Anna Musinu

List of Publications by Year in Descending Order

115 papers	4,522 citations	37 h-index	63 g-index
117 ext. papers	4,870 ext. citations	5 avg, IF	4.89 L-index

#	Paper	IF	Citations
115	Coupled hard–soft spinel ferrite-based core–shell nanoarchitectures: magnetic properties and heating abilities. *Nanoscale Advances*, **2020**, 2, 3191-3201	5.1	21
114	Magnetocrystalline and Surface Anisotropy in CoFeO Nanoparticles. *Nanomaterials*, **2020**, 10,	5.4	13
113	Anchoring ultrasmall FeIII-based nanoparticles on silica and titania mesostructures for syngas H2S purification. *Microporous and Mesoporous Materials*, **2020**, 298, 110062	5.3	11
112	Defect-assisted synthesis of magneto-plasmonic silver-spinel ferrite heterostructures in a flower-like architecture. *Scientific Reports*, **2020**, 10, 17015	4.9	4
111	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	8.3	7
110	Oleate-Based Solvothermal Approach for Size Control of MFe□□ (M ? Mn, Fe) Colloidal Nanoparticles. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 4954-4963	1.3	7
109	Fe Mössbauer Spectroscopy for the Study of Nanostructured Mixed Mn-Co Spinel Ferrites. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 5008-5013	1.3	5
108	Magnetic Interactions Versus Magnetic Anisotropy in Spinel Ferrite Nanoparticles. *IEEE Magnetics Letters*, **2019**, 10, 1-5	1.6	14
107	A catalyst-free, waste-less ethanol-based solvothermal synthesis of amides. *Green Chemistry*, **2018**, 20, 375-381	10	6
106	The interplay between single particle anisotropy and interparticle interactions in ensembles of magnetic nanoparticles. *Physical Chemistry Chemical Physics*, **2018**, 20, 28634-28643	3.6	36
105	□Fe2O3-M41S Sorbents for H2S Removal: Effect of Different Porous Structures and Silica Wall Thickness. *Journal of Physical Chemistry C*, **2018**, 122, 12231-12242	3.8	13
104	Spinel Ferrite Core-Shell Nanostructures by a Versatile Solvothermal Seed-Mediated Growth Approach and Study of Their Nanointerfaces. *ACS Nano*, **2017**, 11, 7889-7900	16.7	36
103	MCM-41 support for ultrasmall □Fe2O3 nanoparticles for H2S removal. *Journal of Materials Chemistry A*, **2017**, 5, 21688-21698	13	39
102	Much More Than a Glass: The Complex Magnetic and Microstructural Properties of Obsidian. *Journal of Physical Chemistry C*, **2016**, 120, 27635-27645	3.8	16
101	Studying the effect of Zn-substitution on the magnetic and hyperthermic properties of cobalt ferrite nanoparticles. *Nanoscale*, **2016**, 8, 10124-37	7.7	128
100	Atomistic Modeling of Morphology and Electronic Properties of Colloidal Ultrathin Bi2S3 Nanowires. *Journal of Physical Chemistry C*, **2015**, 119, 16913-16919	3.8	11
99	Evolution of the magnetic structure with chemical composition in spinel iron oxide nanoparticles. *Nanoscale*, **2015**, 7, 13576-85	7.7	49

98	Hierarchical Formation Mechanism of CoFe2O4 Mesoporous Assemblies. *ACS Nano*, **2015**, 9, 7277-86	16.7	28
97	Thermal and structural characterization of ultrasonicated BiSn alloy in the eutectic composition. *Journal of Thermal Analysis and Calorimetry*, **2015**, 120, 1543-1551	4.1	1
96	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	3.5	22
95	Synthesis and melting behaviour of Bi, Sn and SnBi nanostructured alloy. *Journal of Alloys and Compounds*, **2015**, 623, 7-14	5.7	43
94	Colloidal Bi2S3 Nanocrystals: Quantum Size Effects and Midgap States. *Advanced Functional Materials*, **2014**, 24, 3341-3350	15.6	58
93	MeOx/SBA-15 (Me = Zn, Fe): highly efficient nanosorbents for mid-temperature H2S removal. *Journal of Materials Chemistry A*, **2014**, 2, 19396-19406	13	35
92	Correlated electron-hole plasma in organometal perovskites. *Nature Communications*, **2014**, 5, 5049	17.4	437
91	Colloidal synthesis and characterization of Bi2S3nanoparticles for photovoltaic applications. *Journal of Physics: Conference Series*, **2014**, 566, 012017	0.3	6
90	Magnetic properties of iron oxide nanoparticles investigated by nanoSQUIDs. *European Physical Journal B*, **2013**, 86, 1	1.2	16
89	Core-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	9.3	12
88	Magnetic Properties of Small Magnetite Nanocrystals. *Journal of Physical Chemistry C*, **2013**, 117, 23378-23384	4.8	49
87	Hysteretic NanoSQUID Sensors for Investigation of Iron Oxide Nanoparticles. *IEEE Transactions on Applied Superconductivity*, **2013**, 23, 1602305-1602305	1.8	3
86	Beyond the Effect of Particle Size: Influence of CoFe2O4 Nanoparticle Arrangements on Magnetic Properties. *Chemistry of Materials*, **2013**, 25, 2005-2013	9.6	97
85	Structural investigation and luminescence of nanocrystalline lanthanide doped NaNbO3 and Na0.5K0.5NbO3. *Journal of Solid State Chemistry*, **2012**, 196, 1-10	3.3	11
84	ZnO/SBA-15 composites for mid-temperature removal of H2S: Synthesis, performance and regeneration studies. *Fuel*, **2012**, 102, 691-700	7.1	57
83	Interparticle Interactions and Magnetic Anisotropy in Cobalt Ferrite Nanoparticles: Influence of Molecular Coating. *Chemistry of Materials*, **2012**, 24, 1062-1071	9.6	144
82	Cationic distribution and spin canting in CoFe2O4 nanoparticles. *Journal of Physics Condensed Matter*, **2011**, 23, 426004	1.8	89
81	Simple and fast preparation of pure maghemite nanopowders through sol-gel self-combustion. *Journal of Sol-Gel Science and Technology*, **2011**, 60, 266-274	2.3	20

80	SPION@liposomes hybrid nanoarchitectures with high density SPION association. *Soft Matter*, **2011**, 7, 6239	3.6	19
79	Magnetic interactions in silica coated nanoporous assemblies of CoFe2O4 nanoparticles with cubic magnetic anisotropy. *Nanotechnology*, **2010**, 21, 315701	3.4	57
78	CoFe2O4 and CoFe2O4/SiO2 Core/Shell Nanoparticles: Magnetic and Spectroscopic Study. *Chemistry of Materials*, **2010**, 22, 3353-3361	9.6	137
77	Surfactant-assisted route to fabricate CoFe2O4 individual nanoparticles and spherical assemblies. *Journal of Colloid and Interface Science*, **2010**, 343, 415-22	9.3	39
76	Magnetism in nanoparticles: beyond the effect of particle size. *Chemistry - A European Journal*, **2009**, 15, 7822-9	4.8	52
75	Physico-chemical characterization of IrO2–SnO2 sol-gel nanopowders for electrochemical applications. *Journal of Applied Electrochemistry*, **2009**, 39, 2093-2105	2.6	21
74	Inversion degree and saturation magnetization of different nanocrystalline cobalt ferrites. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 1893-1897	2.8	42
73	Structural properties of biologically controlled hydrozincite: An HRTEM and NMR spectroscopic study. *American Mineralogist*, **2009**, 94, 1698-1706	2.9	26
72	Spherical Nanoporous Assemblies of Iso-Oriented Cobalt Ferrite Nanoparticles: Synthesis, Microstructure, and Magnetic Properties. *Chemistry of Materials*, **2008**, 20, 6364-6371	9.6	85
71	Sol–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	9.6	88
70	Spin-canting and magnetic anisotropy in ultrasmall CoFe2O4 nanoparticles. *Journal of Physical Chemistry B*, **2008**, 112, 8507-13	3.4	111
69	Coexistence of Superparmagnetism and Spin-Glass Like Magnetic Ordering Phenomena in a CoFe2O4–SiO2 Nanocomposite. *Journal of Physical Chemistry C*, **2008**, 112, 5141-5147	3.8	71
68	A two-stage citric acid–sol/gel synthesis of ZnO/SiO2 nanocomposites: study of precursors and final products. *Journal of Nanoparticle Research*, **2008**, 10, 107-120	2.3	36
67	Morphology and Luminescence of Nanocrystalline Nb2O5Doped with Eu3+. *Journal of Nanomaterials*, **2007**, 2007, 1-5	3.2	15
66	Structural investigations and luminescence properties of nanocrystalline europium-doped yttrium silicates prepared by a sol–gel technique. *Optical Materials*, **2007**, 29, 585-592	3.3	19
65	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	3.3	33
64	Magnetic properties of cobalt ferrite-silica nanocomposites prepared by a sol-gel autocombustion technique. *Journal of Chemical Physics*, **2006**, 125, 164714	3.9	98
63	Synthesis and Characterization of CoFe2O4 Nanoparticles Dispersed in a Silica Matrix by a Sol–Gel Autocombustion Method. *Chemistry of Materials*, **2006**, 18, 3835-3842	9.6	92

62	Nanocrystalline TiO2with enhanced photoinduced charge separation as catalyst for the phenol degradation. *International Journal of Photoenergy*, **2006**, 2006, 1-6	2.1	5
61	CoFe2O4 nanocrystalline powders prepared by citrate-gel methods: Synthesis, structure and magnetic properties. *Journal of Nanoparticle Research*, **2006**, 8, 255-267	2.3	86
60	29Si CPMAS NMR and near-IR study of sol–gel microporous silica with tunable surface area. *Journal of Non-Crystalline Solids*, **2005**, 351, 3476-3482	3.9	22
59	Stability of luminescent trivalent cerium in silica host glasses modified by boron and phosphorus. *Journal of the American Chemical Society*, **2005**, 127, 14681-91	16.4	67
58	Nanocrystalline luminescent Eu3+-doped Y2SiO5 prepared by sol–gel technique. *Optical Materials*, **2005**, 27, 1506-1510	3.3	32
57	Advances in the structure and microstructure determination of yttrium silicates using the Rietveld method. *Journal of Solid State Chemistry*, **2005**, 178, 1526-1532	3.3	37
56	New Synthesis of Ferrite–Silica Nanocomposites by a Sol–Gel Auto-Combustion. *Journal of Nanoparticle Research*, **2004**, 6, 223-232	2.3	41
55	Structural investigation of Fe2O3–SiO2 nanocomposites through radial distribution functions analysis. *Physical Chemistry Chemical Physics*, **2004**, 006, 3530-3534	3.6	9
54	Tuning of α-Fe2O3 particle sizes by impregnation of mesoporous silica. *Journal of Non-Crystalline Solids*, **2004**, 345-346, 653-657	3.9	12
53	Nanocrystalline Eu3+ doped-yttrium oxide dispersed onto silica prepared by a deposition–precipitation method. *Composites Science and Technology*, **2003**, 63, 1175-1177	8.6	8
52	ZnO/SiO2 nanocomposites obtained by impregnation of mesoporous silica. *Composites Science and Technology*, **2003**, 63, 1187-1191	8.6	34
51	Synthesis, characterisation and optical properties of nanocrystalline Y2O3:Eu3+ dispersed in a silica matrix by a deposition–precipitation method. *Journal of Materials Chemistry*, **2003**, 13, 3079-3084		42
50	Mössbauer Investigation of α-Fe2O3 Nanocrystals in Silica Matrix Prepared by the Sol-gel Method. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2002**, 57, 154-158	1.4	12
49	How to tailor maghemite particle size in γ-Fe2O3–SiO2 nanocomposites. *Journal of Materials Chemistry*, **2002**, 12, 3141-3146		48
48	Study of the nanoparticle/matrix interactions in Y2O3–SiO2 samples. *Physical Chemistry Chemical Physics*, **2002**, 4, 2286-2292	3.6	23
47	Synthesis, characterization and optical spectroscopy of a Y2O3–SiO2 nanocomposite doped with Eu3+. *Journal of Non-Crystalline Solids*, **2002**, 306, 193-199	3.9	25
46	XRD, TEM, IR and 29Si MAS NMR characterization of NiO-SiO2 nanocomposites. *Journal of Materials Science*, **2001**, 36, 3731-3735	4.3	21
45	Superparamagnetic behaviour of α-Fe2O3 nanoparticles dispersed in a silica matrix. *Physical Chemistry Chemical Physics*, **2001**, 3, 832-838	3.6	68

44	Investigation of the precursors of Fe2O3 in Fe2O3/SiO2 nanocomposites obtained through sol-gel. *Journal of Non-Crystalline Solids*, **2001**, 286, 64-73	3.9	29
43	Magnetic properties of Fe2O3-SiO2 aerogel and xerogel nanocomposite materials. *Journal of Materials Chemistry*, **2001**, 11, 3180-3187		63
42	Eu3+-Doped Y2O3-SiO2 Nanocomposite Obtained by a Sol-Gel Method. *Materials Research Society Symposia Proceedings*, **2001**, 676, 3181		7
41	IR and NMR study of nanoparticle-support interactions in a Fe2O3-SiO2 nanocomposite prepared by a Sol-gel method. *Scripta Materialia*, **1999**, 11, 573-586		138
40	XRD, TEM and 29Si MAS NMR study of sol-gel ZnO-SiO2 nanocomposites. *Journal of Materials Chemistry*, **1999**, 9, 1765-1769		53
39	Sol-gel preparation and characterization of Ni-SiO2 nanocomposites. *Journal of Non-Crystalline Solids*, **1998**, 232-234, 587-593	3.9	38
38	Characterization of Iron Oxide Nanoparticles in an Fe2O3-SiO2Composite Prepared by a Sol-Gel Method. *Chemistry of Materials*, **1998**, 10, 495-502	9.6	213
37	Structural and Magnetic Properties of Fe2O3 Nanoparticles Dispersed over a Silica Matrix. *Journal of Physical Chemistry B*, **1998**, 102, 7721-7726	3.4	186
36	The Structure of a Zn(II) Metaphosphate Glass. I. The Cation Coordination by a Combination of X-Ray and Neutron Diffraction, EXAFS and X-Ray Anomalous Scattering. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1996**, 51, 1209-1215	1.4	14
35	X-ray Diffraction Investigation of Iron in Sodium Phosphate Glasses. *The Journal of Physical Chemistry*, **1996**, 100, 12462-12466		11
34	The synthesis of nanocrystalline nickel boride powders by ball milling of elemental components. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **1995**, 204, 211-216	5.3	23
33	An X-ray diffraction study of the short-range order around Ni(II), Zn(II) and Cu(II) in pyrophosphate glasses. *Journal of Non-Crystalline Solids*, **1995**, 192-193, 32-35	3.9	13
32	A neutron diffraction study of a sodium nickel phosphate glass. *Journal of Non-Crystalline Solids*, **1995**, 192-193, 49-52	3.9	3
31	The preparation of nanocrystalline boride powders via a solid state reaction induced by the ball milling of nickel-boron mixtures. *Journal of Non-Crystalline Solids*, **1995**, 192-193, 565-569	3.9	6
30	X-ray structural investigation on sodium borate samples prepared by the sol-gel method. *Journal of Materials Science*, **1994**, 29, 1330-1335	4.3	7
29	X-ray diffraction studies of multicomponent oxide glasses. *Journal of Non-Crystalline Solids*, **1994**, 177, 81-90	3.9	4
28	Short range order of metaphosphate glasses by X-ray diffraction. *Journal of Non-Crystalline Solids*, **1994**, 177, 97-102	3.9	22
27	A reverse Monte Carlo study of SiO2 and B2O3 glasses. *Journal of Non-Crystalline Solids*, **1994**, 177, 137-146	3.9	8

26	Influence of ball milling conditions on amorphization of cobalt and boron mixtures. *Journal of Non-Crystalline Solids*, **1993**, 163, 35-42	3.9	2
25	Na+ coordination in sodium diborate and triborate glasses by X-ray diffraction. *Journal of Non-Crystalline Solids*, **1993**, 162, 128-135	3.9	12
24	Amorphous transition metal-boron ultrafine particles prepared by chemical methods. *Chemistry of Materials*, **1993**, 5, 1722-1726	9.6	54
23	Influence of boron content on the amorphization rate of CoB mixtures by mechanical alloying. *Journal of Materials Research*, **1993**, 8, 1327-1333	2.5	13
22	Effect of Cooling Rate on the Structure of Sodium Borate Glasses. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1993**, 48, 599-604	1.4	3
21	Diffraction techniques and structural models for amorphous materials. *Journal of Non-Crystalline Solids*, **1992**, 150, 65-68	3.9	5
20	An X-ray diffraction study of sodium borate glasses. *Journal of Non-Crystalline Solids*, **1992**, 150, 76-79	3.9	10
19	Structural evolution in mechanical alloying of Co and B powders. *Journal of Non-Crystalline Solids*, **1992**, 150, 487-490	3.9	13
18	Coordination of zinc and copper in phosphate glasses by EXAFS. *Journal of Non-Crystalline Solids*, **1991**, 136, 198-204	3.9	23
17	Structural properties of lead-iron phosphate glasses by X-ray diffraction. *Journal of Non-Crystalline Solids*, **1990**, 122, 52-58	3.9	65
16	Structure and chemical durability of zinc-containing glasses. *Journal of Non-Crystalline Solids*, **1990**, 125, 181-185	3.9	23
15	Towards a model of silver halide-silver oxysalt glassy electrolytes. *Solid State Ionics*, **1989**, 34, 187-193	3.3	9
14	Short-range order of Zn and Cu in metaphosphate glasses by X-ray diffraction. *Journal of Non-Crystalline Solids*, **1989**, 111, 221-227	3.9	23
13	Fe-Co-B amorphous alloy powder by chemical reduction. *Journal of Materials Science Letters*, **1988**, 7, 407-409		35
12	Coordination of Zinc(II) in ZnOK2OSiO2 Glasses by X-ray Diffraction. *Journal of the American Ceramic Society*, **1988**, 71, C-256-C-259	3.8	12
11	X-ray diffraction study of AgI AgPO 3 glasses. *Journal of Non-Crystalline Solids*, **1988**, 106, 70-72	3.9	2
10	Short range order in AgIAgPO3 glasses by x-ray diffraction. *Journal of Chemical Physics*, **1988**, 89, 1074-1077	3.9	22
9	X-ray diffraction study of AgXAg2OB2O3 (X=Br,Cl) vitreous electrolytes. *Journal of Chemical Physics*, **1987**, 86, 5141-5145	3.9	18

8	Short-range order in a NASIGLAS sample by X-ray diffraction. *Chemical Physics Letters*, **1987**, 141, 143-148	2.5	10
7	X-ray diffraction investigation of Co(II) ions in borosilicate glasses. *Journal of Chemical Physics*, **1986**, 84, 5769-5774	3.9	19
6	Coordination of Ag+ ions in AgI?Ag2O?B2O3 glasses by x-ray diffraction. *Journal of Chemical Physics*, **1986**, 85, 500-506	3.9	49
5	EXAFS and x-ray diffraction study of a mixed NiCl2?CoCl2 solution. *Chemical Physics Letters*, **1985**, 120, 295-300	2.5	6
4	X-ray diffraction study of CoCl2?LiCl aqueous solutions. *Journal of Chemical Physics*, **1984**, 80, 2772-2776	3.9	19
3	Coordination of copper(II) in aqueous copper sulfate solution. *Inorganic Chemistry*, **1983**, 22, 1184-1187	5.1	29
2	The sulphate ion in aqueous solution: an X-ray diffraction study of a ZnSO4solution. *Journal of Applied Crystallography*, **1982**, 15, 621-625	3.8	14
1	On the structure of the NH+4 ion in aqueous solution. *Chemical Physics Letters*, **1981**, 80, 163-167	2.5	17