Andrea Falqui

List of Publications by Year in Descending Order

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	In situ/Operando Techniques for Characterization of Supported Metal Single-Atom Catalysts **2022**, 199-239		
193	Thermally stable surfactant-free ceria nanocubes in silica aerogel. *Journal of Colloid and Interface Science*, **2021**, 583, 376-384	9.3	2
192	Complex structures arising from the self-assembly of a simple organic salt. *Nature*, **2021**, 590, 275-278	50.4	7
191	Oxidative Stress Boosts the Uptake of Cerium Oxide Nanoparticles by Changing Brain Endothelium Microvilli Pattern. *Antioxidants*, **2021**, 10,	7.1	1
190	ADAM10 hyperactivation acts on piccolo to deplete synaptic vesicle stores in Huntington disease. *Human Molecular Genetics*, **2021**, 30, 1175-1187	5.6	2
189	Fabrication of Nanoporous Al by Vapor-Phase Dealloying: Morphology Features, Mechanical Properties and Model Predictions. *Applied Sciences (Switzerland)*, **2021**, 11, 6639	2.6	0
188	Highly efficient hydroamination of phenylacetylenes with anilines catalysed by gold nanoparticles embedded in nanoporous polymer matrix: Insight into the reaction mechanism by kinetic and DFT investigations. *Journal of Catalysis*, **2021**, 400, 71-82	7.3	3
187	Microvilli Adhesion: An Alternative Route for Nanoparticle Cell Internalization. *ACS Nano*, **2021**, 15, 15803-15814	16.7	24
186	Mesoporous Strontium-Doped Phosphate-Based Sol-Gel Glasses for Biomedical Applications. *Frontiers in Chemistry*, **2020**, 8, 249	5	8
185	Surface Compositional Change of Iron Oxide Porous Nanorods: A Route for Tuning their Magnetic Properties. *Molecules*, **2020**, 25,	4.8	1
184	Complex electrical spiking activity in resistive switching nanostructured Au two-terminal devices. *Nanotechnology*, **2020**, 31, 234001	3.4	12
183	3D Ruthenium Nanoparticle Covalent Assemblies from Polymantane Ligands for Confined Catalysis. *Chemistry of Materials*, **2020**, 32, 2365-2378	9.6	6
182	In Situ TEM Crystallization of Amorphous Iron Particles. *Crystals*, **2020**, 10, 41	2.3	1
181	Striatal infusion of cholesterol promotes dose-dependent behavioral benefits and exerts disease-modifying effects in Huntington disease mice. *EMBO Molecular Medicine*, **2020**, 12, e12519	12	4
180	Ultrastructural Evidence for a Role of Astrocytes and Glycogen-Derived Lactate in Learning-Dependent Synaptic Stabilization. *Cerebral Cortex*, **2020**, 30, 2114-2127	5.1	22
179	NIR multiphoton ablation of cancer cells, fluorescence quenching and cellular uptake of dansyl-glutathione-coated gold nanoparticles. *Scientific Reports*, **2020**, 10, 11380	4.9	5
178	2D and 3D Ruthenium Nanoparticle Covalent Assemblies for Phenyl Acetylene Hydrogenation. *European Journal of Inorganic Chemistry*, **2020**, 2020, 4069-4082	2.3	

177	Increased Antibacterial and Antibiofilm Properties of Silver Nanoparticles Using Silver Fluoride as Precursor. *Molecules*, **2020**, 25,	4.8	3
176	Monitoring the insertion of Pt into CuSe nanocrystals: a combined structural and chemical approach for the analysis of new ternary phases. *Nanoscale*, **2020**, 12, 16627-16638	7.7	1
175	Anomalous electrical conduction and negative temperature coefficient of resistance in nanostructured gold resistive switching films. *Scientific Reports*, **2020**, 10, 19613	4.9	5
174	ROS and Lipid Droplet accumulation induced by high glucose exposure in healthy colon and Colorectal Cancer Stem Cells. *Genes and Diseases*, **2020**, 7, 620-635	6.6	15
173	Occupational Fine/Ultrafine Particles and Noise Exposure in Aircraft Personnel Operating in Airport Taxiway. *Environments - MDPI*, **2019**, 6, 35	3.2	4
172	Determining the maximum lanthanum incorporation in the fluorite structure of La-doped ceria nanocubes for enhanced redox ability.. *RSC Advances*, **2019**, 9, 6745-6751	3.7	10
171	Developments of cation-exchange by in situ electron microscopy. *Advances in Physics: X*, **2019**, 4, 1633957	3.1	
170	Inhibiting pathologically active ADAM10 rescues synaptic and cognitive decline in Huntington disease. *Journal of Clinical Investigation*, **2019**, 129, 2390-2403	15.9	15
169	A Microwave-Assisted Synthesis of Zinc Oxide Nanocrystals Finely Tuned for Biological Applications. *Nanomaterials*, **2019**, 9,	5.4	44
168	Evolution of nanomechanical properties and crystallinity of individual titanium dioxide nanotube resonators. *Nanotechnology*, **2018**, 29, 085702	3.4	6
167	Dynamics of oxide growth on Pt nanoparticles electrodes in the presence of competing halides by operando energy dispersive X-Ray absorption spectroscopy. *Electrochimica Acta*, **2018**, 270, 378-386	6.7	5
166	Crystallization of TiO Nanotubes by In Situ Heating TEM. *Nanomaterials*, **2018**, 8,	5.4	13
165	Ag surface segregation in nanoporous Au catalysts during CO oxidation. *Scientific Reports*, **2018**, 8, 15208	4.9	9
164	Unexpected Insights about Cation-Exchange on Metal Oxide Nanoparticles and Its Effect on Their Magnetic Behavior. *Chemistry of Materials*, **2018**, 30, 8099-8112	9.6	11
163	Imaging and structural studies of DNA-protein complexes and membrane ion channels. *Nanoscale*, **2017**, 9, 2768-2777	7.7	6
162	Dependence of the Ce(iii)/Ce(iv) ratio on intracellular localization in ceria nanoparticles internalized by human cells. *Nanoscale*, **2017**, 9, 1527-1538	7.7	16
161	Laboratory injection molder for the fabrication of polymeric porous poly-epsilon-caprolactone scaffolds for preliminary mesenchymal stem cells tissue engineering applications. *Microelectronic Engineering*, **2017**, 175, 12-16	2.5	14
160	Correlating Fluorescence and High-Resolution Scanning Electron Microscopy (HRSEM) for the study of GABA receptor clustering induced by inhibitory synaptic plasticity. *Scientific Reports*, **2017**, 7, 13768	4.9	5

159	Pharmacological Modulation of AMPAR Rescues Intellectual Disability-Like Phenotype in Tm4sf2-/y Mice. *Cerebral Cortex*, **2017**, 27, 5369-5384	5.1	19
158	An Overview of Lipid Droplets in Cancer and Cancer Stem Cells. *Stem Cells International*, **2017**, 2017, 1656053	5	121
157	From structure topology to chemical composition. XXIII. Revision of the crystal structure and chemical formula of zvyaginite, Na2ZnTiNb2(Si2O7)2O2(OH)2(H2O)4, a seidozerite-supergroup mineral from the Lovozero alkaline massif, Kola peninsula, Russia. *Mineralogical Magazine*, **2017**, 81, 1533-1550	1.7	5
156	Building Composite Iron Manganese Oxide Flowerlike Nanostructures: A Detailed Magnetic Study. *Journal of Physical Chemistry C*, **2017**, 121, 17005-17015	3.8	4
155	Doping porous silicon with erbium: pores filling as a method to limit the Er-clustering effects and increasing its light emission. *Scientific Reports*, **2017**, 7, 5957	4.9	10
154	Synthesis of reduced-size gold nanostars and internalization in SH-SY5Y cells. *Journal of Colloid and Interface Science*, **2017**, 505, 1055-1064	9.3	13
153	Synthesizing Iron Oxide Nanostructures: The Polyethylenenemine (PEI) Role. *Crystals*, **2017**, 7, 22	2.3	10
152	The New Youth of the In Situ Transmission Electron Microscopy **2016**,		2
151	Manganese doped-iron oxide nanoparticle clusters and their potential as agents for magnetic resonance imaging and hyperthermia. *Physical Chemistry Chemical Physics*, **2016**, 18, 16848-55	3.6	49
150	From trash to resource: recovered-Pd from spent three-way catalysts as a precursor of an effective photo-catalyst for H2 production. *Green Chemistry*, **2016**, 18, 2745-2752	10	20
149	CuSe and Cu Nanocrystals as Local Sources of Copper in Thermally Activated In Situ Cation Exchange. *ACS Nano*, **2016**, 10, 2406-14	16.7	20
148	Dipolar Rotors Orderly Aligned in Mesoporous Fluorinated Organosilica Architectures. *Angewandte Chemie*, **2015**, 127, 4855-4859	3.6	21
147	Novel Plasmonic Probes and Smart Superhydrophobic Devices, New Tools for Forthcoming Spectroscopies at the Nanoscale. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2015**, 209-235	0.2	1
146	Monolayers of gold nanostars with two near-IR LSPRs capable of additive photothermal response. *Chemical Communications*, **2015**, 51, 12928-30	5.8	32
145	From single molecule to suspended DNA nanowires. *Materials Today*, **2015**, 18, 238-239	21.8	
144	Assembly of a photosynthetic reaction center with ABA tri-block polymersomes: highlights on protein localization. *Photochemical and Photobiological Sciences*, **2015**, 14, 1844-52	4.2	11
143	Functionalization of strongly interacting magnetic nanocubes with (thermo)responsive coating and their application in hyperthermia and heat-triggered drug delivery. *ACS Applied Materials & Interfaces*, **2015**, 7, 10132-45	9.5	78
142	The spontaneous formation and plasmonic properties of ultrathin gold-silver nanorods and nanowires stabilized in oleic acid. *Chemical Communications*, **2015**, 51, 16691-4	5.8	10

141	The structure of DNA by direct imaging. *Science Advances*, **2015**, 1, e1500734	14.3	31
140	Silane-coated magnetic nanoparticles with surface thiol functions for conjugation with gold nanostars. *Dalton Transactions*, **2015**, 44, 21088-98	4.3	4
139	Lipid droplets: a new player in colorectal cancer stem cells unveiled by spectroscopic imaging. *Stem Cells*, **2015**, 33, 35-44	5.8	138
138	Titelbild: Dipolar Rotors Orderly Aligned in Mesoporous Fluorinated Organosilica Architectures (Angew. Chem. 16/2015). *Angewandte Chemie*, **2015**, 127, 4763-4763	3.6	
137	A facile method to compare EFTEM maps obtained from materials changing composition over time. *Microscopy Research and Technique*, **2015**, 78, 1090-7	2.8	1
136	Correlative scanning electron and confocal microscopy imaging of labeled cells coated by indium-tin-oxide. *Microscopy Research and Technique*, **2015**, 78, 433-43	2.8	5
135	Thermally Driven Cation Exchange at Solid State between Cu2Se and CdSe Nanocrystals: an In-Situ TEM Study. *Microscopy and Microanalysis*, **2015**, 21, 947-948	0.5	
134	Fabrication, Mercury Intrusion Porosimetry Characterization and In Vitro Qualitative Analysis of Biocompatibility of Various Porosities Polycaprolactone Scaffolds. *Journal of Tissue Science & Engineering*, **2015**, 06,		3
133	Indium-Tin-Oxide (ITO) as Stable and Effective Coating Material for Correlative Confocal and Immuno-Scanning Electron Microscopy Studies. *Microscopy and Microanalysis*, **2015**, 21, 1501-1502	0.5	1
132	Tuning light emission of PbS nanocrystals from infrared to visible range by cation exchange. *Science and Technology of Advanced Materials*, **2015**, 16, 055007	7.1	10
131	Writing and functionalisation of suspended DNA nanowires on superhydrophobic pillar arrays. *Small*, **2015**, 11, 134-40	11	22
130	Dipolar rotors orderly aligned in mesoporous fluorinated organosilica architectures. *Angewandte Chemie - International Edition*, **2015**, 54, 4773-7	16.4	48
129	Au-Assisted Growth of Anisotropic and Epitaxial CdSe Colloidal Nanocrystals via in Situ Dismantling of Quantum Dots. *Chemistry of Materials*, **2015**, 27, 1656-1664	9.6	6
128	Synthesis and plasmonic properties of monodisperse Au□Ag alloy nanoparticles of different compositions from a single-source organometallic precursor. *Journal of Materials Chemistry C*, **2014**, 2, 2975	7.1	22
127	Electrochemical impedance spectroscopy of oxidized porous silicon. *Thin Solid Films*, **2014**, 556, 311-316	2.2	9
126	ZnFe2O4 nanoparticles dispersed in a highly porous silica aerogel matrix: a magnetic study. *Physical Chemistry Chemical Physics*, **2014**, 16, 4843-52	3.6	34
125	Exfoliated graphene into highly ordered mesoporous titania films: highly performing nanocomposites from integrated processing. *ACS Applied Materials & Interfaces*, **2014**, 6, 795-802	9.5	25
124	Controlling the Er content of porous silicon using the doping current intensity. *Nanoscale Research Letters*, **2014**, 9, 332	5	3

123	Hybrid assemblies of fluorescent nanocrystals and membrane proteins in liposomes. *Langmuir*, **2014**, 30, 1599-608	4	25
122	Direct sol–gel synthesis of doped cubic mesoporous SBA-16 monoliths. *Microporous and Mesoporous Materials*, **2014**, 194, 157-166	5.3	11
121	Electrochemical doping of mesoporous silicon with Er: the effect of the current intensity. *Applied Surface Science*, **2014**, 311, 252-257	6.7	1
120	Acquisition and expression of conditioned taste aversion differentially affects extracellular signal regulated kinase and glutamate receptor phosphorylation in rat prefrontal cortex and nucleus accumbens. *Frontiers in Behavioral Neuroscience*, **2014**, 8, 153	3.5	18
119	Potent nematicidal activity of phthalaldehyde, salicylaldehyde, and cinnamic aldehyde against Meloidogyne incognita. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 1794-803	5.7	48
118	Study of the laser cleaning on plaster sculptures. The effect of laser irradiation on the surfaces. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2013**, 114, 917-928	0.7	5
117	Nanocomposite pattern-mediated magnetic interactions for localized deposition of nanomaterials. *ACS Applied Materials & Interfaces*, **2013**, 5, 7253-7	9.5	14
116	Biomedical tools based on magnetic nanoparticles **2013**,		1
115	Colloidal synthesis of cuprite (Cu2O) octahedral nanocrystals and their electrochemical lithiation. *ACS Applied Materials & Interfaces*, **2013**, 5, 2745-51	9.5	62
114	Epitaxial growth and characterization of La2Zr2O7 multilayers on biaxially textured NiW substrate by chemical solution deposition under highly reducing conditions. *Thin Solid Films*, **2013**, 531, 491-498	2.2	10
113	Cubic Mesoporous Silica (SBA-16) Prepared Using Butanol as the Co-Surfactant: A General Matrix for the Preparation of FeCo-SiO2 Nanocomposites. *ChemPlusChem*, **2013**, 78, 364-374	2.8	11
112	Triton X-100 for three-plasmon gold nanostars with two photothermally active NIR (near IR) and SWIR (short-wavelength IR) channels. *Chemical Communications*, **2013**, 49, 6265-7	5.8	85
111	EDS, HRTEM/STEM, and X-ray Absorption Spectroscopy Studies of Co-Substituted Maghemite Nanoparticles. *Journal of Physical Chemistry C*, **2013**, 117, 9496-9506	3.8	14
110	Colloidal CdSe/Cu3P/CdSe nanocrystal heterostructures and their evolution upon thermal annealing. *ACS Nano*, **2013**, 7, 3997-4005	16.7	32
109	Immunocytochemistry, electron tomography, and energy dispersive X-ray spectroscopy (EDXS) on cryosections of human cancer cells doped with stimuli responsive polymeric nanogels loaded with iron oxide nanoparticles. *Methods in Molecular Biology*, **2013**, 1025, 179-98	1.4	5
108	Carbon nanotubes synthesis over FeCo-based catalysts supported on SBA-16. *Nanopages*, **2013**, 8, 1-8	0	2
107	Direct imaging of DNA fibers: the visage of double helix. *Nano Letters*, **2012**, 12, 6453-8	11.5	59
106	Near Infrared Emission from Monomodal and Bimodal PbS Nanocrystal Superlattices. *Journal of Physical Chemistry C*, **2012**, 116, 6143-6152	3.8	23

105	Structural characterization of FeCo alloy nanoparticles embedded in SBA-16 and their catalytic application for carbon nanotubes production. *RSC Advances*, **2012**, 2, 7886	3.7	6
104	Tactile multisensing on flexible aluminum nitride. *Analyst, The*, **2012**, 137, 5260-4	5	24
103	Confinement in Oriented Mesopores Induces Piezoelectric Behavior of Polymeric Nanowires. *Chemistry of Materials*, **2012**, 24, 4215-4221	9.6	55
102	The big impact of a small detail: cobalt nanocrystal polymorphism as a result of precursor addition rate during stock solution preparation. *Journal of the American Chemical Society*, **2012**, 134, 17922-31	16.4	54
101	Optical, Electrochemical, and Structural Properties of Er-Doped Porous Silicon. *Journal of Physical Chemistry C*, **2012**, 116, 11256-11260	3.8	11
100	Solvent-free covalent functionalization of multi-walled carbon nanotubes and nanodiamond with diamines: Looking for cross-linking effects. *Applied Surface Science*, **2012**, 259, 465-476	6.7	27
99	Characterization of Er in porous Si. *Nanoscale Research Letters*, **2012**, 7, 376	5	5
98	Magnetic pH-responsive nanogels as multifunctional delivery tools for small interfering RNA (siRNA) molecules and iron oxide nanoparticles (IONPs). *Chemical Communications*, **2012**, 48, 2400-2	5.8	49
97	Size-tunable, hexagonal plate-like Cu3P and Janus-like Cu-Cu3P nanocrystals. *ACS Nano*, **2012**, 6, 32-41	16.7	82
96	Controlled synthesis of gold nanostars by using a zwitterionic surfactant. *Chemistry - A European Journal*, **2012**, 18, 9381-90	4.8	69
95	Meso-Crystallographic Study of a Three-Dimensional Self-Assembled Bimodal Nanocrystal Superlattice. *Crystal Growth and Design*, **2012**, 12, 1970-1976	3.5	9
94	Temperature and Size Dependence of the Optical Properties of Tetrapod-Shaped Colloidal Nanocrystals Exhibiting Type-II Transitions. *Journal of Physical Chemistry C*, **2011**, 115, 18094-18104	3.8	17
93	Monodispersed and size-controlled multibranched gold nanoparticles with nanoscale tuning of surface morphology. *Nanoscale*, **2011**, 3, 2227-32	7.7	85
92	"Nanohybrids" based on pH-responsive hydrogels and inorganic nanoparticles for drug delivery and sensor applications. *Nano Letters*, **2011**, 11, 3136-41	11.5	92
91	Charge Transport and Electrochemical Properties of Colloidal Greigite (Fe3S4) Nanoplatelets. *Chemistry of Materials*, **2011**, 23, 3762-3768	9.6	57
90	Sequential cation exchange in nanocrystals: preservation of crystal phase and formation of metastable phases. *Nano Letters*, **2011**, 11, 4964-70	11.5	264
89	Nanochains Formation of Superparamagnetic Nanoparticles. *Journal of Physical Chemistry C*, **2011**, 115, 7249-7254	3.8	27
88	Extremely large extinction efficiency and field enhancement in terahertz resonant dipole nanoantennas. *Optics Express*, **2011**, 19, 26088-94	3.3	46

87	Reversible tunability of the near-infrared valence band plasmon resonance in Cu(2-x)Se nanocrystals. *Journal of the American Chemical Society*, **2011**, 133, 11175-80	16.4	375
86	Quantum Dots: Synthesis and Characterization **2011**, 219-270		10
85	Optical and electrical properties of colloidal (spherical Au)-(spinel ferrite nanorod) heterostructures. *Nanoscale*, **2011**, 3, 4647-54	7.7	20
84	Nanocomposite mesoporous ordered films for lab-on-chip intrinsic surface enhanced Raman scattering detection. *Nanoscale*, **2011**, 3, 3760-6	7.7	40
83	One-step preparation of FeCo nanoparticles in a SBA-16 matrix as catalysts for carbon nanotubes growth. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 6735-46	1.3	6
82	Rod-shaped nanostructures based on superparamagnetic nanocrystals as viscosity sensors in liquid. *Journal of Applied Physics*, **2011**, 110, 064907	2.5	11
81	Influence of particles alloying on the performances of PtRu/CNT catalysts for selective hydrogenation. *Journal of Catalysis*, **2011**, 278, 59-70	7.3	74
80	Three-dimensional morphology of iron oxide nanoparticles with reactive concave surfaces. A compressed sensing-electron tomography (CS-ET) approach. *Nano Letters*, **2011**, 11, 4666-73	11.5	133
79	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	9.6	116
78	Iron–cobalt nanocrystalline alloy supported on a cubic mesostructured silica matrix: FeCo/SBA-16 porous nanocomposites. *Journal of Nanoparticle Research*, **2011**, 13, 3489-3501	2.3	13
77	In Vivo toxicity assessment of gold nanoparticles in Drosophila melanogaster. *Nano Research*, **2011**, 4, 405-413	10	69
76	Magnetic nanocarriers with tunable pH dependence for controlled loading and release of cationic and anionic payloads. *Advanced Materials*, **2011**, 23, 5645-50	24	40
75	Synthesis of branched Au nanoparticles with tunable near-infrared LSPR using a zwitterionic surfactant. *Chemical Communications*, **2011**, 47, 1315-7	5.8	72
74	Self-organization of mono- and bi-modal PbS nanocrystal populations in superlattices. *CrystEngComm*, **2011**, 13, 3988	3.3	27
73	In situ synthesis of cobalt nanoparticles in functionalized liquid crystalline polymers. *Journal of Materials Chemistry*, **2011**, 21, 6988		19
72	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
71	Synthesis and characterization of multiwalled carbon nanotube/FeCo nanocomposites. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 2215-25	1.3	5
70	"Magnetic force microscopy and energy loss imaging of superparamagnetic iron oxide nanoparticles". *Scientific Reports*, **2011**, 1, 202	4.9	24

69	Quantum Dots: Synthesis and Characterization **2011**, 17-60		1
68	Preparation of Mn, Ni, Co ferrite highly porous silica nanocomposite aerogels by an urea-assisted sol-gel procedure. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 1008-16	1.3	18
67	Assembly of colloidal semiconductor nanorods in solution by depletion attraction. *Nano Letters*, **2010**, 10, 743-9	11.5	222
66	Enhancement of neurite outgrowth in neuronal-like cells following boron nitride nanotube-mediated stimulation. *ACS Nano*, **2010**, 4, 6267-77	16.7	160
65	Epitaxial CdSe-Au nanocrystal heterostructures by thermal annealing. *Nano Letters*, **2010**, 10, 3028-36	11.5	136
64	Structural Investigation of Three-Dimensional Self-Assembled PbS Binary Superlattices. *Crystal Growth and Design*, **2010**, 10, 3770-3774	3.5	10
63	Acidic pH-responsive nanogels as smart cargo systems for the simultaneous loading and release of short oligonucleotides and magnetic nanoparticles. *Langmuir*, **2010**, 26, 10315-24	4	49
62	Dynamical formation of spatially localized arrays of aligned nanowires in plastic films with magnetic anisotropy. *ACS Nano*, **2010**, 4, 1873-8	16.7	78
61	Colloidal PbTe□Au nanocrystal heterostructures. *Journal of Materials Chemistry*, **2010**, 20, 1357-1366		39
60	Synthesis and microstructure of manganese ferrite colloidal nanocrystals. *Physical Chemistry Chemical Physics*, **2010**, 12, 5074-83	3.6	52
59	Phototransport in networks of tetrapod-shaped colloidal semiconductor nanocrystals. *Nanoscale*, **2010**, 2, 2171-9	7.7	28
58	A transmission electron microscopy study of CoFe2O4 ferrite nanoparticles in silica aerogel matrix using HREM and STEM imaging and EDX spectroscopy and EELS. *Microscopy and Microanalysis*, **2010** , 16, 200-9	0.5	4
57	Organometallic Synthesis of □CoAl Nanoparticles and □CoAl/Al Nanoparticles and Their Behaviour upon Air Exposure. *European Journal of Inorganic Chemistry*, **2010**, 2010, 1599-1603	2.3	15
56	Electron microscopy studies of electron-beam sensitive PbTe-based nanostructures. *Microscopy Research and Technique*, **2010**, 73, 944-51	2.8	2
55	Magnetism of single-crystalline Co nanorods. *Applied Physics Letters*, **2009**, 95, 152504	3.4	48
54	Structural and magnetic characterization of synthetic ferrihydrite nanoparticles. *Materials Chemistry and Physics*, **2009**, 113, 349-355	4.4	54
53	An original growth mode of MWCNTs on alumina supported iron catalysts. *Journal of Catalysis*, **2009**, 263, 345-358	7.3	53
52	Synthesis and Structure□Property Correlation in Shape-Controlled ZnO Nanoparticles Prepared by Chemical Vapor Synthesis and their Application in Dye-Sensitized Solar Cells. *Advanced Functional Materials*, **2009**, 19, 875-886	15.6	67

51	End-to-End Assembly of Shape-Controlled Nanocrystals via a Nanowelding Approach Mediated by Gold Domains. *Advanced Materials*, **2009**, 21, 550-4	24	106
50	Cobalt Growth on the Tips of CdSe Nanorods. *Angewandte Chemie*, **2009**, 121, 1846-1849	3.6	21
49	Cobalt growth on the tips of CdSe nanorods. *Angewandte Chemie - International Edition*, **2009**, 48, 1814-7	16.4	89
48	A Structural and Magnetic Investigation of the Inversion Degree in Ferrite Nanocrystals MFe2O4 (M = Mn, Co, Ni). *Journal of Physical Chemistry C*, **2009**, 113, 8606-8615	3.8	356
47	Hierarchical Porous Silica Films with Ultralow Refractive Index. *Chemistry of Materials*, **2009**, 21, 2055-2061	9.6	51
46	Iron nanoparticle growth in organic superstructures. *Journal of the American Chemical Society*, **2009**, 131, 549-57	16.4	109
45	Structural and Magnetic Characterization of Co and Ni Silicate Hydroxides in Bulk and in Nanostructures within Silica Aerogels. *Chemistry of Materials*, **2009**, 21, 945-953	9.6	26
44	Fluorescent asymmetrically cobalt-tipped CdSe@CdS core@shell nanorod heterostructures exhibiting room-temperature ferromagnetic behavior. *Journal of the American Chemical Society*, **2009**, 131, 12817-28	16.4	109
43	CdSe/CdS/ZnS double shell nanorods with high photoluminescence efficiency and their exploitation as biolabeling probes. *Journal of the American Chemical Society*, **2009**, 131, 2948-58	16.4	220
42	Exchange-coupled bimagnetic cobalt/iron oxide branched nanocrystal heterostructures. *Nano Letters*, **2009**, 9, 366-76	11.5	59
41	Identifying Spinel Phases in Nearly Monodisperse Iron Oxide Colloidal Nanocrystal. *Journal of Physical Chemistry C*, **2009**, 113, 18667-18675	3.8	43
40	A transmission electron microscopy study of Fe-Co alloy nanoparticles in silica aerogel matrix using HREM, EDX, and EELS. *Microscopy and Microanalysis*, **2009**, 15, 114-24	0.5	4
39	Ultrasmall iron nanoparticles: Effect of size reduction on anisotropy and magnetization. *Journal of Applied Physics*, **2008**, 103, 07D521	2.5	53
38	Oriented magnetic nanowires with high coercivity. *Journal of Materials Chemistry*, **2008**, 18, 5696		57
37	Supported ionic liquid phase catalysis on functionalized carbon nanotubes. *Chemical Communications*, **2008**, 4201-3	5.8	68
36	Growth of colloidal nanoparticles of group II–VI and IV–VI semiconductors on top of magnetic iron–platinum nanocrystals. *Journal of Materials Chemistry*, **2008**, 18, 4311		46
35	The influence of composition and porosity on the magnetic properties of FeCo-SiO2 nanocomposite aerogels. *Physical Chemistry Chemical Physics*, **2008**, 10, 1043-52	3.6	29
34	Lanthanide-Doped Scandia and Yttria Cathodoluminescent Films: A Comparative Study. *Chemistry of Materials*, **2008**, 20, 5666-5674	9.6	7

33	An organometallic approach for very small maghemite nanoparticles: synthesis, characterization, and magnetic properties. *ChemPhysChem*, **2008**, 9, 2035-41	3.2	27
32	One-pot synthesis and characterization of size-controlled bimagnetic FePt-iron oxide heterodimer nanocrystals. *Journal of the American Chemical Society*, **2008**, 130, 1477-87	16.4	165
31	Magnetic and Structural Investigation of Highly Porous CoFe2O4□SiO2Nanocomposite Aerogels. *Journal of Physical Chemistry C*, **2007**, 111, 916-922	3.8	33
30	One-Pot Synthesis of Core□Shell FeRh Nanoparticles. *Chemistry of Materials*, **2007**, 19, 4624-4626	9.6	41
29	Hybrid Co-Au nanorods: controlling Au nucleation and location. *Angewandte Chemie - International Edition*, **2007**, 46, 7079-81	16.4	77
28	Hybrid Co□Au Nanorods: Controlling Au Nucleation and Location. *Angewandte Chemie*, **2007**, 119, 7209-7211	3.6	15
27	Maghemite polymer nanocomposites with modulated magnetic properties. *Acta Materialia*, **2007**, 55, 2201-2209	8.4	47
26	Synthesis and magnetic properties of Co nanorod superlattices. *Materials Science and Engineering C*, **2007**, 27, 1162-1166	8.3	58
25	SYNTHESIS AND CHARACTERIZATION OF FeRh NANOPARTICLES. *Modern Physics Letters B*, **2007**, 21, 1153-1159	1.6	3
24	CoFe2O4 nanocrystalline powders prepared by citrate-gel methods: Synthesis, structure and magnetic properties. *Journal of Nanoparticle Research*, **2006**, 8, 255-267	2.3	86
23	Iron□Cobalt Alloy Nanoparticles Embedded in an Alumina Xerogel Matrix. *Chemistry of Materials*, **2005**, 17, 6486-6491	9.6	22
22	Low-temperature magnetic behavior of perovskite compounds PbFe(1/2)Ta(1/2)O3 and PbFe(1/2)Nb(1/2)O3. *Journal of Physical Chemistry B*, **2005**, 109, 22967-70	3.4	63
21	Selective growth of PbSe on one or both tips of colloidal semiconductor nanorods. *Nano Letters*, **2005**, 5, 445-9	11.5	216
20	Near equiatomic FeCo nanocrystalline alloy embedded in an alumina aerogel matrix: microstructural features and related magnetic properties. *Journal of Physical Chemistry B*, **2005**, 109, 23888-95	3.4	27
19	Preparation and Characterization of FeCo-Al2O3 and Al2O3 Aerogels. *Journal of Sol-Gel Science and Technology*, **2004**, 31, 83-86	2.3	13
18	Magnetic properties of nanocrystalline CoFe2O4 dispersed in amorphous silica. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, 1561-1562	2.8	17
17	Synthesis and characterisation of metal oxides nanoparticles entrapped in cyclodextrin. *Journal of Physics and Chemistry of Solids*, **2004**, 65, 719-722	3.9	17
16	Nanosized Iron Oxide Particles Entrapped in Pseudo-Single Crystals of □Cyclodextrin. *Chemistry of Materials*, **2004**, 16, 2016-2020	9.6	54

15	Evolution of the Structure and Magnetic Properties of FeCo Nanoparticles in an Alumina Aerogel Matrix. *Chemistry of Materials*, **2004**, 16, 3130-3138	9.6	46
14	Influence of Metal Content on Size, Dispersion, and Magnetic Properties of Iron–Cobalt Alloy Nanoparticles Embedded in Silica Matrix. *Chemistry of Materials*, **2004**, 16, 5659-5663	9.6	50
13	Non-Stoichiometric CoFe2O4 Nanoparticles Supported on an Amorphous Silica Matrix. *Journal of Sol-Gel Science and Technology*, **2003**, 26, 463-466	2.3	16
12	Magnetic properties of maghemite nanoparticles in a polyvinylpyridine matrix. *Polyhedron*, **2003**, 22, 2457-2461	2.7	18
11	EELS investigation of FeCo/SiO2 nanocomposites. *Journal of Microscopy*, **2003**, 210, 80-8	1.9	18
10	Characterization of FeCo–SiO2 Nanocomposite Films Prepared by Sol–Gel Dip Coating. *Chemistry of Materials*, **2003**, 15, 2201-2207	9.6	33
9	The structure of a zinc metaphosphate glass. A reverse Monte Carlo study. *Physical Chemistry Chemical Physics*, **2002**, 4, 4817-4822	3.6	6
8	Superparamagnetic behaviour of α-Fe2O3 nanoparticles dispersed in a silica matrix. *Physical Chemistry Chemical Physics*, **2001**, 3, 832-838	3.6	68
7	Investigation of the precursors of α-Fe2O3 in Fe2O3/SiO2 nanocomposites obtained through sol–gel. *Journal of Non-Crystalline Solids*, **2001**, 286, 64-73	3.9	29
6	Nanocrystalline iron–cobalt alloys supported on a silica matrix prepared by the sol–gel method. *Journal of Non-Crystalline Solids*, **2001**, 293-295, 1-9	3.9	27
5	Magnetic properties of α-Fe2O3–SiO2 aerogel and xerogel nanocomposite materials. *Journal of Materials Chemistry*, **2001**, 11, 3180-3187		63
4	Characterization of Nanocrystalline α-Fe2O3 Prepared by Wet Chemical Method. *Journal of Materials Research*, **1999**, 14, 1570-1575	2.5	98
3	A structural study of Sr metaphosphate glass by anomalous X-ray scattering and EXAFS spectroscopy. *Journal of Non-Crystalline Solids*, **1998**, 232-234, 607-612	3.9	8
2	Prolonged opioid blockade with naltrexone and luteinizing hormone modifications in women with polycystic ovarian syndrome. *Fertility and Sterility*, **1994**, 62, 269-72	4.8	6
1	A binary classifier based on a reconfigurable dense network of metallic nanojunctions. *Neuromorphic Computing and Engineering*,		1