

Andrea Falqui

List of Publications by Citations

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194
papers

7,531
citations

50
h-index

80
g-index

206
ext. papers

8,245
ext. citations

6.9
avg, IF

5.46
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 194 | Reversible tunability of the near-infrared valence band plasmon resonance in Cu(2-x)Se nanocrystals. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11175-80 | 16.4 | 375 |
| 193 | A Structural and Magnetic Investigation of the Inversion Degree in Ferrite Nanocrystals MFe ₂ O ₄ (M = Mn, Co, Ni). <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8606-8615 | 3.8 | 356 |
| 192 | Sequential cation exchange in nanocrystals: preservation of crystal phase and formation of metastable phases. <i>Nano Letters</i> , 2011 , 11, 4964-70 | 11.5 | 264 |
| 191 | Assembly of colloidal semiconductor nanorods in solution by depletion attraction. <i>Nano Letters</i> , 2010 , 10, 743-9 | 11.5 | 222 |
| 190 | CdSe/CdS/ZnS double shell nanorods with high photoluminescence efficiency and their exploitation as biolabeling probes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2948-58 | 16.4 | 220 |
| 189 | Selective growth of PbSe on one or both tips of colloidal semiconductor nanorods. <i>Nano Letters</i> , 2005 , 5, 445-9 | 11.5 | 216 |
| 188 | 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 |
| 187 | Enhancement of neurite outgrowth in neuronal-like cells following boron nitride nanotube-mediated stimulation. <i>ACS Nano</i> , 2010 , 4, 6267-77 | 16.7 | 160 |
| 186 | Lipid droplets: a new player in colorectal cancer stem cells unveiled by spectroscopic imaging. <i>Stem Cells</i> , 2015 , 33, 35-44 | 5.8 | 138 |
| 185 | Epitaxial CdSe-Au nanocrystal heterostructures by thermal annealing. <i>Nano Letters</i> , 2010 , 10, 3028-36 | 11.5 | 136 |
| 184 | Three-dimensional morphology of iron oxide nanoparticles with reactive concave surfaces. A compressed sensing-electron tomography (CS-ET) approach. <i>Nano Letters</i> , 2011 , 11, 4666-73 | 11.5 | 133 |
| 183 | An Overview of Lipid Droplets in Cancer and Cancer Stem Cells. <i>Stem Cells International</i> , 2017 , 2017, 1656053 | 5 | 121 |
| 182 | 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 |
| 181 | Iron nanoparticle growth in organic superstructures. <i>Journal of the American Chemical Society</i> , 2009 , 131, 549-57 | 16.4 | 109 |
| 180 | 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 |
| 179 | End-to-End Assembly of Shape-Controlled Nanocrystals via a Nanowelding Approach Mediated by Gold Domains. <i>Advanced Materials</i> , 2009 , 21, 550-4 | 24 | 106 |
| 178 | Characterization of Nanocrystalline Fe ₂ O ₃ Prepared by Wet Chemical Method. <i>Journal of Materials Research</i> , 1999 , 14, 1570-1575 | 2.5 | 98 |

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| 177 | "Nanohybrids" based on pH-responsive hydrogels and inorganic nanoparticles for drug delivery and sensor applications. <i>Nano Letters</i> , 2011 , 11, 3136-41 | 11.5 | 92 |
| 176 | Cobalt growth on the tips of CdSe nanorods. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1814-16 | 16.4 | 89 |
| 175 | CoFe ₂ O ₄ nanocrystalline powders prepared by citrate-gel methods: Synthesis, structure and magnetic properties. <i>Journal of Nanoparticle Research</i> , 2006 , 8, 255-267 | 2.3 | 86 |
| 174 | Triton X-100 for three-plasmon gold nanostars with two photothermally active NIR (near IR) and SWIR (short-wavelength IR) channels. <i>Chemical Communications</i> , 2013 , 49, 6265-7 | 5.8 | 85 |
| 173 | Monodispersed and size-controlled multibranch gold nanoparticles with nanoscale tuning of surface morphology. <i>Nanoscale</i> , 2011 , 3, 2227-32 | 7.7 | 85 |
| 172 | Size-tunable, hexagonal plate-like Cu ₃ P and Janus-like Cu-Cu ₃ P nanocrystals. <i>ACS Nano</i> , 2012 , 6, 32-41 | 16.7 | 82 |
| 171 | Functionalization of strongly interacting magnetic nanocubes with (thermo)responsive coating and their application in hyperthermia and heat-triggered drug delivery. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10132-45 | 9.5 | 78 |
| 170 | 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 |
| 169 | Hybrid Co-Au nanorods: controlling Au nucleation and location. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 7079-81 | 16.4 | 77 |
| 168 | Influence of particles alloying on the performances of PtRu/CNT catalysts for selective hydrogenation. <i>Journal of Catalysis</i> , 2011 , 278, 59-70 | 7.3 | 74 |
| 167 | Synthesis of branched Au nanoparticles with tunable near-infrared LSPR using a zwitterionic surfactant. <i>Chemical Communications</i> , 2011 , 47, 1315-7 | 5.8 | 72 |
| 166 | Controlled synthesis of gold nanostars by using a zwitterionic surfactant. <i>Chemistry - A European Journal</i> , 2012 , 18, 9381-90 | 4.8 | 69 |
| 165 | In Vivo toxicity assessment of gold nanoparticles in <i>Drosophila melanogaster</i> . <i>Nano Research</i> , 2011 , 4, 405-413 | 10 | 69 |
| 164 | Supported ionic liquid phase catalysis on functionalized carbon nanotubes. <i>Chemical Communications</i> , 2008 , 4201-3 | 5.8 | 68 |
| 163 | Superparamagnetic behaviour of Fe ₂ O ₃ nanoparticles dispersed in a silica matrix. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 832-838 | 3.6 | 68 |
| 162 | A cast-mold approach to iron oxide and Pt/iron oxide nanocontainers and nanoparticles with a reactive concave surface. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2205-17 | 16.4 | 67 |
| 161 | Synthesis and Structure-Property Correlation in Shape-Controlled ZnO Nanoparticles Prepared by Chemical Vapor Synthesis and their Application in Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2009 , 19, 875-886 | 15.6 | 67 |
| 160 | Low-temperature magnetic behavior of perovskite compounds PbFe(1/2)Ta(1/2)O ₃ and PbFe(1/2)Nb(1/2)O ₃ . <i>Journal of Physical Chemistry B</i> , 2005 , 109, 22967-70 | 3.4 | 63 |

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| 159 | Magnetic properties of γ -Fe ₂ O ₃ /SiO ₂ aerogel and xerogel nanocomposite materials. <i>Journal of Materials Chemistry</i> , 2001 , 11, 3180-3187 | | 63 |
| 158 | Colloidal synthesis of cuprite (Cu ₂ O) octahedral nanocrystals and their electrochemical lithiation. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2745-51 | 9.5 | 62 |
| 157 | Direct imaging of DNA fibers: the visage of double helix. <i>Nano Letters</i> , 2012 , 12, 6453-8 | 11.5 | 59 |
| 156 | Exchange-coupled bimagnetic cobalt/iron oxide branched nanocrystal heterostructures. <i>Nano Letters</i> , 2009 , 9, 366-76 | 11.5 | 59 |
| 155 | Synthesis and magnetic properties of Co nanorod superlattices. <i>Materials Science and Engineering C</i> , 2007 , 27, 1162-1166 | 8.3 | 58 |
| 154 | Charge Transport and Electrochemical Properties of Colloidal Greigite (Fe ₃ S ₄) Nanoplatelets. <i>Chemistry of Materials</i> , 2011 , 23, 3762-3768 | 9.6 | 57 |
| 153 | Oriented magnetic nanowires with high coercivity. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5696 | | 57 |
| 152 | Confinement in Oriented Mesopores Induces Piezoelectric Behavior of Polymeric Nanowires. <i>Chemistry of Materials</i> , 2012 , 24, 4215-4221 | 9.6 | 55 |
| 151 | The big impact of a small detail: cobalt nanocrystal polymorphism as a result of precursor addition rate during stock solution preparation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17922-31 | 16.4 | 54 |
| 150 | Structural and magnetic characterization of synthetic ferrihydrite nanoparticles. <i>Materials Chemistry and Physics</i> , 2009 , 113, 349-355 | 4.4 | 54 |
| 149 | Nanosized Iron Oxide Particles Entrapped in Pseudo-Single Crystals of β -Cyclodextrin. <i>Chemistry of Materials</i> , 2004 , 16, 2016-2020 | 9.6 | 54 |
| 148 | An original growth mode of MWCNTs on alumina supported iron catalysts. <i>Journal of Catalysis</i> , 2009 , 263, 345-358 | 7.3 | 53 |
| 147 | Ultrasmall iron nanoparticles: Effect of size reduction on anisotropy and magnetization. <i>Journal of Applied Physics</i> , 2008 , 103, 07D521 | 2.5 | 53 |
| 146 | Synthesis and microstructure of manganese ferrite colloidal nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 5074-83 | 3.6 | 52 |
| 145 | Hierarchical Porous Silica Films with Ultralow Refractive Index. <i>Chemistry of Materials</i> , 2009 , 21, 2055-2061 | | 51 |
| 144 | Influence of Metal Content on Size, Dispersion, and Magnetic Properties of Iron-Cobalt Alloy Nanoparticles Embedded in Silica Matrix. <i>Chemistry of Materials</i> , 2004 , 16, 5659-5663 | 9.6 | 50 |
| 143 | Manganese doped-iron oxide nanoparticle clusters and their potential as agents for magnetic resonance imaging and hyperthermia. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16848-55 | 3.6 | 49 |
| 142 | Magnetic pH-responsive nanogels as multifunctional delivery tools for small interfering RNA (siRNA) molecules and iron oxide nanoparticles (IONPs). <i>Chemical Communications</i> , 2012 , 48, 2400-2 | 5.8 | 49 |

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| 141 | Acidic pH-responsive nanogels as smart cargo systems for the simultaneous loading and release of short oligonucleotides and magnetic nanoparticles. <i>Langmuir</i> , 2010 , 26, 10315-24 | 4 | 49 |
| 140 | Potent nematicidal activity of phthalaldehyde, salicylaldehyde, and cinnamic aldehyde against <i>Meloidogyne incognita</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 1794-803 | 5.7 | 48 |
| 139 | Dipolar rotors orderly aligned in mesoporous fluorinated organosilica architectures. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4773-7 | 16.4 | 48 |
| 138 | Magnetism of single-crystalline Co nanorods. <i>Applied Physics Letters</i> , 2009 , 95, 152504 | 3.4 | 48 |
| 137 | Maghemite polymer nanocomposites with modulated magnetic properties. <i>Acta Materialia</i> , 2007 , 55, 2201-2209 | 8.4 | 47 |
| 136 | Extremely large extinction efficiency and field enhancement in terahertz resonant dipole nanoantennas. <i>Optics Express</i> , 2011 , 19, 26088-94 | 3.3 | 46 |
| 135 | Growth of colloidal nanoparticles of group II VI and IV VI semiconductors on top of magnetic iron-platinum nanocrystals. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4311 | | 46 |
| 134 | Evolution of the Structure and Magnetic Properties of FeCo Nanoparticles in an Alumina Aerogel Matrix. <i>Chemistry of Materials</i> , 2004 , 16, 3130-3138 | 9.6 | 46 |
| 133 | A Microwave-Assisted Synthesis of Zinc Oxide Nanocrystals Finely Tuned for Biological Applications. <i>Nanomaterials</i> , 2019 , 9, | 5.4 | 44 |
| 132 | Identifying Spinel Phases in Nearly Monodisperse Iron Oxide Colloidal Nanocrystal. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18667-18675 | 3.8 | 43 |
| 131 | One-Pot Synthesis of Core-Shell FeRh Nanoparticles. <i>Chemistry of Materials</i> , 2007 , 19, 4624-4626 | 9.6 | 41 |
| 130 | Nanocomposite mesoporous ordered films for lab-on-chip intrinsic surface enhanced Raman scattering detection. <i>Nanoscale</i> , 2011 , 3, 3760-6 | 7.7 | 40 |
| 129 | Magnetic nanocarriers with tunable pH dependence for controlled loading and release of cationic and anionic payloads. <i>Advanced Materials</i> , 2011 , 23, 5645-50 | 24 | 40 |
| 128 | Colloidal PbTe-Au nanocrystal heterostructures. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1357-1366 | | 39 |
| 127 | ZnFe 2O_4 nanoparticles dispersed in a highly porous silica aerogel matrix: a magnetic study. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4843-52 | 3.6 | 34 |
| 126 | Magnetic and Structural Investigation of Highly Porous CoFe 2O_4 /BiO 2 Nanocomposite Aerogels. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 916-922 | 3.8 | 33 |
| 125 | Characterization of FeCo/BiO 2 Nanocomposite Films Prepared by Sol-Gel Dip Coating. <i>Chemistry of Materials</i> , 2003 , 15, 2201-2207 | 9.6 | 33 |
| 124 | Monolayers of gold nanostars with two near-IR LSPRs capable of additive photothermal response. <i>Chemical Communications</i> , 2015 , 51, 12928-30 | 5.8 | 32 |

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| 123 | Colloidal CdSe/Cu ₃ P/CdSe nanocrystal heterostructures and their evolution upon thermal annealing. <i>ACS Nano</i> , 2013 , 7, 3997-4005 | 16.7 | 32 |
| 122 | The structure of DNA by direct imaging. <i>Science Advances</i> , 2015 , 1, e1500734 | 14.3 | 31 |
| 121 | The influence of composition and porosity on the magnetic properties of FeCo-SiO ₂ nanocomposite aerogels. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 1043-52 | 3.6 | 29 |
| 120 | Investigation of the precursors of γ -Fe ₂ O ₃ in Fe ₂ O ₃ /SiO ₂ nanocomposites obtained through sol-gel. <i>Journal of Non-Crystalline Solids</i> , 2001 , 286, 64-73 | 3.9 | 29 |
| 119 | Phototransport in networks of tetrapod-shaped colloidal semiconductor nanocrystals. <i>Nanoscale</i> , 2010 , 2, 2171-9 | 7.7 | 28 |
| 118 | Solvent-free covalent functionalization of multi-walled carbon nanotubes and nanodiamond with diamines: Looking for cross-linking effects. <i>Applied Surface Science</i> , 2012 , 259, 465-476 | 6.7 | 27 |
| 117 | Nanochains Formation of Superparamagnetic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7249-7254 | 3.8 | 27 |
| 116 | Self-organization of mono- and bi-modal PbS nanocrystal populations in superlattices. <i>CrystEngComm</i> , 2011 , 13, 3988 | 3.3 | 27 |
| 115 | An organometallic approach for very small maghemite nanoparticles: synthesis, characterization, and magnetic properties. <i>ChemPhysChem</i> , 2008 , 9, 2035-41 | 3.2 | 27 |
| 114 | Near equiatomic FeCo nanocrystalline alloy embedded in an alumina aerogel matrix: microstructural features and related magnetic properties. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 23888-95 | 3.4 | 27 |
| 113 | Nanocrystalline iron-cobalt alloys supported on a silica matrix prepared by the sol-gel method. <i>Journal of Non-Crystalline Solids</i> , 2001 , 293-295, 1-9 | 3.9 | 27 |
| 112 | Structural and Magnetic Characterization of Co and Ni Silicate Hydroxides in Bulk and in Nanostructures within Silica Aerogels. <i>Chemistry of Materials</i> , 2009 , 21, 945-953 | 9.6 | 26 |
| 111 | Exfoliated graphene into highly ordered mesoporous titania films: highly performing nanocomposites from integrated processing. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 795-802 | 9.5 | 25 |
| 110 | Hybrid assemblies of fluorescent nanocrystals and membrane proteins in liposomes. <i>Langmuir</i> , 2014 , 30, 1599-608 | 4 | 25 |
| 109 | Tactile multisensing on flexible aluminum nitride. <i>Analyst, The</i> , 2012 , 137, 5260-4 | 5 | 24 |
| 108 | "Magnetic force microscopy and energy loss imaging of superparamagnetic iron oxide nanoparticles". <i>Scientific Reports</i> , 2011 , 1, 202 | 4.9 | 24 |
| 107 | Near Infrared Emission from Monomodal and Bimodal PbS Nanocrystal Superlattices. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 6143-6152 | 3.8 | 23 |
| 106 | Synthesis and plasmonic properties of monodisperse Au-Ag alloy nanoparticles of different compositions from a single-source organometallic precursor. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 2975 | 7.1 | 22 |

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| 105 | Writing and functionalisation of suspended DNA nanowires on superhydrophobic pillar arrays. <i>Small</i> , 2015 , 11, 134-40 | 11 | 22 |
| 104 | Iron/Cobalt Alloy Nanoparticles Embedded in an Alumina Xerogel Matrix. <i>Chemistry of Materials</i> , 2005 , 17, 6486-6491 | 9.6 | 22 |
| 103 | Ultrastructural Evidence for a Role of Astrocytes and Glycogen-Derived Lactate in Learning-Dependent Synaptic Stabilization. <i>Cerebral Cortex</i> , 2020 , 30, 2114-2127 | 5.1 | 22 |
| 102 | Dipolar Rotors Orderly Aligned in Mesoporous Fluorinated Organosilica Architectures. <i>Angewandte Chemie</i> , 2015 , 127, 4855-4859 | 3.6 | 21 |
| 101 | Cobalt Growth on the Tips of CdSe Nanorods. <i>Angewandte Chemie</i> , 2009 , 121, 1846-1849 | 3.6 | 21 |
| 100 | From trash to resource: recovered-Pd from spent three-way catalysts as a precursor of an effective photo-catalyst for H ₂ production. <i>Green Chemistry</i> , 2016 , 18, 2745-2752 | 10 | 20 |
| 99 | Cu ₂ S and Cu Nanocrystals as Local Sources of Copper in Thermally Activated In Situ Cation Exchange. <i>ACS Nano</i> , 2016 , 10, 2406-14 | 16.7 | 20 |
| 98 | Optical and electrical properties of colloidal (spherical Au)-(spinel ferrite nanorod) heterostructures. <i>Nanoscale</i> , 2011 , 3, 4647-54 | 7.7 | 20 |
| 97 | Pharmacological Modulation of AMPAR Rescues Intellectual Disability-Like Phenotype in Tm4sf2-/y Mice. <i>Cerebral Cortex</i> , 2017 , 27, 5369-5384 | 5.1 | 19 |
| 96 | In situ synthesis of cobalt nanoparticles in functionalized liquid crystalline polymers. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6988 | | 19 |
| 95 | Acquisition and expression of conditioned taste aversion differentially affects extracellular signal regulated kinase and glutamate receptor phosphorylation in rat prefrontal cortex and nucleus accumbens. <i>Frontiers in Behavioral Neuroscience</i> , 2014 , 8, 153 | 3.5 | 18 |
| 94 | Preparation of Mn, Ni, Co ferrite highly porous silica nanocomposite aerogels by an urea-assisted sol-gel procedure. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 1008-16 | 1.3 | 18 |
| 93 | Magnetic properties of maghemite nanoparticles in a polyvinylpyridine matrix. <i>Polyhedron</i> , 2003 , 22, 2457-2461 | 2.7 | 18 |
| 92 | EELS investigation of FeCo/SiO ₂ nanocomposites. <i>Journal of Microscopy</i> , 2003 , 210, 80-8 | 1.9 | 18 |
| 91 | Temperature and Size Dependence of the Optical Properties of Tetrapod-Shaped Colloidal Nanocrystals Exhibiting Type-II Transitions. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18094-18104 | 3.8 | 17 |
| 90 | Magnetic properties of nanocrystalline CoFe ₂ O ₄ dispersed in amorphous silica. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1561-1562 | 2.8 | 17 |
| 89 | Synthesis and characterisation of metal oxides nanoparticles entrapped in cyclodextrin. <i>Journal of Physics and Chemistry of Solids</i> , 2004 , 65, 719-722 | 3.9 | 17 |
| 88 | Dependence of the Ce(III)/Ce(IV) ratio on intracellular localization in ceria nanoparticles internalized by human cells. <i>Nanoscale</i> , 2017 , 9, 1527-1538 | 7.7 | 16 |

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|----|---|------|----|
| 87 | Non-Stoichiometric CoFe ₂ O ₄ Nanoparticles Supported on an Amorphous Silica Matrix. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 26, 463-466 | 2.3 | 16 |
| 86 | Organometallic Synthesis of ECoAl Nanoparticles and ECoAl/Al Nanoparticles and Their Behaviour upon Air Exposure. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 1599-1603 | 2.3 | 15 |
| 85 | Hybrid CoAu Nanorods: Controlling Au Nucleation and Location. <i>Angewandte Chemie</i> , 2007 , 119, 7209-7211 | 3.11 | 15 |
| 84 | Inhibiting pathologically active ADAM10 rescues synaptic and cognitive decline in Huntington's disease. <i>Journal of Clinical Investigation</i> , 2019 , 129, 2390-2403 | 15.9 | 15 |
| 83 | ROS and Lipid Droplet accumulation induced by high glucose exposure in healthy colon and Colorectal Cancer Stem Cells. <i>Genes and Diseases</i> , 2020 , 7, 620-635 | 6.6 | 15 |
| 82 | Laboratory injection molder for the fabrication of polymeric porous poly-epsilon-caprolactone scaffolds for preliminary mesenchymal stem cells tissue engineering applications. <i>Microelectronic Engineering</i> , 2017 , 175, 12-16 | 2.5 | 14 |
| 81 | Nanocomposite pattern-mediated magnetic interactions for localized deposition of nanomaterials. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 7253-7 | 9.5 | 14 |
| 80 | EDS, HRTEM/STEM, and X-ray Absorption Spectroscopy Studies of Co-Substituted Maghemite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9496-9506 | 3.8 | 14 |
| 79 | Crystallization of TiO ₂ Nanotubes by In Situ Heating TEM. <i>Nanomaterials</i> , 2018 , 8, | 5.4 | 13 |
| 78 | Synthesis of reduced-size gold nanostars and internalization in SH-SY5Y cells. <i>Journal of Colloid and Interface Science</i> , 2017 , 505, 1055-1064 | 9.3 | 13 |
| 77 | IronCobalt nanocrystalline alloy supported on a cubic mesostructured silica matrix: FeCo/SBA-16 porous nanocomposites. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 3489-3501 | 2.3 | 13 |
| 76 | Preparation and Characterization of FeCo-Al ₂ O ₃ and Al ₂ O ₃ Aerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2004 , 31, 83-86 | 2.3 | 13 |
| 75 | Complex electrical spiking activity in resistive switching nanostructured Au two-terminal devices. <i>Nanotechnology</i> , 2020 , 31, 234001 | 3.4 | 12 |
| 74 | Assembly of a photosynthetic reaction center with ABA tri-block polymersomes: highlights on protein localization. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 1844-52 | 4.2 | 11 |
| 73 | Direct sol-gel synthesis of doped cubic mesoporous SBA-16 monoliths. <i>Microporous and Mesoporous Materials</i> , 2014 , 194, 157-166 | 5.3 | 11 |
| 72 | Optical, Electrochemical, and Structural Properties of Er-Doped Porous Silicon. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11256-11260 | 3.8 | 11 |
| 71 | Cubic Mesoporous Silica (SBA-16) Prepared Using Butanol as the Co-Surfactant: A General Matrix for the Preparation of FeCo-SiO ₂ Nanocomposites. <i>ChemPlusChem</i> , 2013 , 78, 364-374 | 2.8 | 11 |
| 70 | Rod-shaped nanostructures based on superparamagnetic nanocrystals as viscosity sensors in liquid. <i>Journal of Applied Physics</i> , 2011 , 110, 064907 | 2.5 | 11 |

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| 69 | Unexpected Insights about Cation-Exchange on Metal Oxide Nanoparticles and Its Effect on Their Magnetic Behavior. <i>Chemistry of Materials</i> , 2018 , 30, 8099-8112 | 9.6 | 11 |
| 68 | Determining the maximum lanthanum incorporation in the fluorite structure of La-doped ceria nanocubes for enhanced redox ability.. <i>RSC Advances</i> , 2019 , 9, 6745-6751 | 3.7 | 10 |
| 67 | The spontaneous formation and plasmonic properties of ultrathin gold-silver nanorods and nanowires stabilized in oleic acid. <i>Chemical Communications</i> , 2015 , 51, 16691-4 | 5.8 | 10 |
| 66 | Epitaxial growth and characterization of La ₂ Zr ₂ O ₇ multilayers on biaxially textured NiW substrate by chemical solution deposition under highly reducing conditions. <i>Thin Solid Films</i> , 2013 , 531, 491-498 | 2.2 | 10 |
| 65 | Doping porous silicon with erbium: pores filling as a method to limit the Er-clustering effects and increasing its light emission. <i>Scientific Reports</i> , 2017 , 7, 5957 | 4.9 | 10 |
| 64 | Synthesizing Iron Oxide Nanostructures: The Polyethylenimine (PEI) Role. <i>Crystals</i> , 2017 , 7, 22 | 2.3 | 10 |
| 63 | Tuning light emission of PbS nanocrystals from infrared to visible range by cation exchange. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 055007 | 7.1 | 10 |
| 62 | Quantum Dots: Synthesis and Characterization 2011 , 219-270 | | 10 |
| 61 | Structural Investigation of Three-Dimensional Self-Assembled PbS Binary Superlattices. <i>Crystal Growth and Design</i> , 2010 , 10, 3770-3774 | 3.5 | 10 |
| 60 | Electrochemical impedance spectroscopy of oxidized porous silicon. <i>Thin Solid Films</i> , 2014 , 556, 311-316 | 2.2 | 9 |
| 59 | Meso-Crystallographic Study of a Three-Dimensional Self-Assembled Bimodal Nanocrystal Superlattice. <i>Crystal Growth and Design</i> , 2012 , 12, 1970-1976 | 3.5 | 9 |
| 58 | Ag surface segregation in nanoporous Au catalysts during CO oxidation. <i>Scientific Reports</i> , 2018 , 8, 15208 | 4.9 | 9 |
| 57 | Mesoporous Strontium-Doped Phosphate-Based Sol-Gel Glasses for Biomedical Applications. <i>Frontiers in Chemistry</i> , 2020 , 8, 249 | 5 | 8 |
| 56 | A structural study of Sr metaphosphate glass by anomalous X-ray scattering and EXAFS spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 1998 , 232-234, 607-612 | 3.9 | 8 |
| 55 | Lanthanide-Doped Scandia and Yttria Cathodoluminescent Films: A Comparative Study. <i>Chemistry of Materials</i> , 2008 , 20, 5666-5674 | 9.6 | 7 |
| 54 | Complex structures arising from the self-assembly of a simple organic salt. <i>Nature</i> , 2021 , 590, 275-278 | 50.4 | 7 |
| 53 | Imaging and structural studies of DNA-protein complexes and membrane ion channels. <i>Nanoscale</i> , 2017 , 9, 2768-2777 | 7.7 | 6 |
| 52 | 3D Ruthenium Nanoparticle Covalent Assemblies from Polymantane Ligands for Confined Catalysis. <i>Chemistry of Materials</i> , 2020 , 32, 2365-2378 | 9.6 | 6 |

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|----|---|-----|---|
| 51 | Evolution of nanomechanical properties and crystallinity of individual titanium dioxide nanotube resonators. <i>Nanotechnology</i> , 2018 , 29, 085702 | 3.4 | 6 |
| 50 | Au-Assisted Growth of Anisotropic and Epitaxial CdSe Colloidal Nanocrystals via in Situ Dismantling of Quantum Dots. <i>Chemistry of Materials</i> , 2015 , 27, 1656-1664 | 9.6 | 6 |
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