. Springer Series in Chemical Physics, 2003, , 280-282.	0.2	0

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55	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
56	All-optoelectronic continuous wave THz imaging for biomedical applications. <i>Physics in Medicine and Biology</i> , 2002, 47, 3743-3748.	3.0	95
57	Continuous-wave all-optoelectronic terahertz imaging. <i>Applied Physics Letters</i> , 2002, 80, 3003-3005.	3.3	193
58	White-light supercontinuum generation with 60-ps pump pulses in a photonic crystal fiber. <i>Optics Letters</i> , 2001, 26, 1356.	3.3	283