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List of Publications by Year in descending order

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113
papers

3,124
citations

147566

31
h-index

174990

52
g-index

113
all docs

113
docs citations

113
times ranked

4254
citing authors

#	ARTICLE	IF	CITATIONS
1	Transformation of brookite-type TiO ₂ nanocrystals to rutile: correlation between microstructure and photoactivity. <i>Journal of Materials Chemistry</i> , 2006, 16, 1709.	6.7	180
2	Studying the effect of Zn-substitution on the magnetic and hyperthermic properties of cobalt ferrite nanoparticles. <i>Nanoscale</i> , 2016, 8, 10124-10137.	2.8	176
3	Characterization and reactivity in toluene reforming of a Fe/olivine catalyst designed for gas cleanup in biomass gasification. <i>Applied Catalysis B: Environmental</i> , 2010, 101, 90-100.	10.8	168
4	Effect of Fe-olivine on the tar content during biomass gasification in a dual fluidized bed. <i>Applied Catalysis B: Environmental</i> , 2012, 121-122, 214-222.	10.8	163
5	Optimized Synthesis of the Elusive γ -Fe ₂ O ₃ Phase via Sol-Gel Chemistry. <i>Chemistry of Materials</i> , 2004, 16, 5542-5548.	3.2	128
6	Formation of Nanoparticles of γ -Fe ₂ O ₃ from Yttrium Iron Garnet in a Silica Matrix: An Unusually Hard Magnet with a Morin-Like Transition below 150 K. <i>Chemistry of Materials</i> , 2005, 17, 1106-1114.	3.2	121
7	High Coercive Field for Nanoparticles of CoFe ₂ O ₄ in Amorphous Silica Sol-Gel. <i>Advanced Materials</i> , 2003, 15, 1622-1625.	11.1	96
8	Magnetite nanoparticles with no surface spin canting. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	87
9	On the synthesis and characterization of iron-containing garnets (Y ₃ Fe ₅ O ₁₂ , YIG and Fe ₃ Al ₅ O ₁₂ , IAG). <i>Chemical Physics</i> , 2006, 323, 204-210.	0.9	73
10	Infrared study of SiO ₂ sol to gel evolution and gel aging. <i>Journal of Non-Crystalline Solids</i> , 1995, 180, 191-196.	1.5	70
11	Characterisation of bismuth-doped yttrium iron garnet layers prepared by sol-gel process. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 211, 291-295.	1.0	70
12	Hydrothermally grown porous FeVO ₄ nanorods and their integration as active material in gas-sensing devices. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1862-1868.	5.2	66
13	SEM and HRTEM study of porous silicon relationship between fabrication, morphology and optical properties. <i>Applied Surface Science</i> , 2004, 238, 169-174.	3.1	59
14	Biomass Gasification with Catalytic Tar Reforming: A Model Study into Activity Enhancement of Calcium- and Magnesium-Oxide-Based Catalytic Materials by Incorporation of Iron. <i>Energy & Fuels</i> , 2010, 24, 4034-4045.	2.5	59
15	Spinel Ferrite Core-Shell Nanostructures by a Versatile Solvothermal Seed-Mediated Growth Approach and Study of Their Nanointerfaces. <i>ACS Nano</i> , 2017, 11, 7889-7900.	7.3	59
16	Preparation of magnetic nanoparticles (γ -Fe ₂ O ₃) in the silica matrix. <i>IEEE Transactions on Magnetism</i> , 1994, 30, 821-823.	1.2	57
17	MCM-41 support for ultrasmall γ -Fe ₂ O ₃ nanoparticles for H ₂ S removal. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21688-21698.	5.2	51
18	Preparation of MgFe ₂ O ₄ nanoparticles by microemulsion method and their characterization. <i>Journal of Sol-Gel Science and Technology</i> , 2009, 51, 301-305.	1.1	50

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19	A study of oleic acid-based hydrothermal preparation of CoFe ₂ O ₄ nanoparticles. Journal of Nanoparticle Research, 2011, 13, 5021-5031.	0.8	49
20	The internal structure of magnetic nanoparticles determines the magnetic response. Nanoscale, 2017, 9, 5129-5140.	2.8	49
21	Combustion synthesis of iron oxide/carbon nanocomposites, efficient adsorbents for anionic and cationic dyes removal from wastewaters. Journal of Alloys and Compounds, 2018, 741, 1235-1246.	2.8	47
22	Simultaneous catalytic H ₂ production and CO ₂ capture in steam reforming of toluene as tar model compound from biomass gasification. Applied Catalysis B: Environmental, 2014, 145, 63-72.	10.8	46
23	Fe ₂ O ₃ •SiO ₂ composites obtained by sol-gel synthesis. Solid State Ionics, 2002, 151, 219-227.	1.3	45
24	Preparation of ZnFe ₂ O ₄ /SiO ₂ and CdFe ₂ O ₄ /SiO ₂ nanocomposites by sol-gel method. Journal of Non-Crystalline Solids, 2003, 315, 70-76.	1.5	44
25	Oleate-based hydrothermal preparation of CoFe ₂ O ₄ nanoparticles, and their magnetic properties with respect to particle size and surface coating. Journal of Magnetism and Magnetic Materials, 2015, 390, 142-151.	1.0	41
26	Colloidal suspensions of silicon nanocrystals: from single nanocrystals to photonic structures. Optical Materials, 2005, 27, 1046-1049.	1.7	39
27	Magnetic Properties of Fe ₂ O ₃ Particles Prepared by Sol-Gel Method. Hyperfine Interactions, 1998, 112, 89-92.	0.2	38
28	Magnetically separable photocatalytic composite γ -Fe ₂ O ₃ @TiO ₂ synthesized by heterogeneous precipitation. Applied Surface Science, 2011, 257, 4844-4848.	3.1	38
29	Surface spin effects in La-doped CoFe ₂ O ₄ nanoparticles prepared by microemulsion route. Journal of Applied Physics, 2011, 110, .	1.1	38
30	Solvothermal synthesis of magnetic Fe _x O _y /C nanocomposites used as adsorbents for the removal of methylene blue from wastewater. Journal of Thermal Analysis and Calorimetry, 2015, 121, 989-1001.	2.0	36
31	Methane selective oxidation to formaldehyde with Fe-catalysts supported on silica or incorporated into the support. Catalysis Communications, 2008, 9, 864-869.	1.6	34
32	Bioconjugated Iron Oxide Nanocubes: Synthesis, Functionalization, and Vectorization. ACS Applied Materials & Interfaces, 2014, 6, 16631-16642.	4.0	32
33	Coupled hard-soft spinel ferrite-based core-shell nanoarchitectures: magnetic properties and heating abilities. Nanoscale Advances, 2020, 2, 3191-3201.	2.2	32
34	Novel sol-gel method for preparation of high concentration μ -Fe ₂ O ₃ /SiO ₂ nanocomposite. Journal of Sol-Gel Science and Technology, 2009, 51, 78-83.	1.1	29
35	Dialkylamide as Both Capping Agent and Surfactant in a Direct Solvothermal Synthesis of Magnetite and Titania Nanoparticles. Crystal Growth and Design, 2015, 15, 2364-2372.	1.4	29
36	Magnetism of sol-gel fabricated CoFe ₂ O ₄ •SiO ₂ nanocomposites. Journal of Applied Physics, 2005, 97, 124304.	1.1	27

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55	On preparation of nanocrystalline chromites by co-precipitation and autocombustion methods. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 195, 66-73.	1.7	14
56	Anchoring ultrasmall FeIII-based nanoparticles on silica and titania mesostructures for syngas H2S purification. <i>Microporous and Mesoporous Materials</i> , 2020, 298, 110062.	2.2	14
57	Noncollinear magnetism in nanosized cobalt chromite. <i>Physical Review B</i> , 2018, 98, .	1.1	13
58	Critical size limits for collinear and spin-spiral magnetism in $\text{CoCr}_{1-x}\text{Mn}_x\text{O}_4$. <i>Physical Review B</i> , 2019, 100, .	1.1	13
59	Sol-gel fabricated $\text{CoFe}_{2/3}\text{O}_{4}/\text{SiO}_2$ nanocomposites: synthesis and magnetic properties. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 3469-3471.	1.2	12
60	Iron-ceria-zirconia fluorite catalysts for methane selective oxidation to formaldehyde. <i>Catalysis Communications</i> , 2009, 10, 1875-1880.	1.6	12
61	Low temperature superparamagnetic nanocomposites obtained by $\text{Fe}(\text{acac})_3\text{-SiO}_2\text{-PVA}$ hybrid xerogel thermolysis. <i>Processing and Application of Ceramics</i> , 2016, 10, 265-275.	0.4	12
62	Magnetic properties of TCr_2O_4 (T= Co, Ni) fine powders and $\text{TCr}_2\text{O}_4/\text{SiO}_2$ nanocomposites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 18, 032022.	0.3	11
63	Thermal stability of nanocrystalline $\mu\text{-Fe}_2\text{O}_3$. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 85-91.	2.0	11
64	Structural and Magnetic Properties of Nanosized $\text{La}_{0.8}\text{Ca}_{0.2}\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$ Particles (0 $\leq x \leq 0.2$) Prepared by Sol-Gel Method. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 2401-2408.	0.8	11
65	Understanding particle size and distance driven competition of interparticle interactions and effective single-particle anisotropy. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 206004.	0.7	11
66	Preparation of $\text{Y}_3\text{Fe}_5\text{O}_{12}/\text{SiO}_2$ nanocomposites by sol-gel method Influence of modifiers. <i>Solid State Sciences</i> , 2001, 3, 479-483.	0.8	10
67	Frequency-dependent susceptibility and other magnetic properties of Celtic and Mediaeval graphitic pottery from Bohemia: an introductory study. <i>Studia Geophysica Et Geodaetica</i> , 2012, 56, 803-825.	0.3	10
68	Hydrothermal preparation of hydrophobic and hydrophilic nanoparticles of iron oxide and a modification with CM-dextran. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	10
69	The solubility of cupric selenate and the bonding conditions in the compound $\text{Cu}(\text{HSeO}_3)_2$. <i>Collection of Czechoslovak Chemical Communications</i> , 1990, 55, 2441-2446.	1.0	9
70	Characterization of structure of Fe-species in Fe-ferrierite using Mössbauer spectroscopy. <i>European Physical Journal D</i> , 2006, 56, E147-E155.	0.4	9
71	SSG or SFM state in $\text{CoFe}_{1-x}\text{Mn}_x\text{O}_4$ nano-agglomerates fabricated by micro-emulsion method. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1872-1875.	1.0	9
72	Thermoanalytical (TG/DSC/EVGA-GC-MS) characterization of the lanthanide (Ho) iron garnet formation in sol-gel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 130, 1085-1094.	2.0	9

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91	Title is missing!. Journal of Sol-Gel Science and Technology, 2003, 26, 447-451.	1.1	3
92	Discoloration of Fired Kaolinitic Clays (Study of Fe ³⁺ Coordination by Mössbauer and) Tj ETQq0 0 0 rBT /Overlock 10 Tf 19	1.9	3
93	Absolute up- and down-conversion luminescence efficiency in hexagonal Na(Lu/Y/Gd)F ₄ : Yb, Er/Tm/Ho with optimized chemical composition. AIP Advances, 2018, 8, 075226.	0.6	3
94	Structural, magnetic and thermal characterization of Fe ₅₀ Se ₅₀ powders obtained by mechanical alloying. Journal of Thermal Analysis and Calorimetry, 2020, 140, 53-62.	2.0	3
95	Preparation of KHSO ₄ /SiO ₂ Nanocomposites and Their Physical Properties. Journal of Sol-Gel Science and Technology, 2003, 28, 185-191.	1.1	2
96	Doped Lutetium Silicates Scintillators Prepared by Sol-Gel Method. The Effect of Stoichiometry on Phase Relations and Luminescent Properties. IOP Conference Series: Materials Science and Engineering, 2011, 18, 102020.	0.3	2
97	Structural Evolution of a Formamide Modified Solâ€™Spectroscopic Study. Journal of Sol-Gel Science and Technology, 1997, 8, 183-187.	1.1	1
98	Hyperfine interaction of ¹⁵⁵ Gd in gadolinium iron garnet. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 763-765.	1.0	1
99	Magnetomineralogy of the cordierite gneiss from the magnetic anomaly at Humpolec, Bohemian Moldanubicum (Czech Republic). Studia Geophysica Et Geodaetica, 2010, 54, 95-120.	0.3	1
100	Observation of surface effects in La-doped CoFe ₂ O ₄ /SiO ₂ nanocomposites. IOP Conference Series: Materials Science and Engineering, 2011, 18, 022015.	0.3	1
101	ACr ₂ O ₄ /SiO ₂ (A = Zn, Cu, Cd) nanocomposites, their preparation and physical properties. IOP Conference Series: Materials Science and Engineering, 2011, 18, 032024.	0.3	1
102	Elucidating some issues regarding the synthesis of superparamagnetic-like single crystalline micrometric Fe ₃ O ₄ during the hydrothermal process. AIP Conference Proceedings, 2015, , .	0.3	1
103	Superparamagnetic ⁵⁷ Fe-Fe ₂ O ₃ -SiO ₂ Nanocomposites from Fe ₂ O ₃ -SiO ₂ -PVA Hybrid Xerogels: Characterization and MRI Preliminary Testing. Current Organic Chemistry, 2018, 21, .	0.9	1
104	Preparation and characterization of magnetite-based silica nanocomposite. Acta Periodica Technologica, 2004, , 121-129.	0.5	1
105	Sol-Gel Thin Films of BaFe ₁₂ O ₁₉ from Chemically Modified Alkoxide Precursors. Journal of Sol-Gel Science and Technology, 1997, 8, 941-946.	1.1	0
106	A New Approach to Characterization of Barrier Properties of ORMOCER Protective Coatings. Journal of Sol-Gel Science and Technology, 1997, 8, 591-594.	1.1	0
107	Hyperfine interactions of ¹⁵⁵ Gd and ¹⁵⁷ Gd in gadolinium iron garnet. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1689-E1690.	1.0	0
108	Magnetism of FF6.2/SiO ₂ nanocomposites as observed by static and dynamic probes. Journal of Magnetism and Magnetic Materials, 2007, 310, e797-e799.	1.0	0

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109	Origin of high-coercivity in nanocomposites by single-precursor sol-gel method. Journal of Physics: Conference Series, 2011, 266, 012123.	0.3	0
110	High-Coercivity Iron Oxide Based Nanocomposites -Particle Shape and Magnetic Structure by Synchrotron and Neutron Scattering. IOP Conference Series: Materials Science and Engineering, 2011, 18, 022010.	0.3	0
111	Nanocomposite of CeO ₂ and High-Coercivity Magnetic Carrier with Large Specific Surface Area. Journal of Nanomaterials, 2016, 2016, 1-13.	1.5	0
112	Magnetic Study of SiO ₂ /Î ³ -Fe ₂ O ₃ Nanocomposites Prepared by the SOL-GEL Method. European Physical Journal Special Topics, 1997, 07, C1-555-C1-556.	0.2	0
113	A temperature and magnetic field dependence Mössbauer study of Î _μ Fe ₂ O ₃ . , 2006, , 475-481.		0