Jean-Marc Greneche

List of Publications by Year
in descending order

271	14,961	22099	22102
papers	citations	h-index	g-index

278	278	278	17027
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis and catalytic properties of MIL-100(Fe), an iron(iii) carboxylate with large pores. Chemical Communications, 2007, , 2820-2822.	2.2	1,218
2	Mixed-Valence Li/Fe-Based Metalâ€“Organic Frameworks with Both Reversible Redox and Sorption Properties. Angewandte Chemie - International Edition, 2007, 46, 3259-3263.	7.2	583
3	Hydrothermal Synthesis of Monodisperse Magnetite Nanoparticles. Chemistry of Materials, 2006, 18, 4399-4404.	3.2	558
4	Controlled Reducibility of a Metalâ€“Organic Framework with Coordinatively Unsaturated Sites for Preferential Gas Sorption. Angewandte Chemie - International Edition, 2010, 49, 5949-5952.	7.2	526
5	Superparamagnetic MFe₂O₄ (M = Fe, Co, Mn) Nanoparticles: Tuning the Particle Size and Magnetic Properties through a Novel One-Step Coprecipitation Route. Chemistry of Materials, 2012, 24, 1496-1504.	3.2	446
6	Functionalization in Flexible Porous Solids: Effects on the Pore Opening and the Hostâ^'Guest Interactions. Journal of the American Chemical Society, 2010, 132, 1127-1136.	6.6	445
7	Phosphate Adsorption Properties of Magnetite-Based Nanoparticles. Chemistry of Materials, 2007, 19, 4494-4505.	3.2	368
8	Magnetic properties of nanostructured ferrimagnetic zinc ferrite. Journal of Physics Condensed Matter, 2000, 12, 7795-7805.	0.7	306
9	Magnetic Iron Oxide Nanoparticles in 10â^'40 nm Range: Composition in Terms of Magnetite/Maghemite Ratio and Effect on the Magnetic Properties. Chemistry of Materials, 2011, 23, 1379-1386.	3.2	303
10	Coupling Agent Effect on Magnetic Properties of Functionalized Magnetite-Based Nanoparticles. Chemistry of Materials, 2008, 20, 5869-5875.	3.2	298
11	Effect of the nature of the metal on the breathing steps in MOFs with dynamic frameworks. Chemical Communications, 2008, , 4732.	2.2	274
12	Surface-related properties of Î³-Fe2O3 nanoparticles. Journal of Magnetism and Magnetic Materials, 2000, 221, 63-79.	1.0	272
13	Biodegradable therapeutic MOFs for the delivery of bioactive molecules. Chemical Communications, 2010, 46, 4526.	2.2	267
14	Stable polyoxometalate insertion within the mesoporous metal organic framework MIL-100(Fe). Journal of Materials Chemistry, 2011, 21, 1226-1233.	6.7	251
15	Magnetic Iron Oxide Nanoparticles: Reproducible Tuning of the Size and Nanosized-Dependent Composition, Defects, and Spin Canting. Journal of Physical Chemistry C, 2014, 118, 3795-3810.	1.5	250
16	Comparison of Porous Iron Trimesates Basolite F300 and MIL-100(Fe) As Heterogeneous Catalysts for Lewis Acid and Oxidation Reactions: Roles of Structural Defects and Stability. ACS Catalysis, 2012, 2, 2060-2065.	5.5	213
17	Synthesis, Structure, Characterization, and Redox Properties of the Porous MILâ€68(Fe) Solid. European Journal of Inorganic Chemistry, 2010, 2010, 3789-3794.	1.0	191
18	Electron transfer at the mineral/water interface: Selenium reduction by ferrous iron sorbed on clay. Geochimica Et Cosmochimica Acta, 2007, 71, 5731-5749.	1.6	181

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19	Magnetic properties of CoFe1.9RE0.1O4 nanoparticles (RE=La, Ce, Nd, Sm, Eu, Gd, Tb, Ho) prepared in polyol. Journal of Magnetism and Magnetic Materials, 2008, 320, 3242-3250.	1.0	174
20	Bioinspired Iron Sulfide Nanoparticles for Cheap and Long-Lived Electrocatalytic Molecular Hydrogen Evolution in Neutral Water. ACS Catalysis, 2014, 4, 681-687.	5.5	164
21	Redox potential measurements and MÃ¶ssbauer spectrometry of FeII adsorbed onto FeIII (oxyhydr)oxides. Geochimica Et Cosmochimica Acta, 2005, 69, 4801-4815.	1.6	135
22	Surface effects in noninteracting and interacting Î³-Fe2O3 nanoparticles. Journal of Magnetism and Magnetic Materials, 2003, 262, 6-14.	1.0	126
23	Surface anisotropy in ferromagnetic nanoparticles. Journal of Applied Physics, 2002, 91, 8715.	1.1	115
24	Cationic distribution and spin canting in CoFe₂O₄nanoparticles. Journal of Physics Condensed Matter, 2011, 23, 426004.	0.7	114
25	Electrostatically driven charge-ordering in Fe2OBO3. Nature, 1998, 396, 655-658.	13.7	108
26	Electrical and magnetic behaviour of nanostructured MgFe2O4 spinel ferrite. Journal of Alloys and Compounds, 2010, 504, 395-402.	2.8	107
27	[Fe4(PO4)4F2(H2O)3] Â· [C6H14N2] or ULM-12, the first magnetic ferric phosphate with an open structure: Hydrothermal synthesis, structure, and magnetic propertie. Zeolites, 1996, 17, 250-260.	0.9	105
28	Low-Cost Nanostructured Iron Sulfide Electrocatalysts for PEM Water Electrolysis. ACS Catalysis, 2016, 6, 2626-2631.	5.5	105
29	Magnetic properties of Zn-substituted MnFe₂O₄ nanoparticles synthesized in polyol as potential heating agents for hyperthermia. Evaluation of their toxicity on Endothelial cells. Chemistry of Materials, 2010, 22, 5420-5429.	3.2	104
30	The titration of clay minerals. Journal of Colloid and Interface Science, 2004, 273, 224-233.	5.0	102
31	NÃ©el temperature enhancement in nanostructured nickel zinc ferrite. Applied Physics Letters, 2005, 86, 192510.	1.5	102
32	Crystal and Magnetic Structure of YBaCuFeO5. Journal of Solid State Chemistry, 1995, 114, 24-35.	1.4	100
33	MÃ¶ssbauer spectrometry of Fe(Cu)MB-type nanocrystalline alloys: I. The fitting model for the MÃ¶ssbauer spectra. Journal of Physics Condensed Matter, 1997, 9, 2303-2319.	0.7	98
34	Insights into the Mechanism Related to the Phase Transition from Î³-Fe₂O₃ to Î±-Fe₂O₃ Nanoparticles Induced by Thermal Treatment and Laser Irradiation. Journal of Physical Chemistry C, 2012, 116, 23785-23792.	1.5	98
35	On the texture problem in Mossbauer spectroscopy. Journal of Physics C: Solid State Physics, 1982, 15, 5333-5344.	1.5	97
36	New evidences of in situ laser irradiation effects on Î³â€Fe₂O₃ nanoparticles: a Raman spectroscopic study. Journal of Raman Spectroscopy, 2011, 42, 239-242.	1.2	97

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37	Structural properties of Fe50Co50 nanostructured powder prepared by mechanical alloying. Journal of Alloys and Compounds, 2005, 386, 12-19.	2.8	95
38	Direct phase transformation from hematite to maghemite during high energy ball milling. Materials Letters, 2001, 47, 150-158.	1.3	94
39	Nickel ferrite nanoparticles: elaboration in polyol medium via hydrolysis, and magnetic properties. Journal of Physics Condensed Matter, 2004, 16, 4357-4372.	0.7	93
40	Removal of cationic dyes from aqueous solutions using N-benzyl-O-carboxymethylchitosan magnetic nanoparticles. Chemical Engineering Journal, 2012, 183, 284-293.	6.6	92
41	Electrical and magnetic properties of chemically derived nanocrystalline cobalt ferrite. Journal of Applied Physics, 2007, 102, .	1.1	88
42	Hydrothermal Synthesis, Structure, and Magnetic Properties of a Novel Monodimensional Iron Phosphate:â€‰ [FeF(HPO4)2,N2C3H12,(H2O)x] (x â‰ˆ 0.20) (ULM-14). Inorganic Chemistry, 1997, 36, 2187-2190.	1.9	81
43	Magnetic properties of zinc ferrite nanoparticles synthesized by hydrolysis in a polyol medium. Journal of Physics Condensed Matter, 2006, 18, 9055-9069.	0.7	73
44	Series of Porous 3-D Coordination Polymers Based on Iron(III) and Porphyrin Derivatives. Chemistry of Materials, 2011, 23, 4641-4651.	3.2	73
45	The impact of oscillating redox conditions: Arsenic immobilisation in contaminated calcareous floodplain soils. Environmental Pollution, 2013, 178, 254-263.	3.7	73
46	Maghemite-nanoMIL-100(Fe) Bimodal Nanovector as a Platform for Image-Guided Therapy. CheM, 2017, 3, 303-322.	5.8	72
47	Reversible surface-sorption-induced electron-transfer oxidation of Fe(II) at reactive sites on a synthetic clay mineral. Geochimica Et Cosmochimica Acta, 2007, 71, 863-876.	1.6	71
48	Tuning of Synthesis Conditions by Thermal Decomposition toward Coreâ€“Shell Co_xFe_{1â€“x}O@Co_yFe_{3â€“y}O₄ and CoFe₂O₄ Nanoparticles with Spherical and Cubic Shapes. Chemistry of Materials, 2014, 26, 5063-5073.	3.2	70
49	High Exchange Bias in Fe_{3â^Î´}O₄@CoO Core Shell Nanoparticles Synthesized by a One-Pot Seed-Mediated Growth Method. Journal of Physical Chemistry C, 2013, 117, 11436-11443.	1.5	66
50	Magnetic interaction evidence in Î±-Fe2O3 nanoparticles by magnetization and MÃ¶ssbauer measurements. Journal of Magnetism and Magnetic Materials, 1999, 204, 29-35.	1.0	64
51	Isomorphous Substitution in a Flexible Metalâ€“Organic Framework: Mixed-Metal, Mixed-Valent MIL-53 Type Materials. Inorganic Chemistry, 2013, 52, 8171-8182.	1.9	64
52	Microstructural investigation and magnetic properties of CoFe2O4nanowires synthesized inside carbon nanotubes. Physical Chemistry Chemical Physics, 2003, 5, 3716-3723.	1.3	63
53	New contributions to the understanding of rust layer formation in steels exposed to a total immersion test. Corrosion Science, 2006, 48, 2813-2830.	3.0	63
54	Direct accessibility of mixed-metal (<scp>iii</scp>/<scp>ii</scp>) acid sites through the rational synthesis of porous metal carboxylates. Chemical Communications, 2015, 51, 10194-10197.	2.2	63

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55	Study of the iron/trimesic acid system for the hydrothermal synthesis of hybrid materials. Journal of Materials Chemistry, 2001, 11, 3166-3171.	6.7	62
56	Nanocomposite Pyriteâ€“Greigite Reactivity toward Se(IV)/Se(VI). Environmental Science & Technology, 2012, 46, 4869-4876.	4.6	62
57	Microwave Absorption and the Magnetic Hyperthermia Applications of Li_{0.3}Zn_{0.3}Co_{0.1}Fe_{2.3}O₄ Nanoparticles in Multiwalled Carbon Nanotube Matrix. ACS Applied Materials & Interfaces, 2017, 9, 40831-40845.	4.0	62
58	Structure and MÃ¶ssbauer Studies of Fâ^'O Ordering in Antiferromagnetic Perovskite PbFeO2F. Chemistry of Materials, 2005, 17, 1386-1390.	3.2	61
59	Iron oxide nanoparticles hosted in silica aerogels. Applied Physics A: Materials Science and Processing, 2002, 74, 591-597.	1.1	60
60	Size-dependent magnetic properties of CoFe₂O₄nanoparticles prepared in polyol. Journal of Physics Condensed Matter, 2011, 23, 506001.	0.7	60
61	Evolution of the magnetic structure with chemical composition in spinel iron oxide nanoparticles. Nanoscale, 2015, 7, 13576-13585.	2.8	60
62	Annealing Effect on the Magnetic Properties of Polyol-made Niâ^'Zn Ferrite Nanoparticles. Chemistry of Materials, 2010, 22, 1350-1366.	3.2	59
63	MÃ¶ssbauer spectrometry of Fe(Cu)MB-type nanocrystalline alloys: II. The topography of hyperfine interactions in Fe(Cu)ZrB alloys. Journal of Physics Condensed Matter, 1997, 9, 2321-2347.	0.7	58
64	Magnetic properties of nanostructured ball-milled Fe and Fe50Co50alloy. Journal of Physics Condensed Matter, 2006, 18, 7257-7272.	0.7	56
65	Characterisation of iron inclusion during the formation of calcium sulfoaluminate phase. Cement and Concrete Research, 2010, 40, 1314-1319.	4.6	56
66	Iron and Porphyrin Metalâ€“Organic Frameworks: Insight into Structural Diversity, Stability, and Porosity. Crystal Growth and Design, 2015, 15, 1819-1826.	1.4	55
67	Synthesis, structure and properties of a semivalent iron oxoborate, Fe2OBO3. Journal of Materials Chemistry, 1999, 9, 205-209.	6.7	54
68	New analysis of the MÃ¶ssbauer spectra of akaganeite. Journal of Physics Condensed Matter, 2006, 18, 6827-6840.	0.7	51
69	Local Atomic Structure and Magnetic Ordering of Iron in Feâ^'Chitosan Complexes. Biomacromolecules, 2008, 9, 1586-1594.	2.6	51
70	Microstructural Investigation of Magnetic CoFe2O4Nanowires inside Carbon Nanotubes by Electron Tomography. Nano Letters, 2008, 8, 1033-1040.	4.5	50
71	Ferrimagnetic ordering in nanostructured zinc ferrite. Scripta Materialia, 2001, 44, 1407-1410.	2.6	48
72	Synthesis, Structure, and MÃ¶ssbauer Study of [Fe(H2O)2(C9O6H4)]Â·H2O:Â A Two-Dimensional Iron(II) Trimellitate (MIL-67). Inorganic Chemistry, 2003, 42, 5669-5674.	1.9	48

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73	The first ferric carboxylate with a three-dimensional hydrid open-framework (MIL-82): its synthesis, structure, magnetic behavior and study of its dehydration by MÃ¶ssbauer spectroscopy. Solid State Sciences, 2004, 6, 853-858.	1.5	48
74	Isomorphous Substitution of Transition-Metal Ions in the Nanoporous Nickel Phosphate VSB-5. Journal of Physical Chemistry B, 2005, 109, 845-850.	1.2	48
75	Effect of mechanical milling on the electrical and magnetic properties of nanostructured Ni0.5Zn0.5Fe2O4. Journal Physics D: Applied Physics, 2006, 39, 4688-4694.	1.3	47
76	Adsorption of Hydrogen Gas and Redox Processes in Clays. Environmental Science & Technology, 2012, 46, 3574-3579.	4.6	47
77	Structural behavior of laser-irradiated Î³-Fe₂O₃ nanocrystals dispersed in porous silica matrix : Î³-Fe₂O₃ to Î±-Fe₂O₃ phase transition and formation of Îµ-Fe₂O₃. Science and Technology of Advanced Materials, 2016, 17, 597-609.	2.8	47
78	Evolution of REFe2 (REâ€¯=â€¯rare earth) phase in Nd-Ce-Fe-B magnets and resultant Ce segregation. Scripta Materialia, 2019, 170, 150-155.	2.6	47
79	Effect of boron on structural and magnetic properties of the Fe60Al40 system prepared by mechanical alloying. Journal of Alloys and Compounds, 2005, 398, 26-32.	2.8	46
80	Î²-Cu3Fe4(VO4)6: Structural Study and Relationships; Physical Properties. Journal of Solid State Chemistry, 1994, 108, 1-10.	1.4	45
81	Ferrimagnetic ordering in nanostructured CdFe2O4 spinel. Journal of Applied Physics, 2001, 90, 527-529.	1.1	45
82	Synthesis, Characterization, and Properties of an Open-Framework Iron(III) Dicarboxylate:Â MIL-85 or FeIII2O{O2Câ^'CH3}2{O2Câ^'C6H4â^'CO2}Â·2CH3OH. Chemistry of Materials, 2004, 16, 2706-2711.	3.2	44
83	Study of alloying mechanisms of ball milled Feâ€“Cr and Feâ€“Crâ€“Co powders. Journal of Magnetism and Magnetic Materials, 2005, 288, 282-296.	1.0	44
84	Magnetism in non-stoichiometric goethite of varying total water content and surface area. Geophysical Journal International, 2006, 164, 331-339.	1.0	44
85	Systematic Study of Exchange Coupling in Coreâ€“Shell Fe_{3â^'Î´}O₄@CoO Nanoparticles. Chemistry of Materials, 2015, 27, 4073-4081.	3.2	44
86	Grain boundary engineering towards high-figure-of-merit Nd-Ce-Fe-B sintered magnets: Synergetic effects of (Nd, Pr)Hx and Cu co-dopants. Acta Materialia, 2021, 204, 116529.	3.8	44
87	Spin Canting of Maghemite Studied by NMR and In-Field MÃ¶ssbauer Spectrometry. Journal of Physical Chemistry C, 2010, 114, 8794-8799.	1.5	43
88	Enhanced NÃ©el temperature in Mn ferrite nanoparticles linked to growth-rate-induced cation inversion. Nanotechnology, 2009, 20, 185704.	1.3	42
89	Intracellular biosynthesis of superparamagnetic 2-lines ferri-hydrite nanoparticles using Euglena gracilis microalgae. Colloids and Surfaces B: Biointerfaces, 2012, 93, 20-23.	2.5	42
90	Structural and magnetic properties of metastable Fe1-xSix(0.15<x<0.34) alloys prepared by a rapid-quenching technique. Journal of Physics Condensed Matter, 2002, 14, 1985-2000.	0.7	41

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91	Adsorption of Cr(VI) on crosslinked chitosanâ€“Fe(III) complex in fixed-bed systems. Journal of Water Process Engineering, 2015, 7, 141-152.	2.6	41
92	Hydrothermal Synthesis, Powder Structural Determination, and Magnetic Study of the Novel Hydrated Iron Diphosphonate [Fe2(H2O)2(O3Pâ€“CH2â€“PO3H)2](H2O)2 or MIL-13. Journal of Solid State Chemistry, 1999, 147, 122-131.	1.4	40
93	Surface anisotropy in maghemite nanoparticles. Physica B: Condensed Matter, 2006, 384, 221-223.	1.3	40
94	Synthesis, characterization and in vitro drug release of magnetic N-benzyl-O-carboxymethylchitosan nanoparticles loaded with indomethacin. Acta Biomaterialia, 2011, 7, 3078-3085.	4.1	40
95	Thermomechanical Polymer Binder Reactivity with Positive Active Materials for Li Metal Polymer and Li-Ion Batteries: An XPS and XPS Imaging Study. ACS Applied Materials & Interfaces, 2019, 11, 18368-18376.	4.0	40
96	Cation exchanged Fe(II) and Sr compared to other divalent cations (Ca,Mg) in the bure Callovianâ€“Oxfordian formation: Implications for porewater composition modelling. Applied Geochemistry, 2008, 23, 641-654.	1.4	39
97	A magnetic nanogel based on O-carboxymethylchitosan for antitumor drug delivery: synthesis, characterization and in vitro drug release. Soft Matter, 2014, 10, 3441.	1.2	39
98	Enhancing the magnetic anisotropy of maghemite nanoparticles via the surface coordination of molecular complexes. Nature Communications, 2015, 6, 10139.	5.8	39
99	Lost iron and iron converted into rust in steels submitted to dryâ€“wet corrosion process. Corrosion Science, 2008, 50, 763-772.	3.0	38
100	Unravelling the effect of interparticle interactions and surface spin canting in Î³-Fe2O3@SiO2 superparamagnetic nanoparticles. Journal of Applied Physics, 2011, 109, .	1.1	38
101	Grain size effect on the phase transformation temperature of nanostructured CuFe2O4. Journal of Applied Physics, 2011, 109, .	1.1	38
102	Influences of element segregation on the magnetic properties in nanocrystalline Nd-Ce-Fe-B alloys. Materials Characterization, 2019, 148, 208-213.	1.9	38
103	Magnetically Recoverable Palladium(0) Nanocomposite Catalyst for Hydrogenation Reactions in Water. ChemCatChem, 2015, 7, 309-315.	1.8	37
104	Atomic scale modeling of iron-doped biphasic calcium phosphate bioceramics. Acta Biomaterialia, 2017, 50, 78-88.	4.1	36
105	Spectroscopic studies of arsenic retention onto biotite. Chemical Geology, 2011, 281, 83-92.	1.4	35
106	Microstructure and magnetism of nanoparticles with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î³</mml:mi><mml:mtext>-Fe</mml:mtext></mml:mrow></mml:math>core surrounded by<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>-Fe</mml:mtext></mml:mrow></mml:math>and iron oxide shells. Physical Review B, 2010, 81, .	1.1	34
107	FeIII/FeII regular charge order in metalâ€“organic framework. Chemical Communications, 2010, 46, 7987.	2.2	34
108	Tin- and titanium-doped Î³-Fe2O3(maghemite). Journal of Physics Condensed Matter, 2001, 13, 10785-10797.	0.7	32

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109	Iron-Doped (La,Sr)MnO3 Manganites as Promising Mediators of Self-Controlled Magnetic Nanohyperthermia. Nanoscale Research Letters, 2016, 11, 24.	3.1	32
110	Structureâ€“Propertyâ€“Function Relationships of Iron Oxide Multicore Nanoflowers in Magnetic Hyperthermia and Photothermia. ACS Nano, 2022, 16, 271-284.	7.3	32
111	Iron-based nanocrystalline alloys investigated by 57Fe MÃ¶ssbauer spectrometry. , 2000, 126, 27-34.		31
112	Microstructural modelling of nanostructured fluoride powders prepared by mechanical milling. Journal of Physics Condensed Matter, 2000, 12, 4791-4798.	0.7	31
113	Synthesis, structure and metamagnetic behaviour of a three-dimensional Fe(II) carboxyethylphosphonate: [Fe3(OH)2(H2O)4(O3Pî—¸(CH2)2î—¸CO2H)2] or MIL-38. Solid State Sciences, 2002, 4, 619-625.	1.5	31
114	Synthesis, MÃ¶ssbauer Characterization, and Ab Initio Modeling of Iron Oxide Nanoparticles of Medical Interest Functionalized by Dopamine. Journal of Physical Chemistry C, 2013, 117, 14295-14302.	1.5	31
115	Ferrimagnetic order in Ca2FeMoO6. Journal of Applied Physics, 2000, 87, 7118-7120.	1.1	30
116	Goldâ€“iron oxide dimers for magnetic hyperthermia: the key role of chloride ions in the synthesis to boost the heating efficiency. Journal of Materials Chemistry B, 2017, 5, 4587-4594.	2.9	30
117	Aggregation Control of Hydrophilic Maghemite (Î³-Fe₂O₃) Nanoparticles by Surface Doping Using Cerium Atoms. Journal of the American Chemical Society, 2010, 132, 12519-12521.	6.6	29
118	Structure and magnetic properties of nanocrystalline ferrimagnetic CdFe 2 O 4 spinel. Scripta Materialia, 2001, 44, 1411-1415.	2.6	28
119	Design of stable mixed-metal MIL-101(Cr/Fe) materials with enhanced catalytic activity for the Prins reaction. Journal of Materials Chemistry A, 2020, 8, 17002-17011.	5.2	28
120	Carbon nanotubes as a template for mild synthesis of magnetic CoFe2O4 nanowires. Carbon, 2004, 42, 1395-1399.	5.4	27
121	Synthesis of Transition-Metal-Incorporated Nickel Phosphate Molecular Sieves TMIâ^'VSB-1. Chemistry of Materials, 2004, 16, 5552-5555.	3.2	27
122	Effect of ball-milling and Fe-/Al-doping on the structural aspect and visible light photocatalytic activity of TiO2 towards Escherichia coli bacteria abatement. Materials Science and Engineering C, 2014, 38, 11-19.	3.8	27
123	New series of hybrid fluoroferrates synthesized with triazoles: various dimensionalities and MÃ¶ssbauer studies. Dalton Transactions, 2013, 42, 15748.	1.6	26
124	Improvement of Thermal Stability of Maghemite Nanoparticles Coated with Oleic Acid and Oleylamine Molecules: Investigations under Laser Irradiation. Journal of Physical Chemistry C, 2015, 119, 10662-10668.	1.5	26
125	Low Oxidation State and Enhanced Magnetic Properties Induced by Raspberry Shaped Nanostructures of Iron Oxide. Journal of Physical Chemistry C, 2015, 119, 24665-24673.	1.5	25
126	Amorphous Ironâ€“Manganese Oxyfluorides, Promising Catalysts for Oxygen Evolution Reaction under Acidic Media. ACS Applied Energy Materials, 2021, 4, 1173-1181.	2.5	25

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127	Mild synthesis of CoFe2O4 nanowires using carbon nanotube template: a high-coercivity material at room temperature. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1642-1644.	1.0	24
128	Magnetic properties of FeCo alloy nanoparticles synthesized through instant chemical reduction. Journal of Applied Physics, 2016, 120, .	1.1	24
129	Hydrothermal synthesis, structural approach, magnetic and MÃ¶ssbauer study of the layered Fe(III) carboxyethylphosphonate [Fe(OH)(H2O)(O3P-(CH2)2-CO2H)] or MIL-37. Solid State Sciences, 2000, 2, 717-724.	1.5	23
130	Effect of chain length and electrical charge on properties of ammonium-bearing bisphosphonate-coated superparamagnetic iron oxide nanoparticles: formulation and physicochemical studies. Journal of Nanoparticle Research, 2010, 12, 1239-1248.	0.8	23
131	Enhanced heterotrophic denitrification in clay media: The role of mineral electron donors. Chemical Geology, 2014, 390, 87-99.	1.4	23
132	Unveiling the role of surface, size, shape and defects of iron oxide nanoparticles for theranostic applications. Nanoscale, 2021, 13, 14552-14571.	2.8	23
133	Magnetic properties of nanocomposites containing Fe-Ni or Fe dispersed in a Mn-Zn ferrite matrix. IEEE Transactions on Magnetics, 2002, 38, 3015-3017.	1.2	22
134	Hydrothermal Synthesis, Structure, and Magnetic Properties of a Layered Fe(III) Carboxymethylphosphonate: [Fe(H2O)(O3Pâ€“CH2â€“CO2)] or MIL-49. Journal of Solid State Chemistry, 2002, 164, 354-360.	1.4	22
135	Combining Soft Chemistry and Spark Plasma Sintering to Produce Highly Dense and Finely Grained Soft Ferrimagnetic <scp><scp>Y</scp></scp>₃<scp><scp>Fe</scp></scp>₅<scp><scp>O</scp></scp>₁₂ (<scp>YIG</scp>) Ceramics. Journal of the American Ceramic Society, 2013, 96, 3094-3099.	1.9	22
136	Influence of microstructure on the magnetic and mechanical behaviour of amorphous and nanocrystalline FeNbB alloy. Journal of Physics Condensed Matter, 2002, 14, 4717-4736.	0.7	21
137	Structural and Magnetic Properties of Nanostructured Oxides Investigated by57Fe MÃ¶ssbauer Spectrometry. Hyperfine Interactions, 2003, 148/149, 79-89.	0.2	21
138	Thermodynamic properties of saponite, nontronite, and vermiculite derived from calorimetric measurements. American Mineralogist, 2013, 98, 1834-1847.	0.9	21
139	Eighteen years of steelâ€“bentonite interaction in the FEBEX in situ test at the Grimsel Test Site in Switzerland. Clays and Clay Minerals, 2019, 67, 111-131.	0.6	21
140	MÂssbauer, magnetization and crystal structure studies of the double perovskites Sr2FeMo1ÂxWxO6,xÂ 0, 0.1, 0.2, 0.3 and 0.4. Journal of Physics Condensed Matter, 2002, 14, 12611-12627.	0.7	20
141	Metastable (Bi, M)₂(Fe, Mn, Bi)₂O_{6+x} (M = Na or K) Pyrochlores from Hydrothermal Synthesis. Inorganic Chemistry, 2014, 53, 13197-13206.	1.9	20
142	Hydrothermal Synthesis, Structure, and Magnetic Characterization of a New Ferrimagnetic Open Framework Phosphate: MIL-21 or [FeIII5â˜xVIIIx(H2PO4)4(HPO4)4F4(H2O)2, 4(H2+yNâ€“(CH2)2â€“NH2+y)] with a Partial Cationic Disorder. Journal of Solid State Chemistry, 1999, 148, 150-157.	1.4	19
143	The effects of Sc and Nb substitution in Sr2FeReO6 double perovskites. A combined study of XÂray powder diffraction and MÃ¶ssbauer spectroscopy. Journal of Materials Chemistry, 2001, 11, 253-256.	6.7	19
144	Temperature behaviour of iron nanograins in Nanoperm-type alloys. Journal of Physics Condensed Matter, 2003, 15, 5637-5648.	0.7	19

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145	The Contribution of 57Fe MÃ¶ssbauer Spectrometry to Investigate Magnetic Nanomaterials. , 2013, , 187-241.		19
146	On the exact crystal structure of exchange-biased Fe₃O₄â€“CoO nanoaggregates produced by seed-mediated growth in polyol. CrystEngComm, 2016, 18, 3799-3807.	1.3	19
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