

Agustin Mihi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

3,260
citations

32
h-index

56
g-index

81
ext. papers

3,636
ext. citations

11.6
avg, IF

5.28
L-index

#	Paper	IF	Citations
65	Large-area flexible 3D optical negative index metamaterial formed by nanotransfer printing. <i>Nature Nanotechnology</i> , 2011 , 6, 402-7	28.7	258
64	Oriented Colloidal-Crystal Thin Films by Spin-Coating Microspheres Dispersed in Volatile Media. <i>Advanced Materials</i> , 2006 , 18, 2244-2249	24	241
63	Porous One-Dimensional Photonic Crystals Improve the Power-Conversion Efficiency of Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2009 , 21, 764-770	24	227
62	Origin of light-harvesting enhancement in colloidal-photonic-crystal-based dye-sensitized solar cells. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 15968-76	3.4	173
61	Gold Nanoparticle Plasmonic Superlattices as Surface-Enhanced Raman Spectroscopy Substrates. <i>ACS Nano</i> , 2018 , 12, 8531-8539	16.7	162
60	Multidimensional architectures for functional optical devices. <i>Advanced Materials</i> , 2010 , 22, 1084-101	24	154
59	Coupling of plasmonic and optical cavity modes in quasi-three-dimensional plasmonic crystals. <i>Nature Communications</i> , 2011 , 2, 479	17.4	140
58	Spectral Response of Opal-Based Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13-17	3.8	131
57	Transfer of preformed three-dimensional photonic crystals onto dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5712-5	16.4	128
56	Dielectric Planar Defects in Colloidal Photonic Crystal Films. <i>Advanced Materials</i> , 2004 , 16, 346-349	24	110
55	Hydroxypropyl cellulose photonic architectures by soft nanoimprinting lithography. <i>Nature Photonics</i> , 2018 , 12, 343-348	33.9	100
54	Photoelectric energy conversion of plasmon-generated hot carriers in metal-insulator-semiconductor structures. <i>ACS Nano</i> , 2013 , 7, 3581-8	16.7	97
53	Full spectrum enhancement of the light harvesting efficiency of dye sensitized solar cells by including colloidal photonic crystal multilayers. <i>Applied Physics Letters</i> , 2006 , 88, 193110	3.4	81
52	Building Nanocrystalline Planar Defects within Self-Assembled Photonic Crystals by Spin-Coating. <i>Advanced Materials</i> , 2006 , 18, 1183-1187	24	66
51	Building Tunable Planar Defects into Photonic Crystals Using Polyelectrolyte Multilayers. <i>Advanced Materials</i> , 2005 , 17, 1912-1916	24	66
50	Enhanced Photoconductivity in Thin-Film Semiconductors Optically Coupled to Photonic Crystals. <i>Advanced Materials</i> , 2007 , 19, 4177-4182	24	58
49	Experimental Demonstration of the Mechanism of Light Harvesting Enhancement in Photonic-Crystal-Based Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1150-1154	3.8	56

48	Large-Area Plasmonic-Crystal Hot-Electron-Based Photodetectors. <i>ACS Photonics</i> , 2015 , 2, 950-957	6.3	55
47	Spatial light interference tomography (SLIT). <i>Optics Express</i> , 2011 , 19, 19907-18	3.3	55
46	Solvent-Assisted Self-Assembly of Gold Nanorods into Hierarchically Organized Plasmonic Mesostructures. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11763-11771	9.5	54
45	Templated-Assembly of CsPbBr Perovskite Nanocrystals into 2D Photonic Supercrystals with Amplified Spontaneous Emission. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17750-17756	16.4	44
44	Triangular Elastomeric Stamps for Optical Applications: Near-Field Phase Shift Photolithography, 3D Proximity Field Patterning, Embossed Antireflective Coatings, and SERS Sensing. <i>Advanced Functional Materials</i> , 2012 , 22, 2927-2938	15.6	41
43	Growth of mesoporous materials within colloidal crystal films by spin-coating. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19643-9	3.4	40
42	Surface roughness boosts the SERS performance of imprinted plasmonic architectures. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3970-3975	7.1	39
41	Vapor swellable colloidal photonic crystals with pressure tunability. <i>Journal of Materials Chemistry</i> , 2005 , 15, 133-138		38
40	Imprinted electrodes for enhanced light trapping in solution processed solar cells. <i>Advanced Materials</i> , 2014 , 26, 443-8	24	37
39	Surface resonant modes in colloidal photonic crystals. <i>Physical Review B</i> , 2005 , 71,	3.3	37
38	Nanostructured Back Reflectors for Efficient Colloidal Quantum-Dot Infrared Optoelectronics. <i>Advanced Materials</i> , 2019 , 31, e1901745	24	36
37	Silicon micro-masonry using elastomeric stamps for three-dimensional microfabrication. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 055018	2	36
36	Coherent phonon-grain boundary scattering in silicon inverse opals. <i>Nano Letters</i> , 2013 , 13, 618-24	11.5	33
35	Multiplex SERS Detection of Metabolic Alterations in Tumor Extracellular Media. <i>Advanced Functional Materials</i> , 2020 , 30, 1910335	15.6	32
34	Tailoring photonic crystals with nanometer-scale precision using polyelectrolyte multilayers. <i>Langmuir</i> , 2005 , 21, 499-503	4	32
33	Molecular interfaces for plasmonic hot electron photovoltaics. <i>Nanoscale</i> , 2015 , 7, 2281-8	7.7	31
32	Interplay Between Morphology, Optical Properties, and Electronic Structure of Solution-Processed Bi ₂ S ₃ Colloidal Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10693-10699	3.8	25
31	Ultrathin Semiconductor Superabsorbers from the Visible to the Near-Infrared. <i>Advanced Materials</i> , 2018 , 30, 1705876	24	24

30	Imbricate scales as a design construct for microsystem technologies. <i>Small</i> , 2012 , 8, 901-6, 785	11	22
29	Transfer of Preformed Three-Dimensional Photonic Crystals onto Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2011 , 123, 5830-5833	3.6	21
28	Radiative lifetime modification of LaF ₃ nanoparticles embedded in 3D silicon photonic crystals. <i>Advanced Materials</i> , 2012 , 24, OP153-8	24	18
27	Phase delay and group velocity determination at a planar defect state in three dimensional photonic crystals. <i>Applied Physics Letters</i> , 2007 , 90, 101113	3.4	15
26	Enabling New Classes of Templated Materials through Mesoporous Carbon Colloidal Crystals. <i>Advanced Optical Materials</i> , 2013 , 1, 300-304	8.1	14
25	Coupling Resonant Modes of Embedded Dielectric Microspheres in Solution-Processed Solar Cells. <i>Advanced Optical Materials</i> , 2013 , 1, 139-143	8.1	14
24	Tunable index metamaterials made by bottom-up approaches. <i>Nanoscale Advances</i> , 2019 , 1, 1070-1076	5.1	12
23	Solar Harvesting: a Unique Opportunity for Organic Thermoelectrics?. <i>Advanced Energy Materials</i> , 2019 , 9, 1902385	21.8	11
22	A water-processable cellulose-based resist for advanced nanofabrication. <i>Nanoscale</i> , 2018 , 10, 17884-17892	7.9	11
21	Templated Colloidal Self-Assembly for Lattice Plasmon Engineering. <i>Accounts of Materials Research</i> , 2021 , 2, 816-827	7.5	10
20	Electrodeposited Negative Index Metamaterials with Visible and Near Infrared Response. <i>Advanced Optical Materials</i> , 2020 , 8, 2000865	8.1	9
19	Light generation at the anomalous dispersion high energy range of a nonlinear opal film. <i>Optics Express</i> , 2009 , 17, 12210-6	3.3	9
18	Near infrared organic photodetectors based on enhanced charge transfer state absorption by photonic architectures. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9688-9696	7.1	8
17	High-Throughput Nanofabrication of Metasurfaces with Polarization-Dependent Response. <i>Advanced Optical Materials</i> , 2020 , 8, 2000786	8.1	8
16	Improving the Efficiency of PTB1: PCBM Bulk Heterojunction Solar Cells by Polymer Blend Solution Aging. <i>IEEE Journal of Photovoltaics</i> , 2015 , 5, 889-896	3.7	7
15	Enhanced Directional Light Extraction from Patterned Rare-Earth Phosphor Films. <i>Advanced Optical Materials</i> , 2021 , 9, 2001611	8.1	7
14	Large area metasurfaces made with spherical silicon resonators. <i>Nanophotonics</i> , 2020 , 9, 943-951	6.3	6
13	Mechanically Tunable Lattice-Plasmon Resonances by Templated Self-Assembled Superlattices for Multi-Wavelength Surface-Enhanced Raman Spectroscopy.. <i>Small Methods</i> , 2021 , 5, e2100453	12.8	6

12	Energy Transfer and Interference by Collective Electromagnetic Coupling. <i>Nano Letters</i> , 2019 , 19, 5790-5795	5.5	5
11	Hydroxypropyl Cellulose Adhesives for Transfer Printing of Carbon Nanotubes and Metallic Nanostructures. <i>Small</i> , 2020 , 16, e2004795	11	5
10	Geometric frustration in ordered lattices of plasmonic nanoelements. <i>Scientific Reports</i> , 2019 , 9, 3529	4.9	4
9	Template-basierte Herstellung von 2D-photonischen Superkristallen mit verstärkter spontaner Emission aus CsPbBr ₃ -Perowskit-Nanokristallen. <i>Angewandte Chemie</i> , 2020 , 132, 17903-17909	3.6	4
8	Facile Chemical Route to Prepare Water Soluble Epitaxial Sr ₃ Al ₂ O ₆ Sacrificial Layers for Free-Standing Oxides. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001643	4.6	4
7	Narrow Line Width Quantum Emitters in an Electron-Beam-Shaped Polymer. <i>ACS Photonics</i> , 2019 , 6, 3120-3125	3.3	3
6	Engineering Plasmonic Colloidal Meta-Molecules for Tunable Photonic Supercrystals. <i>Advanced Optical Materials</i> , 2021 , 9, 2100761	8.1	3
5	Large-Scale Soft-Lithographic Patterning of Plasmonic Nanoparticles 2021 , 3, 282-289		2
4	Au/TiO ₂ 2D-Photonic Crystals as UV-Visible Photocatalysts for H ₂ Production. <i>Advanced Energy Materials</i> , 2022 , 12, 2103733	21.8	2
3	Microresonators: Coupling Resonant Modes of Embedded Dielectric Microspheres in Solution-Processed Solar Cells (Advanced Optical Materials 2/2013). <i>Advanced Optical Materials</i> , 2013 , 1, 194-194	8.1	1
2	Tunable defects in colloidal photonic crystals 2006 ,		1
1	Enhanced Photoluminescence of Cesium Lead Halide Perovskites by Quasi-3D Photonic Crystals. <i>Advanced Optical Materials</i> , 2101324	8.1	1