

Pantaleo Davide Cozzoli

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113
papers

9,514
citations

46
h-index

97
g-index

125
ext. papers

10,023
ext. citations

8.7
avg, IF

5.95
L-index

#	Paper	IF	Citations
113	Low-temperature synthesis of soluble and processable organic-capped anatase TiO ₂ nanorods. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14539-48	16.4	868
112	Synthesis, properties and perspectives of hybrid nanocrystal structures. <i>Chemical Society Reviews</i> , 2006 , 35, 1195-208	58.5	796
111	Microwave-assisted synthesis of colloidal inorganic nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11312-59	16.4	610
110	Colloidal heterostructured nanocrystals: Synthesis and growth mechanisms. <i>Nano Today</i> , 2010 , 5, 449-493	17.9	568
109	Magnetically driven floating foams for the removal of oil contaminants from water. <i>ACS Nano</i> , 2012 , 6, 5413-9	16.7	528
108	Photocatalytic synthesis of silver nanoparticles stabilized by TiO ₂ nanorods: a semiconductor/metal nanocomposite in homogeneous nonpolar solution. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3868-79	16.4	282
107	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, 7352-69	16.7	254
106	UV-induced photocatalytic degradation of azo dyes by organic-capped ZnO nanocrystals immobilized onto substrates. <i>Applied Catalysis B: Environmental</i> , 2005 , 60, 1-11	21.8	238
105	Nonhydrolytic synthesis of high-quality anisotropically shaped brookite TiO ₂ nanocrystals. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11223-33	16.4	224
104	Shape and Phase Control of Colloidal ZnSe Nanocrystals. <i>Chemistry of Materials</i> , 2005 , 17, 1296-1306	9.6	206
103	ZnO Nanocrystals by a Non-hydrolytic Route: Synthesis and Characterization. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 4756-4762	3.4	200
102	Colloidal oxide nanoparticles for the photocatalytic degradation of organic dye. <i>Materials Science and Engineering C</i> , 2003 , 23, 285-289	8.3	195
101	Heterodimers based on CoPt ₃ -Au nanocrystals with tunable domain size. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6690-8	16.4	194
100	Role of Metal Nanoparticles in TiO ₂ /Ag Nanocomposite-Based Microheterogeneous Photocatalysis. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 9623-9630	3.4	180
99	Photocatalytic degradation of azo dyes by organic-capped anatase TiO ₂ nanocrystals immobilized onto substrates. <i>Applied Catalysis B: Environmental</i> , 2005 , 55, 81-91	21.8	172
98	One-pot synthesis and characterization of size-controlled bimagnetic FePt-iron oxide heterodimer nanocrystals. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1477-87	16.4	165
97	Colloidal Strategies for Preparing Oxide-Based Hybrid Nanocrystals. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 837-854	2.3	161

96	Seeded growth of asymmetric binary nanocrystals made of a semiconductor TiO ₂ rodlike section and a magnetic gamma-Fe ₂ O ₃ spherical domain. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16953-70	16.4	153
95	Topologically controlled growth of magnetic-metal-functionalized semiconductor oxide nanorods. <i>Nano Letters</i> , 2007 , 7, 1386-95	11.5	147
94	Architectural control of seeded-grown magnetic-semiconductor iron oxide-TiO ₂ nanorod heterostructures: the role of seeds in topology selection. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2437-64	16.4	133
93	Colloidal synthesis and characterization of tetrapod-shaped magnetic nanocrystals. <i>Nano Letters</i> , 2006 , 6, 1966-72	11.5	132
92	Nano-objects on a round trip from water to organics in a polymeric ionic liquid vehicle. <i>Small</i> , 2006 , 2, 507-12	11	124
91	Correlating Magneto-Structural Properties to Hyperthermia Performance of Highly Monodisperse Iron Oxide Nanoparticles Prepared by a Seeded-Growth Route. <i>Chemistry of Materials</i> , 2011 , 23, 4170-4180	9.6	116
90	Fluorescent asymmetrically cobalt-tipped CdSe@CdS core@shell nanorod heterostructures exhibiting room-temperature ferromagnetic behavior. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12817-28	16.4	109
89	Hyperbranched anatase TiO ₂ nanocrystals: nonaqueous synthesis, growth mechanism, and exploitation in dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19216-39	16.4	106
88	Reversibly Light-Switchable Wettability of Hybrid Organic/Inorganic Surfaces With Dual Micro-/Nanoscale Roughness. <i>Advanced Functional Materials</i> , 2009 , 19, 1149-1157	15.6	106
87	Selective reactions on the tips of colloidal semiconductor nanorods. <i>Journal of Materials Chemistry</i> , 2006 , 16, 3952		100
86	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	3.8	91
85	Reversible Wettability Changes in Colloidal TiO ₂ Nanorod Thin-Film Coatings under Selective UV Laser Irradiation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 701-714	3.8	87
84	Efficient charge storage in photoexcited TiO ₂ nanorod-noble metal nanoparticle composite systems. <i>Chemical Communications</i> , 2005 , 3186-8	5.8	83
83	Colloidal TiO ₂ nanocrystals/MEH-PPV nanocomposites: photo(electro)chemical study. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 1554-62	3.4	82
82	Photochemical Synthesis of Water-Soluble Gold Nanorods: The Role of Silver in Assisting Anisotropic Growth. <i>Chemistry of Materials</i> , 2009 , 21, 4192-4202	9.6	80
81	Ultrathin TiO ₂ nanorods with superior lithium-ion storage performance. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 1933-43	9.5	79
80	Dynamical formation of spatially localized arrays of aligned nanowires in plastic films with magnetic anisotropy. <i>ACS Nano</i> , 2010 , 4, 1873-8	16.7	78
79	Colloidal synthesis of organic-capped ZnO nanocrystals via a sequential reduction-oxidation reaction. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 2638-44	3.4	64

78	Magnetic-fluorescent colloidal nanobeads: preparation and exploitation in cell separation experiments. <i>Macromolecular Bioscience</i> , 2009 , 9, 952-8	5.5	63
77	Spin-polarization transfer in colloidal magnetic-plasmonic Au/iron oxide hetero-nanocrystals. <i>ACS Nano</i> , 2013 , 7, 857-66	16.7	61
76	Exchange-coupled bimagnetic cobalt/iron oxide branched nanocrystal heterostructures. <i>Nano Letters</i> , 2009 , 9, 366-76	11.5	59
75	Photocatalytic activity of organic-capped anatase TiO ₂ nanocrystals in homogeneous organic solutions. <i>Materials Science and Engineering C</i> , 2003 , 23, 707-713	8.3	56
74	Size, shape, and internal atomic ordering of nanocrystals by atomic pair distribution functions: a comparative study of gamma-Fe ₂ O ₃ nanosized spheres and tetrapods. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14264-6	16.4	55
73	TiO ₂ nanocrystals [MEH-PPV composite thin films as photoactive material. <i>Thin Solid Films</i> , 2004 , 451-452, 64-68	2.2	54
72	Electron diffractive imaging of oxygen atoms in nanocrystals at sub-Å resolution. <i>Nature Nanotechnology</i> , 2010 , 5, 360-5	28.7	53
71	Synthesis of TiO ₂ -Au composites by titania-nanorod-assisted generation of gold nanoparticles at aqueous/nonpolar interfaces. <i>Small</i> , 2006 , 2, 413-21	11	52
70	Spatially controlled surface energy traps on superhydrophobic surfaces. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 1036-43	9.5	49
69	Colloidal semiconductor/magnetic heterostructures based on iron-oxide-functionalized brookite TiO ₂ nanorods. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 3680-91	3.6	46
68	Wettability conversion of colloidal TiO ₂ nanocrystal thin films with UV-switchable hydrophilicity. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 3692-700	3.6	44
67	Picosecond Photoluminescence Decay Time in Colloidal Nanocrystals: The Role of Intrinsic and Surface States. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 10541-10545	3.8	44
66	Investigation on alcohol vapours/TiO ₂ nanocrystal thin films interaction by SPR technique for sensing application. <i>Sensors and Actuators B: Chemical</i> , 2004 , 100, 75-80	8.5	43
65	Non-blinking single-photon generation with anisotropic colloidal nanocrystals: towards room-temperature, efficient, colloidal quantum sources. <i>Advanced Materials</i> , 2013 , 25, 1974-80	24	42
64	Magnetic properties of novel superparamagnetic MRI contrast agents based on colloidal nanocrystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, e320-e323	2.8	42
63	From capacitance-controlled to diffusion-controlled electrochromism in one-dimensional shape-tailored tungsten oxide nanocrystals. <i>Nano Energy</i> , 2017 , 41, 634-645	17.1	41
62	Photocatalytic degradation of methyl-red by immobilised nanoparticles of TiO ₂ and ZnO. <i>Water Science and Technology</i> , 2004 , 49, 183-188	2.2	40
61	High-quality photoelectrodes based on shape-tailored TiO ₂ nanocrystals for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13371		32

60	Mikrowellen-unterstützte Synthese von kolloidalen anorganischen Nanokristallen. <i>Angewandte Chemie</i> , 2011 , 123, 11510-11561	3.6	32
59	Shape-tailored TiO ₂ nanocrystals with synergic peculiarities as building blocks for highly efficient multi-stack dye solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 1791	35.4	31
58	Colloidal Magnetic Heterostructured Nanocrystals with Asymmetric Topologies: Seeded-Growth Synthetic Routes and Formation Mechanisms. <i>Frontiers in Materials</i> , 2016 , 3,	4	31
57	Enhancement of the optically activated NO ₂ gas sensing response of brookite TiO ₂ nanorods/nanoparticles thin films deposited by matrix-assisted pulsed-laser evaporation. <i>Sensors and Actuators B: Chemical</i> , 2012 , 161, 869-879	8.5	29
56	Fabrication of flexible all-inorganic nanocrystal solar cells by room-temperature processing. <i>Energy and Environmental Science</i> , 2013 , 6, 1565	35.4	29
55	TiO ₂ nanocrystal films for sensing applications based on surface plasmon resonance. <i>Synthetic Metals</i> , 2005 , 148, 25-29	3.6	29
54	Control of the water adhesion on hydrophobic micropillars by spray coating technique. <i>Colloid and Polymer Science</i> , 2013 , 291, 401-407	2.4	28
53	Thermal and mechanical characterization of poly(methyl methacrylate) nanocomposites filled with TiO ₂ nanorods. <i>Composites Part B: Engineering</i> , 2012 , 43, 3114-3119	10	28
52	Light-controlled directional liquid drop movement on TiO ₂ nanorods-based nanocomposite photopatterns. <i>Langmuir</i> , 2010 , 26, 18557-63	4	28
51	Electrochemical Assessment of the Band-Edge Positioning in Shape-Tailored TiO ₂ -Nanorod-Based Photoelectrodes for Dye Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2574-2583	3.8	27
50	Colloidal Anisotropic ZnO _x O _y Nanoarchitectures with Interface-Mediated Exchange-Bias and Band-Edge Ultraviolet Fluorescence. <i>Chemistry of Materials</i> , 2012 , 24, 2722-2732	9.6	27
49	Tunneling magnetoresistance with sign inversion in junctions based on iron oxide nanocrystal superlattices. <i>ACS Nano</i> , 2011 , 5, 1731-8	16.7	27
48	Low-dimensional chainlike assemblies of TiO ₂ nanorod-stabilized Au nanoparticles. <i>Chemical Communications</i> , 2005 , 942-4	5.8	27
47	Thin films of TiO ₂ nanocrystals with controlled shape and surface coating for surface plasmon resonance alcohol vapour sensing. <i>Sensors and Actuators B: Chemical</i> , 2007 , 126, 562-572	8.5	26
46	Improvement of thermal stability of poly(methyl methacrylate) by incorporation of colloidal TiO ₂ nanorods. <i>Polymer Degradation and Stability</i> , 2011 , 96, 1377-1381	4.7	24
45	UV-Light-Driven Immobilization of Surface-Functionalized Oxide Nanocrystals onto Silicon. <i>Advanced Functional Materials</i> , 2007 , 17, 201-211	15.6	23
44	Formation and magnetic manipulation of periodically aligned microchains in thin plastic membranes. <i>Journal of Applied Physics</i> , 2012 , 112, 083927	2.5	22
43	Organic photovoltaic devices with colloidal TiO ₂ nanorods as key functional components. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3987-95	3.6	21

42	Films of brookite TiO ₂ nanorods/nanoparticles deposited by matrix-assisted pulsed laser evaporation as NO ₂ gas-sensing layers. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 104, 963-968	2.6	21
41	Exploiting GISAXS for the Study of a 3D Ordered Superlattice of Self-Assembled Colloidal Iron Oxide Nanocrystals. <i>Crystal Growth and Design</i> , 2012 , 12, 5505-5512	3.5	19
40	TiO ₂ brookite nanostructured thin layer on magneto-optical surface plasmon resonance transducer for gas sensing applications. <i>Journal of Applied Physics</i> , 2012 , 112, 053524	2.5	19
39	The Role of Intrinsic and Surface States on the Emission Properties of Colloidal CdSe and CdSe/ZnS Quantum Dots. <i>Nanoscale Research Letters</i> , 2007 , 2, 512-514	5	19
38	Photoelectrochemical study on photosynthetic pigments-sensitized nanocrystalline ZnO films. <i>Bioelectrochemistry</i> , 2004 , 63, 99-102	5.6	19
37	Surfactant-induced thermomechanical and morphological changes in TiO ₂ -polystyrene nanocomposites. <i>Journal of Colloid and Interface Science</i> , 2013 , 405, 103-8	9.3	17
36	Near-infrared selective dynamic windows controlled by charge transfer impedance at the counter electrode. <i>Nanoscale</i> , 2016 , 8, 20056-20065	7.7	17
35	Controlled swapping of nanocomposite surface wettability by multilayer photopolymerization. <i>Langmuir</i> , 2011 , 27, 8522-9	4	16
34	Directional enhancement of refractive index and tunable wettability of polymeric coatings due to preferential dispersion of colloidal TiO ₂ nanorods towards their surface. <i>Thin Solid Films</i> , 2010 , 518, 4425-4431 ¹⁶	2.2	16
33	MAPLE deposition of nanomaterials. <i>Applied Surface Science</i> , 2014 , 302, 92-98	6.7	15
32	Photoelectrochemical properties of Zn(II) phthalocyanine/ZnO nanocrystals heterojunctions: nanocrystal surface chemistry effect. <i>Applied Surface Science</i> , 2005 , 246, 367-371	6.7	15
31	Optically controlled liquid flow in initially prohibited elastomeric nanocomposite micro-paths. <i>RSC Advances</i> , 2012 , 2, 9543	3.7	14
30	Thermal and Mechanical Characterization of PMMA TiO ₂ Nanocomposites. <i>Advanced Materials Research</i> , 2009 , 67, 209-214	0.5	14
29	Advances in the chemical fabrication of complex multimaterial nanocrystals. <i>Recent Patents on Nanotechnology</i> , 2007 , 1, 224-32	1.2	14
28	In-plane Aligned Colloidal 2D WS Nanoflakes for Solution-Processable Thin Films with High Planar Conductivity. <i>Scientific Reports</i> , 2019 , 9, 9002	4.9	12
27	Synthesis routes for the growth of complex nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 37, 128-133	3	12
26	Determination of surface properties of various substrates using TiO ₂ nanorod coatings with tunable characteristics. <i>Journal of Materials Science</i> , 2008 , 43, 3474-3480	4.3	12
25	Photochemical sensitisation process at photosynthetic pigments/Q-sized colloidal semiconductor hetero-junctions. <i>Synthetic Metals</i> , 2003 , 139, 593-596	3.6	12

24	Room-temperature processed films of colloidal carved rod-shaped nanocrystals of reduced tungsten oxide as interlayers for perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11396-11404	3.6	10
23	Synthesis of Reduced Graphite Oxide by a Novel Green Process Based on UV Light Irradiation. <i>Science of Advanced Materials</i> , 2015 , 7, 2445-2451	2.3	8
22	Static and Dynamical Structural Investigations of Metal-Oxide Nanocrystals by Powder X-ray Diffraction: Colloidal Tungsten Oxide as a Case Study. <i>ChemPhysChem</i> , 2016 , 17, 699-709	3.2	8
21	Surface chemistry of arenethiolate-capped PbS quantum dots and application as colloiddally stable photovoltaic ink. <i>Thin Solid Films</i> , 2014 , 560, 2-9	2.2	7
20	Photoelectrochemical properties of hybrid junctions based on zinc phthalocyanine and semiconducting colloidal nanocrystals. <i>Electrochimica Acta</i> , 2006 , 51, 5120-5124	6.7	7
19	Three-dimensional self-assembly of networked branched TiO ₂ nanocrystal scaffolds for efficient room-temperature processed depleted bulk heterojunction solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5026-33	9.5	6
18	TiO ₂ nanorod-based photoelectrodes for dye solar cells with tunable morphological features. <i>Thin Solid Films</i> , 2014 , 568, 122-130	2.2	6
17	Colloidal Au/iron oxide nanocrystal heterostructures: magnetic, plasmonic and magnetic hyperthermia properties. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12329-12340	7.1	6
16	Synthetic strategies to size and shape controlled nanocrystals and nanocrystal heterostructures. <i>Advances in Experimental Medicine and Biology</i> , 2007 , 620, 1-17	3.6	5
15	Mechanistic insight into the formation of colloidal WS ₂ nanoflakes in hot alkylamine media. <i>Nanoscale Advances</i> , 2019 , 1, 2772-2782	5.1	4
14	Room-temperature treatments for all-inorganic nanocrystal solar cell devices. <i>Thin Solid Films</i> , 2014 , 560, 44-48	2.2	4
13	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	2	4
12	An Insight into Chemistry and Structure of Colloidal 2D-WS Nanoflakes: Combined XPS and XRD Study. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
11	Tailoring the Nanostructure of TiO ₂ Photoanodes for Efficient Co(II)/Co(III)-Mediated Dye-Sensitized Solar Cells. <i>Advanced Sustainable Systems</i> , 2017 , 1, 1700098	5.9	3
10	Laser-induced disaggregation of TiO ₂ nanofillers for uniform nanocomposites. <i>Nanotechnology</i> , 2014 , 25, 125702	3.4	3
9	Study of titania nanorod films deposited by matrix-assisted pulsed laser evaporation as a function of laser fluence. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 105, 605-610	2.6	3
8	Influence of the Precipitation Temperature on Properties of Nanohydroxyapatite Powder for the Fabrication of Highly Porous Bone Scaffolds. <i>Key Engineering Materials</i> , 2013 , 587, 27-32	0.4	2
7	The influence of intrinsic and surface states on the emission properties of colloidal nanocrystals. <i>Superlattices and Microstructures</i> , 2008 , 43, 528-531	2.8	2

6	Synthetic Approaches to Colloidal Nanocrystal Heterostructures Based on Metal and Metal-Oxide Materials. <i>Nanomaterials</i> , 2022 , 12, 1729	5.4	2
5	Reversible wettability of hybrid organic/inorganic surfaces of systems upon light irradiation/storage cycles. <i>International Journal of Nanomanufacturing</i> , 2010 , 6, 312	0.7	1
4	Optical Biosensing Based on Metal and Semiconductor Colloidal Nanocrystals 2007 ,		1
3	Photoluminescence emission induced by localized states in halide-passivated colloidal two-dimensional WS ₂ nanoflakes. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2398-2407	7.1	1
2	Colloidal oxide-based heterostructured nanocrystals 2020 , 401-470		0
1	Magnetic Multicomponent Heterostructured Nanocrystals 2017 , 217-290		