

# Pantaleo Davide Cozzoli

## List of Publications by Year in descending order

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119  
papers

10,423  
citations

44042

48  
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31818

101  
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125  
all docs

125  
docs citations

125  
times ranked

13842  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Temperature Synthesis of Soluble and Processable Organic-Capped Anatase TiO <sub>2</sub> Nanorods. <i>Journal of the American Chemical Society</i> , 2003, 125, 14539-14548.	6.6	924
2	Synthesis, properties and perspectives of hybrid nanocrystal structures. <i>Chemical Society Reviews</i> , 2006, 35, 1195.	18.7	855
3	Microwave-Assisted Synthesis of Colloidal Inorganic Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11312-11359.	7.2	686
4	Colloidal heterostructured nanocrystals: Synthesis and growth mechanisms. <i>Nano Today</i> , 2010, 5, 449-493.	6.2	628
5	Magnetically Driven Floating Foams for the Removal of Oil Contaminants from Water. <i>ACS Nano</i> , 2012, 6, 5413-5419.	7.3	574
6	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
7	Photocatalytic Synthesis of Silver Nanoparticles Stabilized by TiO <sub>2</sub> Nanorods: A Semiconductor/Metal Nanocomposite in Homogeneous Nonpolar Solution. <i>Journal of the American Chemical Society</i> , 2004, 126, 3868-3879.	6.6	304
8	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.	10.8	262
9	Nonhydrolytic Synthesis of High-Quality Anisotropically Shaped Brookite TiO <sub>2</sub> Nanocrystals. <i>Journal of the American Chemical Society</i> , 2008, 130, 11223-11233.	6.6	247
10	Shape and Phase Control of Colloidal ZnSe Nanocrystals. <i>Chemistry of Materials</i> , 2005, 17, 1296-1306.	3.2	220
11	Colloidal oxide nanoparticles for the photocatalytic degradation of organic dye. <i>Materials Science and Engineering C</i> , 2003, 23, 285-289.	3.8	218
12	ZnO Nanocrystals by a Non-hydrolytic Route: Synthesis and Characterization. <i>Journal of Physical Chemistry B</i> , 2003, 107, 4756-4762.	1.2	212
13	Heterodimers Based on CoPt <sub>3</sub> -Au Nanocrystals with Tunable Domain Size. <i>Journal of the American Chemical Society</i> , 2006, 128, 6690-6698.	6.6	202
14	Photocatalytic degradation of azo dyes by organic-capped anatase TiO nanocrystals immobilized onto substrates. <i>Applied Catalysis B: Environmental</i> , 2005, 55, 81-91.	10.8	190
15	Role of Metal Nanoparticles in TiO <sub>2</sub> /Ag Nanocomposite-Based Microheterogeneous Photocatalysis. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9623-9630.	1.2	188
16	One-Pot Synthesis and Characterization of Size-Controlled Bimagnetic FePt-Iron Oxide Heterodimer Nanocrystals. <i>Journal of the American Chemical Society</i> , 2008, 130, 1477-1487.	6.6	179
17	Colloidal Strategies for Preparing Oxide-Based Hybrid Nanocrystals. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 837-854.	1.0	175
18	Seeded Growth of Asymmetric Binary Nanocrystals Made of a Semiconductor TiO <sub>2</sub> Rodlike Section and a Magnetic Fe <sub>3</sub> -Fe <sub>2</sub> O <sub>3</sub> Spherical Domain. <i>Journal of the American Chemical Society</i> , 2006, 128, 16953-16970.	6.6	163

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19	Topologically Controlled Growth of Magnetic-Metal-Functionalized Semiconductor Oxide Nanorods. Nano Letters, 2007, 7, 1386-1395.	4.5	155
20	Colloidal Synthesis and Characterization of Tetrapod-Shaped Magnetic Nanocrystals. Nano Letters, 2006, 6, 1966-1972.	4.5	140
21	Architectural Control of Seeded-Grown Magnetic Semiconductor Iron Oxide <sub>2</sub> Nanorod Heterostructures: The Role of Seeds in Topology Selection. Journal of the American Chemical Society, 2010, 132, 2437-2464.	6.6	139
22	Correlating Magneto-Structural Properties to Hyperthermia Performance of Highly Monodisperse Iron Oxide Nanoparticles Prepared by a Seeded-Growth Route. Chemistry of Materials, 2011, 23, 4170-4180.	3.2	134
23	Nano-Objects on a Round Trip from Water to Organics in a Polymeric Ionic Liquid Vehicle. Small, 2006, 2, 507-512.	5.2	131
24	Fluorescent Asymmetrically Cobalt-Tipped CdSe@CdS Core@Shell Nanorod Heterostructures Exhibiting Room-Temperature Ferromagnetic Behavior. Journal of the American Chemical Society, 2009, 131, 12817-12828.	6.6	119
25	Reversibly Light-Switchable Wettability of Hybrid Organic/Inorganic Surfaces With Dual Micro-Nanoscale Roughness. Advanced Functional Materials, 2009, 19, 1149-1157.	7.8	115
26	Colloidal Arenethiolate-Capped PbS Quantum Dots: Optoelectronic Properties, Self-Assembly, and Application in Solution-Cast Photovoltaics. Journal of Physical Chemistry C, 2013, 117, 13305-13317.	1.5	112
27	Hyperbranched Anatase TiO <sub>2</sub> Nanocrystals: Nonaqueous Synthesis, Growth Mechanism, and Exploitation in Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2011, 133, 19216-19239.	6.6	110
28	Selective reactions on the tips of colloidal semiconductor nanorods. Journal of Materials Chemistry, 2006, 16, 3952.	6.7	108
29	Reversible Wettability Changes in Colloidal TiO <sub>2</sub> Nanorod Thin-Film Coatings under Selective UV Laser Irradiation. Journal of Physical Chemistry C, 2008, 112, 701-714.	1.5	96
30	Colloidal TiO <sub>2</sub> Nanocrystals/MEH-PPV Nanocomposites: A Photo(electro)chemical Study. Journal of Physical Chemistry B, 2005, 109, 1554-1562.	1.2	91
31	Ultrathin TiO <sub>2</sub> (B) Nanorods with Superior Lithium-Ion Storage Performance. ACS Applied Materials & Interfaces, 2014, 6, 1933-1943.	4.0	89
32	Dynamical Formation of Spatially Localized Arrays of Aligned Nanowires in Plastic Films with Magnetic Anisotropy. ACS Nano, 2010, 4, 1873-1878.	7.3	87
33	Efficient charge storage in photoexcited TiO <sub>2</sub> nanorod-noble metal nanoparticle composite systems. Chemical Communications, 2005, , 3186.	2.2	85
34	Photochemical Synthesis of Water-Soluble Gold Nanorods: The Role of Silver in Assisting Anisotropic Growth. Chemistry of Materials, 2009, 21, 4192-4202.	3.2	85
35	Colloidal Synthesis of Organic-Capped ZnO Nanocrystals via a Sequential Reduction-Oxidation Reaction. Journal of Physical Chemistry B, 2005, 109, 2638-2644.	1.2	68
36	Magnetic-Fluorescent Colloidal Nanobeads: Preparation and Exploitation in Cell Separation Experiments. Macromolecular Bioscience, 2009, 9, 952-958.	2.1	66

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37	TiO <sub>2</sub> nanocrystals as MEH-PPV composite thin films as photoactive material. <i>Thin Solid Films</i> , 2004, 451-452, 64-68.	0.8	64
38	Spin-Polarization Transfer in Colloidal Magnetic-Plasmonic Au/Iron Oxide Hetero-nanocrystals. <i>ACS Nano</i> , 2013, 7, 857-866.	7.3	64
39	From capacitance-controlled to diffusion-controlled electrochromism in one-dimensional shape-tailored tungsten oxide nanocrystals. <i>Nano Energy</i> , 2017, 41, 634-645.	8.2	63
40	Exchange-Coupled Bimagnetic Cobalt/Iron Oxide Branched Nanocrystal Heterostructures. <i>Nano Letters</i> , 2009, 9, 366-376.	4.5	62
41	Photocatalytic activity of organic-capped anatase TiO <sub>2</sub> nanocrystals in homogeneous organic solutions. <i>Materials Science and Engineering C</i> , 2003, 23, 707-713.	3.8	60
42	Size, Shape, and Internal Atomic Ordering of Nanocrystals by Atomic Pair Distribution Functions: A Comparative Study of Fe <sub>2</sub> O <sub>3</sub> Nanosized Spheres and Tetrapods. <i>Journal of the American Chemical Society</i> , 2009, 131, 14264-14266.	6.6	59
43	Electron diffractive imaging of oxygen atoms in nanocrystals at sub-Ångström resolution. <i>Nature Nanotechnology</i> , 2010, 5, 360-365.	15.6	56
44	Tips on growing nanocrystals. <i>Nature Materials</i> , 2005, 4, 801-802.	13.3	55
45	Synthesis of TiO <sub>2</sub> -Au Composites by Titania-Nanorod-Assisted Generation of Gold Nanoparticles at Aqueous/Nonpolar Interfaces. <i>Small</i> , 2006, 2, 413-421.	5.2	54
46	Spatially Controlled Surface Energy Traps on Superhydrophobic Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 1036-1043.	4.0	52
47	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
48	Colloidal semiconductor/magnetic heterostructures based on iron-oxide-functionalized brookite TiO <sub>2</sub> nanorods. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3680.	1.3	48
49	Wettability conversion of colloidal TiO <sub>2</sub> nanocrystal thin films with UV-switchable hydrophilicity. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3692.	1.3	47
50	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.	1.5	46
51	Investigation on alcohol vapours/TiO <sub>2</sub> nanocrystal thin films interaction by SPR technique for sensing application. <i>Sensors and Actuators B: Chemical</i> , 2004, 100, 75-80.	4.0	45
52	Magnetic properties of novel superparamagnetic MRI contrast agents based on colloidal nanocrystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, e320-e323.	1.0	45
53	Photocatalytic degradation of methyl-red by immobilised nanoparticles of TiO <sub>2</sub> and ZnO. <i>Water Science and Technology</i> , 2004, 49, 183-188.	1.2	43
54	Light-Controlled Directional Liquid Drop Movement on TiO <sub>2</sub> Nanorods-Based Nanocomposite Photopatterns. <i>Langmuir</i> , 2010, 26, 18557-18563.	1.6	35

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55	Shape-tailored TiO <sub>2</sub> nanocrystals with synergic peculiarities as building blocks for highly efficient multi-stack dye solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 1791.	15.6	35
56	Colloidal Magnetic Heterostructured Nanocrystals with Asymmetric Topologies: Seeded-Growth Synthetic Routes and Formation Mechanisms. <i>Frontiers in Materials</i> , 2016, 3, .	1.2	35
57	Tunneling Magnetoresistance with Sign Inversion in Junctions Based on Iron Oxide Nanocrystal Superlattices. <i>ACS Nano</i> , 2011, 5, 1731-1738.	7.3	34
58	Enhancement of the optically activated NO <sub>2</sub> gas sensing response of brookite TiO <sub>2</sub> nanorods/nanoparticles thin films deposited by matrix-assisted pulsed-laser evaporation. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 869-879.	4.0	34
59	High-quality photoelectrodes based on shape-tailored TiO <sub>2</sub> nanocrystals for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 13371.	6.7	33
60	TiO <sub>2</sub> nanocrystal films for sensing applications based on surface plasmon resonance. <i>Synthetic Metals</i> , 2005, 148, 25-29.	2.1	32
61	Low-dimensional chainlike assemblies of TiO <sub>2</sub> nanorod-stabilized Au nanoparticles. <i>Chemical Communications</i> , 2005, , 942.	2.2	31
62	Thermal and mechanical characterization of poly(methyl methacrylate) nanocomposites filled with TiO <sub>2</sub> nanorods. <i>Composites Part B: Engineering</i> , 2012, 43, 3114-3119.	5.9	30
63	Thin films of TiO <sub>2</sub> 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.	4.0	29
64	Control of the water adhesion on hydrophobic micropillars by spray coating technique. <i>Colloid and Polymer Science</i> , 2013, 291, 401-407.	1.0	29
65	Fabrication of flexible all-inorganic nanocrystal solar cells by room-temperature processing. <i>Energy and Environmental Science</i> , 2013, 6, 1565.	15.6	29
66	Colloidal Anisotropic ZnO@Fe@Fe <sub>3</sub> O <sub>4</sub> Nanoarchitectures with Interface-Mediated Exchange-Bias and Band-Edge Ultraviolet Fluorescence. <i>Chemistry of Materials</i> , 2012, 24, 2722-2732.	3.2	27
67	Electrochemical Assessment of the Band-Edge Positioning in Shape-Tailored TiO <sub>2</sub> -Nanorod-Based Photoelectrodes for Dye Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2574-2583.	1.5	27
68	UV-Light-Driven Immobilization of Surface-Functionalized Oxide Nanocrystals onto Silicon. <i>Advanced Functional Materials</i> , 2007, 17, 201-211.	7.8	26
69	Improvement of thermal stability of poly(methyl methacrylate) by incorporation of colloidal TiO <sub>2</sub> nanorods. <i>Polymer Degradation and Stability</i> , 2011, 96, 1377-1381.	2.7	26
70	Near-infrared selective dynamic windows controlled by charge transfer impedance at the counter electrode. <i>Nanoscale</i> , 2016, 8, 20056-20065.	2.8	26
71	TiO <sub>2</sub> brookite nanostructured thin layer on magneto-optical surface plasmon resonance transductor for gas sensing applications. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	24
72	Films of brookite TiO <sub>2</sub> nanorods/nanoparticles deposited by matrix-assisted pulsed laser evaporation as NO <sub>2</sub> gas-sensing layers. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 963-968.	1.1	23

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73	Formation and magnetic manipulation of periodically aligned microchains in thin plastic membranes. <i>Journal of Applied Physics</i> , 2012, 112, 083927.	1.1	22
74	MAPLE deposition of nanomaterials. <i>Applied Surface Science</i> , 2014, 302, 92-98.	3.1	22
75	An Insight into Chemistry and Structure of Colloidal 2D-WS <sub>2</sub> Nanoflakes: Combined XPS and XRD Study. <i>Nanomaterials</i> , 2021, 11, 1969.	1.9	22
76	Organic photovoltaic devices with colloidal TiO <sub>2</sub> nanorods as key functional components. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3987.	1.3	21
77	Photoelectrochemical study on photosynthetic pigments-sensitized nanocrystalline ZnO films. <i>Bioelectrochemistry</i> , 2004, 63, 99-102.	2.4	20
78	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.	3.1	20
79	Photoelectrochemical properties of Zn(II) phthalocyanine/ZnO nanocrystals heterojunctions: nanocrystal surface chemistry effect. <i>Applied Surface Science</i> , 2005, 246, 367-371.	3.1	19
80	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.	1.4	19
81	Thermal and Mechanical Characterization of PMMA TiO <sub>2</sub> /sub>2</sub>/sub> Nanocomposites. <i>Advanced Materials Research</i> , 0, 67, 209-214.	0.3	18
82	Surfactant-induced thermomechanical and morphological changes in TiO <sub>2</sub> -polystyrene nanocomposites. <i>Journal of Colloid and Interface Science</i> , 2013, 405, 103-108.	5.0	18
83	Controlled Swapping of Nanocomposite Surface Wettability by Multilayer Photopolymerization. <i>Langmuir</i> , 2011, 27, 8522-8529.	1.6	17
84	Directional enhancement of refractive index and tunable wettability of polymeric coatings due to preferential dispersion of colloidal TiO <sub>2</sub> nanorods towards their surface. <i>Thin Solid Films</i> , 2010, 518, 4425-4431.	0.8	16
85	In-plane Aligned Colloidal 2D WS <sub>2</sub> Nanoflakes for Solution-Processable Thin Films with High Planar Conductivity. <i>Scientific Reports</i> , 2019, 9, 9002.	1.6	16
86	Optically controlled liquid flow in initially prohibited elastomeric nanocomposite micro-paths. <i>RSC Advances</i> , 2012, 2, 9543.	1.7	15
87	Photochemical sensitisation process at photosynthetic pigments/Q-sized colloidal semiconductor hetero-junctions. <i>Synthetic Metals</i> , 2003, 139, 593-596.	2.1	14
88	Advances in the Chemical Fabrication of Complex Multimaterial Nanocrystals. <i>Recent Patents on Nanotechnology</i> , 2007, 1, 224-232.	0.7	14
89	Synthesis routes for the growth of complex nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 37, 128-133.	1.3	14
90	Determination of surface properties of various substrates using TiO <sub>2</sub> nanorod coatings with tunable characteristics. <i>Journal of Materials Science</i> , 2008, 43, 3474-3480.	1.7	14

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91	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.	1.3	12
92	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.	1.0	11
93	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
94	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.	0.1	9
95	TiO <sub>2</sub> nanorod-based photoelectrodes for dye solar cells with tunable morphological features. <i>Thin Solid Films</i> , 2014, 568, 122-130.	0.8	8
96	Colloidal Au/iron oxide nanocrystal heterostructures: magnetic, plasmonic and magnetic hyperthermia properties. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12329-12340.	2.7	8
97	Photoelectrochemical properties of hybrid junctions based on zinc phthalocyanine and semiconducting colloidal nanocrystals. <i>Electrochimica Acta</i> , 2006, 51, 5120-5124.	2.6	7
98	Synthetic Strategies to Size and Shape Controlled Nanocrystals and Nanocrystal Heterostructures. <i>Advances in Experimental Medicine and Biology</i> , 2007, 620, 1-17.	0.8	7
99	Three-Dimensional Self-Assembly of Networked Branched TiO <sub>2</sub> Nanocrystal Scaffolds for Efficient Room-Temperature Processed Depleted Bulk Heterojunction Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5026-5033.	4.0	7
100	Synthetic Approaches to Colloidal Nanocrystal Heterostructures Based on Metal and Metal-Oxide Materials. <i>Nanomaterials</i> , 2022, 12, 1729.	1.9	6
101	Mechanistic insight into the formation of colloidal WS <sub>2</sub> nanoflakes in hot alkylamine media. <i>Nanoscale Advances</i> , 2019, 1, 2772-2782.	2.2	5
102	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.	1.1	4
103	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
104	Room-temperature treatments for all-inorganic nanocrystal solar cell devices. <i>Thin Solid Films</i> , 2014, 560, 44-48.	0.8	4
105	Self-assembled supracrystals and hetero-structures made from colloidal nanocrystals. <i>CrystEngComm</i> , 2014, 16, 9365-9367.	1.3	4
106	Laser-induced disaggregation of TiO <sub>2</sub> nanofillers for uniform nanocomposites. <i>Nanotechnology</i> , 2014, 25, 125702.	1.3	3
107	Tailoring the Nanostructure of TiO <sub>2</sub> Photoanodes for Efficient Co(II)/Co(III)-Mediated Dye-Sensitized Solar Cells. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700098.	2.7	3
108	Photoluminescence emission induced by localized states in halide-passivated colloidal two-dimensional WS <sub>2</sub> nanoflakes. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2398-2407.	2.7	3

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109	The influence of intrinsic and surface states on the emission properties of colloidal nanocrystals. Superlattices and Microstructures, 2008, 43, 528-531.	1.4	2
110	Reversible wettability of hybrid organic/inorganic surfaces of systems upon light irradiation/storage cycles. International Journal of Nanomanufacturing, 2010, 6, 312.	0.3	2
111	Influence of the Precipitation Temperature on Properties of Nanohydroxyapatite Powder for the Fabrication of Highly Porous Bone Scaffolds. Key Engineering Materials, 2013, 587, 27-32.	0.4	2
112	Colloidal oxide-based heterostructured nanocrystals. , 2020, , 401-470.		1
113	Assembly of Iron Oxide Nanocrystal Superstructures. Science of Advanced Materials, 2013, 5, 2015-2020.	0.1	1
114	Comparative Raman Study of Organic-Free and Surfactant-Capped Rod-Shaped Anatase TiO <sub>2</sub> Nanocrystals. Science of Advanced Materials, 2014, 6, 923-932.	0.1	1
115	ZnO Nanocrystals by a Non-Hydrolytic Route: Synthesis and Characterization.. ChemInform, 2003, 34, no.	0.1	0
116	<title>Colloidal TiO <sub>2</sub> rod and dot based thin films for chemical sensors based on surface plasmon resonance</title>. , 2005, 5836, 27.		0
117	Magnetic Multicomponent Heterostructured Nanocrystals. , 2017, , 217-290.		0
118	Magnetically Active Asymmetric Nanoheterostructures Based on Colloidal All-Inorganic Multicomponent Nanocrystals. , 2017, , 69-121.		0
119	Matrix-Assisted Pulsed Laser Evaporation Deposition of Pd Nanoparticles: The Role of Solvent. Science of Advanced Materials, 2015, 7, 2388-2400.	0.1	0