Carla Cannas

List of Publications by Year
in descending order

110	4,499	76196	114278
papers	citations	40 h-index	63 g-index

111	111	111	5865
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of different molecular coatings on the heating properties of maghemite nanoparticles. Nanoscale Advances, 2022, 4, 408-420.	2.2	3
2	As(III, V) Uptake from Nanostructured Iron Oxides and Oxyhydroxides: The Complex Interplay between Sorbent Surface Chemistry and Arsenic Equilibria. Nanomaterials, 2022, 12, 326.	1.9	8
3	Technological insights on the Early-Middle Bronze Age pottery of Monte Meana cave (Sardinia, Italy). Heliyon, 2022, 8, e09171.	1.4	0
4	On the design of mesostructured acidic catalysts for the one-pot dimethyl ether production from CO2. Journal of CO2 Utilization, 2022, 62, 102066.	3.3	12
5	Surface reactivity of Etna volcanic ash and evaluation of health risks. Science of the Total Environment, 2021, 761, 143248.	3.9	11
6	Silicon-based fluorescent platforms for copper(<scp>ii</scp>) detection in water. RSC Advances, 2021, 11, 15557-15564.	1.7	6
7	Nanoscaled Metal-Organic Frameworks: Challenges Towards Biomedical Applications. Journal of Nanoscience and Nanotechnology, 2021, 21, 2922-2929.	0.9	0
8	Evolution of the Magnetic and Structural Properties with the Chemical Composition in Oleate-Capped Mn_xCo_{1â€“x}Fe₂O₄ Nanoparticles. Journal of Physical Chemistry C, 2021, 125, 20626-20638.	1.5	12
9	Meso- and macroporous silica-based arsenic adsorbents: effect of pore size, nature of the active phase, and silicon release. Nanoscale Advances, 2021, 3, 6100-6113.	2.2	11
10	On the synthesis of bi-magnetic manganese ferrite-based coreâ€“shell nanoparticles. Nanoscale Advances, 2021, 3, 1612-1623.	2.2	11
11	Self-Limitations of Heat Release in Coupled Core-Shell Spinel Ferrite Nanoparticles: Frequency, Time, and Temperature Dependencies. Nanomaterials, 2021, 11, 2848.	1.9	5
12	Heteroleptic NIR-Emitting Yb^{III}/Anilate-Based Neutral Coordination Polymer Nanosheets for Solvent Sensing. ACS Applied Nano Materials, 2020, 3, 94-104.	2.4	29
13	Designing Magnetic NanoMOFs for Biomedicine: Current Trends and Applications. Magnetochemistry, 2020, 6, 39.	1.0	13
14	Synthesis of L10 alloy nanoparticles. Potential and versatility of the pre-ordered Precursor Reduction strategy. Journal of Alloys and Compounds, 2020, 846, 156156.	2.8	11
15	Effect of red mud added to zeolite LTA synthesis: Where is Fe in the newly-formed material?. Microporous and Mesoporous Materials, 2020, 298, 110058.	2.2	24
16	Defect-assisted synthesis of magneto-plasmonic silver-spinel ferrite heterostructures in a flower-like architecture. Scientific Reports, 2020, 10, 17015.	1.6	8
17	Hexafluorosilicic Acid (FSA): from Hazardous Waste to Precious Resource in Obtaining High Value-Added Mesostructured Silica. ACS Sustainable Chemistry and Engineering, 2020, 8, 14286-14300.	3.2	15
18	Coupled hardâ€“soft spinel ferrite-based coreâ€“shell nanoarchitectures: magnetic properties and heating abilities. Nanoscale Advances, 2020, 2, 3191-3201.	2.2	32

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19	Magnetocrystalline and Surface Anisotropy in CoFe2O4 Nanoparticles. Nanomaterials, 2020, 10, 1288.	1.9	22
20	Anchoring ultrasmall FeIII-based nanoparticles on silica and titania mesostructures for syngas H2S purification. Microporous and Mesoporous Materials, 2020, 298, 110062.	2.2	14
21	Nanostructured spinel cobalt ferrites: Fe and Co chemical state, cation distribution and size effects by X-ray photoelectron spectroscopy. RSC Advances, 2019, 9, 19171-19179.	1.7	100
22	Raman Spectroscopy as a Probe for Monitoring the Zinc Presence in Zn-Substituted Cobalt Ferrites. Journal of Nanoscience and Nanotechnology, 2019, 19, 5043-5047.	0.9	1
23	Sub-Micrometric MCM-41 Particles as Support to Design Efficient and Regenerable Maghemite-Based Sorbent for H₂S Removal. Journal of Nanoscience and Nanotechnology, 2019, 19, 5035-5042.	0.9	6
24	Liquid Phase Synthesis of Nanostructured Spinel Ferritesâ€"A Review. Journal of Nanoscience and Nanotechnology, 2019, 19, 4857-4887.	0.9	28
25	A Special Section on Nanostructured Iron-Based Spinels: Synthesis, Characterization, Properties and Applications. Journal of Nanoscience and Nanotechnology, 2019, 19, 4821-4823.	0.9	0
26	Magnetic Interactions Versus Magnetic Anisotropy in Spinel Ferrite Nanoparticles. IEEE Magnetics Letters, 2019, 10, 1-5.	0.6	22
27	Highly active NiO-CeO2 catalysts for synthetic natural gas production by CO2 methanation. Catalysis Today, 2018, 299, 183-192.	2.2	55
28	A catalyst-free, waste-less ethanol-based solvothermal synthesis of amides. Green Chemistry, 2018, 20, 375-381.	4.6	12
29	The interplay between single particle anisotropy and interparticle interactions in ensembles of magnetic nanoparticles. Physical Chemistry Chemical Physics, 2018, 20, 28634-28643.	1.3	54
30	Î³-Fe₂O₃-M41S Sorbents for H₂S Removal: Effect of Different Porous Structures and Silica Wall Thickness. Journal of Physical Chemistry C, 2018, 122, 12231-12242.	1.5	20
31	Nanosheets of Two-Dimensional Neutral Coordination Polymers Based on Near-Infrared-Emitting Lanthanides and a Chlorocyananilate Ligand. Chemistry of Materials, 2018, 30, 6575-6586.	3.2	36
32	CO 2 methanation on hard-templated NiO CeO 2 mixed oxides. International Journal of Hydrogen Energy, 2017, 42, 20689-20702.	3.8	51
33	Spinel Ferrite Coreâ€"Shell Nanostructures by a Versatile Solvothermal Seed-Mediated Growth Approach and Study of Their Nanointerfaces. ACS Nano, 2017, 11, 7889-7900.	7.3	59
34	MCM-41 support for ultrasmall Î³-Fe₂O₃ nanoparticles for H₂S removal. Journal of Materials Chemistry A, 2017, 5, 21688-21698.	5.2	51
35	Geo-material provenance and technological properties investigation in Copper Age menhirs production at Allai (central-western Sardinia, Italy). Science and Technology of Archaeological Research, 2017, 3, 391-404.	2.4	0
36	Studying the effect of Zn-substitution on the magnetic and hyperthermic properties of cobalt ferrite nanoparticles. Nanoscale, 2016, 8, 10124-10137.	2.8	176

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37	Eneolithic menhirs of Laconi (central Sardinia, Italy): from provenance to technological properties. Journal of Archaeological Science: Reports, 2016, 5, 197-208.	0.2	2
38	Much More Than a Glass: The Complex Magnetic and Microstructural Properties of Obsidian. Journal of Physical Chemistry C, 2016, 120, 27635-27645.	1.5	21
39	High efficient fluorescent stable colloidal sealed dye-doped mesostructured silica nanoparticles. Microporous and Mesoporous Materials, 2016, 225, 432-439.	2.2	19
40	Tuning hard and soft magnetic FePt nanocomposites. Journal of Alloys and Compounds, 2016, 663, 601-609.	2.8	10
41	Binding of bis-(2-ethylhexyl) phthalate at the surface of hydrozincite nanocrystals: An example of organic molecules absorption onto nanocrystalline minerals. Journal of Colloid and Interface Science, 2015, 457, 298-306.	5.0	8
42	Evolution of the magnetic structure with chemical composition in spinel iron oxide nanoparticles. Nanoscale, 2015, 7, 13576-13585.	2.8	60
43	Hierarchical Formation Mechanism of CoFe₂O₄ Mesoporous Assemblies. ACS Nano, 2015, 9, 7277-7286.	7.3	30
44	Dialkylamide as Both Capping Agent and Surfactant in a Direct Solvothermal Synthesis of Magnetite and Titania Nanoparticles. Crystal Growth and Design, 2015, 15, 2364-2372.	1.4	29
45	Luminescence enhancement by energy transfer in melamine-Y2O3:Tb3+ nanohybrids. Journal of Applied Physics, 2015, 118, .	1.1	20
46	Synthesis and melting behaviour of Bi, Sn and Snâ€“Bi nanostructured alloy. Journal of Alloys and Compounds, 2015, 623, 7-14.	2.8	49
47	Colloidal Bi₂S₃ Nanocrystals: Quantum Size Effects and Midgap States. Advanced Functional Materials, 2014, 24, 3341-3350.	7.8	65
48	Surface Effects Under Visible Irradiation and Heat Treatment on the Phase Stability of Î³-Fe₂O₃ Nanoparticles and Î³-Fe₂O₃ â^'SiO₂ Coreâ€“Shell Nanostructures. Journal of Physical Chemistry C, 2014, 118, 2857-2866.	1.5	22
49	MeO_x/SBA-15 (Me = Zn, Fe): highly efficient nanosorbents for mid-temperature H₂S removal. Journal of Materials Chemistry A, 2014, 2, 19396-19406.	5.2	48
50	Mesoporous hard-templated Meâ€“Co [MeÂ=ÂCu, Fe] spinel oxides for water gas shift reaction. Journal of Porous Materials, 2014, 21, 539-549.	1.3	15
51	Coreâ€“shell nano-architectures: The incorporation mechanism of hydrophobic nanoparticles into the aqueous core of a microemulsion. Journal of Colloid and Interface Science, 2013, 407, 67-75.	5.0	13
52	Magnetic Properties of Small Magnetite Nanocrystals. Journal of Physical Chemistry C, 2013, 117, 23378-23384.	1.5	57
53	Beyond the Effect of Particle Size: Influence of CoFe₂O₄ Nanoparticle Arrangements on Magnetic Properties. Chemistry of Materials, 2013, 25, 2005-2013.	3.2	112
54	Mixed-1,10-phenanthrolineâ€“Cu(II) complexes: Synthesis, cytotoxic activity versus hematological and solid tumor cells and complex formation equilibria with glutathione. Journal of Inorganic Biochemistry, 2012, 114, 28-37.	1.5	41

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55	Structural investigation and luminescence of nanocrystalline lanthanide doped NaNbO3 and Na0.5K0.5NbO3. Journal of Solid State Chemistry, 2012, 196, 1-10.	1.4	14
56	Gold-assisted Eâ€² centres formation on the silica surface of Au/SBA-15 catalysts for low temperature CO oxidation. Physical Chemistry Chemical Physics, 2012, 14, 6889.	1.3	15
57	Nanoparticle magnetization measurements by a high sensitive nano-superconducting quantum interference device. Applied Physics Letters, 2012, 101, .	1.5	44
58	Stabilization of the high coercivity <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0025.gif" overflow="scroll"><mml:mi>Ïµ</mml:mi><mml:mi mathvariant="normal">-</mml:mi><mml:msub><mml:mrow><mml:mi>Fe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math> phase in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0026.gif" o. Journal of Solid State Chemistry, 2012, 191, 136-141.	1.4	5
59	CO oxidation and preferential oxidation of CO in the presence of hydrogen over SBA-15-templated CuO-Co3O4 catalysts. Applied Catalysis A: General, 2012, 443-444, 161-170.	2.2	44
60	ZnO/SBA-15 composites for mid-temperature removal of H2S: Synthesis, performance and regeneration studies. Fuel, 2012, 102, 691-700.	3.4	66
61	Bifunctional FePt@MWCNTs/Ru Nanoarchitectures: Synthesis and Characterization. Chemistry of Materials, 2012, 24, 3393-3400.	3.2	28
62	Interparticle Interactions and Magnetic Anisotropy in Cobalt Ferrite Nanoparticles: Influence of Molecular Coating. Chemistry of Materials, 2012, 24, 1062-1071.	3.2	172
63	SPION@liposomes hybrid nanoarchitectures with high density SPION association. Soft Matter, 2011, 7, 6239.	1.2	26
64	Optical and structural characterization of cerium doped LYSO solâ€“gel polycrystal films: potential application as scintillator panel for X-ray imaging. Journal of Materials Chemistry, 2011, 21, 7771.	6.7	23
65	Cationic distribution and spin canting in CoFe₂O₄nanoparticles. Journal of Physics Condensed Matter, 2011, 23, 426004.	0.7	114
66	Optical and Structural Characterization of Terbium-Doped Y₂SiO₅Phosphor Particles. Journal of Physical Chemistry C, 2011, 115, 16630-16636.	1.5	68
67	Simple and fast preparation of pure maghemite nanopowders through solâ€“gel self-combustion. Journal of Sol-Gel Science and Technology, 2011, 60, 266-274.	1.1	22
68	Dynamic templating role of polynaphtalene sulphonate in the formation of silver nanocrystals in aqueous solution. Journal of Nanoparticle Research, 2011, 13, 3107-3112.	0.8	3
69	Non-linear niobate nanocrystals for two-photon imaging. Optical Materials, 2011, 33, 258-266.	1.7	17
70	Surfactant-assisted route to fabricate CoFe2O4 individual nanoparticles and spherical assemblies. Journal of Colloid and Interface Science, 2010, 343, 415-422.	5.0	49
71	Sol-gel synthesis of cerium-doped yttrium silicates and their luminescent properties. Journal of Materials Research, 2010, 25, 229-234.	1.2	6
72	Monitoring early stages of silver particle formation in a polymer solution by in situ and time resolved small angle X-ray scattering. Nanoscale, 2010, 2, 2447.	2.8	22

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73	High Yield Synthesis of Pure Alkanethiolate-Capped Silver Nanoparticles. Langmuir, 2010, 26, 15561-15566.	1.6	32
74	Spin-glass-like freezing and enhanced magnetization in ultra-small CoFe₂O₄nanoparticles. Nanotechnology, 2010, 21, 125705.	1.3	157
75	Thermal hysteresis of Morin transition in hematite particles. Physical Chemistry Chemical Physics, 2010, 12, 6984.	1.3	29
76	CoFe₂O₄ and CoFe₂O₄/SiO₂ Core/Shell Nanoparticles: Magnetic and Spectroscopic Study. Chemistry of Materials, 2010, 22, 3353-3361.	3.2	160
77	Magnetism in Nanoparticles: Beyond the Effect of Particle Size. Chemistry - A European Journal, 2009, 15, 7822-7829.	1.7	61
78	Physico-chemical characterization of IrO2â€“SnO2 sol-gel nanopowders for electrochemical applications. Journal of Applied Electrochemistry, 2009, 39, 2093-2105.	1.5	27
79	Exchange Bias in CoFe2O4/NiO nanocomposites. Superlattices and Microstructures, 2009, 46, 125-129.	1.4	14
80	Inversion degree and saturation magnetization of different nanocrystalline cobalt ferrites. Journal of Magnetism and Magnetic Materials, 2009, 321, 1893-1897.	1.0	51
81	Modifications induced by pretreatments on Au/SBA-15 and their influence on the catalytic activity for low temperature CO oxidation. Physical Chemistry Chemical Physics, 2009, 11, 593-602.	1.3	46
82	Structural properties of biologically controlled hydrozincite: An HRTEM and NMR spectroscopic study. American Mineralogist, 2009, 94, 1698-1706.	0.9	31
83	Spherical Nanoporous Assemblies of Iso-Oriented Cobalt Ferrite Nanoparticles: Synthesis, Microstructure, and Magnetic Properties. Chemistry of Materials, 2008, 20, 6364-6371.	3.2	88
84	Solâ^'Gel Pure and Mixed-Phase Titanium Dioxide for Photocatalytic Purposes: Relations between Phase Composition, Catalytic Activity, and Charge-Trapped Sites. Chemistry of Materials, 2008, 20, 4051-4061.	3.2	92
85	Spin-Canting and Magnetic Anisotropy in Ultrasmall CoFe₂O₄Nanoparticles. Journal of Physical Chemistry B, 2008, 112, 8507-8513.	1.2	128
86	Coexistence of Superparmagnetism and Spin-Glass Like Magnetic Ordering Phenomena in a CoFe₂O₄â^'SiO₂ Nanocomposite. Journal of Physical Chemistry C, 2008, 112, 5141-5147.	1.5	74
87	Structural investigations and luminescence properties of nanocrystalline europium-doped yttrium silicates prepared by a solâ€“gel technique. Optical Materials, 2007, 29, 585-592.	1.7	21
88	Magnetic properties of cobalt ferriteâ€“silica nanocomposites prepared by a sol-gel autocombustion technique. Journal of Chemical Physics, 2006, 125, 164714.	1.2	110
89	Synthesis and Characterization of CoFe2O4Nanoparticles Dispersed in a Silica Matrix by a Solâ^'Gel Autocombustion Method. Chemistry of Materials, 2006, 18, 3835-3842.	3.2	109
90	CoFe2O4 nanocrystalline powders prepared by citrate-gel methods: Synthesis, structure and magnetic properties. Journal of Nanoparticle Research, 2006, 8, 255-267.	0.8	102

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91	A one-step solvothermal route for the synthesis of nanocrystalline anatase TiO2 doped with lanthanide ions. Journal of Solid State Chemistry, 2006, 179, 2452-2457.	1.4	35
92	Nanocrystalline luminescent Eu3+-doped Y2SiO5 prepared by solâ€“gel technique. Optical Materials, 2005, 27, 1506-1510.	1.7	36
93	Advances in the structure and microstructure determination of yttrium silicates using the Rietveld method. Journal of Solid State Chemistry, 2005, 178, 1526-1532.	1.4	39
94	Determination of Arsenic Speciation in Complex Environmental Samples by the Combined Use of TEM and XPS. Mikrochimica Acta, 2005, 151, 189-201.	2.5	37
95	29Si CPMAS NMR and near-IR study of solâ€“gel microporous silica with tunable surface area. Journal of Non-Crystalline Solids, 2005, 351, 3476-3482.	1.5	25
96	New Synthesis of Ferriteâ€“Silica Nanocomposites by a Solâ€“Gel Auto-Combustion. Journal of Nanoparticle Research, 2004, 6, 223-232.	0.8	44
97	Synthesis and Characterization of Y2O3/SiO2 Composites. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2004, 59, 281-287.	0.7	0
98	Nanocrystalline Eu3+ doped-yttrium oxide dispersed onto silica prepared by a depositionâ€“precipitation method. Composites Science and Technology, 2003, 63, 1175-1177.	3.8	8
99	ZnO/SiO2 nanocomposites obtained by impregnation of mesoporous silica. Composites Science and Technology, 2003, 63, 1187-1191.	3.8	36
100	Synthesis, characterisation and optical properties of nanocrystalline Y2O3â€“Eu3+dispersed in a silica matrix by a depositionâ€“precipitation method. Journal of Materials Chemistry, 2003, 13, 3079-3084.	6.7	45
101	MÃ¶ssbauer Investigation of Î³-Fe2O3 Nanocrystals in Silica Matrix Prepared by the Sol-gel Method. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2002, 57, 154-158.	0.7	12
102	How to tailor maghemite particle size in Î³-Fe2O3â€“SiO2nanocomposites. Journal of Materials Chemistry, 2002, 12, 3141-3146.	6.7	50
103	Study of the nanoparticle/matrix interactions in Y2O3â€“SiO2 samples. Physical Chemistry Chemical Physics, 2002, 4, 2286-2292.	1.3	24
104	Synthesis, characterization and optical spectroscopy of a Y2O3â€“SiO2 nanocomposite doped with Eu3+. Journal of Non-Crystalline Solids, 2002, 306, 193-199.	1.5	25
105	Superparamagnetic behaviour of Î³-Fe2O3 nanoparticles dispersed in a silica matrix. Physical Chemistry Chemical Physics, 2001, 3, 832-838.	1.3	74
106	Investigation of the precursors of Î³-Fe2O3 in Fe2O3/SiO2 nanocomposites obtained through solâ€“gel. Journal of Non-Crystalline Solids, 2001, 286, 64-73.	1.5	32
107	Magnetic properties of Î³-Fe2O3â€“SiO2 aerogel and xerogel nanocomposite materials. Journal of Materials Chemistry, 2001, 11, 3180-3187.	6.7	69
108	XRD, TEM and 29Si MAS NMR study of sol-gel ZnO-SiO2 nanocomposites. Journal of Materials Chemistry, 1999, 9, 1765-1769.	6.7	61

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109	MÃ¶ssbauer Spectroscopic Study of Fe2O3 Nanoparticles Dispersed over a Silica Matrix. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1999, 54, 513-518.	0.7	18
110	Structural and Magnetic Properties of Fe2O3Nanoparticles Dispersed over a Silica Matrix. Journal of Physical Chemistry B, 1998, 102, 7721-7726.	1.2	220