Marialucia Curri

List of Publications by Citations

208 papers	6,128 citations	40 h-index	69 g-index
226 ext. papers	6,645 ext. citations	6.1 avg, IF	5.41 L-index

#	Paper	IF	Citations
208	Photocatalytic synthesis of silver nanoparticles stabilized by TiO2 nanorods: a semiconductor/metal nanocomposite in homogeneous nonpolar solution. *Journal of the American Chemical Society*, **2004**, 126, 3868-79	16.4	282
207	UV-induced photocatalytic degradation of azo dyes by organic-capped ZnO nanocrystals immobilized onto substrates. *Applied Catalysis B: Environmental*, **2005**, 60, 1-11	21.8	238
206	Shape and Phase Control of Colloidal ZnSe Nanocrystals. *Chemistry of Materials*, **2005**, 17, 1296-1306	9.6	206
205	ZnO Nanocrystals by a Non-hydrolytic Route: Synthesis and Characterization. *Journal of Physical Chemistry B*, **2003**, 107, 4756-4762	3.4	200
204	Colloidal oxide nanoparticles for the photocatalytic degradation of organic dye. *Materials Science and Engineering C*, **2003**, 23, 285-289	8.3	195
203	Role of Metal Nanoparticles in TiO2/Ag Nanocomposite-Based Microheterogeneous Photocatalysis. *Journal of Physical Chemistry B*, **2004**, 108, 9623-9630	3.4	180
202	Photocatalytic degradation of azo dyes by organic-capped anatase TiO2 nanocrystals immobilized onto substrates. *Applied Catalysis B: Environmental*, **2005**, 55, 81-91	21.8	172
201	Synthesis and Characterization of CdS Nanoclusters in a Quaternary Microemulsion: the Role of the Cosurfactant. *Journal of Physical Chemistry B*, **2000**, 104, 8391-8397	3.4	160
200	Seeded growth of asymmetric binary nanocrystals made of a semiconductor TiO2 rodlike section and a magnetic gamma-Fe2O3 spherical domain. *Journal of the American Chemical Society*, **2006**, 128, 16953-70	16.4	153
199	Optical properties of hybrid composites based on highly luminescent CdS nanocrystals in polymer. *Nanotechnology*, **2004**, 15, S240-S244	3.4	141
198	Nanocomposite materials for photocatalytic degradation of pollutants. *Catalysis Today*, **2017**, 281, 85-100	5.3	132
197	Photocatalytic degradation of methyl red by TiO2: comparison of the efficiency of immobilized nanoparticles versus conventional suspended catalyst. *Journal of Hazardous Materials*, **2007**, 142, 130-7	12.8	129
196	Nano-objects on a round trip from water to organics in a polymeric ionic liquid vehicle. *Small*, **2006**, 2, 507-12	11	124
195	UV and solar-based photocatalytic degradation of organic pollutants by nano-sized TiO2 grown on carbon nanotubes. *Catalysis Today*, **2015**, 240, 114-124	5.3	104
194	Spectroscopic Insights into Carbon Dot Systems. *Journal of Physical Chemistry Letters*, **2017**, 8, 2236-2242	6.4	87
193	Efficient charge storage in photoexcited TiO2 nanorod-noble metal nanoparticle composite systems. *Chemical Communications*, **2005**, 3186-8	5.8	83
192	Colloidal TiO2 nanocrystals/MEH-PPV nanocomposites: photo(electro)chemical study. *Journal of Physical Chemistry B*, **2005**, 109, 1554-62	3.4	82

191	Photochemical Synthesis of Water-Soluble Gold Nanorods: The Role of Silver in Assisting Anisotropic Growth. *Chemistry of Materials*, **2009**, 21, 4192-4202	9.6	80
190	The identification by Raman microscopy and X-ray diffraction of iron-oxide pigments and of the red pigments found on Italian pottery fragments. *Journal of Molecular Structure*, **1998**, 440, 105-111	3.4	77
189	Visible-Light-Active TiO2-Based Hybrid Nanocatalysts for Environmental Applications. *Catalysts*, **2017**, 7, 100	4	72
188	Synthesis and structural characterisation of CdS nanoparticles prepared in a four-components "water-in-oil" microemulsion. *Micron*, **2000**, 31, 253-8	2.3	72
187	A cast-mold approach to iron oxide and Pt/iron oxide nanocontainers and nanoparticles with a reactive concave surface. *Journal of the American Chemical Society*, **2011**, 133, 2205-17	16.4	67
186	Development of a novel enzyme/semiconductor nanoparticles system for biosensor application. *Materials Science and Engineering C*, **2002**, 22, 449-452	8.3	64
185	Raman microscopy: The identification of lapis lazuli on medieval pottery fragments from the south of Italy. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **1997**, 53, 597-603	4.4	58
184	Photocatalytic activity of organic-capped anatase TiO2 nanocrystals in homogeneous organic solutions. *Materials Science and Engineering C*, **2003**, 23, 707-713	8.3	56
183	Spectroscopic study on imidazolium-based ionic liquids: effect of alkyl chain length and anion. *Journal of Physical Chemistry B*, **2012**, 116, 3512-8	3.4	55
182	TiO2 nanocrystals MEH-PPV composite thin films as photoactive material. *Thin Solid Films*, **2004**, 451-452, 64-68	2.2	54
181	Ion-directed assembly of gold nanorods: a strategy for mercury detection. *ACS Applied Materials & Interfaces*, **2013**, 5, 1084-92	9.5	53
180	Synthesis of TiO2-Au composites by titania-nanorod-assisted generation of gold nanoparticles at aqueous/nonpolar interfaces. *Small*, **2006**, 2, 413-21	11	52
179	TiO(2) nanorods/PMMA copolymer-based nanocomposites: highly homogeneous linear and nonlinear optical material. *Nanotechnology*, **2008**, 19, 205705	3.4	51
178	TiO2 colloidal nanocrystals functionalization of PMMA: A tailoring of optical properties and chemical adsorption. *Sensors and Actuators B: Chemical*, **2007**, 126, 138-143	8.5	51
177	Gram-scale synthesis of UV is light active plasmonic photocatalytic nanocomposite based on TiO2/Au nanorods for degradation of pollutants in water. *Applied Catalysis B: Environmental*, **2019**, 243, 604-613	21.8	51
176	Sorafenib delivery nanoplatform based on superparamagnetic iron oxide nanoparticles magnetically targets hepatocellular carcinoma. *Nano Research*, **2017**, 10, 2431-2448	10	49
175	Characterization of Brown Black and Blue Pigments in Glazed Pottery Fragments from Castel Fiorentino (Foggia, Italy) by Raman Microscopy, X-Ray Powder Diffractometry and X-Ray Photoelectron Spectroscopy. *Journal of Raman Spectroscopy*, **1997**, 28, 105-109	2.3	48
174	Nanocrystal-based luminescent composites for nanoimprinting lithography. *Small*, **2007**, 3, 822-8	11	48

173	Next-generation thermo-plasmonic technologies and plasmonic nanoparticles in optoelectronics. *Progress in Quantum Electronics*, **2015**, 41, 23-70	9.1	45
172	Nanocrystalline TiO2 based films onto fibers for photocatalytic degradation of organic dye in aqueous solution. *Applied Catalysis B: Environmental*, **2012**, 121-122, 190-197	21.8	43
171	Investigation on alcohol vapours/TiO2 nanocrystal thin films interaction by SPR technique for sensing application. *Sensors and Actuators B: Chemical*, **2004**, 100, 75-80	8.5	43
170	Colloidal Inorganic Nanocrystal Based Nanocomposites: Functional Materials for Micro and Nanofabrication. *Materials*, **2010**, 3, 1316-1352	3.5	42
169	UV-curable nanocomposite based on methacrylic-siloxane resin and surface-modified TiO2 nanocrystals. *ACS Applied Materials & Interfaces*, **2015**, 7, 15494-505	9.5	40
168	Photo-thermal effects in gold nanoparticles dispersed in thermotropic nematic liquid crystals. *Physical Chemistry Chemical Physics*, **2015**, 17, 20281-7	3.6	40
167	Inkjet-printed multicolor arrays of highly luminescent nanocrystal-based nanocomposites. *Small*, **2009**, 5, 1051-7	11	40
166	Improved optical properties of CdS quantum dots by ligand exchange. *Materials Science and Engineering C*, **2003**, 23, 1083-1086	8.3	40
165	High quality CdS nanocrystals: surface effects. *Synthetic Metals*, **2003**, 139, 597-600	3.6	39
164	Chemical characterisation of ancient pottery from south of Italy by Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES). *Analytica Chimica Acta*, **2000**, 410, 193-202	6.6	39
163	Highly selective luminescent nanostructures for mitochondrial imaging and targeting. *Nanoscale*, **2016**, 8, 3350-61	7.7	34
162	Photocatalytic Activity of Nanocomposite Catalyst Films Based on Nanocrystalline Metal/Semiconductors. *Journal of Physical Chemistry C*, **2011**, 115, 12033-12040	3.8	34
161	Emerging methods for fabricating functional structures by patterning and assembling engineered nanocrystals. *Physical Chemistry Chemical Physics*, **2010**, 12, 11197-207	3.6	34
160	An Epoxy Photoresist Modified by Luminescent Nanocrystals for the Fabrication of 3D High-Aspect-Ratio Microstructures. *Advanced Functional Materials*, **2007**, 17, 2009-2017	15.6	34
159	Post-synthesis phase and shape evolution of CsPbBr3 colloidal nanocrystals: The role of ligands. *Nano Research*, **2019**, 12, 1155-1166	10	33
158	Photodegradation of nalidixic acid assisted by TiO(2) nanorods/Ag nanoparticles based catalyst. *Chemosphere*, **2013**, 91, 941-7	8.4	33
157	Nano-Localized Heating Source for Photonics and Plasmonics. *Advanced Optical Materials*, **2013**, 1, 899-904	8.1	32
156	Single white light emitting hybrid nanoarchitectures based on functionalized quantum dots. *Journal of Materials Chemistry C*, **2014**, 2, 5286	7.1	30

155	Interaction of TiO2 Nanocrystals with Imidazolium-Based Ionic Liquids. *Journal of Physical Chemistry C*, **2013**, 117, 12923-12929	3.8	30
154	Scalable Synthesis of Mesoporous TiO for Environmental Photocatalytic Applications. *Materials*, **2019**, 12,	3.5	29
153	Fabrication of flexible all-inorganic nanocrystal solar cells by room-temperature processing. *Energy and Environmental Science*, **2013**, 6, 1565	35.4	29
152	TiO2 nanocrystal films for sensing applications based on surface plasmon resonance. *Synthetic Metals*, **2005**, 148, 25-29	3.6	29
151	XPS, ICP and DPASV analysis of medieval pottery Statistical multivariate treatment of data. *FreseniusgJournal of Analytical Chemistry*, **1994**, 350, 168-177		28
150	Luminescent Oil-Soluble Carbon Dots toward White Light Emission: A Spectroscopic Study. *Journal of Physical Chemistry C*, **2018**, 122, 839-849	3.8	28
149	Biotin-decorated silica coated PbS nanocrystals emitting in the second biological near infrared window for bioimaging. *Nanoscale*, **2014**, 6, 7924-33	7.7	27
148	Photoactive hybrid material based on pyrene functionalized PbS nanocrystals decorating CVD monolayer graphene. *ACS Applied Materials & Interfaces*, **2015**, 7, 4151-9	9.5	27
147	Self-organization of mono- and bi-modal PbS nanocrystal populations in superlattices. *CrystEngComm*, **2011**, 13, 3988	3.3	27
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143	A Multifrequency EPR Study on Organic-Capped Anatase TiO2 Nanocrystals. *Journal of Physical Chemistry C*, **2009**, 113, 6221-6226	3.8	25
142	Ascorbic acid-sensitized Au nanorods-functionalized nanostructured TiO2 transparent electrodes for photoelectrochemical genosensing. *Electrochimica Acta*, **2018**, 276, 389-398	6.7	24
141	Hybrid junctions of zinc(II) and magnesium(II) phthalocyanine with wide-band-gap semiconductor nano-oxides: spectroscopic and photoelectrochemical characterization. *Journal of Physical Chemistry B*, **2006**, 110, 24424-32	3.4	24
140	Direct growth of shape controlled TiO2 nanocrystals onto SWCNTs for highly active photocatalytic materials in the visible. *Applied Catalysis B: Environmental*, **2015**, 178, 91-99	21.8	23
139	Near Infrared Emission from Monomodal and Bimodal PbS Nanocrystal Superlattices. *Journal of Physical Chemistry C*, **2012**, 116, 6143-6152	3.8	23
138	UV-Light-Driven Immobilization of Surface-Functionalized Oxide Nanocrystals onto Silicon. *Advanced Functional Materials*, **2007**, 17, 201-211	15.6	23

137	FZD10 Carried by Exosomes Sustains Cancer Cell Proliferation. *Cells*, **2019**, 8,	7.9	22
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135	GISAXS and GIWAXS study on self-assembling processes of nanoparticle based superlattices. *CrystEngComm*, **2014**, 16, 9482-9492	3.3	21
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133	Biofunctionalization of anisotropic nanocrystalline semiconductor-magnetic heterostructures. *Langmuir*, **2011**, 27, 6962-70	4	21
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131	Spontaneous emission control of colloidal nanocrystals using nanoimprinted photonic crystals. *Applied Physics Letters*, **2007**, 90, 011115	3.4	21
130	Fabrication of photoactive heterostructures based on quantum dots decorated with Au nanoparticles. *Science and Technology of Advanced Materials*, **2016**, 17, 98-108	7.1	20
129	Selective confinement of oleylamine capped Au nanoparticles in self-assembled PS-b-PEO diblock copolymer templates. *Soft Matter*, **2014**, 10, 1676-84	3.6	20
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127	Luminescent nanocrystals in phospholipid micelles for bioconjugation: an optical and structural investigation. *Journal of Colloid and Interface Science*, **2008**, 325, 558-66	9.3	20
126	Integrin-targeting with peptide-bioconjugated semiconductor-magnetic nanocrystalline heterostructures. *Nano Research*, **2016**, 9, 644-662	10	19
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122	Photocatalytic TiO2-Based Nanostructured Materials for Microbial Inactivation. *Catalysts*, **2020**, 10, 1382	4	19
121	Stimuli-responsive nanoparticle-assisted immunotherapy: a new weapon against solid tumours. *Journal of Materials Chemistry B*, **2020**, 8, 1823-1840	7.3	18
120	Electroactive layer-by-layer plasmonic architectures based on Au nanorods. *Langmuir*, **2014**, 30, 2608-18	4	18

119	Drop-on-demand inkjet printing of highly luminescent CdS and CdSe@ZnS nanocrystal based nanocomposites. *Microelectronic Engineering*, **2009**, 86, 1124-1126	2.5	18
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115	Au nanoparticle in situ decorated RGO nanocomposites for highly sensitive electrochemical genosensors. *Journal of Materials Chemistry B*, **2019**, 7, 768-777	7.3	17
114	Frizzled-10 Extracellular Vesicles Plasma Concentration Is Associated with Tumoral Progression in Patients with Colorectal and Gastric Cancer. *Journal of Oncology*, **2019**, 2019, 2715968	4.5	17
113	Cytotoxicity Study on Luminescent Nanocrystals Containing Phospholipid Micelles in Primary Cultures of Rat Astrocytes. *PLoS ONE*, **2016**, 11, e0153451	3.7	17
112	Enhanced photoactivity and conductivity in transparent TiO2 nanocrystals/graphene hybrid anodes. *Journal of Materials Chemistry A*, **2017**, 5, 9307-9315	13	16
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110	TiO2 Nanocrystal Based Coatings for the Protection of Architectural Stone: The Effect of Solvents in the Spray-Coating Application for a Self-Cleaning Surfaces. *Coatings*, **2018**, 8, 356	2.9	16
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108	Colloidal Nanocrystalline Semiconductor Materials as Photocatalysts for Environmental Protection of Architectural Stone. *Crystals*, **2017**, 7, 30	2.3	15
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103	Multifunctional TiO 2 /Fe x O y /Ag based nanocrystalline heterostructures for photocatalytic degradation of a recalcitrant pollutant. *Catalysis Today*, **2017**, 284, 100-106	5.3	14
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99	A designed UV□is light curable coating nanocomposite based on colloidal TiO2 NRs in a hybrid resin for stone protection. *Progress in Organic Coatings*, **2018**, 122, 290-301	4.8	14
98	Interplay between amplified spontaneous emission, Forster resonant energy transfer, and self-absorption in hybrid poly(9,9-dioctylfluorene)-CdSe/ZnS nanocrystal thin films. *Journal of Physical Chemistry A*, **2010**, 114, 2086-90	2.8	13
97	Surface functionalization of epoxy-resist- based microcantilevers with iron oxide nanocrystals. *Advanced Materials*, **2010**, 22, 3288-92	24	13
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95	Cyclodextrin mediated phase transfer in water of organic capped CdS nanocrystals. *Synthetic Metals*, **2005**, 148, 43-46	3.6	13
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92	Poly(methyl methacrylate) nanocomposites based on TiO2 nanocrystals: Tailoring material properties towards sensing. *Thin Solid Films*, **2011**, 519, 3931-3938	2.2	12
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88	Gain-assisted plasmonic metamaterials: mimicking nature to go across scales. *Rendiconti Lincei*, **2015**, 26, 161-174	1.7	11
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86	Optical and conductive properties of as-synthesized organic-capped TiO□nanorods highly dispersible in polystyrene-block-poly(methyl methacrylate) diblock copolymer. *ACS Applied Materials & Interfaces*, **2014**, 6, 11805-14	9.5	11
85	Metallic nanoparticles enhanced the spontaneous emission of semiconductor nanocrystals embedded in nanoimprinted photonic crystals. *Nanoscale*, **2013**, 5, 239-45	7.7	11
84	Assembly of Gold Nanorods for Highly Sensitive Detection of Mercury Ions. *IEEE Sensors Journal*, **2013**, 13, 2834-2841	4	11

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82	CdS Nanocrystals from a Quaternary Water-in-Oil Microemulsion: Preparation and Characterization of Self-Assembled Layers. *Journal of Colloid and Interface Science*, **2001**, 243, 165-170	9.3	11
81	Thermoplasmonic Activated Reverse-Mode Liquid Crystal Gratings. *ACS Applied Nano Materials*, **2019**, 2, 3315-3322	5.6	10
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72	Rod-coil block copolymer as nanostructuring compatibilizer for efficient CdSe NCs/PCPDTBT hybrid solar cells. *European Polymer Journal*, **2016**, 78, 352-363	5.2	9
71	High-Efficiency FRET Processes in BODIPY-Functionalized Quantum Dot Architectures. *Chemistry - A European Journal*, **2021**, 27, 2371-2380	4.8	9
70	Photocatalytic TiO2-based coatings for environmental applications. *Catalysis Today*, **2021**, 380, 62-83	5.3	9
69	Solvent dispersible nanocomposite based on Reduced Graphene Oxide and in-situ decorated gold nanoparticles. *Carbon*, **2019**, 152, 777-787	10.4	8
68	Photoelectrochemical properties of ZnO nanocrystals/MEH-PPV composite: The effects of nanocrystals synthetic route, film deposition and electrolyte composition. *Thin Solid Films*, **2015**, 595, 157-163	2.2	8
67	Nanocomposites based on highly luminescent nanocrystals and semiconducting conjugated polymer for inkjet printing. *Nanotechnology*, **2012**, 23, 075701	3.4	8
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65	Phase transfer of CdS nanocrystals mediated by heptamine β-cyclodextrin. *Langmuir*, **2012**, 28, 8711-20	4	7
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60	DPD Simulations of PMMA-Oleic Acid Mixture Behaviour in Organic Capped Nanoparticle Based Polymer Nanocomposite. *Macromolecular Symposia*, **2009**, 286, 156-163	0.8	6
59	A Possible Role of FZD10 Delivering Exosomes Derived from Colon Cancers Cell Lines in Inducing Activation of Epithelial-Mesenchymal Transition in Normal Colon Epithelial Cell Line. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	6
58	Near-Infrared Absorbing Solid Lipid Nanoparticles Encapsulating Plasmonic Copper Sulfide Nanocrystals. *Journal of Physical Chemistry C*, **2019**, 123, 23205-23213	3.8	5
57	The effect of TiO2 nanocrystal shape on the electrical properties of poly(styrene-b-methyl methacrylate) block copolymer based nanocomposites for solar cell application. *Electrochimica Acta*, **2015**, 184, 8-16	6.7	5
56	Encapsulation of Dual Emitting Giant Quantum Dots in Silica Nanoparticles for Optical Ratiometric Temperature Nanosensors. *Applied Sciences (Switzerland)*, **2020**, 10, 2767	2.6	5
55	Imaging modification of colon carcinoma cells exposed to lipid based nanovectors for drug delivery: a scanning electron microscopy investigation.. *RSC Advances*, **2019**, 9, 21810-21825	3.7	5
54	Templating gold nanorods with liquid crystalline DNA. *Journal of Optics (United Kingdom)*, **2015**, 17, 025001	1.7	5
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52	Semiconductor nanocrystals dispersed in imidazolium-based ionic liquids: a spectroscopic and morphological investigation. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	5
51	Hybrid charge transfer complexes based on archaeal glycolipids wrapping single walled carbon nanotubes. *Chemical Communications*, **2013**, 49, 6941-3	5.8	5
50	Liquid Crystals: Nano-Localized Heating Source for Photonics and Plasmonics (Advanced Optical Materials 12/2013). *Advanced Optical Materials*, **2013**, 1, 992-992	8.1	5
49	Surface Functionalization of Micro Mechanical Cantilever Sensors by Organic Capped TiO2 and Fe2O3 Nanocrystals. *Procedia Chemistry*, **2009**, 1, 32-35		5
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