

Calin Hrelescu

List of Publications by Year in descending order

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43
papers

1,766
citations

394421

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395702

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43
all docs

43
docs citations

43
times ranked

3101
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-free Biosensing Based on Single Gold Nanostars as Plasmonic Transducers. ACS Nano, 2010, 4, 6318-6322.	14.6	300
2	Single gold nanostars enhance Raman scattering. Applied Physics Letters, 2009, 94, .	3.3	185
3	Selective Excitation of Individual Plasmonic Hotspots at the Tips of Single Gold Nanostars. Nano Letters, 2011, 11, 402-407.	9.1	175
4	120 nm resolution and 55 nm structure size in STED-lithography. Optics Express, 2013, 21, 10831.	3.4	154
5	Gold NanoStoves for Microsecond DNA Melting Analysis. Nano Letters, 2008, 8, 619-623.	9.1	144
6	Spectral and Directional Reshaping of Fluorescence in Large Area Self-Assembled Plasmonicâ€“Photonic Crystals. Nano Letters, 2013, 13, 378-386.	9.1	76
7	Gold nanostars for random lasing enhancement. Optics Express, 2015, 23, 15152.	3.4	61
8	Plasmonic Nanostars as Efficient Broadband Scatterers for Random Lasing. ACS Photonics, 2016, 3, 919-923.	6.6	58
9	DNA Melting in Gold Nanostove Clusters. Journal of Physical Chemistry C, 2010, 114, 7401-7411.	3.1	50
10	Optical Plasmons of Individual Gold Nanosponges. ACS Photonics, 2015, 2, 1436-1442.	6.6	50
11	Random Lasing with Systematic Threshold Behavior in Films of CdSe/CdS Core/Thick-Shell Colloidal Quantum Dots. ACS Nano, 2015, 9, 9792-9801.	14.6	49
12	Anticorrelation of Photoluminescence from Gold Nanoparticle Dimers with Hot-Spot Intensity. Nano Letters, 2016, 16, 7203-7209.	9.1	48
13	Performance Boost of Organic Lightâ€“Emitting Diodes with Plasmonic Nanostars. Advanced Optical Materials, 2016, 4, 772-781.	7.3	45
14	Triggering the volume phase transition of coreâ€“shell Au nanorodâ€“microgel nanocomposites with light. Nanotechnology, 2011, 22, 245708.	2.6	44
15	Accelerating fluorescence resonance energy transfer with plasmonic nanoresonators. Chemical Physics Letters, 2011, 508, 67-70.	2.6	43
16	Laser-induced periodic surface structures on polymers for formation of gold nanowires and activation of human cells. Applied Physics A: Materials Science and Processing, 2014, 117, 295-300.	2.3	41
17	Quantitative Understanding of the Optical Properties of a Single, Complex-Shaped Gold Nanoparticle from Experiment and Theory. ACS Nano, 2014, 8, 4395-4402.	14.6	31
18	Decoherence of a two-qubit system away from perfect symmetry. Physical Review A, 2005, 72, .	2.5	27

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19	Plasmonic Horizon in Gold Nanosponges. Nano Letters, 2018, 18, 1269-1273.	9.1	26
20	Structural, optical, and electrical properties of silver gratings prepared by nanoimprint lithography of nanoparticle ink. Applied Surface Science, 2021, 537, 147892.	6.1	19
21	Dye-doped spheres with plasmonic semi-shells: Lasing modes and scattering at realistic gain levels. Beilstein Journal of Nanotechnology, 2013, 4, 974-987.	2.8	18
22	Minimal spaser threshold within electrodynamic framework: Shape, size and modes. Annalen Der Physik, 2016, 528, 295-306.	2.4	18
23	Influence of Gold Nano-Bipyramid Dimensions on Strong Coupling with Excitons of Monolayer MoS ₂ . ACS Applied Materials & Interfaces, 2020, 12, 46406-46415.	8.0	16
24	Hybrid Multilayered Plasmonic Nanostars for Coherent Random Lasing. Journal of Physical Chemistry C, 2016, 120, 23707-23715.	3.1	15
25	Raman and Luminescent Spectra of Sulfonated Zn Phthalocyanine Enhanced by Gold Nanoparticles. Nanoscale Research Letters, 2017, 12, 197.	5.7	15
26	Localized-Plasmon Voltammetry to Detect pH Dependent Gold Oxidation. Journal of Physical Chemistry C, 2018, 122, 4565-4571.	3.1	12
27	Different Device Architectures for Bulk-Heterojunction Solar Cells. Frontiers in Materials, 2016, 3, .	2.4	10
28	Plasmon-Assisted Direction- and Polarization-Sensitive Organic Thin-Film Detector. Nanomaterials, 2020, 10, 1866.	4.1	10
29	Dependence of Photocurrent Enhancements in Hybrid Quantum Dot-MoS ₂ Devices on Quantum Dot Emission Wavelength. ACS Photonics, 2019, 6, 976-984.	6.6	9
30	Quasi-Guided Modes in Titanium Dioxide Arrays Fabricated via Soft Nanoimprint Lithography. ACS Applied Materials & Interfaces, 2021, 13, 47860-47870.	8.0	7
31	Plasmonic nanodiscs on vanadium dioxide thin films for tunable luminescence enhancement. Optics Express, 2021, 29, 22288.	3.4	5
32	Plasmonic Colour Printing by Light Trapping in Two-Metal Nanostructures. Nanomaterials, 2019, 9, 963.	4.1	3
33	Giant cross polarization in a nanoimprinted metamaterial combining a fishnet with its Babinet complement. Optics Express, 2015, 23, 19034.	3.4	2
34	Large area self-assembled plasmonic-photonic crystals for spectral and directional reshaping of fluorescence. , 2013, , .		0
35	Reflection, transmission, absorption, diffraction and gain in plasmonic-photonic Ag-capped monolayers of dye-doped nanospheres. , 2013, , .		0
36	Laser-induced periodic structures on polymers for the formation of gold or silver nanowires showing pronounced plasmon resonances. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
37	Unpolarized photoluminescence from d-band holes versus polarized scattering of single gold nanosponges. , 2017, , .		0
38	Anticorrelation of photoluminescence from d-band holes with hot-spot strength between two gold bipyramids. , 2017, , .		0
39	Photon management in organic light-emitting diodes with multilayered plasmonic nanostars. , 2017, , .		0
40	Light Manipulation with Plasmonic Structures using Phase Change Materials. , 2019, , .		0
41	Metal-graphene nanostructures for SEIRA spectroscopy. Molecular Crystals and Liquid Crystals, 2020, 701, 106-117.	0.9	0
42	Rabi Splitting using Gold Nano-Bipyramids and Monolayer MoS2. , 2021, , .		0
43	Influence of Nanoparticle Dimensions on Rabi Splitting Strength. , 2021, , .		0