

Albert Rosenberger

List of Publications by Year in descending order

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77
papers

1,871
citations

331259

21
h-index

288905

40
g-index

79
all docs

79
docs citations

79
times ranked

1240
citing authors

#	ARTICLE	IF	CITATIONS
1	Mode-superposition-induced transparency. , 2022, , .		1
2	Asymmetric cross-polarization coupling between microresonator whispering-gallery modes. , 2022, , .		1
3	Dynamical determination of the strength of cross-polarization coupling in a whispering-gallery microresonator. Physical Review A, 2021, 104, .	1.0	6
4	Coupled-mode-induced transparency and attenuation resulting from cross-polarization coupling. Physical Review A, 2020, 101, .	1.0	10
5	pH sensing using whispering gallery modes of a silica hollow bottle resonator. Talanta, 2019, 194, 585-590.	2.9	19
6	Cross-polarization coupling of whispering-gallery modes due to the spin-orbit interaction of light. Optics Letters, 2019, 44, 4163.	1.7	13
7	Enhanced absorption sensing using non-adiabatic tapered fiber coupling to a whispering-gallery microresonator. , 2019, , .		0
8	Cross-polarization coupling of whispering-gallery modes due to the spin-orbit interaction of light. , 2019, , .		0
9	Numerical and experimental study of the dynamics of cross polarization coupling in a whispering-gallery microresonator. , 2019, , .		1
10	Absorption sensing enhancement in a microresonator coupled to a non-adiabatic tapered fiber. , 2018, , .		0
11	Slow light in an optomechanical microresonator system. , 2017, , .		0
12	Comparison of methods for achieving induced transparency or absorption with pulse delay or advancement in a single microresonator. , 2016, , .		2
13	Experimental study of induced transparency or absorption and slow or fast light using orthogonally polarized whispering gallery modes of a single microresonator. , 2016, , .		2
14	Silica hollow bottle resonators for use as whispering gallery mode based chemical sensors. Journal of Optics (United Kingdom), 2015, 17, 125011.	1.0	27
15	Measuring sub-nm adsorbed water layer thickness and desorption rate using a fused-silica whispering-gallery microresonator. Measurement Science and Technology, 2014, 25, 055206.	1.4	16
16	pH Sensing With Whispering-Gallery Hollow-Bottle Microresonators. , 2014, , .		0
17	Fast-light enhancement of an optical cavity by polarization mode coupling. Physical Review A, 2014, 89, .	1.0	46
18	Effects of polarization mode coupling and superposition in a whispering-gallery microresonator. , 2014, , .		2

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19	Fast-light enhancement by polarization mode coupling in a single optical cavity. Proceedings of SPIE, 2014, , .	0.8	0
20	Induced Transparency and Pulse Delay Using Orthogonally Polarized Whispering-Gallery Modes of a Single Microresonator. , 2014, , .		0
21	EIT analogs using orthogonally polarized modes of a single whispering-gallery microresonator. , 2013, , .		5
22	Controllable Growth of Gold Nanowires for Photonics Applications. Nanoscience and Nanotechnology Letters, 2013, 5, 606-609.	0.4	1
23	Maintaining high-Q in an optical microresonator coated with high-aspect-ratio gold nanorods. Journal of Optics (United Kingdom), 2013, 15, 105004.	1.0	1
24	Absorption Properties of Hybrid Composites of Gold Nanorods and Functionalized Single-Walled Carbon Nanotubes. Journal of Nanomaterials, 2012, 2012, 1-8.	1.5	7
25	The Development of a Silica Hollow-Bottle-Resonator-Based Chemical Sensor. , 2012, , .		0
26	Induced Transparency Analog in Throughput from Excited Coresonant Modes with Orthogonal Polarizations. , 2012, , .		0
27	Spatially Localized Enhancement of Evanescent Coupling to Whispering-Gallery Modes at 1550 nm Due to Surface Plasmon Resonances of Au Nanowires. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 979-984.	1.9	5
28	Measuring thermal accommodation coefficients using a whispering-gallery optical microresonator. , 2011, , .		0
29	Cross-polarization mode coupling in whispering-gallery microresonators. , 2011, , .		0
30	Optical method for measuring thermal accommodation coefficients using a whispering-gallery microresonator. Journal of Chemical Physics, 2011, 135, 084313.	1.2	31
31	Colloidal Semiconductor Quantum Dot Whispering-Gallery Microlaser " a Comparative Study of Two Approaches. , 2009, , .		0
32	Optical Control of the Localized-Surface-Plasmon-Resonance Enhancement of Evanescent Coupling. , 2009, , .		0
33	Highly sensitive tuning of coupled optical ring resonators by microfluidics. Microfluidics and Nanofluidics, 2009, 6, 425-429.	1.0	32
34	Methods of Cavity-Enhanced Laser Absorption Spectroscopy Using Microresonator Whispering-Gallery Modes. Integrated Analytical Systems, 2009, , 97-121.	0.4	0
35	Spatially Localized Enhancement of Evanescent Coupling to Whispering-Gallery Modes at 1550 nm Due to Surface Plasmon Resonances of Au Nanowire Fragments. , 2009, , .		0
36	Enhanced evanescent coupling to whispering-gallery modes due to gold nanorods grown on the microresonator surface. Applied Physics B: Lasers and Optics, 2008, 93, 183-187.	1.1	31

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37	Broadband optical absorbance spectroscopy using a whispering gallery mode microsphere resonator. Review of Scientific Instruments, 2008, 79, 033106.	0.6	25
38	Investigating properties of surfaces and thin films using microsphere whispering-gallery modes. Proceedings of SPIE, 2008, , .	0.8	5
39	Whispering-Gallery Microsensors and Microlasers. , 2007, , .		0
40	Analysis of whispering-gallery microcavity-enhanced chemical absorption sensors. Optics Express, 2007, 15, 12959.	1.7	35
41	Cavity-enhanced laser absorption spectroscopy using microresonator whispering-gallery modes. Optics Express, 2007, 15, 17443.	1.7	79
42	Ultralow Threshold Behavior of a Quantum-Dot Whispering-Gallery Microlaser. , 2007, , .		0
43	Calculation of optimal fiber radius and whispering-gallery mode spectra for a fiber-coupled microsphere. Optics Communications, 2007, 271, 124-131.	1.0	47
44	Enhancement of evanescent coupling to whispering-gallery modes caused by Au nanorods grown on a microresonator surface. , 2006, , .		0
45	Gold nanorods grown from HgTe nanoparticles directly on various surfaces. Applied Physics Letters, 2006, 89, 023120.	1.5	12
46	Precision measurement of ultralow threshold in a whispering-gallery-mode quantum-dot laser. , 2006, , .		0
47	Cavity-enhanced laser spectroscopy using microresonator whispering-gallery modes. , 2006, , .		0
48	Growth of gold nanorods nucleated by HgTe nanoparticle seeds on various surfaces. , 2005, , .		1
49	Intracavity chemical absorption sensing using microresonator whispering-gallery modes. , 2005, , .		5
50	Induced transparency and absorption in coupled whispering-gallery microresonators. Physical Review A, 2005, 71, .	1.0	211
51	Calculation of Coupling between two Microsphere Resonators using Coupled-Mode Theory. , 2005, , .		0
52	Microsphere whispering-gallery-mode laser using HgTe quantum dots. Applied Physics Letters, 2004, 85, 6101-6103.	1.5	89
53	Coupled-resonator-induced transparency. Physical Review A, 2004, 69, .	1.0	457
54	<title>Whispering-gallery-mode evanescent-wave microsensor for trace-gas detection</title>. , 2001, 4265, 102.		29

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55	Locking a microsphere whispering-gallery mode to a laser. <i>Optics Express</i> , 2001, 8, 605.	1.7	49
56	<title>Locking and laser-frequency tracking of a microsphere whispering-gallery mode</title>. , 2001, , .		3
57	<title>Evanescent wave sensor using microsphere whispering-gallery modes</title>. , 2000, 3930, 186.		11
58	Nonlinear optical effects in the whispering-gallery modes of microspheres. , 1999, , .		4
59	Classical model for high-field ionization suppression in a short-range potential. <i>Physical Review A</i> , 1997, 56, 2459-2462.	1.0	6
60	Intense-field stabilization and the range of the potential. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 199, 204-208.	0.9	5
61	Detuning effects in transit-induced optical multistability. <i>Optics Communications</i> , 1995, 115, 401-410.	1.0	5
62	Transit-induced optical multistability. <i>Optics Communications</i> , 1993, 101, 403-410.	1.0	8
63	Absorptive optical bistability in two-state atoms. <i>Physical Review A</i> , 1991, 43, 6284-6302.	1.0	36
64	Absorptive Optical Bistability in Two-State Atoms. , 1990, , 1023-1027.		0
65	Single-mode instability in optical bistability. <i>Physical Review A</i> , 1989, 39, 1235-1252.	1.0	100
66	Amplitude and Phase Dynamics of Superradiant and Raman Pulse Trains. , 1989, , 1019-1021.		0
67	Optical bistability in the mixed absorptive-dispersive regime with two-state atoms. <i>Physical Review A</i> , 1987, 36, 3248-3252.	1.0	8
68	Dynamic Instabilities In Optical Bistability. , 1987, 0700, 104.		0
69	Quantitative test of the single-mode theory of optical bistability. <i>Optics Communications</i> , 1987, 62, 54-60.	1.0	21
70	Optical Bistability with Two-State Atoms: Steady States and Dynamical Instabilities. <i>Springer Proceedings in Physics</i> , 1986, , 307-310.	0.1	1
71	Intrinsic Dynamical Instability in Optical Bistability with Two-Level Atoms. <i>Physical Review Letters</i> , 1984, 53, 2547-2550.	2.9	64
72	Sub-T<inf>2</inf>optical pulse generation: Application to optically pumped far-infrared lasers. <i>IEEE Journal of Quantum Electronics</i> , 1984, 20, 523-532.	1.0	15

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73	Optical Bistability: Steady-State and Transient Behavior. Springer Proceedings in Physics, 1984, , 62-69.	0.1	2
74	Observation of absorptive bistability with two-level atoms in a ring cavity. Physical Review A, 1983, 28, 2569-2572.	1.0	134
75	Far-infrared superradiance in methyl fluoride. Physical Review A, 1981, 24, 868-882.	1.0	45
76	Synchronous, mode-locked pumping of gas lasers. Optics Letters, 1979, 4, 6.	1.7	29
77	Stimulated Raman emission in infrared excited gases. IEEE Journal of Quantum Electronics, 1977, 13, 476-481.	1.0	69