

Loredana Protesescu

List of Publications by Year in descending order

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58
papers

16,806
citations

109264

35
h-index

161767

54
g-index

60
all docs

60
docs citations

60
times ranked

13978
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Dynamics and Tunability for Colloidal Tin Halide Perovskite Nanostructures. <i>Advanced Materials</i> , 2022, 34, e2201353.	11.1	16
2	Colloidal nano-MOFs nucleate and stabilize ultra-small quantum dots of lead bromide perovskites. <i>Chemical Science</i> , 2021, 12, 6129-6135.	3.7	14
3	Tuning the Energetic Landscape of Ruddlesden-Popper Perovskite Films for Efficient Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 39-46.	8.8	47
4	Photochromism in Ruddlesden-Popper copper-based perovskites: a light-induced change of coordination number at the surface. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15377-15384.	2.7	14
5	Exciton-Ligand Interactions in PbS Quantum Dots Capped with Metal Chalcogenides. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27848-27857.	1.5	5
6	Exciton Gating and Triplet Deshelving in Single Dye Molecules Excited by Perovskite Nanocrystal FRET Antennae. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1055-1062.	2.1	14
7	Low-Cost Synthesis of Highly Luminescent Colloidal Lead Halide Perovskite Nanocrystals by Wet Ball Milling. <i>ACS Applied Nano Materials</i> , 2018, 1, 1300-1308.	2.4	159
8	Unveiling the Shape Evolution and Halide-Ion-Segregation in Blue-Emitting Formamidinium Lead Halide Perovskite Nanocrystals Using an Automated Microfluidic Platform. <i>Nano Letters</i> , 2018, 18, 1246-1252.	4.5	106
9	Efficient Optical Amplification in the Nanosecond Regime from Formamidinium Lead Iodide Nanocrystals. <i>ACS Photonics</i> , 2018, 5, 907-917.	3.2	30
10	The effect of PbS nanocrystal additives on the charge transfer state recombination in a bulk heterojunction blend. <i>Organic Photonics and Photovoltaics</i> , 2018, 6, 1-7.	1.3	0
11	Size-Dependent Fault-Driven Relaxation and Faceting in Zincblende CdSe Colloidal Quantum Dots. <i>ACS Nano</i> , 2018, 12, 12558-12570.	7.3	33
12	Resolving the Core and the Surface of CdSe Quantum Dots and Nanoplatelets Using Dynamic Nuclear Polarization Enhanced PASS-PIETA NMR Spectroscopy. <i>ACS Central Science</i> , 2018, 4, 1113-1125.	5.3	46
13	Exploration of Near-Infrared-Emissive Colloidal Multinary Lead Halide Perovskite Nanocrystals Using an Automated Microfluidic Platform. <i>ACS Nano</i> , 2018, 12, 5504-5517.	7.3	138
14	Phonon Interaction and Phase Transition in Single Formamidinium Lead Bromide Quantum Dots. <i>Nano Letters</i> , 2018, 18, 4440-4446.	4.5	57
15	Dismantling the "Red Wall" of Colloidal Perovskites: Highly Luminescent Formamidinium and Formamidinium-Cesium Lead Iodide Nanocrystals. <i>ACS Nano</i> , 2017, 11, 3119-3134.	7.3	414
16	Coherent Nanotwins and Dynamic Disorder in Cesium Lead Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2017, 11, 3819-3831.	7.3	246
17	Long-Lived Hot Carriers in Formamidinium Lead Iodide Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12434-12440.	1.5	62
18	Exciton Recombination in Formamidinium Lead Triiodide: Nanocrystals versus Thin Films. <i>Small</i> , 2017, 13, 1700673.	5.2	62

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19	Microfluidic Reactors Provide Preparative and Mechanistic Insights into the Synthesis of Formamidinium Lead Halide Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2017, 29, 8433-8439.	3.2	81
20	Properties and potential optoelectronic applications of lead halide perovskite nanocrystals. <i>Science</i> , 2017, 358, 745-750.	6.0	1,755
21	Air-Stable, Near-to Mid-Infrared Emitting Solids of PbTe/CdTe Core-Shell Colloidal quantum dots. <i>ChemPhysChem</i> , 2016, 17, 670-674.	1.0	15
22	Free carrier generation and recombination in PbS quantum dot solar cells. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	16
23	Monodisperse Formamidinium Lead Bromide Nanocrystals with Bright and Stable Green Photoluminescence. <i>Journal of the American Chemical Society</i> , 2016, 138, 14202-14205.	6.6	385
24	Harnessing Defect-Tolerance at the Nanoscale: Highly Luminescent Lead Halide Perovskite Nanocrystals in Mesoporous Silica Matrixes. <i>Nano Letters</i> , 2016, 16, 5866-5874.	4.5	501
25	Single Cesium Lead Halide Perovskite Nanocrystals at Low Temperature: Fast Single-Photon Emission, Reduced Blinking, and Exciton Fine Structure. <i>ACS Nano</i> , 2016, 10, 2485-2490.	7.3	299
26	Synthesis of Cesium Lead Halide Perovskite Nanocrystals in a Droplet-Based Microfluidic Platform: Fast Parametric Space Mapping. <i>Nano Letters</i> , 2016, 16, 1869-1877.	4.5	425
27	Nanocrystals of Cesium Lead Halide Perovskites (CsPbX ₃ , X = Cl, Br, and I): Novel Optoelectronic Materials Showing Bright Emission with Wide Color Gamut. <i>Nano Letters</i> , 2015, 15, 3692-3696.	4.5	6,814
28	Atomistic Description of Thiostannate-Capped CdSe Nanocrystals: Retention of Four-Coordinate SnS ₄ Motif and Preservation of Cd-Rich Stoichiometry. <i>Journal of the American Chemical Society</i> , 2015, 137, 1862-1874.	6.6	48
29	Fast Anion-Exchange in Highly Luminescent Nanocrystals of Cesium Lead Halide Perovskites (CsPbX ₃ , X = Cl, Br, I). <i>Nano Letters</i> , 2015, 15, 5635-5640.	4.5	1,938
30	Temperature-Dependent Optical Properties of PbS/CdS Core/Shell Quantum Dot Thin Films: Probing the Wave Function Delocalization. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17480-17486.	1.5	18
31	Opto-electronics of PbS quantum dot and narrow bandgap polymer blends. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5499-5505.	2.7	26
32	Counterion-Mediated Ligand Exchange for PbS Colloidal Quantum Dot Superlattices. <i>ACS Nano</i> , 2015, 9, 11951-11959.	7.3	121
33	Low-threshold amplified spontaneous emission and lasing from colloidal nanocrystals of caesium lead halide perovskites. <i>Nature Communications</i> , 2015, 6, 8056.	5.8	1,278
34	Random Lasing with Systematic Threshold Behavior in Films of CdSe/CdS Core/Thick-Shell Colloidal Quantum Dots. <i>ACS Nano</i> , 2015, 9, 9792-9801.	7.3	49
35	Organic-Inorganic Hybrid Solution-Processed H ₂ -Evolving Photocathodes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19083-19090.	4.0	31
36	A General Synthesis Strategy for Monodisperse Metallic and Metalloid Nanoparticles (In, Ga, Bi, Sb, Zn,) <i>Tj ETQqO O O rgBT /Overlock 10</i> 635-647.	3.2	99

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37	Origin of the increased open circuit voltage in PbS/CdS core-shell quantum dot solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1450-1457.	5.2	91
38	High Infrared Photoconductivity in Films of Arsenic-Sulfide-Encapsulated Lead-Sulfide Nanocrystals. <i>ACS Nano</i> , 2014, 8, 12883-12894.	7.3	62
39	Biocatalytic alternative for bio-glycerol conversion with alkyl carbonates via a lipase-linked magnetic nano-particles assisted process. <i>Applied Catalysis B: Environmental</i> , 2014, 145, 120-125.	10.8	34
40	High performance photoelectrochemical hydrogen generation and solar cells with a double type II heterojunction. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7531-7537.	1.3	22
41	Facile Droplet-based Microfluidic Synthesis of Monodisperse IV-VI Semiconductor Nanocrystals with Coupled In-Line NIR Fluorescence Detection. <i>Chemistry of Materials</i> , 2014, 26, 2975-2982.	3.2	87
42	Sensitized solar cells with colloidal PbS/CdS core-shell quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 736-742.	1.3	125
43	Unraveling the Core-Shell Structure of Ligand-Capped Sn/SnO ₂ Nanoparticles by Surface-Enhanced Nuclear Magnetic Resonance, Mössbauer, and X-ray Absorption Spectroscopies. <i>ACS Nano</i> , 2014, 8, 2639-2648.	7.3	87
44	Surface Functionalization of Semiconductor and Oxide Nanocrystals with Small Inorganic Oxoanions (PO ₄ ³⁻ , MoO ₄ ²⁻) and Polyoxometalate Ligands. <i>ACS Nano</i> , 2014, 8, 9388-9402.	7.3	92
45	Monodisperse Colloidal Gallium Nanoparticles: Synthesis, Low Temperature Crystallization, Surface Plasmon Resonance and Li-Ion Storage. <i>Journal of the American Chemical Society</i> , 2014, 136, 12422-12430.	6.6	133
46	Hybrid inorganic-organic tandem solar cells for broad absorption of the solar spectrum. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7672-7676.	1.3	19
47	Photophysics of PbS Quantum Dot Films Capped with Arsenic Sulfide Ligands. <i>Advanced Energy Materials</i> , 2014, 4, 1301547.	10.2	15
48	5.2% efficient PbS nanocrystal Schottky solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 3054.	15.6	123
49	Monodisperse and Inorganically Capped Sn and Sn/SnO ₂ Nanocrystals for High-Performance Li-Ion Battery Anodes. <i>Journal of the American Chemical Society</i> , 2013, 135, 4199-4202.	6.6	346
50	Biocatalysis applied in glycerol chemistry - green synthesis of glycerol carbonate. <i>New Biotechnology</i> , 2012, 29, S72-S73.	2.4	2
51	Recyclable biocatalytic composites of lipase-linked magnetic macro-/nano-particles for glycerol carbonate synthesis. <i>Applied Catalysis A: General</i> , 2012, 437-438, 90-95.	2.2	42
52	Efficient bio-conversion of glycerol to glycerol carbonate catalyzed by lipase extracted from <i>Aspergillus niger</i> . <i>Green Chemistry</i> , 2012, 14, 478.	4.6	74
53	Unusual Behavior of a Novel Heterogeneous Chiral Dimer Cr(III)-Salen Complex in the Epoxidation/Epoxide Ring-Opening Reaction of trans-Methylcinnamate Ester. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1112-1122.	1.5	13
54	Novel Pd heterogeneous catalysts for cycloisomerisation of acetylenic carboxylic acids. <i>Green Chemistry</i> , 2010, 12, 2145.	4.6	23

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55	Exciton gating and triplet deshelling in single dye molecules excited by perovskite nanocrystal FRET antennae. , 0, , .		0
56	Bright Triplet Emission from Lead Halide Perovskite Nanocrystals. , 0, , .		0
57	Bright Triplet Emission from Lead Halide Perovskite Nanocrystals. , 0, , .		0
58	Exciton Gating and Triplet Deshelling in Single Dye Molecules Excited by Perovskite Nanocrystal FRET Antennae. , 0, , .		0