

Pantaleo Davide Cozzoli

List of Publications by Year in descending order

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119
papers

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44042

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125
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125
times ranked

13842
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic Approaches to Colloidal Nanocrystal Heterostructures Based on Metal and Metal-Oxide Materials. <i>Nanomaterials</i> , 2022, 12, 1729.	1.9	6
2	An Insight into Chemistry and Structure of Colloidal 2D-WS ₂ Nanoflakes: Combined XPS and XRD Study. <i>Nanomaterials</i> , 2021, 11, 1969.	1.9	22
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.	2.7	3
4	Colloidal oxide-based heterostructured nanocrystals. , 2020, , 401-470.		1
5	In-plane Aligned Colloidal 2D WS ₂ Nanoflakes for Solution-Processable Thin Films with High Planar Conductivity. <i>Scientific Reports</i> , 2019, 9, 9002.	1.6	16
6	Mechanistic insight into the formation of colloidal WS ₂ nanoflakes in hot alkylamine media. <i>Nanoscale Advances</i> , 2019, 1, 2772-2782.	2.2	5
7	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
8	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
9	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
10	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.	2.7	3
11	Magnetic Multicomponent Heterostructured Nanocrystals. , 2017, , 217-290.		0
12	Magnetically Active Asymmetric Nanoheterostructures Based on Colloidal All-Inorganic Multicomponent Nanocrystals. , 2017, , 69-121.		0
13	Colloidal Magnetic Heterostructured Nanocrystals with Asymmetric Topologies: Seeded-Growth Synthetic Routes and Formation Mechanisms. <i>Frontiers in Materials</i> , 2016, 3, .	1.2	35
14	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
15	Near-infrared selective dynamic windows controlled by charge transfer impedance at the counter electrode. <i>Nanoscale</i> , 2016, 8, 20056-20065.	2.8	26
16	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
17	Matrix-Assisted Pulsed Laser Evaporation Deposition of Pd Nanoparticles: The Role of Solvent. <i>Science of Advanced Materials</i> , 2015, 7, 2388-2400.	0.1	0
18	Laser-induced disaggregation of TiO ₂ nanofillers for uniform nanocomposites. <i>Nanotechnology</i> , 2014, 25, 125702.	1.3	3

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19	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
20	Room-temperature treatments for all-inorganic nanocrystal solar cell devices. <i>Thin Solid Films</i> , 2014, 560, 44-48.	0.8	4
21	Spatially Controlled Surface Energy Traps on Superhydrophobic Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1036-1043.	4.0	52
22	Self-assembled supracrystals and hetero-structures made from colloidal nanocrystals. <i>CrystEngComm</i> , 2014, 16, 9365-9367.	1.3	4
23	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, 5026-5033.	4.0	7
24	Ultrathin TiO ₂ (B) Nanorods with Superior Lithium-Ion Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1933-1943.	4.0	89
25	MAPLE deposition of nanomaterials. <i>Applied Surface Science</i> , 2014, 302, 92-98.	3.1	22
26	TiO ₂ nanorod-based photoelectrodes for dye solar cells with tunable morphological features. <i>Thin Solid Films</i> , 2014, 568, 122-130.	0.8	8
27	Comparative Raman Study of Organic-Free and Surfactant-Capped Rod-Shaped Anatase TiO ₂ Nanocrystals. <i>Science of Advanced Materials</i> , 2014, 6, 923-932.	0.1	1
28	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
29	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
30	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
31	Spin-Polarization Transfer in Colloidal Magnetic-Plasmonic Au/Iron Oxide Hetero-nanocrystals. <i>ACS Nano</i> , 2013, 7, 857-866.	7.3	64
32	Surfactant-induced thermomechanical and morphological changes in TiO ₂ -polystyrene nanocomposites. <i>Journal of Colloid and Interface Science</i> , 2013, 405, 103-108.	5.0	18
33	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.	1.5	27
34	Fabrication of flexible all-inorganic nanocrystal solar cells by room-temperature processing. <i>Energy and Environmental Science</i> , 2013, 6, 1565.	15.6	29
35	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
36	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.	15.6	35

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37	An ensemble-based method to assess the quality of a sample of nanocrystals as single photon emitters. Optics Communications, 2013, 300, 215-219.	1.0	4
38	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
39	Assembly of Iron Oxide Nanocrystal Superstructures. Science of Advanced Materials, 2013, 5, 2015-2020.	0.1	1
40	TiO ₂ brookite nanostructured thin layer on magneto-optical surface plasmon resonance transductor for gas sensing applications. Journal of Applied Physics, 2012, 112, .	1.1	24
41	Formation and magnetic manipulation of periodically aligned microchains in thin plastic membranes. Journal of Applied Physics, 2012, 112, 083927.	1.1	22
42	Magnetically Driven Floating Foams for the Removal of Oil Contaminants from Water. ACS Nano, 2012, 6, 5413-5419.	7.3	574
43	Optically controlled liquid flow in initially prohibited elastomeric nanocomposite micro-paths. RSC Advances, 2012, 2, 9543.	1.7	15
44	Exploiting GISAXS for the Study of a 3D Ordered Superlattice of Self-Assembled Colloidal Iron Oxide Nanocrystals. Crystal Growth and Design, 2012, 12, 5505-5512.	1.4	19
45	Colloidal Anisotropic ZnO@Fe@FexOy Nanoarchitectures with Interface-Mediated Exchange-Bias and Band-Edge Ultraviolet Fluorescence. Chemistry of Materials, 2012, 24, 2722-2732.	3.2	27
46	Thermal and mechanical characterization of poly(methyl methacrylate) nanocomposites filled with TiO ₂ nanorods. Composites Part B: Engineering, 2012, 43, 3114-3119.	5.9	30
47	Organic photovoltaic devices with colloidal TiO ₂ nanorods as key functional components. Physical Chemistry Chemical Physics, 2012, 14, 3987.	1.3	21
48	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. Sensors and Actuators B: Chemical, 2012, 161, 869-879.	4.0	34
49	Controlled Swapping of Nanocomposite Surface Wettability by Multilayer Photopolymerization. Langmuir, 2011, 27, 8522-8529.	1.6	17
50	Tunneling Magnetoresistance with Sign Inversion in Junctions Based on Iron Oxide Nanocrystal Superlattices. ACS Nano, 2011, 5, 1731-1738.	7.3	34
51	Hyperbranched Anatase TiO ₂ 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
52	High-quality photoelectrodes based on shape-tailored TiO ₂ nanocrystals for dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 13371.	6.7	33
53	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
54	Films of brookite TiO ₂ nanorods/nanoparticles deposited by matrix-assisted pulsed laser evaporation as NO ₂ gas-sensing layers. Applied Physics A: Materials Science and Processing, 2011, 104, 963-968.	1.1	23

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55	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
56	Microwave-Assisted Synthesis of Colloidal Inorganic Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11312-11359.	7.2	686
57	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.	2.7	26
58	Reversible wettability of hybrid organic/inorganic surfaces of systems upon light irradiation/storage cycles. <i>International Journal of Nanomanufacturing</i> , 2010, 6, 312.	0.3	2
59	Colloidal heterostructured nanocrystals: Synthesis and growth mechanisms. <i>Nano Today</i> , 2010, 5, 449-493.	6.2	628
60	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.	0.8	16
61	Electron diffractive imaging of oxygen atoms in nanocrystals at sub-Ångström resolution. <i>Nature Nanotechnology</i> , 2010, 5, 360-365.	15.6	56
62	Light-Controlled Directional Liquid Drop Movement on TiO ₂ Nanorods-Based Nanocomposite Photopatterns. <i>Langmuir</i> , 2010, 26, 18557-18563.	1.6	35
63	Dynamical Formation of Spatially Localized Arrays of Aligned Nanowires in Plastic Films with Magnetic Anisotropy. <i>ACS Nano</i> , 2010, 4, 1873-1878.	7.3	87
64	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, 2437-2464.	6.6	139
65	Reversibly Light-Switchable Wettability of Hybrid Organic/Inorganic Surfaces With Dual Micro-Nanoscale Roughness. <i>Advanced Functional Materials</i> , 2009, 19, 1149-1157.	7.8	115
66	Magnetic-Fluorescent Colloidal Nanobeads: Preparation and Exploitation in Cell Separation Experiments. <i>Macromolecular Bioscience</i> , 2009, 9, 952-958.	2.1	66
67	Photochemical Synthesis of Water-Soluble Gold Nanorods: The Role of Silver in Assisting Anisotropic Growth. <i>Chemistry of Materials</i> , 2009, 21, 4192-4202.	3.2	85
68	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, 12817-12828.	6.6	119
69	Wettability conversion of colloidal TiO ₂ nanocrystal thin films with UV-switchable hydrophilicity. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3692.	1.3	47
70	Size, Shape, and Internal Atomic Ordering of Nanocrystals by Atomic Pair Distribution Functions: A Comparative Study of ⁵⁷ Fe ₂ O ₃ Nanosized Spheres and Tetrapods. <i>Journal of the American Chemical Society</i> , 2009, 131, 14264-14266.	6.6	59
71	Exchange-Coupled Bimagnetic Cobalt/Iron Oxide Branched Nanocrystal Heterostructures. <i>Nano Letters</i> , 2009, 9, 366-376.	4.5	62
72	Colloidal semiconductor/magnetic heterostructures based on iron-oxide-functionalized brookite TiO ₂ nanorods. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3680.	1.3	48

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73	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.	1.7	14
74	Colloidal Strategies for Preparing Oxide-Based Hybrid Nanocrystals. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 837-854.	1.0	175
75	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
76	The influence of intrinsic and surface states on the emission properties of colloidal nanocrystals. <i>Superlattices and Microstructures</i> , 2008, 43, 528-531.	1.4	2
77	One-Pot Synthesis and Characterization of Size-Controlled Bimagnetic FePt ¹¹ /Iron Oxide Heterodimer Nanocrystals. <i>Journal of the American Chemical Society</i> , 2008, 130, 1477-1487.	6.6	179
78	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.	1.5	96
79	Nonhydrolytic Synthesis of High-Quality Anisotropically Shaped Brookite TiO ₂ Nanocrystals. <i>Journal of the American Chemical Society</i> , 2008, 130, 11223-11233.	6.6	247
80	Advances in the Chemical Fabrication of Complex Multimaterial Nanocrystals. <i>Recent Patents on Nanotechnology</i> , 2007, 1, 224-232.	0.7	14
81	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
82	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
83	Topologically Controlled Growth of Magnetic-Metal-Functionalized Semiconductor Oxide Nanorods. <i>Nano Letters</i> , 2007, 7, 1386-1395.	4.5	155
84	UV-Light-Driven Immobilization of Surface-Functionalized Oxide Nanocrystals onto Silicon. <i>Advanced Functional Materials</i> , 2007, 17, 201-211.	7.8	26
85	Synthesis routes for the growth of complex nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 37, 128-133.	1.3	14
86	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
87	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.	4.0	29
88	Selective reactions on the tips of colloidal semiconductor nanorods. <i>Journal of Materials Chemistry</i> , 2006, 16, 3952.	6.7	108
89	Synthesis, properties and perspectives of hybrid nanocrystal structures. <i>Chemical Society Reviews</i> , 2006, 35, 1195.	18.7	855
90	Heterodimers Based on CoPt ₃ /Au Nanocrystals with Tunable Domain Size. <i>Journal of the American Chemical Society</i> , 2006, 128, 6690-6698.	6.6	202

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91	Seeded Growth of Asymmetric Binary Nanocrystals Made of a Semiconductor TiO ₂ Rodlike Section and a Magnetic Fe ₃ O ₄ Spherical Domain. <i>Journal of the American Chemical Society</i> , 2006, 128, 16953-16970.	6.6	163
92	Synthesis of TiO ₂ @Au Composites by Titania-Nanorod-Assisted Generation of Gold Nanoparticles at Aqueous/Nonpolar Interfaces. <i>Small</i> , 2006, 2, 413-421.	5.2	54
93	Nano-Objects on a Round Trip from Water to Organics in a Polymeric Ionic Liquid Vehicle. <i>Small</i> , 2006, 2, 507-512.	5.2	131
94	Photoelectrochemical properties of hybrid junctions based on zinc phthalocyanine and semiconducting colloidal nanocrystals. <i>Electrochimica Acta</i> , 2006, 51, 5120-5124.	2.6	7
95	Colloidal Synthesis and Characterization of Tetrapod-Shaped Magnetic Nanocrystals. <i>Nano Letters</i> , 2006, 6, 1966-1972.	4.5	140
96	Colloidal TiO ₂ rod and dot based thin films for chemical sensors based on surface plasmon resonance. <i>Applied Surface Science</i> , 2005, 205, 5836-5842.		0
97	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
98	Low-dimensional chainlike assemblies of TiO ₂ nanorod-stabilized Au nanoparticles. <i>Chemical Communications</i> , 2005, , 942.	2.2	31
99	Tips on growing nanocrystals. <i>Nature Materials</i> , 2005, 4, 801-802.	13.3	55
100	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.	10.8	190
101	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
102	Shape and Phase Control of Colloidal ZnSe Nanocrystals. <i>Chemistry of Materials</i> , 2005, 17, 1296-1306.	3.2	220
103	TiO ₂ nanocrystal films for sensing applications based on surface plasmon resonance. <i>Synthetic Metals</i> , 2005, 148, 25-29.	2.1	32
104	Colloidal TiO ₂ Nanocrystals/MEH-PPV Nanocomposites: A Photo(electro)chemical Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1554-1562.	1.2	91
105	Colloidal Synthesis of Organic-Capped ZnO Nanocrystals via a Sequential Reduction/Oxidation Reaction. <i>Journal of Physical Chemistry B</i> , 2005, 109, 2638-2644.	1.2	68
106	Efficient charge storage in photoexcited TiO ₂ nanorod-noble metal nanoparticle composite systems. <i>Chemical Communications</i> , 2005, , 3186.	2.2	85
107	Photocatalytic degradation of methyl-red by immobilised nanoparticles of TiO ₂ and ZnO. <i>Water Science and Technology</i> , 2004, 49, 183-188.	1.2	43
108	TiO ₂ nanocrystals @ MEH-PPV composite thin films as photoactive material. <i>Thin Solid Films</i> , 2004, 451-452, 64-68.	0.8	64

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109	Role of Metal Nanoparticles in TiO ₂ /Ag Nanocomposite-Based Microheterogeneous Photocatalysis. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9623-9630.	1.2	188
110	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.	4.0	45
111	Photoelectrochemical study on photosynthetic pigments-sensitized nanocrystalline ZnO films. <i>Bioelectrochemistry</i> , 2004, 63, 99-102.	2.4	20
112	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, 3868-3879.	6.6	304
113	Low-Temperature Synthesis of Soluble and Processable Organic-Capped Anatase TiO ₂ Nanorods. <i>Journal of the American Chemical Society</i> , 2003, 125, 14539-14548.	6.6	924
114	ZnO Nanocrystals by a Non-Hydrolytic Route: Synthesis and Characterization.. <i>ChemInform</i> , 2003, 34, no.	0.1	0
115	Photocatalytic activity of organic-capped anatase TiO ₂ nanocrystals in homogeneous organic solutions. <i>Materials Science and Engineering C</i> , 2003, 23, 707-713.	3.8	60
116	Colloidal oxide nanoparticles for the photocatalytic degradation of organic dye. <i>Materials Science and Engineering C</i> , 2003, 23, 285-289.	3.8	218
117	ZnO Nanocrystals by a Non-hydrolytic Route: Synthesis and Characterization. <i>Journal of Physical Chemistry B</i> , 2003, 107, 4756-4762.	1.2	212
118	Photochemical sensitisation process at photosynthetic pigments/Q-sized colloidal semiconductor hetero-junctions. <i>Synthetic Metals</i> , 2003, 139, 593-596.	2.1	14
119	Thermal and Mechanical Characterization of PMMA TiO ₂ Nanocomposites. <i>Advanced Materials Research</i> , 0, 67, 209-214.	0.3	18