

# Jean-Marc Greneche

## List of Publications by Citations

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268  
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104  
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278  
ext. papers

13,669  
ext. citations

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L-index

#	Paper	IF	Citations
268	Synthesis and catalytic properties of MIL-100(Fe), an iron(III) carboxylate with large pores. <i>Chemical Communications</i> , <b>2007</b> , 2820-2	5.8	997
267	Mixed-valence li/fe-based metal-organic frameworks with both reversible redox and sorption properties. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 3259-63	16.4	518
266	Hydrothermal Synthesis of Monodisperse Magnetite Nanoparticles. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 4399-4404	9.6	496
265	Controlled reducibility of a metal-organic framework with coordinatively unsaturated sites for preferential gas sorption. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 5949-52	16.4	430
264	Functionalization in flexible porous solids: effects on the pore opening and the host-guest interactions. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 1127-36	16.4	384
263	Superparamagnetic MFe <sub>2</sub> O <sub>4</sub> (M = Fe, Co, Mn) Nanoparticles: Tuning the Particle Size and Magnetic Properties through a Novel One-Step Coprecipitation Route. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 1496-1504	9.6	364
262	Phosphate Adsorption Properties of Magnetite-Based Nanoparticles. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 4494-4505	9.6	317
261	Coupling Agent Effect on Magnetic Properties of Functionalized Magnetite-Based Nanoparticles. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 5869-5875	9.6	266
260	Magnetic properties of nanostructured ferrimagnetic zinc ferrite. <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, 7795-7805	1.8	265
259	Surface-related properties of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2000</b> , 221, 63-79	2.8	253
258	Effect of the nature of the metal on the breathing steps in MOFs with dynamic frameworks. <i>Chemical Communications</i> , <b>2008</b> , 4732-4	5.8	245
257	Magnetic Iron Oxide Nanoparticles in 10-40 nm Range: Composition in Terms of Magnetite/Maghemite Ratio and Effect on the Magnetic Properties. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 1379-1386	9.6	244
256	Biodegradable therapeutic MOFs for the delivery of bioactive molecules. <i>Chemical Communications</i> , <b>2010</b> , 46, 4526-8	5.8	235
255	Stable polyoxometalate insertion within the mesoporous metal organic framework MIL-100(Fe). <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 1226-1233		216
254	Magnetic Iron Oxide Nanoparticles: Reproducible Tuning of the Size and Nanosized-Dependent Composition, Defects, and Spin Canting. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 3795-3810	3.8	195
253	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. <i>ACS Catalysis</i> , <b>2012</b> , 2, 2060-2065	13.1	167
252	Synthesis, Structure, Characterization, and Redox Properties of the Porous MIL-68(Fe) Solid. <i>European Journal of Inorganic Chemistry</i> , <b>2010</b> , 2010, 3789-3794	2.3	157

251	Electron transfer at the mineral/water interface: Selenium reduction by ferrous iron sorbed on clay. <i>Geochimica Et Cosmochimica Acta</i> , <b>2007</b> , 71, 5731-5749	5.5	151
250	Bioinspired Iron Sulfide Nanoparticles for Cheap and Long-Lived Electrocatalytic Molecular Hydrogen Evolution in Neutral Water. <i>ACS Catalysis</i> , <b>2014</b> , 4, 681-687	13.1	135
249	Magnetic properties of CoFe <sub>1.9</sub> RE <sub>0.1</sub> O <sub>4</sub> nanoparticles (RE=La, Ce, Nd, Sm, Eu, Gd, Tb, Ho) prepared in polyol. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2008</b> , 320, 3242-3250	2.8	135
248	Redox potential measurements and Mössbauer spectrometry of FeII adsorbed onto FeIII (oxyhydr)oxides. <i>Geochimica Et Cosmochimica Acta</i> , <b>2005</b> , 69, 4801-4815	5.5	122
247	Surface effects in noninteracting and interacting Fe <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 262, 6-14	2.8	119
246	Surface anisotropy in ferromagnetic nanoparticles. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 8715	2.5	105
245	Electrostatically driven charge-ordering in Fe <sub>2</sub> OBO <sub>3</sub> . <i>Nature</i> , <b>1998</b> , 396, 655-658	50.4	103
244	Mixed-Valence Li/Fe-Based Metal-Organic Frameworks with Both Reversible Redox and Sorption Properties. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 3323-3327	3.6	103
243	NEL temperature enhancement in nanostructured nickel zinc ferrite. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 192510	3.4	98
242	Crystal and Magnetic Structure of YBaCuFeO <sub>5</sub> . <i>Journal of Solid State Chemistry</i> , <b>1995</b> , 114, 24-35	3.3	92
241	On the texture problem in Mossbauer spectroscopy. <i>Journal of Physics C: Solid State Physics</i> , <b>1982</b> , 15, 5333-5344		92
240	Cationic distribution and spin canting in CoFe <sub>2</sub> O <sub>4</sub> nanoparticles. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 426004	1.8	89
239	Magnetic properties of Zn-substituted MnFe <sub>2</sub> O <sub>4</sub> nanoparticles synthesized in polyol as potential heating agents for hyperthermia. Evaluation of their toxicity on Endothelial cells. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 5420-5429	9.6	89
238	[Fe <sub>4</sub> (PO <sub>4</sub> ) <sub>4</sub> F <sub>2</sub> (H <sub>2</sub> O) <sub>3</sub> ] · [C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> ] or ULM-12, the first magnetic ferric phosphate with an open structure: Hydrothermal synthesis, structure, and magnetic properties. <i>Zeolites</i> , <b>1996</b> , 17, 250-260		88
237	Mössbauer spectrometry of Fe(Cu)MB-type nanocrystalline alloys: I. The fitting model for the Mössbauer spectra. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 2303-2319	1.8	87
236	Nickel ferrite nanoparticles: elaboration in polyol medium via hydrolysis, and magnetic properties. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, 4357-4372	1.8	85
235	Structural properties of Fe <sub>50</sub> Co <sub>50</sub> nanostructured powder prepared by mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 386, 12-19	5.7	84
234	Low-Cost Nanostructured Iron Sulfide Electrocatalysts for PEM Water Electrolysis. <i>ACS Catalysis</i> , <b>2016</b> , 6, 2626-2631	13.1	83

233	Removal of cationic dyes from aqueous solutions using N-benzyl-O-carboxymethylchitosan magnetic nanoparticles. <i>Chemical Engineering Journal</i> , <b>2012</b> , 183, 284-293	14.7	83
232	Electrical and magnetic behaviour of nanostructured MgFe <sub>2</sub> O <sub>4</sub> spinel ferrite. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 504, 395-402	5.7	83
231	The titration of clay minerals I. Discontinuous backtitration technique combined with CEC measurements. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 273, 224-33	9.3	82
230	Direct phase transformation from hematite to maghemite during high energy ball milling. <i>Materials Letters</i> , <b>2001</b> , 47, 150-158	3.3	80
229	Electrical and magnetic properties of chemically derived nanocrystalline cobalt ferrite. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 013916	2.5	78
228	New evidences of in situ laser irradiation effects on Fe <sub>2</sub> O <sub>3</sub> nanoparticles: a Raman spectroscopic study. <i>Journal of Raman Spectroscopy</i> , <b>2011</b> , 42, 239-242	2.3	77
227	Insights into the Mechanism Related to the Phase Transition from Fe <sub>2</sub> O <sub>3</sub> to Fe <sub>3</sub> O <sub>4</sub> Nanoparticles Induced by Thermal Treatment and Laser Irradiation. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 23785-23792	3.8	73
226	Hydrothermal Synthesis, Structure, and Magnetic Properties of a Novel Monodimensional Iron Phosphate: [FeF(HPO <sub>4</sub> )( <sub>2</sub> ),N( <sub>2</sub> )C( <sub>3</sub> )H( <sub>12</sub> ),(H( <sub>2</sub> O)( <sub>x</sub> ))] (x approximately 0.20) (ULM-14). <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 2187-2190	5.1	73
225	Series of Porous 3-D Coordination Polymers Based on Iron(III) and Porphyrin Derivatives. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 4641-4651	9.6	66
224	Reversible surface-sorption-induced electron-transfer oxidation of Fe(II) at reactive sites on a synthetic clay mineral. <i>Geochimica Et Cosmochimica Acta</i> , <b>2007</b> , 71, 863-876	5.5	63
223	Magnetic properties of zinc ferrite nanoparticles synthesized by hydrolysis in a polyol medium. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 9055-9069	1.8	60
222	Tuning of Synthesis Conditions by Thermal Decomposition toward Core/Shell Co <sub>x</sub> Fe <sub>1-x</sub> [email protected]Fe <sub>3</sub> O <sub>4</sub> and CoFe <sub>2</sub> O <sub>4</sub> Nanoparticles with Spherical and Cubic Shapes. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 5063-5073	9.6	59
221	High Exchange Bias in Fe <sub>3</sub> O <sub>4</sub> @CoO Core Shell Nanoparticles Synthesized by a One-Pot Seed-Mediated Growth Method. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 11436-11443	3.8	59
220	Microstructural investigation and magnetic properties of CoFe <sub>2</sub> O <sub>4</sub> nanowires synthesized inside carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , <b>2003</b> , 5, 3716-3723	3.6	59
219	Annealing Effect on the Magnetic Properties of Polyol-made Ni <sub>2</sub> Zn Ferrite Nanoparticles. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 1350-1366	9.6	57
218	Iron oxide nanoparticles hosted in silica aerogels. <i>Applied Physics A: Materials Science and Processing</i> , <b>2002</b> , 74, 591-597	2.6	57
217	Structure and Mössbauer Studies of Fe Ordering in Antiferromagnetic Perovskite PbFe <sub>2</sub> O <sub>7</sub> . <i>Chemistry of Materials</i> , <b>2005</b> , 17, 1386-1390	9.6	56
216	Isomorphous substitution in a flexible metal-organic framework: mixed-metal, mixed-valent MIL-53 type materials. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 8171-82	5.1	54

215	New contributions to the understanding of rust layer formation in steels exposed to a total immersion test. <i>Corrosion Science</i> , <b>2006</b> , 48, 2813-2830	6.8	54
214	Study of the iron/trimesic acid system for the hydrothermal synthesis of hybrid materials. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 3166-3171		54
213	Controlled Reducibility of a Metal-Organic Framework with Coordinatively Unsaturated Sites for Preferential Gas Sorption. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 6085-6088	3.6	53
212	Synthesis, structure and properties of a semivalent iron oxoborate, Fe <sub>2</sub> OBO <sub>3</sub> . <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 205-209		53
211	Nanocomposite pyrite-greigite reactivity toward Se(IV)/Se(VI). <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 4869-76	10.3	52
210	Mössbauer spectrometry of Fe(Cu)MB-type nanocrystalline alloys: II. The topography of hyperfine interactions in Fe(Cu)ZrB alloys. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 2321-2347	1.8	52
209	Magnetic interaction evidence in Fe <sub>2</sub> O <sub>3</sub> nanoparticles by magnetization and Mössbauer measurements. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1999</b> , 204, 29-35	2.8	51
208	Size-dependent magnetic properties of CoFe <sub>2</sub> O <sub>4</sub> nanoparticles prepared in polyol. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 506001	1.8	50
207	Evolution of the magnetic structure with chemical composition in spinel iron oxide nanoparticles. <i>Nanoscale</i> , <b>2015</b> , 7, 13576-85	7.7	49
206	Local atomic structure and magnetic ordering of iron in Fe-chitosan complexes. <i>Biomacromolecules</i> , <b>2008</b> , 9, 1586-94	6.9	49
205	Magnetic properties of nanostructured ball-milled Fe and Fe <sub>50</sub> Co <sub>50</sub> alloy. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 7257-7272	1.8	49
204	Maghemite-nanoMIL-100(Fe) Bimodal Nanovector as a Platform for Image-Guided Therapy. <i>Chem</i> , <b>2017</b> , 3, 303-322	16.2	48
203	The impact of oscillating redox conditions: arsenic immobilisation in contaminated calcareous floodplain soils. <i>Environmental Pollution</i> , <b>2013</b> , 178, 254-63	9.3	47
202	Direct accessibility of mixed-metal (III/II) acid sites through the rational synthesis of porous metal carboxylates. <i>Chemical Communications</i> , <b>2015</b> , 51, 10194-7	5.8	46
201	Microstructural investigation of magnetic CoFe <sub>2</sub> O <sub>4</sub> nanowires inside carbon nanotubes by electron tomography. <i>Nano Letters</i> , <b>2008</b> , 8, 1033-40	11.5	46
200	Isomorphous substitution of transition-metal ions in the nanoporous nickel phosphate VSB-5. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 845-50	3.4	45
199	Microwave Absorption and the Magnetic Hyperthermia Applications of LiZnCoFeO Nanoparticles in Multiwalled Carbon Nanotube Matrix. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 40831-40845	9.5	44
198	Synthesis, structure, and Mössbauer study of [Fe(H <sub>2</sub> O)(2)(C(9)O(6)H <sub>4</sub> )]·H <sub>2</sub> O: a two-dimensional iron(II) trimellitate (MIL-67). <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 5669-74	5.1	44

197	$\text{ECu}_3\text{Fe}_4(\text{VO}_4)_6$ : Structural Study and Relationships; Physical Properties. <i>Journal of Solid State Chemistry</i> , <b>1994</b> , 108, 1-10	3.3	44
196	Iron and Porphyrin Metal-Organic Frameworks: Insight into Structural Diversity, Stability, and Porosity. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 1819-1826	3.5	43
195	New analysis of the Mössbauer spectra of akaganeite. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, 6827-6840	1.8	42
194	Ferrimagnetic ordering in nanostructured $\text{CdFe}_2\text{O}_4$ spinel. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 527-529	2.5	42
193	Characterisation of iron inclusion during the formation of calcium sulfoaluminate phase. <i>Cement and Concrete Research</i> , <b>2010</b> , 40, 1314-1319	10.3	41
192	Effect of boron on structural and magnetic properties of the $\text{Fe}_{60}\text{Al}_{40}$ system prepared by mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 398, 26-32	5.7	40
191	Synthesis, Characterization, and Properties of an Open-Framework Iron(III) Dicarboxylate: MIL-85 or $\text{FeIII}_2\text{O}\{\text{O}_2\text{C}\text{C}_6\text{H}_4\text{CO}_2\}_2\text{CH}_3\text{OH}$ . <i>Chemistry of Materials</i> , <b>2004</b> , 16, 2706-2711	9.6	40
190	Spin Canting of Maghemite Studied by NMR and In-Field Mössbauer Spectrometry. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 8794-8799	3.8	39
189	Magnetism in non-stoichiometric goethite of varying total water content and surface area. <i>Geophysical Journal International</i> , <b>2006</b> , 164, 331-339	2.6	39
188	Study of alloying mechanisms of ball milled $\text{Fe}_{1-x}\text{Co}_x$ and $\text{Fe}_{1-x}\text{Ni}_x$ powders. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 288, 282-296	2.8	39
187	Ferrimagnetic ordering in nanostructured zinc ferrite. <i>Scripta Materialia</i> , <b>2001</b> , 44, 1407-1410	5.6	39
186	Enhanced Néel temperature in Mn ferrite nanoparticles linked to growth-rate-induced cation inversion. <i>Nanotechnology</i> , <b>2009</b> , 20, 185704	3.4	38
185	Effect of mechanical milling on the electrical and magnetic properties of nanostructured $\text{Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$ . <i>Journal Physics D: Applied Physics</i> , <b>2006</b> , 39, 4688-4694	3	38
184	The first ferric carboxylate with a three-dimensional hybrid open-framework (MIL-82): its synthesis, structure, magnetic behavior and study of its dehydration by Mössbauer spectroscopy. <i>Solid State Sciences</i> , <b>2004</b> , 6, 853-858	3.4	38
183	Synthesis, characterization and in vitro drug release of magnetic N-benzyl-O-carboxymethylchitosan nanoparticles loaded with indomethacin. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 3078-85	10.8	37
182	Surface anisotropy in maghemite nanoparticles. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 384, 221-223	2.8	37
181	Intracellular biosynthesis of superparamagnetic 2-lines ferri-hydrate nanoparticles using <i>Euglena gracilis</i> microalgae. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2012</b> , 93, 20-3	6	36
180	Structural behavior of laser-irradiated $\gamma\text{-Fe}_2\text{O}_3$ nanocrystals dispersed in porous silica matrix: $\gamma\text{-Fe}_2\text{O}_3$ to $\alpha\text{-Fe}_2\text{O}_3$ phase transition and formation of $\alpha\text{-Fe}_2\text{O}_3$ . <i>Science and Technology of Advanced Materials</i> , <b>2016</b> , 17, 597-609	7.1	36

179	Cation exchanged Fe(II) and Sr compared to other divalent cations (Ca,Mg) in the bore CallovianOxfordian formation: Implications for porewater composition modelling. <i>Applied Geochemistry</i> , <b>2008</b> , 23, 641-654	3.5	35
178	Lost iron and iron converted into rust in steels submitted to dryWet corrosion process. <i>Corrosion Science</i> , <b>2008</b> , 50, 763-772	6.8	35
177	Structural and magnetic properties of metastable Fe <sub>1-x</sub> Si <sub>x</sub> (0.15). <i>Journal of Physics Condensed Matter</i> , <b>2002</b> , 14, 1985-2000	1.8	35
176	Systematic Study of Exchange Coupling in CoreShell Fe <sub>3</sub> O <sub>4</sub> @CoO Nanoparticles. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4073-4081	9.6	34
175	Magnetically Recoverable Palladium(0) Nanocomposite Catalyst for Hydrogenation Reactions in Water. <i>ChemCatChem</i> , <b>2015</b> , 7, 309-315	5.2	34
174	Microstructure and magnetism of nanoparticles with Fe core surrounded by Fe and iron oxide shells. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	34
173	Hydrothermal Synthesis, Powder Structural Determination, and Magnetic Study of the Novel Hydrated Iron Diphosphonate [Fe <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> (O <sub>3</sub> P(CH <sub>2</sub> BO <sub>3</sub> H) <sub>2</sub> )(H <sub>2</sub> O) <sub>2</sub> or MIL-13. <i>Journal of Solid State Chemistry</i> , <b>1999</b> , 147, 122-131	3.3	34
172	Grain size effect on the phase transformation temperature of nanostructured CuFe <sub>2</sub> O <sub>4</sub> . <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 013532	2.5	33
171	Adsorption of Cr(VI) on crosslinked chitosanFe(III) complex in fixed-bed systems. <i>Journal of Water Process Engineering</i> , <b>2015</b> , 7, 141-152	6.7	32
170	A magnetic nanogel based on O-carboxymethylchitosan for antitumor drug delivery: synthesis, characterization and in vitro drug release. <i>Soft Matter</i> , <b>2014</b> , 10, 3441-50	3.6	32
169	Unravelling the effect of interparticle interactions and surface spin canting in Fe <sub>2</sub> O <sub>3</sub> @SiO <sub>2</sub> superparamagnetic nanoparticles. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 114319	2.5	32
168	Influences of element segregation on the magnetic properties in nanocrystalline Nd-Ce-Fe-B alloys. <i>Materials Characterization</i> , <b>2019</b> , 148, 208-213	3.9	30
167	Enhancing the magnetic anisotropy of maghemite nanoparticles via the surface coordination of molecular complexes. <i>Nature Communications</i> , <b>2015</b> , 6, 10139	17.4	29
166	Spectroscopic studies of arsenic retention onto biotite. <i>Chemical Geology</i> , <b>2011</b> , 281, 83-92	4.2	29
165	Fe(III)/Fe(II) regular charge order in metal-organic framework. <i>Chemical Communications</i> , <b>2010</b> , 46, 7987-9.8	9.8	28
164	Atomic scale modeling of iron-doped biphasic calcium phosphate bioceramics. <i>Acta Biomaterialia</i> , <b>2017</b> , 50, 78-88	10.8	27
163	Evolution of REFe <sub>2</sub> (RE = rare earth) phase in Nd-Ce-Fe-B magnets and resultant Ce segregation. <i>Scripta Materialia</i> , <b>2019</b> , 170, 150-155	5.6	27
162	Iron-based nanocrystalline alloys investigated by <sup>57</sup> Fe Mössbauer spectrometry <b>2000</b> , 126, 27-34		27

161	Adsorption of hydrogen gas and redox processes in clays. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 3574-9	10.3	26
160	Synthesis, Mössbauer Characterization, and Ab Initio Modeling of Iron Oxide Nanoparticles of Medical Interest Functionalized by Dopamine. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 14295-14302	3.8	26
159	Aggregation control of hydrophilic maghemite ( $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> ) nanoparticles by surface doping using cerium atoms. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 12519-21	16.4	26
158	Tin- and titanium-doped $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> (maghemite). <i>Journal of Physics Condensed Matter</i> , <b>2001</b> , 13, 10785-10797	7.8	26
157	Microstructural modelling of nanostructured fluoride powders prepared by mechanical milling. <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, 4791-4798	1.8	26
156	Synthesis of Transition-Metal-Incorporated Nickel Phosphate Molecular Sieves TMN/MSB-1. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 5552-5555	9.6	25
155	Synthesis, structure and metamagnetic behaviour of a three-dimensional Fe(II) carboxyethylphosphonate: [Fe <sub>3</sub> (OH) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub> (O <sub>3</sub> P(CH <sub>2</sub> ) <sub>2</sub> CO <sub>2</sub> H) <sub>2</sub> ] or MIL-38. <i>Solid State Sciences</i> , <b>2002</b> , 4, 619-625	3.4	25
154	Effect of ball-milling and Fe-/Al-doping on the structural aspect and visible light photocatalytic activity of TiO <sub>2</sub> towards Escherichia coli bacteria abatement. <i>Materials Science and Engineering C</i> , <b>2014</b> , 38, 11-9	8.3	24
153	New series of hybrid fluoroferrates synthesized with triazoles: various dimensionalities and Mössbauer studies. <i>Dalton Transactions</i> , <b>2013</b> , 42, 15748-55	4.3	24
152	Mild synthesis of CoFe <sub>2</sub> O <sub>4</sub> nanowires using carbon nanotube template: a high-coercivity material at room temperature. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, 1642-1644	2.8	24
151	Structure and magnetic properties of nanocrystalline ferrimagnetic CdFe <sub>2</sub> O <sub>4</sub> spinel. <i>Scripta Materialia</i> , <b>2001</b> , 44, 1411-1415	5.6	24
150	Ferrimagnetic order in Ca <sub>2</sub> FeMoO <sub>6</sub> . <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 7118-7120	2.5	24
149	Gold-iron oxide dimers for magnetic hyperthermia: the key role of chloride ions in the synthesis to boost the heating efficiency. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 4587-4594	7.3	23
148	Improvement of Thermal Stability of Maghemite Nanoparticles Coated with Oleic Acid and Oleylamine Molecules: Investigations under Laser Irradiation. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 10662-10668	3.8	23
147	Carbon nanotubes as a template for mild synthesis of magnetic CoFe <sub>2</sub> O <sub>4</sub> nanowires. <i>Carbon</i> , <b>2004</b> , 42, 1395-1399	10.4	23
146	Iron-Doped (La,Sr)MnO <sub>3</sub> Manganites as Promising Mediators of Self-Controlled Magnetic Nanohyperthermia. <i>Nanoscale Research Letters</i> , <b>2016</b> , 11, 24	5	22
145	Effect of chain length and electrical charge on properties of ammonium-bearing bisphosphonate-coated superparamagnetic iron oxide nanoparticles: formulation and physicochemical studies. <i>Journal of Nanoparticle Research</i> , <b>2010</b> , 12, 1239-1248	2.3	22
144	Magnetic properties of nanocomposites containing Fe-Ni or Fe dispersed in a Mn-Zn ferrite matrix. <i>IEEE Transactions on Magnetics</i> , <b>2002</b> , 38, 3015-3017	2	22

143	Thermomechanical Polymer Binder Reactivity with Positive Active Materials for Li Metal Polymer and Li-Ion Batteries: An XPS and XPS Imaging Study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 18368-18376	9.5	21
142	Low Oxidation State and Enhanced Magnetic Properties Induced by Raspberry Shaped Nanostructures of Iron Oxide. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 24665-24673	3.8	21
141	Enhanced heterotrophic denitrification in clay media: The role of mineral electron donors. <i>Chemical Geology</i> , <b>2014</b> , 390, 87-99	4.2	21
140	Hydrothermal synthesis, structural approach, magnetic and Mössbauer study of the layered Fe(III) carboxyethylphosphonate [Fe(OH)(H <sub>2</sub> O)(O <sub>3</sub> P-(CH <sub>2</sub> ) <sub>2</sub> -CO <sub>2</sub> H)] or MIL-37. <i>Solid State Sciences</i> , <b>2000</b> , 2, 717-724	3.4	20
139	Structural and Magnetic Properties of Nanostructured Oxides Investigated by <sup>57</sup> Fe Mössbauer Spectrometry. <i>Hyperfine Interactions</i> , <b>2003</b> , 148/149, 79-89	0.8	19
138	Influence of microstructure on the magnetic and mechanical behaviour of amorphous and nanocrystalline FeNbB alloy. <i>Journal of Physics Condensed Matter</i> , <b>2002</b> , 14, 4717-4736	1.8	19
137	The effects of Sc and Nb substitution in Sr <sub>2</sub> FeReO <sub>6</sub> double perovskites. A combined study of X-ray powder diffraction and Mössbauer spectroscopy. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 253-256		19
136	Hydrothermal Synthesis, Structure, and Magnetic Properties of a Layered Fe(III) Carboxymethylphosphonate: [Fe(H <sub>2</sub> O)(O <sub>3</sub> P(CH <sub>2</sub> ) <sub>2</sub> CO <sub>2</sub> )] or MIL-49. <i>Journal of Solid State Chemistry</i> , <b>2002</b> , 164, 354-360	3.3	18
135	Mössbauer, magnetization and crystal structure studies of the double perovskites Sr <sub>2</sub> FeMo <sub>1-x</sub> W <sub>x</sub> O <sub>6</sub> , x = 0, 0.1, 0.2, 0.3 and 0.4. <i>Journal of Physics Condensed Matter</i> , <b>2002</b> , 14, 12611-12627	1.8	18
134	Grain boundary engineering towards high-figure-of-merit Nd-Ce-Fe-B sintered magnets: Synergetic effects of (Nd, Pr)Hx and Cu co-dopants. <i>Acta Materialia</i> , <b>2021</b> , 204, 116529	8.4	18
133	Metastable (Bi, M) <sub>2</sub> (Fe, Mn, Bi) <sub>2</sub> O(6+x) (M = Na or K) pyrochlores from hydrothermal synthesis. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 13197-206	5.1	17
132	Combining Soft Chemistry and Spark Plasma Sintering to Produce Highly Dense and Finely Grained Soft Ferrimagnetic Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> (YIG) Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 3094-3099	3.8	16
131	Grafting of diazonium salts on oxides surface: formation of aryl-O bonds on iron oxide nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2015</b> , 17, 1	2.3	16
130	Thermodynamic properties of saponite, nontronite, and vermiculite derived from calorimetric measurements. <i>American Mineralogist</i> , <b>2013</b> , 98, 1834-1847	2.9	16
129	Hydrothermal Synthesis, Structure, and Magnetic Characterization of a New Ferrimagnetic Open Framework Phosphate: MIL-21 or [Fe <sup>III</sup> <sub>5-x</sub> V <sup>III</sup> <sub>x</sub> (H <sub>2</sub> PO <sub>4</sub> ) <sub>4</sub> (HPO <sub>4</sub> ) <sub>4</sub> F <sub>4</sub> (H <sub>2</sub> O) <sub>2</sub> , 4(H <sub>2</sub> +yN(CH <sub>2</sub> ) <sub>2</sub> NH <sub>2</sub> +y)] with a Partial Cationic Disorder. <i>Journal of Solid State Chemistry</i> , <b>1999</b> , 148, 150-157	3.3	16
128	Magnetic properties of FeCo alloy nanoparticles synthesized through instant chemical reduction. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 123906	2.5	16
127	Effects of a thermal perturbation on mineralogy and pore water composition in a clay-rock: An experimental and modeling study. <i>Geochimica Et Cosmochimica Acta</i> , <b>2017</b> , 197, 193-214	5.5	15
126	New Features and Uncovered Benefits of Polycrystalline Magnetite as Reusable Catalyst in Reductive Chemical Conversion. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 25195-25205	3.8	15

125	The Contribution of $^{57}\text{Fe}$ Mössbauer Spectrometry to Investigate Magnetic Nanomaterials <b>2013</b> , 187-241		15
124	[H3tren] $^{3+}$ templated iron fluorides; synthesis, crystal structures and Mössbauer studies. <i>Solid State Sciences</i> , <b>2009</b> , 11, 1631-1638	3-4	15
123	Temperature behaviour of iron nanograins in Nanoperm-type alloys. <i>Journal of Physics Condensed Matter</i> , <b>2003</b> , 15, 5637-5648	1.8	15
122	Structural and magnetic properties of the intergranular amorphous phase in FeNbB nanocrystalline alloys. <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, 9085-9093	1.8	15
121	Magnetic hyperfine temperature dependence in FeBi crystalline alloys. <i>Solid State Communications</i> , <b>1999</b> , 111, 323-327	1.6	15
120	On the exact crystal structure of exchange-biased $\text{Fe}_3\text{O}_4/\text{CoO}$ nanoaggregates produced by seed-mediated growth in polyol. <i>CrystEngComm</i> , <b>2016</b> , 18, 3799-3807	3-3	15
119	The effect of temperature on carbon steel corrosion under geological conditions. <i>Applied Geochemistry</i> , <b>2015</b> , 52, 76-85	3-5	14
118	Exchange-Biased $\text{Fe}_3\text{O}_4$ -CoO Granular Composites of Different Morphologies Prepared by Seed-Mediated Growth in Polyol: From Core/Shell to Multicore Embedded Structures. <i>Particle and Particle Systems Characterization</i> , <b>2018</b> , 35, 1800104	3-1	14
117	Mössbauer studies of $\text{Sr}_2\text{FeMoO}_6$ and related compounds. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2002</b> , 242-245, 744-746	2.8	14
116	Properties of Goethite Grown under the Presence of $\text{Cr}^{3+}$ , $\text{Cu}^{2+}$ and $\text{Mn}^{2+}$ Ions. <i>Hyperfine Interactions</i> , <b>2003</b> , 148/149, 135-144	0.8	14
115	The influence of ruthenium on the magnetic properties of $\gamma\text{-Fe}_2\text{O}_3$ (maghemite) studied by Mössbauer spectroscopy. <i>Journal of Physics Condensed Matter</i> , <b>2003</b> , 15, 2907-2915	1.8	14
114	Genetic manipulation of iron biomineralization enhances MR relaxivity in a ferritin-M6A chimeric complex. <i>Scientific Reports</i> , <b>2016</b> , 6, 26550	4-9	14
113	New iron tetrazolate frameworks: synthesis, temperature effect, thermal behaviour, Mössbauer and magnetic studies. <i>Dalton Transactions</i> , <b>2015</b> , 44, 7951-9	4-3	13
112	Giant Exchange-Bias in Polyol-Made $\text{CoFe}_2\text{O}_4$ -CoO Core/Shell Like Nanoparticles. <i>Particle and Particle Systems Characterization</i> , <b>2018</b> , 35, 1800290	3-1	13
111	Effect of reaction environment and in situ formation of the precursor on the composition and shape of iron oxide nanoparticles synthesized by the thermal decomposition method. <i>CrystEngComm</i> , <b>2018</b> , 20, 7206-7220	3-3	13
110	Effects of Sm content on the phase structure, microstructure and magnetic properties of the $\text{Sm}_{x-0.2}(\text{Fe}_{0.8}\text{Co}_{0.2})_{11.5}\text{Ti}_{0.5}$ ( $x=0.8\text{--}1.4$ ) alloys. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 828, 154428	5-7	12
109	Maghemite Nanoparticles with Enhanced Magnetic Properties: One-Pot Preparation and Ultrastable Dextran Shell. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 20271-20280	9-5	12
108	Confinement of Fe-Al-PMOF catalytic sites favours the formation of pyrazoline from ethyl diazoacetate with an unusual sharp increase of selectivity upon recycling. <i>Chemical Communications</i> , <b>2018</b> , 54, 10308-10311	5-8	12

107	Exchange-biased oxide-based core-shell nanoparticles produced by seed-mediated growth in polyol. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	12
106	Phase transformations in CaCO <sub>3</sub> /iron oxide composite induced by thermal treatment and laser irradiation. <i>Journal of Raman Spectroscopy</i> , <b>2013</b> , 44, 489-495	2.3	12
105	Temperature dependence of magnetic microstructure in Fe <sub>76</sub> Mo <sub>8</sub> Cu <sub>1</sub> B <sub>15</sub> nanocrystalline alloy. <i>Physica Status Solidi A</i> , <b>2004</b> , 201, 3280-3284		12
104	Magnetic properties of the Fe <sub>x</sub> Mn <sub>0.600-x</sub> Al <sub>0.400, 0.200-x</sub> alloy series. <i>Journal of Physics Condensed Matter</i> , <b>2002</b> , 14, 6531-6542	1.8	12
103	New Amorphous Iron-Based Oxyfluorides as Cathode Materials for High-Capacity Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 21386-21394	3.8	11
102	A novel and easy chemical-clock synthesis of nanocrystalline iron-cobalt bearing layered double hydroxides. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 434, 130-40	9.3	11
101	Synthesis engineering of iron oxide raspberry-shaped nanostructures. <i>Nanoscale</i> , <b>2017</b> , 9, 305-313	7.7	11
100	Synthesis, structure of [H <sub>3</sub> dien][M(F <sub>6</sub> ) <sub>2</sub> ]·H <sub>2</sub> O (M=Cr, Fe) and <sup>57</sup> Fe Mössbauer study of [H <sub>3</sub> dien][Fe(F <sub>6</sub> ) <sub>2</sub> ]·H <sub>2</sub> O. <i>Journal of Solid State Chemistry</i> , <b>2007</b> , 180, 1911-1917	3.3	11
99	Tetrahedrally Coordinated Iron(II) Incorporation in the Super-Sodalite Aluminophosphate Fe <sub>3</sub> Al <sub>6</sub> (PO <sub>4</sub> ) <sub>12</sub> ·4H <sub>2</sub> O (MIL-74). <i>Chemistry of Materials</i> , <b>2003</b> , 15, 4590-4597	9.6	11
98	Temperature Mössbauer effect study of nanocrystalline Fe <sub>3</sub> Co <sub>3</sub> alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 304-306, 937-940	5.3	11
97	Synthesis of Magnetite in Presence of Cu <sup>2+</sup> or Cr <sup>3+</sup> . <i>Hyperfine Interactions</i> , <b>2001</b> , 134, 141-152	0.8	11
96	Evidence of New Fluorinated Coordination Compounds in the Composition Space Diagram of Fe <sub>3</sub> /ZnF <sub>2</sub> System. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 4248-4255	3.5	10
95	Eighteen years of steel-Bentonite interaction in the FEBEX in situ test at the Grimsel Test Site in Switzerland. <i>Clays and Clay Minerals</i> , <b>2019</b> , 67, 111-131	2.1	10
94	On the use of amine-borane complexes to synthesize iron nanoparticles. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 6021-6	4.8	10
93	Temperature dependence of amorphous and interface phases in the Fe <sub>80</sub> Nb <sub>7</sub> Cu <sub>1</sub> B <sub>12</sub> nanocrystalline alloy <b>1999</b> , 122, 121-128		10
92	Mössbauer study and molecular orbital calculations on some bimetallic derivatives of ferrocene and ferricinium. <i>Hyperfine Interactions</i> , <b>1993</b> , 77, 51-66	0.8	10
91	Harnessing Composition of Iron Oxide Nanoparticle: Impact of Solvent-Mediated Ligand-Ligand Interaction and Competition between Oxidation and Growth Kinetics. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 9245-9259	9.6	10
90	[H <sub>2</sub> amtaz] <sup>+</sup> iron fluorides: Synthesis, crystal structures, magnetic and Mössbauer studies. <i>Journal of Fluorine Chemistry</i> , <b>2015</b> , 173, 23-28	2.1	9

89	Magnetic interactions in Fe <sub>2</sub> O <sub>3</sub> @SiO <sub>2</sub> nanocomposites. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 053905	2.5	9
88	Iron minerals formed by dissimilatory iron-and sulfur reducing bacteria studied by Mössbauer spectrometry. <i>Hyperfine Interactions</i> , <b>2008</b> , 182, 55-63	0.8	9
87	Hyperfine fields of amorphous residual and interface phases in FeMCuB nanocrystalline alloys: a Mössbauer effect study <b>1999</b> , 120/121, 297-301		9
86	Design of stable mixed-metal MIL-101(Cr/Fe) materials with enhanced catalytic activity for the Prins reaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17002-17011	13	9
85	Pseudomorphic Transformation of Layered Simple Hydroxides into Prussian Blue Analogue Nanoplatelets. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 2030-2038	2.3	8
84	Thermodynamic properties of chlorite and berthierine derived from calorimetric measurements. <i>Physics and Chemistry of Minerals</i> , <b>2014</b> , 41, 603-615	1.6	8
83	Hyperfine interactions in amorphous and nanocrystalline Fe <sub>80</sub> Ti <sub>7</sub> Cu <sub>1</sub> B <sub>12</sub> alloy. <i>European Physical Journal D</i> , <b>1997</b> , 47, 507-512		8
82	On the first evidence of exchange-bias feature in magnetically contrasted consolidates made from CoFeO-CoO core-shell nanoparticles. <i>Scientific Reports</i> , <b>2019</b> , 9, 19468	4.9	8
81	Exchange Bias in Chemically Reduced FeCo Alloy Nanostructures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1900051	1.6	7
80	Independence of magnetic behavior for different structural states in melt-spun DyMn <sub>6</sub> Ge <sub>6</sub> FexAl <sub>x</sub> (0 ≤ x ≤ 6). <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 425212	1.8	7
79	Nanogranular Fe <sub>x</sub> Ni <sub>23-x</sub> B <sub>6</sub> phase formation during devitrification of nickel-rich Ni <sub>64</sub> Fe <sub>16</sub> Zr <sub>7</sub> B <sub>12</sub> Au <sub>1</sub> amorphous alloy. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 1392-1394	3.4	7
78	Mössbauer Spectrometry Applied to Iron-Based Nanocrystalline Alloys I. <b>1999</b> , 243-256		7
77	Adsorption of reactive red dye (RR-120) on nanoadsorbent O-carboxymethylchitosan/Fe <sub>2</sub> O <sub>3</sub> : kinetic, equilibrium and factorial design studies. <i>RSC Advances</i> , <b>2016</b> , 6, 35058-35070	3.7	7
76	Unveiling the role of surface, size, shape and defects of iron oxide nanoparticles for theranostic applications. <i>Nanoscale</i> , <b>2021</b> , 13, 14552-14571	7.7	7
75	A magnetisation and Mössbauer study of triazole (MM)MF(Htaz)(taz) weberites (M = Fe, Co, Mn, Zn, Ga, V). <i>Dalton Transactions</i> , <b>2017</b> , 46, 5352-5362	4.3	6
74	Tuning the iron redox state inside a microporous porphyrinic metal organic framework. <i>Dalton Transactions</i> , <b>2017</b> , 46, 517-523	4.3	6
73	Synthesis by Thermal Decomposition of Two Iron Hydroxyfluorides: Structural Effects of Li Insertion. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 4246-4257	9.6	6
72	Method development for evaluating the redox state of Callovo-Oxfordian clayrock and synthetic montmorillonite for nuclear waste management. <i>Applied Geochemistry</i> , <b>2014</b> , 49, 184-191	3.5	6

71	Mictomagnetic behavior of structurally disordered melt-spun DyMn <sub>6</sub> Ge <sub>6</sub> FexAl <sub>x</sub> (0 ≤ x ≤ 6) alloys. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 123921	2.5	6
70	Iron chelates: a challenge to chemists and Mössbauer spectroscopists. <i>Hyperfine Interactions</i> , <b>2008</b> , 182, 77-86	0.8	6
69	Towards the reactivity of MIL-53 or FeIII(OH)0.8F0.2[O2C-C6H4-CO2] versus lithium. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 2037-2041	1.8	6
68	Monte Carlo simulation of magnetic properties in nanocrystalline-like systems. <i>Journal of Physics Condensed Matter</i> , <b>2003</b> , 15, 6331-6344	1.8	6
67	Variable Temperature Mössbauer Study of Some Rust Converters. <i>Hyperfine Interactions</i> , <b>2003</b> , 148/149, 219-225	0.8	6
66	A Detailed Investigation of the Onion Structure of Exchanged Coupled Magnetic FeO@CoFeO@FeO Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 16784-16800	9.5	6
65	Amorphous IronManganese Oxyfluorides, Promising Catalysts for Oxygen Evolution Reaction under Acidic Media. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 1173-1181	6.1	6
64	Size and thickness effect on magnetic structures of maghemite hollow magnetic nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2016</b> , 18, 1	2.3	5
63	Strong magnetic exchange and frustrated ferrimagnetic order in a weberite-type inorganic-organic hybrid fluoride. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2019</b> , 377, 20180224	3	5
62	A study of the solid state amorphization reaction in by diffraction and Mössbauer spectrometry. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 1425-1433	1.8	5
61	Metallic glasses: Mössbauer contribution, physical properties and applications <b>1998</b> , 111, 261-268		5
60	Ti-doped A-site deficient lanthanum manganites: Local structure and properties. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2006</b> , 300, e175-e178	2.8	5
59	Recoilless Factors in Nanostructured Iron-Based Powders. <i>Hyperfine Interactions</i> , <b>2001</b> , 136, 57-63	0.8	5
58	Study of the solid-state 'amorphization' reaction in Fe <sub>50</sub> Re <sub>50</sub> by means of Mössbauer spectrometry and diffraction measurements. <i>Journal of Physics Condensed Matter</i> , <b>2002</b> , 14, 9713-9724	1.8	5
57	First Mixed-Metal Fluoride Pyrochlores Obtained by Topotactic Oxidation of Ammonium Fluorides under F <sub>2</sub> Gas. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 935-945	3.5	5
56	Iron Stearate Structures: An Original Tool for Nanoparticles Design. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 12445-12455		5
55	Correlation of cation distribution with the hyperfine and magnetic behaviour of NiZnCoCuFeO nanoparticles and their microwave absorption properties when encapsulated in multi-walled carbon nanotubes. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 085803	1.8	4
54	High-yield aqueous synthesis of multi-branched iron oxide core-gold shell nanoparticles: SERS substrate for immobilization and magnetic separation of bacteria. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	4

53	Structure and collaboration relationship analysis in a scientific collaboration network. <i>Science Bulletin</i> , <b>2011</b> , 56, 3702-3706		4
52	Mechanism of amorphous state formation, crystalline structure, and hyperfine interactions in DyMn <sub>6</sub> Ge <sub>6</sub> Fe <sub>x</sub> (0 ≤ x ≤ 6) alloys. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 073516	2.5	4
51	Surface and bulk Mössbauer effect studies of annealed NANOPERM-type alloys. <i>European Physical Journal D</i> , <b>2001</b> , 51, 677-683		4
50	Chapter 4:Iron-oxide Nanoparticle-based Contrast Agents. <i>New Developments in NMR</i> , <b>2017</b> , 318-447	0.9	4
49	<sup>57</sup> Fe Mössbauer spectrometry: A powerful technique to analyze the magnetic and phase characteristics in REFeB permanent magnets. <i>Chinese Physics B</i> , <b>2021</b> , 30, 013302	1.2	4
48	Structure-Property-Function Relationships of Iron Oxide Multicore Nanoflowers in Magnetic Hyperthermia and Photothermia.. <i>ACS Nano</i> , <b>2021</b> ,	16.7	4
47	IMPACTS OF SPATIAL STRUCTURE ON EPIDEMIC SPREADING. <i>International Journal of Modern Physics C</i> , <b>2012</b> , 23, 1250082	1.1	3
46	A study of amorphous Fe <sub>58</sub> Ta <sub>42</sub> alloys produced by mechanical alloying. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1997</b> , 226-228, 84-89	5.3	3
45	Bulk Magnetic Properties of the Fe <sub>0.5</sub> Mn <sub>0.1</sub> Al <sub>0.4</sub> Disordered Alloy: A Monte Carlo Study. <i>Hyperfine Interactions</i> , <b>2003</b> , 148/149, 285-293	0.8	3
44	Magnetic frustration in ferric fluorides investigated by Mössbauer spectrometry <b>1999</b> , 122, 9-19		3
43	Mössbauer Spectrometry Applied to Iron-Based Nanocrystalline Alloys II <b>1999</b> , 257-272		3
42	Removal of As, As, Sb, and Hg ions from aqueous solutions by pure and co-precipitated akaganeite nanoparticles: adsorption kinetics studies.. <i>RSC Advances</i> , <b>2020</b> , 10, 42688-42698	3.7	3
41	Increasing the size of Fe <sub>3</sub> O <sub>4</sub> Nanoparticles by Performing a Multistep Seed-Mediated Growth Approach. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 1572-1582	3.5	3
40	Influences of As(V), Sb(III), and Hg(II) ions on the nucleation and growth of akaganeite. <i>CrystEngComm</i> , <b>2019</b> , 21, 7155-7165	3.3	3
39	Influence of gadolinium and dysprosium substitution on magnetic properties and magnetocaloric effect of Fe <sub>78</sub> RE <sub>2</sub> Si <sub>4</sub> Nb <sub>5</sub> B <sub>12</sub> Cu <sub>1</sub> amorphous alloys. <i>Journal of Rare Earths</i> , <b>2020</b> , 38, 1317-1321	3.7	2
38	Thermal stability of the nanocrystalline Fe-8P (wt.%) powder produced by ball milling. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , <b>2018</b> , 193, 500-506	1	2
37	Thermodynamic properties of mixed-layer illite-smectite by calorimetric methods: Acquisition of the enthalpies of mixing of illite and smectite layers. <i>Journal of Chemical Thermodynamics</i> , <b>2019</b> , 138, 78-97	2.9	2
36	Study of metal-ferrite composites: complementary use of <sup>57</sup> Fe Mössbauer spectrometry, X-ray diffraction and TG analysis. <i>EPJ Applied Physics</i> , <b>2002</b> , 18, 33-40	1.1	2

35	Magnetic Phases in Alloys and Nanostructured Systems. <i>Hyperfine Interactions</i> , <b>2002</b> , 144/145, 151-160	0.8	2
34	A Comprehensive Study of Pristine and Calcined f-MWCNTs Functionalized by Nitrogen-Containing Functional Groups.. <i>Materials</i> , <b>2022</b> , 15,	3.5	2
33	Textured (Ce,La,Y)FeB permanent magnets by hot deformation. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 17, 1459-1468	5.5	2
32	Prenormative verification and validation of a protocol for measuring magnetite-maghemite ratios in magnetic nanoparticles. <i>Metrologia</i> ,	2.1	2
31	On the magnetism of grain boundary phase and its contribution to the abnormal openness of recoil loops in hot-deformed magnets. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 095002	3	2
30	Interaction of Corroding Iron with Eight Bentonites in the Alternative Buffer Materials Field Experiment (ABM2). <i>Minerals (Basel, Switzerland)</i> , <b>2021</b> , 11, 907	2.4	2
29	Improvement of the thermal stability of nanomaghemite by functionalization with type 5A zeolite and magnetic properties studied by in-field 57Fe Mössbauer measurements. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2022</b> , 552, 169241	2.8	2
28	Crystal structure study of manganese and titanium substituted BaLaFe2O6- $\delta$ . <i>Journal of Solid State Chemistry</i> , <b>2017</b> , 251, 186-193	3.3	1
27	Stabilization of a mixed iron vanadium based hexagonal tungsten bronze hydroxyfluoride HTB-(FeV)F(OH) as a positive electrode for lithium-ion batteries. <i>Dalton Transactions</i> , <b>2020</b> , 49, 8186-8193	4.3	1
26	Exchange-bias features in nanoceramics prepared by spark plasma sintering of exchange-biased nanopowders. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 5941-5949	7.1	1
25	Coupled structural and magnetic properties of ferric fluoride nanostructures: Part II, a Monte Carlo-Heisenberg study. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2012</b> , 324, 3646-3651	2.8	1
24	Enhancing The Possibilities of 57Fe Mössbauer Spectrometry to Study the Inherent Properties of Rust Layers <b>2013</b> , 415-428		1
23	Design and Functionalization of Magnetic Core-Shell Oxide Nanoparticles Exhibiting Exchange Bias Features. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1359, 175		1
22	Effect of annealing in an external magnetic field on the magnetic texture of Mo-containing nanocrystalline alloys. <i>European Physical Journal D</i> , <b>2006</b> , 56, E7-E16		1
21	Magnetic Iron-Based Oxides Investigated by 57Fe Mössbauer Spectrometry <b>2003</b> , 83-92		1
20	Some magnetic properties of nanoperm alloy after irradiation. <i>European Physical Journal D</i> , <b>2001</b> , 51, 703-710		1
19	The magnetic properties of the frustrated bidimensional antiferromagnet CsBaFe3F12. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1991</b> , 92, 381-387	2.8	1
18	Polyol-Made Spinel Ferrite Nanoparticles Local Structure and Operating Conditions: NiFe2O4 as a Case Study. <i>Frontiers in Materials</i> , <b>2021</b> , 8,	4	1

17	Magnetic Phases in Alloys and Nanostructured Systems <b>2003</b> , 151-160		1
16	Colours of Gemmy Phosphates from the Gavà Neolithic Mines (Catalonia, Spain): Origin and Archaeological Significance. <i>Minerals (Basel, Switzerland)</i> , <b>2022</b> , 12, 368	2.4	1
15	Highly efficient water oxidation via a bimolecular reaction mechanism on rutile structured mixed-metal oxyfluorides. <i>Chem Catalysis</i> , <b>2022</b> ,		1
14	Diffusion on spatial network. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 604, 012008	0.3	0
13	Tunable magnetocaloric effect in amorphous Gd-Fe-Co-Al-Si alloys. <i>Journal of Materials Science</i> , <b>2022</b> , 57, 553-562	4.3	0
12	Solid state amorphisation of a Fe-Co-Nb-B powder mixture by mechanical alloying. <i>Annales De Chimie: Science Des Materiaux</i> , <b>2010</b> , 35, 169-176	2.1	0
11	Impact of the charge transfer process on the Fe <sup>2+</sup> /Fe <sup>3+</sup> distribution at Fe <sub>3</sub> O <sub>4</sub> magnetic surface induced by deposited Pd clusters. <i>Surface Science</i> , <b>2021</b> , 712, 121879	1.8	0
10	Magnetism influenced by structural disorder in melt-spun DyMn <sub>6</sub> k Ge <sub>6</sub> k Fe x Al x (x = 2.5, 3). <i>Hyperfine Interactions</i> , <b>2013</b> , 219, 69-74	0.8	
9	Magnetic Properties of Nanostructured Materials <b>2005</b> , 253-266		
8	Mössbauer and X-Ray Characterization of Fe <sub>0.2</sub> Mn <sub>0.4</sub> Al <sub>0.4</sub> Mechanically Alloyed Powders. <i>Hyperfine Interactions</i> , <b>2003</b> , 148/149, 317-324	0.8	
7	Magnetic properties of Fe <sub>66</sub> Cr <sub>12</sub> Al <sub>22</sub> crystalline ribbon. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 254-255, 528-531	2.8	
6	Mössbauer analysis and induction heating evaluation of grapes like FZ@MWCNT towards cancer treatment. <i>Solid State Sciences</i> , <b>2021</b> , 122, 106756	3.4	
5	Iron minerals formed by dissimilatory iron-and sulfur reducing bacteria studied by Mössbauer spectrometry <b>2008</b> , 55-63		
4	Effect of the milling conditions on the amorphisation of Fe <sub>77</sub> Cr <sub>4</sub> P <sub>8</sub> C <sub>11</sub> . <i>Annales De Chimie: Science Des Materiaux</i> , <b>2010</b> , 35, 177-186	2.1	
3	Magnetism influenced by structural disorder in melt-spun DyMn <sub>6</sub> k Ge <sub>6</sub> k Fe x Al x (x = 2.5, 3) <b>2012</b> , 387-392		
2	From magneto-elastic impedance model to accurate magneto-mechanical coefficient measurements. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 035004	1.7	
1	Cu-mediated grain boundary engineering in Nd <sub>2</sub> Fe <sub>14</sub> B nanostructured permanent magnets. <i>Materials Today Nano</i> , <b>2022</b> , 100230	9.7	