

Ming-Liang Ren

List of Publications by Year in descending order

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32
papers

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citations

567281

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32
times ranked

964
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced second-harmonic generation from metal-integrated semiconductor nanowires via highly confined whispering gallery modes. <i>Nature Communications</i> , 2014, 5, 5432.	12.8	72
2	Optomechanical Enhancement of Doubly Resonant 2D Optical Nonlinearity. <i>Nano Letters</i> , 2016, 16, 1631-1636.	9.1	71
3	Simultaneous broadband generation of second and third harmonics from chirped nonlinear photonic crystals. <i>Light: Science and Applications</i> , 2014, 3, e189-e189.	16.6	63
4	Crystallographic Characterization of II-VI Semiconducting Nanostructures via Optical Second Harmonic Generation. <i>Nano Letters</i> , 2015, 15, 7341-7346.	9.1	45
5	Resolving Parity and Order of Fabry-Pérot Modes in Semiconductor Nanostructure Waveguides and Lasers: Young's Interference Experiment Revisited. <i>Nano Letters</i> , 2014, 14, 6564-6571.	9.1	34
6	Exact iterative solution of second harmonic generation in quasi-phase-matched structures. <i>Optics Express</i> , 2010, 18, 7288.	3.4	29
7	Inverting polar domains via electrical pulsing in metallic germanium telluride. <i>Nature Communications</i> , 2017, 8, 15033.	12.8	29
8	Enhanced nonlinear frequency conversion in defective nonlinear photonic crystals with designed polarization distribution. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 1551.	2.1	27
9	Giant enhancement of second harmonic generation by engineering double plasmonic resonances at nanoscale. <i>Optics Express</i> , 2014, 22, 28653.	3.4	27
10	Strong modulation of second-harmonic generation with very large contrast in semiconducting CdS via high-field domain. <i>Nature Communications</i> , 2018, 9, 186.	12.8	24
11	Direct observation of amplified spontaneous emission of surface plasmon polaritons at metal/dielectric interfaces. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	23
12	Giant enhancement of second harmonic generation in nonlinear photonic crystals with distributed Bragg reflector mirrors. <i>Optics Express</i> , 2009, 17, 14502.	3.4	22
13	Broadband second harmonic generation in one-dimensional randomized nonlinear photonic crystal. <i>Applied Physics Letters</i> , 2011, 99, 031108.	3.3	22
14	An effective susceptibility model for exact solution of second harmonic generation in general quasi-phase-matched structures. <i>Europhysics Letters</i> , 2011, 94, 44003.	2.0	21
15	Nanocavity-Enhanced Giant Stimulated Raman Scattering in Si Nanowires in the Visible Light Region. <i>Nano Letters</i> , 2019, 19, 1204-1209.	9.1	17
16	Experimental demonstration of super quasi-phase matching in nonlinear photonic crystal. <i>Optics Letters</i> , 2011, 36, 3696.	3.3	15
17	Plasmonic coupling effect between two gold nanospheres for efficient second-harmonic generation. <i>Journal of Applied Physics</i> , 2012, 112, 083102.	2.5	13
18	Nanotwin Detection and Domain Polarity Determination via Optical Second Harmonic Generation Polarimetry. <i>Nano Letters</i> , 2016, 16, 4404-4409.	9.1	12

#	ARTICLE	IF	CITATIONS
19	Anion Exchange in II-VI Semiconducting Nanostructures via Atomic Templating. Nano Letters, 2018, 18, 1620-1627.	9.1	11
20	Amplified Spontaneous Emission of Surface Plasmon Polaritons with Unusual Angle-Dependent Response. Small, 2012, 8, 1355-1359.	10.0	9
21	An All-Optical Diode Based on Plasmonic Attenuation and Nonlinear Frequency Conversion. Chinese Physics Letters, 2013, 30, 097301.	3.3	8
22	High conversion efficiency of second harmonic generation in a short nonlinear photonic crystal with distributed Bragg reflector mirrors. Applied Physics A: Materials Science and Processing, 2012, 107, 71-76.	2.3	7
23	Self-aligned on-chip coupled photonic devices using individual cadmium sulfide nanobelts. Nano Research, 2020, 13, 1413-1418.	10.4	7
24	Broadband cascading of second-order nonlinearity in randomized nonlinear photonic crystal. Journal Physics D: Applied Physics, 2012, 45, 365105.	2.8	6
25	Multi-directional Eerenkov second harmonic generation in two-dimensional nonlinear photonic crystal. Optics Express, 2012, 20, 3948.	3.4	6
26	Emission energy, exciton dynamics and lasing properties of buckled CdS nanoribbons. Scientific Reports, 2016, 6, 26607.	3.3	6
27	Analysis of three-wave mixing in one-dimensional nonlinear multilayer structures with pump depletion. Journal of Applied Physics, 2011, 109, 083113.	2.5	3
28	Multiple second-harmonic waves in a nonlinear photonic crystal with fractal structure. Applied Physics B: Lasers and Optics, 2013, 111, 183-187.	2.2	3
29	Broadband Response of Second Harmonic Generation in a Two-Dimensional Quasi-Random Quasi-Phase-Matching Structure. Chinese Physics Letters, 2011, 28, 074218.	3.3	0
30	LiNbO ₃ Nonlinear Photonic Crystal with 12-Fold Rotational Symmetry. Chinese Physics Letters, 2013, 30, 064202.	3.3	0
31	Electromechanically reconfigurable CdS nanoplate based nonlinear optical device. Optics Express, 2016, 24, 13459.	3.4	0
32	Voltage tunable dual wavelength light source via optomechanically controlled CdS nanoplates. , 2017, , .		0