Braulio Garcia-Camara

List of Publications by Year
in descending order

70 papers	2,219 citations	236925 25 h-index	223800 46 g-index
71 all docs	71 docs citations	71 times ranked	2005 citing authors

#	Article	IF	Citations
1	Magnetic and electric coherence in forward- and back-scattered electromagnetic waves by a single dielectric subwavelength sphere. Nature Communications, 2012, 3, 1171.	12.8	466
2	Electric and magnetic dipolar response of germanium nanospheres: interference effects, scattering anisotropy, and optical forces. Journal of Nanophotonics, 2011, 5, 053512.	1.0	179
3	Photodynamic Therapy: A Compendium of Latest Reviews. Cancers, 2021, 13, 4447.	3.7	134
4	Light Technology for Efficient and Effective Photodynamic Therapy: A Critical Review. Cancers, 2021, 13, 3484.	3.7	86
5	Recent Advances in Adaptive Liquid Crystal Lenses. Crystals, 2019, 9, 272.	2.2	82
6	Ultrahigh-quality factor resonant dielectric metasurfaces based on hollow nanocuboids. Optics Express, 2019, 27, 6320.	3.4	72
7	Sensing with magnetic dipolar resonances in semiconductor nanospheres. Optics Express, 2013, 21, 23007.	3.4	67
8	Directionality in scattering by nanoparticles: Kerkerâ€™s null-scattering conditions revisited. Optics Letters, 2011, 36, 728.	3.3	59
9	Anapole Modes in Hollow Nanocuboid Dielectric Metasurfaces for Refractometric Sensing. Nanomaterials, 2019, 9, 30.	4.1	56
10	Tunable liquid crystal multifocal microlens array. Scientific Reports, 2017, 7, 17318.	3.3	55
11	Light scattering resonances in small particles with electric and magnetic properties. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 327.	1.5	49
12	Infiltrated Photonic Crystal Fibers for Sensing Applications. Sensors, 2018, 18, 4263.	3.8	49
13	Light scattering by an array of electric and magnetic nanoparticles. Optics Express, 2010, 18, 10001.	3.4	47
14	Simulation of the thickness dependence of the optical properties of suspended particle devices. Solar Energy Materials and Solar Cells, 2015, 143, 613-622.	6.2	47
15	An Autostereoscopic Device for Mobile Applications Based on a Liquid Crystal Microlens Array and an OLED Display. Journal of Display Technology, 2014, 10, 713-720.	1.2	34
16	Interaction of nanoparticles with substrates: effects on the dipolar behaviour of the particles. Optics Express, 2008, 16, 12487.	3.4	32
17	Allâ€Dielectric Silicon Metasurface with Strong Subterahertz Toroidal Dipole Resonance. Advanced Optical Materials, 2019, 7, 1900777.	7.3	32
18	Generation of Optical Vortices by an Ideal Liquid Crystal Spiral Phase Plate. IEEE Electron Device Letters, 2014, 35, 856-858.	3.9	30

#	Article	IF	Citations
19	Liquid crystal spherical microlens array with high fill factor and optical power. Optics Express, 2017, 25, 605.	3.4	29
20	Toroidal metasurface resonances in microwave waveguides. Scientific Reports, 2019, 9, 7544.	3.3	29
21	A Novel High-Sensitivity, Low-Power, Liquid Crystal Temperature Sensor. Sensors, 2014, 14, 6571-6583.	3.8	28
22	All-Optical Nanometric Switch Based on the Directional Scattering of Semiconductor Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 19558-19564.	3.1	28
23	Low aberration and fast switching microlenses based on a novel liquid crystal mixture. Optics Express, 2017, 25, 14795.	3.4	28
24	Recent Advances in Biomedical Photonic Sensors: A Focus on Optical-Fibre-Based Sensing. Sensors, 2021, 21, 6469.	3.8	28
25	Exception for the zero-forward-scattering theory. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 2875.	1.5	26
26	Liquid Crystal Microlenses for Autostereoscopic Displays. Materials, 2016, 9, 36.	2.9	25
27	Cylindrical Liquid Crystal Microlens Array With Rotary Optical Power and Tunable Focal Length. IEEE Electron Device Letters, 2015, 36, 582-584.	3.9	24
28	Selective Dielectric Metasurfaces Based on Directional Conditions of Silicon Nanopillars. Nanomaterials, 2017, 7, 177.	4.1	23
29	Nanoparticles with unconventional scattering properties: Size effects. Optics Communications, 2010, 283, 490-496.	2.1	22
30	Fiber Optic Temperature Sensor Based on Amplitude Modulation of Metallic and Semiconductor Nanoparticles in a Liquid Crystal Mixture. Journal of Lightwave Technology, 2015, 33, 2451-2455.	4.6	22
31	Allâ€Dielectric Toroidal Metasurfaces for Angularâ€Dependent Resonant Polarization Beam Splitting. Advanced Optical Materials, 2021, 9, 2002143.	7.3	21
32	Light scattering by subwavelength Cu2O particles. Nanotechnology, 2017, 28, 134002.	2.6	20
33	Boosting ultrathin aSi-H solar cells absorption through a nanoparticle cross-packed metasurface. Solar Energy, 2020, 202, 10-16.	6.1	19
34	Electric and magnetic optical response of dielectric nanospheres: Optical forces and scattering anisotropy. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 345-352.	2.0	18
35	A monolithic nanostructured-perovskite/silicon tandem solar cell: feasibility of light management through geometry and materials selection. Scientific Reports, 2020, 10, 2271.	3.3	18
36	Modal liquid crystal microaxicon array. Optics Letters, 2014, 39, 3476.	3.3	17

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37	Chiral all-dielectric trimer nanoantenna. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 208, 71-77.	2.3	16
38	Efficient Light Management in a Monolithic Tandem Perovskite/Silicon Solar Cell by Using a Hybrid Metasurface. Nanomaterials, 2019, 9, 791.	4.1	16
39	Liquid Crystal Lensacons, Logarithmic and Linear Axicons. Materials, 2014, 7, 2593-2604.	2.9	15
40	Cylindrical and Powell Liquid Crystal Lenses With Positive-Negative Optical Power. IEEE Photonics Technology Letters, 2020, 32, 1057-1060.	2.5	14
41	Comment on â€œExperimental Evidence of Zero Forward Scattering by Magnetic Spheresâ€• Physical Review Letters, 2007, 98, .	7.8	13
42	Linear polarization degree for detecting magnetic properties of small particles. Optics Letters, 2010, 35, 4084.	3.3	13
43	Liquid Crystal Temperature Sensor Based on a Micrometric Structure and a Metallic Nanometric Layer. IEEE Electron Device Letters, 2014, 35, 666-668.	3.9	13
44	Wireless Temperature Sensor Based on a Nematic Liquid Crystal Cell as Variable Capacitance. Sensors, 2018, 18, 3436.	3.8	13
45	Engineering Aspheric Liquid Crystal Lenses by Using the Transmission Electrode Technique. Crystals, 2020, 10, 835.	2.2	10
46	Electrical Behavior of Liquid Crystal Devices with Dielectric Nanoparticles. Journal of Nanomaterials, 2020, 2020, 1-7.	2.7	10
47	High-Sensitivity Fabry-PÃ©rot Temperature Sensor Based on Liquid Crystal Doped With Nanoparticles. IEEE Photonics Technology Letters, 2015, 27, 292-295.	2.5	9
48	An indirect method of imaging the Stokes parameters of a submicron particle with sub-diffraction scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 213, 35-40.	2.3	8
49	Analysis of the Substrate Effect on the Zero-Backward Scattering Condition of a Cu2O Nanoparticle under Non-Normal Illumination. Nanomaterials, 2019, 9, 536.	4.1	8
50	Directional Scattering of Semiconductor Nanoparticles Embedded in a Liquid Crystal. Materials, 2014, 7, 2784-2794.	2.9	7
51	Using an Analytical Model to Design Liquid Crystal Microlenses. IEEE Photonics Technology Letters, 2014, 26, 793-796.	2.5	7
52	Thermally tunable polarization by nanoparticle plasmonic resonance in photonic crystal fibers. Optics Express, 2015, 23, 28935.	3.4	7
53	Size Dependence of the Directional Scattering Conditions on Semiconductor Nanoparticles. IEEE Photonics Technology Letters, 2015, 27, 2059-2062.	2.5	7
54	Distance limit of the directionality conditions for the scattering of nanoparticles. Metamaterials, 2010, 4, 15-23.	2.2	6

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55	Liquid Crystal Temperature Sensor Based on Three Electrodes and a High-Resistivity Layer. IEEE Sensors Journal, 2015, 15, 5222-5227.	4.7	6
56	Ultra-Narrow Spectral Response of a Hybrid Plasmonic-Grating Sensor. IEEE Sensors Journal, 2020, 20, 3520-3528.	4.7	5
57	Optimized Minimum-Forward Light Scattering by Dielectric Nanopillars. IEEE Photonics Technology Letters, 2016, 28, 2160-2163.	2.5	4
58	Temperature-Phase Converter Based on a LC Cell as a Variable Capacitance. Sensors, 2015, 15, 5594-5608.	3.8	2
59	Optical Tuning of Nanospheres Through Phase Transition: An Optical Nanocircuit Analysis. IEEE Photonics Technology Letters, 2016, 28, 2878-2881.	2.5	2
60	Resolving the multipolar scattering modes of a submicron particle using parametric indirect microscopic imaging. Photonics and Nanostructures - Fundamentals and Applications, 2018, 30, 7-13.	2.0	2
61	On the Optical Response of Nanoparticles: Directionality Effects and Optical Forces. , 0, , .		2
62	Electric and magnetic dipolar response of dielectric nanospheres: Scattering anisotropy and optical forces. , 2011, , .		1
63	Theoretical modeling of a Localized Surface Plasmon Resonance (LSPR) based fiber optic temperature sensor. Proceedings of SPIE, 2014, , .	0.8	1
64	Induced Magnetic Anisotropy in Liquid Crystals Doped with Resonant Semiconductor Nanoparticles. Journal of Nanomaterials, 2016, 2016, 1-9.	2.7	1
65	Quantum devices and optical computing. , 2011, , .		0
66	Editorial: Thermal, power and timing modeling, design and simulation. IET Circuits, Devices and Systems, 2012, 6, 271.	1.4	0
67	Design and Experimental Implementation of a Multi-Cloak Paraxial Optical System. Photonics, 2021, 8, 358.	2.0	0
68	Light scattering resonances in small particles with electric and magnetic optical properties. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 117-136.	0.2	0
69	Exploring the scattering directionality and light interaction in nanoparticle dimers of different semiconductors. Photonics Letters of Poland, 2017, 9, 42.	0.4	0
70	Refractive index sensing by all-dielectric metasurfaces supporting quasi-bound states in the continuum. , 2022, , .		0