

Luigi Carbone

List of Publications by Year in descending order

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102
papers

5,411
citations

159358

30
h-index

82410

72
g-index

105
all docs

105
docs citations

105
times ranked

7812
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Micrometer-Scale Assembly of Colloidal CdSe/CdS Nanorods Prepared by a Seeded Growth Approach. <i>Nano Letters</i> , 2007, 7, 2942-2950.	4.5	1,098
2	Microwave-Assisted Synthesis of Colloidal Inorganic Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11312-11359.	7.2	686
3	Colloidal heterostructured nanocrystals: Synthesis and growth mechanisms. <i>Nano Today</i> , 2010, 5, 449-493.	6.2	628
4	Metallic-like Stoichiometric Copper Sulfide Nanocrystals: Phase- and Shape-Selective Synthesis, Near-Infrared Surface Plasmon Resonance Properties, and Their Modeling. <i>ACS Nano</i> , 2013, 7, 7352-7369.	7.3	306
5	Selective Growth of PbSe on One or Both Tips of Colloidal Semiconductor Nanorods. <i>Nano Letters</i> , 2005, 5, 445-449.	4.5	228
6	Multiple Wurtzite Twinning in CdTe Nanocrystals Induced by Methylphosphonic Acid. <i>Journal of the American Chemical Society</i> , 2006, 128, 748-755.	6.6	165
7	Ultrafast Electron-Hole Dynamics in Core/Shell CdSe/CdS Dot/Rod Nanocrystals. <i>Nano Letters</i> , 2008, 8, 4582-4587.	4.5	146
8	Polarized Light Emitting Diode by Long-Range Nanorod Self-Assembling on a Water Surface. <i>ACS Nano</i> , 2009, 3, 1506-1512.	7.3	127
9	White organic light-emitting devices with CdSe/ZnS quantum dots as a red emitter. <i>Journal of Applied Physics</i> , 2005, 97, 113501.	1.1	115
10	Colloidal Arenethiolate-Capped PbS Quantum Dots: Optoelectronic Properties, Self-Assembly, and Application in Solution-Cast Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13305-13317.	1.5	112
11	Selective reactions on the tips of colloidal semiconductor nanorods. <i>Journal of Materials Chemistry</i> , 2006, 16, 3952.	6.7	108
12	Light-Controlled One-Sided Growth of Large Plasmonic Gold Domains on Quantum Rods Observed on the Single Particle Level. <i>Nano Letters</i> , 2009, 9, 3710-3714.	4.5	106
13	Intrinsic optical nonlinearity in colloidal seeded grown CdSe/CdS nanostructures: Photoinduced screening of the internal electric field. <i>Physical Review B</i> , 2008, 78, .	1.1	91
14	Mapping the Polarization Pattern of Plasmon Modes Reveals Nanoparticle Symmetry. <i>Nano Letters</i> , 2008, 8, 2345-2350.	4.5	65
15	Exciton Fine Structure of CdSe/CdS Nanocrystals Determined by Polarization Microscopy at Room Temperature. <i>ACS Nano</i> , 2015, 9, 7992-8003.	7.3	62
16	Novel hydroxyapatite nanorods improve anti-caries efficacy of enamel infiltrants. <i>Dental Materials</i> , 2016, 32, 784-793.	1.6	55
17	Non-Blinking Single-Photon Generation with Anisotropic Colloidal Nanocrystals: Towards Room-Temperature, Efficient, Colloidal Quantum Sources. <i>Advanced Materials</i> , 2013, 25, 1974-1980.	11.1	51
18	Nanoscale Study of the Tarnishing Process in Electron Beam Lithography-Fabricated Silver Nanoparticles for Plasmonic Applications. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24314-24323.	1.5	49

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19	Optical properties of tetrapod-shaped CdTe nanocrystals. <i>Applied Physics Letters</i> , 2005, 87, 224101.	1.5	44
20	Self-assembly of highly fluorescent semiconductor nanorods into large scale smectic liquid crystal structures by coffee stain evaporation dynamics. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 264013.	0.7	42
21	Continuous-Flow Production of Injectable Liposomes via a Microfluidic Approach. <i>Materials</i> , 2017, 10, 1411.	1.3	42
22	Rod-Shaped Nanocrystals Elicit Neuronal Activity In Vivo. <i>Small</i> , 2008, 4, 1747-1755.	5.2	38
23	Two-Dimensional Photonic Crystal Resist Membrane Nanocavity Embedding Colloidal Dot-in-a-Rod Nanocrystals. <i>Nano Letters</i> , 2008, 8, 260-264.	4.5	38
24	MZnFe ₂ O ₄ (M = Ni, Mn) cubic superparamagnetic nanoparticles obtained by hydrothermal synthesis. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	37
25	Alignment of Rod-Shaped Single-Photon Emitters Driven by Line Defects in Liquid Crystals. <i>Advanced Functional Materials</i> , 2015, 25, 1719-1726.	7.8	37
26	Rapid Sonochemical Approach Produces Functionalized Fe ₃ O ₄ Nanoparticles with Excellent Magnetic, Colloidal, and Relaxivity Properties for MRI Application. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24206-24222.	1.5	37
27	Confinement Effects on Optical Phonons in Polar Tetrapod Nanocrystals Detected by Resonant Inelastic Light Scattering. <i>Nano Letters</i> , 2006, 6, 478-482.	4.5	35
28	Fluorescence enhancement in colloidal semiconductor nanocrystals by metallic nanopatterns. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 187-192.	4.0	34
29	The role of the cosurfactant in the CTAB/water/n-pentanol/n-hexane system: Pentanol effect on the phase equilibria and mesophase structure. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 1423-1429.	1.3	33
30	The dynamic surface chemistry of colloidal metal chalcogenide quantum dots. <i>Nanoscale Advances</i> , 2019, 1, 3639-3646.	2.2	33
31	Sustainable Preparation of Cardanol-Based Nanocarriers with Embedded Natural Phenolic Compounds. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1299-1304.	3.2	31
32	Exploiting the Transformative Features of Metal Halides for the Synthesis of CsPbBr ₃ @SiO ₂ Core-Shell Nanocrystals. <i>Chemistry of Materials</i> , 2022, 34, 405-413.	3.2	29
33	First Example of a Lipophilic Porphyrin-Cardanol Hybrid Embedded in a Cardanol-Based Micellar Nanodispersion. <i>Molecules</i> , 2012, 17, 12252-12261.	1.7	27
34	Magnetic nanoparticles coated with anacardic acid derived from cashew nut shell liquid. <i>Journal of Materials Science</i> , 2013, 48, 7875-7882.	1.7	26
35	Effect of charging on CdSe/CdS dot-in-rods single-photon emission. <i>Physical Review B</i> , 2014, 90, .	1.1	26
36	Magnetic Nanosystem for Cancer Therapy Using Oncocalyxone A, an Antitumour Secondary Metabolite Isolated from a Brazilian Plant. <i>International Journal of Molecular Sciences</i> , 2013, 14, 18269-18283.	1.8	25

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37	Macroscale alignment of CdSe/CdS nanorods by porous anodic alumina templates. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009, 3, 151-153.	1.2	23
38	Novel ferrofluids coated with a renewable material obtained from cashew nut shell liquid. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 677-686.	1.0	23
39	Carbon nanodot-based heterostructures for improving the charge separation and the photocurrent generation. <i>Nanoscale</i> , 2019, 11, 7414-7423.	2.8	22
40	Multiphoton nonclassical light from clusters of single-photon emitters. <i>New Journal of Physics</i> , 2018, 20, 073013.	1.2	21
41	Porphyrin synthesized from cashew nut shell liquid as part of a novel superparamagnetic fluorescence nanosystem. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	20
42	Polarimetry-based analysis of dipolar transitions of single colloidal CdSe/CdS dot-in-rods. <i>New Journal of Physics</i> , 2014, 16, 093014.	1.2	20
43	High Q-factor colloidal nanocrystal-based vertical microcavity by hot embossing technology. <i>Applied Physics Letters</i> , 2006, 88, 181108.	1.5	19
44	Electric-Field-Controlled Alignment of Rod-Shaped Fluorescent Nanocrystals in Smectic Liquid Crystal Defect Arrays. <i>Advanced Functional Materials</i> , 2016, 26, 7122-7131.	7.8	19
45	The enhancement of excitonic emission crossing Saha equilibrium in trap passivated CH ₃ NH ₃ PbBr ₃ perovskite. <i>Communications Physics</i> , 2020, 3, .	2.0	19
46	Self-Assembly of Amphiphilic Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4282-4283.	7.2	18
47	New ZnO@Cardanol Porphyrin Composite Nanomaterials with Enhanced Photocatalytic Capability under Solar Light Irradiation. <i>Materials</i> , 2017, 10, 1114.	1.3	18
48	Photon correlations for colloidal nanocrystals and their clusters. <i>Optics Letters</i> , 2014, 39, 1791.	1.7	17
49	Confinement effects on optical phonons in spherical, rod-, and tetrapod-shaped nanocrystals detected by Raman spectroscopy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 483-486.	0.8	16
50	Optical trapping of nanoparticles by full solid-angle focusing. <i>Optica</i> , 2016, 3, 1181.	4.8	16
51	Lithographic nano-patterning of colloidal nanocrystal emitters for the fabrication of waveguide photonic devices. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 116-119.	4.0	15
52	Simplified preparation and characterization of magnetic hydroxyapatite-based nanocomposites. <i>Materials Science and Engineering C</i> , 2017, 76, 1166-1174.	3.8	15
53	Synthesis routes for the growth of complex nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 37, 128-133.	1.3	14
54	Effect of solvent composition on the structural and magnetic properties of MnZn ferrite nanoparticles obtained by hydrothermal synthesis. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 233-244.	1.0	14

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55	Cardanol-based green nanovesicles with antioxidant and cytotoxic activities. <i>Journal of Experimental Nanoscience</i> , 2016, 11, 1274-1284.	1.3	13
56	Nanocrystals cylindrical microcavities exploiting thin-walled InGaAs/GaAs microtubes. <i>Microelectronic Engineering</i> , 2007, 84, 1408-1411.	1.1	12
57	Fast and safe microwave-assisted glass channel-shaped microstructure fabrication. <i>Lab on A Chip</i> , 2015, 15, 2395-2399.	3.1	12
58	Bioinspired benzoxazines synthesized in a deep eutectic solvent: A greener approach toward vesicular nanosystems. <i>Journal of Heterocyclic Chemistry</i> , 2020, 57, 768-773.	1.4	12
59	Exciton transitions in tetrapod-shaped CdTe nanocrystals investigated by photomodulated transmittance spectroscopy. <i>Applied Physics Letters</i> , 2006, 89, 094104.	1.5	10
60	Synthesis and perspectives of complex crystalline nano-structures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 1329-1336.	0.8	10
61	Nanopositioning of colloidal nanocrystal emitters by means of photolithography and e-beam lithography. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3972-3975.	0.7	10
62	Evidence of electron wave function delocalization in CdSe/CdS asymmetric nanocrystals. <i>Superlattices and Microstructures</i> , 2010, 47, 170-173.	1.4	10
63	Grain Size Control of the Magnetic Nanoparticles by Solid State Route Modification. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 2073-2079.	1.2	10
64	Biomimetic calcium carbonate with hierarchical porosity produced using cork as a sustainable template agent. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103594.	3.3	10
65	Surface chemistry of arenethiolate-capped PbS quantum dots and application as colloiddally stable photovoltaic ink. <i>Thin Solid Films</i> , 2014, 560, 2-9.	0.8	9
66	Localised excitation of a single photon source by a nanowaveguide. <i>Scientific Reports</i> , 2016, 6, 19721.	1.6	9
67	Nanomaterials Based on Fe ₃ O ₄ and Phthalocyanines Derived from Cashew Nut Shell Liquid. <i>Molecules</i> , 2019, 24, 3284.	1.7	9
68	Growth mechanism, shape and composition control of semiconductor nanocrystals. , 2008, , 1-34.		7
69	Radiative recombination dynamics in tetrapod-shaped CdTe nanocrystals: Evidence for a photoinduced screening of the internal electric field. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	7
70	Twofold Self-Assembling of Nanocrystals Into Nanocomposite Polymer. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 1-7.	1.9	7
71	A self-assembly of graphene oxide@Fe ₃ O ₄ /metallo-phthalocyanine nanohybrid materials: synthesis, characterization, dielectric and thermal properties. <i>Journal of Materials Science</i> , 2017, 52, 9546-9557.	1.7	7
72	Continuous flow scalable production of injectable size-monodisperse nanoliposomes in easy-fabrication milli-fluidic reactors. <i>Chemical Engineering Science</i> , 2021, 235, 116481.	1.9	7

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73	The novel heptyl phorolic acid cannabinoids content in different Cannabis sativa L. accessions. <i>Talanta</i> , 2021, 235, 122704.	2.9	7
74	Free-standing micropatternable nanocomposites as efficient colour converting filters for light emitting devices. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5001-5009.	2.7	6
75	CdSe/CdS Dot-in-Rods Nanocrystals Fast Blinking Dynamics.. <i>ChemPhysChem</i> , 2018, 19, 3288-3295.	1.0	6
76	Photochromic Textiles Based upon Aqueous Blends of Oxygen-Deficient WO _{3-x} and TiO ₂ Nanocrystals. <i>Textiles</i> , 2022, 2, 382-394.	1.8	6
77	Evidence for an internal field in CdSe/CdS nanorods by time resolved and single rod experiments. <i>Superlattices and Microstructures</i> , 2010, 47, 174-177.	1.4	5
78	Kynurenine and kynurenic acid: Two human neuromodulators found in Cannabis sativa L.. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 211, 114636.	1.4	5
79	Vapor-phase nucleation of individual CdSe nanostructures from shape-engineered nanocrystal seeds. <i>Applied Physics Letters</i> , 2008, 92, 023106.	1.5	4
80	An ensemble-based method to assess the quality of a sample of nanocrystals as single photon emitters. <i>Optics Communications</i> , 2013, 300, 215-219.	1.0	4
81	Electrochromic evaluation of airbrushed water-dispersible W ₁₈ O ₄₉ nanorods obtained by microwave-assisted synthesis. <i>Nanotechnology</i> , 2021, 32, 215709.	1.3	4
82	Single Photons Emitted by Nanocrystals Optically Trapped in a Deep Parabolic Mirror. <i>Physical Review Letters</i> , 2020, 124, 013607.	2.9	3
83	Environmentally Friendly Method of Assembly of Cardanol and Cholesterol into Nanostructures Using a Continuous Flow Microfluidic Device. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8484-8494.	3.2	3
84	Tailoring the emission spectrum of colloidal nanocrystals by means of lithographically-imprinted hybrid vertical microcavities. , 2005, 5840, 168.		2
85	Fabrication of Colloidal Quantum Dot Microcavities by Imprint Lithography. , 2006, , .		2
86	Interconnection of specific nano-objects by electron beam lithography â€” A controllable method. <i>Materials Science and Engineering C</i> , 2008, 28, 299-302.	3.8	2
87	Light-controlled one-sided growth of large plasmonic gold domains on quantum rods observed on the single particle level. , 2010, , .		2
88	Anacardic Acid: A Promising Building Block for the Sustainable Preparation of Vesicular Nanosystems. <i>Waste and Biomass Valorization</i> , 2021, 12, 4367-4374.	1.8	2
89	Effect of shell size on single photon emission performances of core/shell dot-in-rods colloidal nanocrystals. , 2013, , .		1
90	Ultrafast carrier dynamics in spherical CdSe core/elongated CdS shell nanocrystals. <i>Springer Series in Chemical Physics</i> , 2009, , 289-291.	0.2	1

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91	Size Dependent Photomodulated Transmission Spectroscopy of CdTe Tetrapod-shaped Nanocrystals. AIP Conference Proceedings, 2007, , .	0.3	0
92	Ultrafast electron-hole dynamics and optical gain in CdSe/CdS nanorods. , 2009, , .		0
93	Ultrafast electron-hole dynamics in core/shell CdSe/CdS dot/rod nanocrystals. , 2009, , .		0
94	Study of the radiative recombination processes in tetrapod-shaped CdTe nanocrystals. , 2010, , .		0
95	Colloidal quantum light sources based on asymmetric semiconductor nanocrystals. , 2012, , .		0
96	Room-temperature non-blinking single photon nanoemitters. , 2013, , .		0
97	Influence of the shell geometry on the state of charge of CdSe/CdS dot-in-rods nanocrystals. , 2013, , .		0
98	Polymer self-assembling of light converting microlenses arrays. , 2014, , .		0
99	Polarimetric determination of the orientation of a single nano-emitter. Proceedings of SPIE, 2015, , .	0.8	0
100	Magnetic Multicomponent Heterostructured Nanocrystals. , 2017, , 217-290.		0
101	Magnetically Active Asymmetric Nanoheterostructures Based on Colloidal All-Inorganic Multicomponent Nanocrystals. , 2017, , 69-121.		0
102	Engineering of radiative and non-radiative channels in colloidal nanocrystals: towards room-temperature efficient colloidal quantum sources. , 2012, , .		0