Ramon Paniagua-Dominguez

List of Publications by Year
in descending order

73 papers	5,311 citations	117625 34 h-index	138484 58 g-index
74 all docs	74 docs citations	74 times ranked	4788 citing authors

#	Article	IF	Citations
1	Near unity transmission and full phase control with asymmetric Huygensâ€™ dielectric metasurfaces for holographic projections. Applied Optics, 2022, 61, B164.	1.8	4
2	Nanoscale mapping of optically inaccessible bound-states-in-the-continuum. Light: Science and Applications, 2022, 11, 20.	16.6	28
3	One-Dimensional High-Q Silicon Nanoparticle Chain Resonators for Refractive Index Sensing. ACS Applied Nano Materials, 2022, 5, 3170-3176.	5.0	4
4	High resolution multispectral spatial light modulators based on tunable Fabry-Perot nanocavities. Light: Science and Applications, 2022, 11, 141.	16.6	26
5	Roomâ€Temperature Multiâ€Beam, Multiâ€Wavelength Bound States in the Continuum Laser. Advanced Optical Materials, 2022, 10, .	7.3	4
6	Non-linear interferometry with infrared metasurfaces. Nanophotonics, 2021, 10, 1775-1784.	6.0	7
7	Imaging Properties of Large Field-of-View Quadratic Metalenses and Their Applications to Fingerprint Detection. ACS Photonics, 2021, 8, 1457-1468.	6.6	33
8	Silicon Nanoantenna Mix Arrays for a Trifecta of Quantum Emitter Enhancements. Nano Letters, 2021, 21, 4853-4860.	9.1	21
9	Largeâ€Scale Huygensâ€™ Metasurfaces for Holographic 3D Nearâ€Eye Displays. Laser and Photonics Reviews, 2021, 15, 2000538.	8.7	23
10	3D Holographic Displays: Largeâ€Scale Huygensâ€™ Metasurfaces for Holographic 3D Nearâ€Eye Displays (Laser Photonics Rev. 15(9)/2021). Laser and Photonics Reviews, 2021, 15, 2170047.	8.7	1
11	Bound State in the Continuum in Nanoantenna-Coupled Slab Waveguide Enables Low-Threshold Quantum-Dot Lasing. Nano Letters, 2021, 21, 9754-9760.	9.1	30
12	Assembly of Miniature Nanoantenna Spatial Light Modulator. , 2021, , .		0
13	Active and Tunable Nanophotonics With Dielectric Nanoantennas. Proceedings of the IEEE, 2020, 108, 749-771.	21.3	36
14	Lightâ€Emitting Diodes: Control of LED Emission with Functional Dielectric Metasurfaces (Laser) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	8.7	3
15	Control of scattering by isolated dielectric nanoantennas. , 2020, , 73-108.		6
16	Control of LED Emission with Functional Dielectric Metasurfaces. Laser and Photonics Reviews, 2020, 14, 1900235.	8.7	52
17	Low loss waveguiding and slow light modes in coupled subwavelength silicon Mie resonators. Nanoscale, 2020, 12, 21713-21718.	5.6	13
18	Continuous Wave Second Harmonic Generation Enabled by Quasi-Bound-States in the Continuum on Gallium Phosphide Metasurfaces. Nano Letters, 2020, 20, 8745-8751.	9.1	134

#	Article	IF	Citations
19	Lasing Action in Single Subwavelength Particles Supporting Supercavity Modes. ACS Nano, 2020, 14, 7338-7346.	14.6	75
20	Collective Mie Resonances for Directional On-Chip Nanolasers. Nano Letters, 2020, 20, 5655-5661.	9.1	37
21	Room-Temperature Lasing in Colloidal Nanoplatelets via Mie-Resonant Bound States in the Continuum. Nano Letters, 2020, 20, 6005-6011.	9.1	115
22	All-Optical Modulation in Chains of Silicon Nanoantennas. ACS Photonics, 2020, 7, 1001-1008.	6.6	21
23	Dynamic control of visible light with dielectric nanoantennas: towards next-gen spatial light modulators (Conference Presentation). , 2020, , .		1
24	New methods for fabrication, trapping and printing of resonant spherical silicon nanoparticles in monodisperse solutions (Conference Presentation). , 2020, , .		0
25	Fabrication of Monodisperse Colloids of Resonant Spherical Silicon Nanoparticles: Applications in Optical Trapping and Printing. ACS Photonics, 2019, 6, 2141-2148.	6.6	13
26	Dielectric nanoresonators and metamaterials. Journal of Applied Physics, 2019, 126, 150401.	2.5	15
27	Efficient visible light modulation based on electrically tunable all dielectric metasurfaces embedded in thin-layer nematic liquid crystals. Scientific Reports, 2019, 9, 8673.	3.3	41
28	Phase-only transmissive spatial light modulator based on tunable dielectric metasurface. Science, 2019, 364, 1087-1090.	12.6	385
29	Controlling LED radiation with dielectric metasurfaces (Conference Presentation). , 2019, , .		0
30	Dynamic control at visible wavelengths of all-dielectric metasurfaces embedded in liquid crystals (Conference Presentation). , 2019, , .		0
31	A Metalens with a Near-Unity Numerical Aperture. Nano Letters, 2018, 18, 2124-2132.	9.1	324
32	Dynamic Beam Switching by Liquid Crystal Tunable Dielectric Metasurfaces. ACS Photonics, 2018, 5, 1742-1748.	6.6	248
33	High-efficiency and low-loss dielectric metasurfaces on a gallium nitride platform. , 2018, , .		0
34	Highly Directive Hybrid Metalâ€“Dielectric Yagi-Uda Nanoantennas. ACS Nano, 2018, 12, 8616-8624.	14.6	61
35	Impedance-Matched, Double-Zero Optical Metamaterials Based on Weakly Resonant Metal Oxide Nanowires. Photonics, 2018, 5, 7.	2.0	0
36	Directional lasing in resonant semiconductor nanoantenna arrays. Nature Nanotechnology, 2018, 13, 1042-1047.	31.5	367

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37	Using Metasurfaces to Control Random Light Emission. , 2018, , .		1
38	Suppression of scattering for small dielectric particles: anapole mode and invisibility. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160069.	3.4	65
39	Resonant Light Guiding Along a Chain of Silicon Nanoparticles. Nano Letters, 2017, 17, 3458-3464.	9.1	80
40	Direct observation of resonance scattering patterns in single silicon nanoparticles. Applied Physics Letters, 2017, 110, .	3.3	19
41	Asymmetric Nanoantennas for Ultrahigh Angle Broadband Visible Light Bending. Nano Letters, 2017, 17, 6267-6272.	9.1	106
42	High-efficiency and low-loss gallium nitride dielectric metasurfaces for nanophotonics at visible wavelengths. Applied Physics Letters, 2017, 111, .	3.3	42
43	Printing Beyond sRGB Color Gamut by Mimicking Silicon Nanostructures in Free-Space. Nano Letters, 2017, 17, 7620-7628.	9.1	239
44	Hybrid anapole modes of high-index dielectric nanoparticles. Physical Review A, 2017, 95, .	2.5	111
45	Silicon Nanostructures for Bright Field Full Color Prints. ACS Photonics, 2017, 4, 1913-1919.	6.6	156
46	Dielectric metasurfaces for beam bending and near-unity numerical aperture lenses. , 2017, , .		0
47	Low-cost and large-size nanoplasmonic sensor based on Fano resonances with fast response and high sensitivity. Optics Express, 2017, 25, 15967.	3.4	24
48	Refractive index less than two: photonic nanojets yesterday, today and tomorrow [Invited]. Optical Materials Express, 2017, 7, 1820.	3.0	293
49	New material platforms for dielectric nanoantennas and metasurfaces (Conference Presentation). , 2017, , .		0
50	High-angle light bending and ultra-high NA lenses achieved through resonance interference effects in dielectric metasurfaces (Conference Presentation). , 2017, , .		0
51	Plasmon spectroscopy: Theoretical and numerical calculations, and optimization techniques. Nanospectroscopy, 2016, 1, .	0.7	3
52	Generalized Brewster effect in dielectric metasurfaces. Nature Communications, 2016, 7, 10362.	12.8	218
53	Photonic band structure and effective medium properties of doubly-resonant core-shell metallo-dielectric nanowire arrays: low-loss, isotropic optical negative-index behavior. Journal of Optics (United Kingdom), 2015, 17, 125104.	2.2	8
54	Highâ€transmission dielectric metasurface with 2Ï€ phase control at visible wavelengths. Laser and Photonics Reviews, 2015, 9, 412-418.	8.7	538

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55	Directional and Polarized Emission from Nanowire Arrays. Nano Letters, 2015, 15, 4557-4563.	9.1	74
56	Localized magnetic plasmons in all-dielectric<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î¼</mml:mi><mml:mo><</mml:mo><mml:mn>0</mml:mn></mml:mrow></mml:math> Physical Review B, 2015, 91, .	3.2	7
57	Opto-thermo-electrical generation of magnetic field. , 2015, , .		0
58	Magnetic and Electric Hotspots with Silicon Nanodimers. Nano Letters, 2015, 15, 2137-2142.	9.1	361
59	Unraveling the Janus Role of Mie Resonances and Leaky/Guided Modes in Semiconductor Nanowire Absorption for Enhanced Light Harvesting. ACS Photonics, 2015, 2, 921-929.	6.6	90
60	Optimum Forward Light Scattering by Spherical and Spheroidal Dielectric Nanoparticles with High Refractive Index. ACS Photonics, 2015, 2, 993-999.	6.6	171
61	Silicon Nanoparticles for Waveguiding. , 2015, , .		1
62	Silicon NanoDimers for Magnetic and Electric Field Hotspots. , 2015, , .		0
63	Nanowire Antenna Absorption Probed with Time-Reversed Fourier Microscopy. Nano Letters, 2014, 14, 3227-3234.	9.1	42
64	Mode Parity-Controlled Fano- and Lorentz-like Line Shapes Arising in Plasmonic Nanorods. Nano Letters, 2014, 14, 2322-2329.	9.1	65
65	Enhanced and directional emission of semiconductor nanowires tailored through leaky/guided modes. Nanoscale, 2013, 5, 10582.	5.6	76
66	Ultra low-loss, isotropic optical negative-index metamaterial based on hybrid metal-semiconductor nanowires. Scientific Reports, 2013, 3, 1507.	3.3	51
67	Broadband telecom transparency of semiconductor-coated metal nanowires: more transparent than glass. Optics Express, 2013, 21, 22076.	3.4	7
68	Semiconductor nanowire photoluminescence: spatial/polarization averaged coupling into leaky modes. , 2013, , .		1
69	Fano-like interference of plasmon resonances at a single rod-shaped nanoantenna. New Journal of Physics, 2012, 14, 023035.	2.9	55
70	High-Performance Nanosensors Based on Plasmonic Fano-like Interference: Probing Refractive Index with Individual Nanorice and Nanobelts. ACS Nano, 2012, 6, 8989-8996.	14.6	55
71	Nanowire Antenna Emission. Nano Letters, 2012, 12, 5481-5486.	9.1	122
72	Metallo-dielectric coreâ€“shell nanospheres as building blocks for optical three-dimensional isotropic negative-index metamaterials. New Journal of Physics, 2011, 13, 123017.	2.9	98

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73	Enhanced backscattering of electromagnetic waves from randomly rough gratings on negative magnetic metamaterials. Metamaterials, 2010, 4, 201-206.	2.2	3