

# 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	Coupled-resonator-induced transparency. <i>Physical Review A</i> , 2004, 69, .	1.0	457
2	Induced transparency and absorption in coupled whispering-gallery microresonators. <i>Physical Review A</i> , 2005, 71, .	1.0	211
3	Observation of absorptive bistability with two-level atoms in a ring cavity. <i>Physical Review A</i> , 1983, 28, 2569-2572.	1.0	134
4	Single-mode instability in optical bistability. <i>Physical Review A</i> , 1989, 39, 1235-1252.	1.0	100
5	Microsphere whispering-gallery-mode laser using HgTe quantum dots. <i>Applied Physics Letters</i> , 2004, 85, 6101-6103.	1.5	89
6	Cavity-enhanced laser absorption spectroscopy using microresonator whispering-gallery modes. <i>Optics Express</i> , 2007, 15, 17443.	1.7	79
7	Stimulated Raman emission in infrared excited gases. <i>IEEE Journal of Quantum Electronics</i> , 1977, 13, 476-481.	1.0	69
8	Intrinsic Dynamical Instability in Optical Bistability with Two-Level Atoms. <i>Physical Review Letters</i> , 1984, 53, 2547-2550.	2.9	64
9	Locking a microsphere whispering-gallery mode to a laser. <i>Optics Express</i> , 2001, 8, 605.	1.7	49
10	Calculation of optimal fiber radius and whispering-gallery mode spectra for a fiber-coupled microsphere. <i>Optics Communications</i> , 2007, 271, 124-131.	1.0	47
11	Fast-light enhancement of an optical cavity by polarization mode coupling. <i>Physical Review A</i> , 2014, 89, .	1.0	46
12	Far-infrared superradiance in methyl fluoride. <i>Physical Review A</i> , 1981, 24, 868-882.	1.0	45
13	Absorptive optical bistability in two-state atoms. <i>Physical Review A</i> , 1991, 43, 6284-6302.	1.0	36
14	Analysis of whispering-gallery microcavity-enhanced chemical absorption sensors. <i>Optics Express</i> , 2007, 15, 12959.	1.7	35
15	Highly sensitive tuning of coupled optical ring resonators by microfluidics. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 425-429.	1.0	32
16	Enhanced evanescent coupling to whispering-gallery modes due to gold nanorods grown on the microresonator surface. <i>Applied Physics B: Lasers and Optics</i> , 2008, 93, 183-187.	1.1	31
17	Optical method for measuring thermal accommodation coefficients using a whispering-gallery microresonator. <i>Journal of Chemical Physics</i> , 2011, 135, 084313.	1.2	31
18	Synchronous, mode-locked pumping of gas lasers. <i>Optics Letters</i> , 1979, 4, 6.	1.7	29

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19	<title>Whispering-gallery-mode evanescent-wave microsensors for trace-gas detection</title>. , 2001, 4265, 102.		29
20	Silica hollow bottle resonators for use as whispering gallery mode based chemical sensors. Journal of Optics (United Kingdom), 2015, 17, 125011.	1.0	27
21	Broadband optical absorbance spectroscopy using a whispering gallery mode microsphere resonator. Review of Scientific Instruments, 2008, 79, 033106.	0.6	25
22	Quantitative test of the single-mode theory of optical bistability. Optics Communications, 1987, 62, 54-60.	1.0	21
23	pH sensing using whispering gallery modes of a silica hollow bottle resonator. Talanta, 2019, 194, 585-590.	2.9	19
24	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
25	Sub-T&lt;inf&gt;2&lt;/inf&gt;optical pulse generation: Application to optically pumped far-infrared lasers. IEEE Journal of Quantum Electronics, 1984, 20, 523-532.	1.0	15
26	Cross-polarization coupling of whispering-gallery modes due to the spinâ€“orbit interaction of light. Optics Letters, 2019, 44, 4163.	1.7	13
27	Gold nanorods grown from HgTe nanoparticles directly on various surfaces. Applied Physics Letters, 2006, 89, 023120.	1.5	12
28	<title>Evanescent wave sensor using microsphere whispering-gallery modes</title>. , 2000, 3930, 186.		11
29	Coupled-mode-induced transparency and attenuation resulting from cross-polarization coupling. Physical Review A, 2020, 101, .	1.0	10
30	Optical bistability in the mixed absorptive-dispersive regime with two-state atoms. Physical Review A, 1987, 36, 3248-3252.	1.0	8
31	Transit-induced optical multistability. Optics Communications, 1993, 101, 403-410.	1.0	8
32	Absorption Properties of Hybrid Composites of Gold Nanorods and Functionalized Single-Walled Carbon Nanotubes. Journal of Nanomaterials, 2012, 2012, 1-8.	1.5	7
33	Classical model for high-field ionization suppression in a short-range potential. Physical Review A, 1997, 56, 2459-2462.	1.0	6
34	Dynamical determination of the strength of cross-polarization coupling in a whispering-gallery microresonator. Physical Review A, 2021, 104, .	1.0	6
35	Intense-field stabilization and the range of the potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 199, 204-208.	0.9	5
36	Detuning effects in transit-induced optical multistability. Optics Communications, 1995, 115, 401-410.	1.0	5

#	ARTICLE	IF	CITATIONS
37	Intracavity chemical absorption sensing using microresonator whispering-gallery modes. , 2005, , .		5
38	Investigating properties of surfaces and thin films using microsphere whispering-gallery modes. Proceedings of SPIE, 2008, , .	0.8	5
39	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
40	EIT analogs using orthogonally polarized modes of a single whispering-gallery microresonator. , 2013, , .		5
41	Nonlinear optical effects in the whispering-gallery modes of microspheres. , 1999, , .		4
42	<title>Locking and laser-frequency tracking of a microsphere whispering-gallery mode</title>. , 2001, , .		3
43	Effects of polarization mode coupling and superposition in a whispering-gallery microresonator. , 2014, , .		2
44	Comparison of methods for achieving induced transparency or absorption with pulse delay or advancement in a single microresonator. , 2016, , .		2
45	Experimental study of induced transparency or absorption and slow or fast light using orthogonally polarized whispering gallery modes of a single microresonator. , 2016, , .		2
46	Optical Bistability: Steady-State and Transient Behavior. Springer Proceedings in Physics, 1984, , 62-69.	0.1	2
47	Growth of gold nanorods nucleated by HgTe nanoparticle seeds on various surfaces. , 2005, , .		1
48	Controllable Growth of Gold Nanowires for Photonics Applications. Nanoscience and Nanotechnology Letters, 2013, 5, 606-609.	0.4	1
49	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
50	Optical Bistability with Two-State Atoms: Steady States and Dynamical Instabilities. Springer Proceedings in Physics, 1986, , 307-310.	0.1	1
51	Numerical and experimental study of the dynamics of cross polarization coupling in a whispering-gallery microresonator. , 2019, , .		1
52	Mode-superposition-induced transparency. , 2022, , .		1
53	Asymmetric cross-polarization coupling between microresonator whispering-gallery modes. , 2022, , .		1
54	Dynamic Instabilities In Optical Bistability. , 1987, 0700, 104.		0

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55	Enhancement of evanescent coupling to whispering-gallery modes caused by Au nanorods grown on a microresonator surface. , 2006, , .		0
56	Precision measurement of ultralow threshold in a whispering-gallery-mode quantum-dot laser. , 2006, , .		0
57	Cavity-enhanced laser spectroscopy using microresonator whispering-gallery modes. , 2006, , .		0
58	Whispering-Gallery Microsensors and Microlasers. , 2007, , .		0
59	Ultralow Threshold Behavior of a Quantum-Dot Whispering-Gallery Microlaser. , 2007, , .		0
60	Colloidal Semiconductor Quantum Dot Whispering-Gallery Microlaser â€” a Comparative Study of Two Approaches. , 2009, , .		0
61	Optical Control of the Localized-Surface-Plasmon-Resonance Enhancement of Evanescent Coupling. , 2009, , .		0
62	Measuring thermal accommodation coefficients using a whispering-gallery optical microresonator. , 2011, , .		0
63	Cross-polarization mode coupling in whispering-gallery microresonators. , 2011, , .		0
64	pH Sensing With Whispering-Gallery Hollow-Bottle Microresonators. , 2014, , .		0
65	Fast-light enhancement by polarization mode coupling in a single optical cavity. Proceedings of SPIE, 2014, , .	0.8	0
66	Slow light in an optomechanical microresonator system. , 2017, , .		0
67	Calculation of Coupling between two Microsphere Resonators using Coupled-Mode Theory. , 2005, , .		0
68	Methods of Cavity-Enhanced Laser Absorption Spectroscopy Using Microresonator Whispering-Gallery Modes. Integrated Analytical Systems, 2009, , 97-121.	0.4	0
69	Spatially Localized Enhancement of Evanescent Coupling to Whispering-Gallery Modes at 1550 nm Due to Surface Plasmon Resonances of Au Nanowire Fragments. , 2009, , .		0
70	The Development of a Silica Hollow-Bottle-Resonator-Based Chemical Sensor. , 2012, , .		0
71	Induced Transparency Analog in Throughput from Excited Coresonant Modes with Orthogonal Polarizations. , 2012, , .		0
72	Induced Transparency and Pulse Delay Using Orthogonally Polarized Whispering-Gallery Modes of a Single Microresonator. , 2014, , .		0

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73	Amplitude and Phase Dynamics of Superradiant and Raman Pulse Trains. , 1989, , 1019-1021.		0
74	Absorptive Optical Bistability in Two-State Atoms. , 1990, , 1023-1027.		0
75	Absorption sensing enhancement in a microresonator coupled to a non-adiabatic tapered fiber. , 2018, , .		0
76	Enhanced absorption sensing using non-adiabatic tapered fiber coupling to a whispering-gallery microresonator. , 2019, , .		0
77	Cross-polarization coupling of whispering-gallery modes due to the spin-orbit interaction of light. , 2019, , .		0