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List of Publications by Year in descending order

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331538 395590 1,361 68 21 33 h-index g-index citations papers 69 69 69 2072 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Influence of synthesis method on structural and magnetic properties of cobalt ferrite nanoparticles. Journal of Nanoparticle Research, 2010, 12, 1263-1273.	0.8	113
2	Synthesis of nickel and cobalt sulfide nanoparticles using a low cost sonochemical method. Heliyon, 2017, 3, e00273.	1.4	77
3	Oleic-acid-coated CoFe2O4 nanoparticles synthesized by co-precipitation and hydrothermal synthesis. Materials Chemistry and Physics, 2012, 133, 515-522.	2.0	57
4	Colloidal stability of oleic- and ricinoleic-acid-coated magnetic nanoparticles in organic solvents. Journal of Colloid and Interface Science, 2011, 354, 498-505.	5.0	56
5	Hydrothermal growth of iron oxide NPs with a uniform size distribution for magnetically induced hyperthermia: Structural, colloidal and magnetic properties. Journal of Alloys and Compounds, 2017, 694, 261-271.	2.8	50
6	Magnetic properties and heating efficacy of magnesium doped magnetite nanoparticles obtained by co-precipitation method. Journal of Magnetism and Magnetic Materials, 2019, 475, 470-478.	1.0	45
7	Superparamagnetic nanocomposites of iron oxide in a polymethyl methacrylate matrix synthesized by in situ polymerization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 317, 49-55.	2.3	42
8	Effects of magnetic cobalt ferrite nanoparticles on biological and artificial lipid membranes. International Journal of Nanomedicine, 2014, 9, 1559.	3.3	41
9	Adsorption of Amino Acids, Aspartic Acid, and Lysine onto Iron-Oxide Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 14372-14381.	1.5	37
10	Thermal spraying of Co, Ti-substituted Ba-hexaferrite coatings for electromagnetic wave absorption applications. Surface and Coatings Technology, 2009, 203, 3312-3319.	2.2	36
11	Catalytic Hydrogenation, Hydrodeoxygenation, and Hydrocracking Processes of a Lignin Monomer Model Compound Eugenol over Magnetic Ru/C–Fe2O3 and Mechanistic Reaction Microkinetics. Catalysts, 2018, 8, 425.	1.6	34
12	Quantifying shapes of nanoparticles using modified circularity and ellipticity measures. Measurement: Journal of the International Measurement Confederation, 2016, 92, 252-263.	2.5	32
13	Mesoporous silica nanoparticles modified with N-rich polymer as a potentially environmentally-friendly delivery system for pesticides. Microporous and Mesoporous Materials, 2021, 310, 110663.	2.2	30
14	Critical thinking on baseline corrections for electrochemical surface area (ECSA) determination of Pt/C through H-adsorption/H-desorption regions of a cyclic voltammogram. Applied Catalysis B: Environmental, 2022, 311, 121351.	10.8	29
15	Characterisation of plasma-sprayed SrFe12O19 coatings for electromagnetic wave absorption. Journal of the European Ceramic Society, 2011, 31, 1439-1449.	2.8	27
16	Sonochemical preparation of copper sulfides with different phases in aqueous solutions. Materials Research Bulletin, 2013, 48, 1184-1188.	2.7	27
17	Discrete evolution of the crystal structure during the growth of Ba-hexaferrite nanoplatelets. Nanoscale, 2018, 10, 14480-14491.	2.8	27
18	Magnetically separable Ru-based nano-catalyst for the hydrogenation/hydro-deoxygenation of lignin-derived platform chemicals. Materials Research Letters, 2018, 6, 426-431.	4.1	26

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19	Catalyst structure-based hydroxymethylfurfural (HMF) hydrogenation mechanisms, activity and selectivity over Ni. Chemical Engineering Journal, 2021, 412, 127553.	6.6	26
20	Incorporation of Sc into the structure of barium-hexaferrite nanoplatelets and its extraordinary finite-size effect on the magnetic properties. Acta Materialia, 2019, 172, 84-91.	3.8	24
21	Environmentally and Industrially Friendly Recycling of Platinum Nanoparticles Through Electrochemical Dissolution–Electrodeposition in Acidâ€Free/Dilute Acidic Electrolytes. ChemSusChem, 2018, 11, 3742-3750.	3.6	22
22	Synthesis of Poly-Sodium-Acrylate (PSA)-Coated Magnetic Nanoparticles for Use in Forward Osmosis Draw Solutions. Nanomaterials, 2019, 9, 1238.	1.9	22
23	A hierarchical Ru-bearing alumina/magnetic iron-oxide composite for the magnetically heated hydrogenation of furfural. Green Chemistry, 2020, 22, 5978-5983.	4.6	22
24	Superparamagnetic Fe3O4@CA Nanoparticles and Their Potential as Draw Solution Agents in Forward Osmosis. Nanomaterials, 2021, 11, 2965.	1.9	22
25	Superior stability and high biosorbent efficiency of carboxymethylchitosan covalently linked to silica-coated core-shell magnetic nanoparticles for application in copper removal. Journal of Environmental Chemical Engineering, 2019, 7, 102913.	3.3	21
26	Efficient Copper Removal from an Aqueous Anvironment using a Novel and Hybrid Nanoadsorbent Based on Derived-Polyethyleneimine Linked to Silica Magnetic Nanocomposites. Nanomaterials, 2019, 9, 209.	1.9	21
27	Superparamagnetic nanocomposite particles synthesized using the mini-emulsion technique. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 366, 113-119.	2.3	20
28	Anisotropic microrheological properties of chain-forming magnetic fluids. Soft Matter, 2011, 7, 125-131.	1.2	19
29	Holographic Gratings for Slow-Neutron Optics. Materials, 2012, 5, 2788-2815.	1.3	19
30	Orientational Order-Magnetization Coupling in Mixtures of Magnetic Nanoparticles and the Ferroelectric Liquid Crystal. Ferroelectrics, 2010, 410, 37-41.	0.3	18
31	PZT–NZF/CF ferrite flexible thick films: Structural, dielectric, ferroelectric, and magnetic characterization. Journal of Advanced Ceramics, 2019, 8, 545-554.	8.9	18
32	Synthesis of magnetic iron oxide particles: Development of an in situ coating procedure for fibrous materials. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 400, 58-66.	2.3	17
33	Pt/C Electrocatalyst Durability Enhancement by Inhibition of Pt Nanoparticle Growth Through Microwave Pretreatment of Carbon Support. ChemElectroChem, 2021, 8, 1183-1195.	1.7	17
34	Synthesis and characterization of nanosized silver chalcogenides under ultrasonic irradiation. Materials Express, 2015, 5, 359-366.	0.2	16
35	Novel Ba-hexaferrite structural variations stabilized on the nanoscale as building blocks for epitaxial bi-magnetic hard/soft sandwiched maghemite/hexaferrite/maghemite nanoplatelets with out-of-plane easy axis and enhanced magnetization. Nanoscale, 2017, 9, 17551-17560.	2.8	16
36	Mixtures of Magnetic Nanoparticles and the Ferroelectric Liquid Crystal: New Soft Magnetoelectrics. Ferroelectrics, 2012, 431, 150-153.	0.3	14

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37	Influence of Al(OH) ₃ nanoparticles on the mechanical and fire resistance properties of poly(methyl methacrylate) nanocomposites. Polymer Composites, 2016, 37, 1659-1666.	2.3	14
38	Gram-size Pt/C catalyst synthesized using Pt compound directly recovered from an end-of-life PEM fuel cell stack. Materials Chemistry and Physics, 2022, 276, 125439.	2.0	14
39	Recovery of Pt and Ru from Spent Low-Temperature Polymer Electrolyte Membrane Fuel Cell Electrodes and Recycling of Pt by Direct Redeposition of the Dissolved Precursor on Carbon. ACS Applied Energy Materials, 2021, 4, 6842-6852.	2.5	12
40	Electrification of Catalytic Ammonia Production and Decomposition Reactions: From Resistance, Induction, and Dielectric Reactor Heating to Electrolysis. ACS Applied Energy Materials, 2022, 5, 5457-5472.	2.5	12
41	Nanocomposites comprised of homogeneously dispersed magnetic iron-oxide nanoparticles and poly(methyl methacrylate). Beilstein Journal of Nanotechnology, 2018, 9, 1613-1622.	1.5	11
42	Magnetic Heating of Nanoparticles Applied in the Synthesis of a Magnetically Recyclable Hydrogenation Nanocatalyst. Nanomaterials, 2020, 10, 1142.	1.9	11
43	Use of Natural Clinoptilolite in the Preparation of an Efficient Adsorbent for Ciprofloxacin Removal from Aqueous Media. Minerals (Basel, Switzerland), 2021, 11, 518.	0.8	11
44	Mechanochemical Route for the Preparation of Nanosized Aluminum and Gallium Sulfide and Selenide. Materials and Manufacturing Processes, 2016, 31, 1608-1612.	2.7	10
45	Evolution of the microstructure during the early stages of sintering barium hexaferrite nanoplatelets. Journal of the European Ceramic Society, 2019, 39, 4831-4841.	2.8	10
46	Sonochemical synthesis, characterization and photocatalytic activity of Bi2Mo3O12. Inorganic Chemistry Communication, 2020, 112, 107699.	1.8	10
47	Magnetic nanostructures functionalized with a derived lysine coating applied to simultaneously remove heavy metal pollutants from environmental systems. Science and Technology of Advanced Materials, 2021, 22, 55-71.	2.8	10
48	Microwave-Assisted Scalable Synthesis of Pt/C: Impact of the Microwave Irradiation and Carrier Solution Polarity on Nanoparticle Formation and Aging of the Support Carbon. ACS Applied Energy Materials, 2022, 5, 705-716.	2.5	9
49	Electro-hydrogenation of biomass-derived levulinic acid to γ-valerolactone <i>via</i> the magnetic heating of a Ru nanocatalyst. Green Chemistry, 2022, 24, 2788-2794.	4.6	8
50	Formation of phosphonate coatings for improved chemical stability of upconverting nanoparticles under physiological conditions. Dalton Transactions, 2021, 50, 6588-6597.	1.6	7
51	Numerical Model for Determining the Magnetic Loss of Magnetic Fluids. Materials, 2019, 12, 591.	1.3	6
52	Solution combustion synthesized ceria or alumina supported Pt as cathode electrocatalyst for PEM fuel cells. Materials Chemistry and Physics, 2020, 242, 122444.	2.0	6
53	A new polymorph of strontium hexaferrite stabilized at the nanoscale. CrystEngComm, 2020, 22, 7113-7122.	1.3	6
54	Solvent-Free Mechanochemical Synthesis and Characterization of Nickel Tellurides with Various Stoichiometries: NiTe, NiTe2 and Ni2Te3. Nanomaterials, 2021, 11, 1959.	1.9	6

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55	Preparation of Nanosized Copper and Cadmium Chalcogenides by Mechanochemical Synthesis. Materials and Manufacturing Processes, 0, , 130819103350008.	2.7	5
56	The formation of magnetic carboxymethyl-dextrane-coated iron-oxide nanoparticles using precipitation from an aqueous solution. Materials Chemistry and Physics, 2015, 153, 376-383.	2.0	5
57	Structure and magnetic properties of Co3O4/SiO2 nanocomposite synthesized using combustion assisted sol-gel method. Ceramics International, 2016, 42, 18312-18317.	2.3	5
58	Ferroelectric bismuth-titanate nanoplatelets and nanowires with a new crystal structure. Nanoscale, 2022, 14, 3537-3544.	2.8	5
59	Preparation of a Superparamagnetic Nanocomposite with a High Content of Magnetic Iron Oxide in a PMMA Matrix by Precipitation Polymerization. Composite Interfaces, 2010, 17, 137-141.	1.3	4
60	Structural and thermal properties of new copper and nickel single-source precursors. Journal of Molecular Structure, 2019, 1194, 171-177.	1.8	4
61	Indirect Magnetoelectric Coupling in Mixtures of Magnetite and Ferroelectric Liquid Crystal. Ferroelectrics, 2013, 448, 12-16.	0.3	3
62	Neutron diffraction from superparamagnetic colloidal crystals. Journal of Physics and Chemistry of Solids, 2017, 110, 234-240.	1.9	3
63	Magnetic memory effect in hollandite-type α-K MnO2 monocrystalline nanorods. Journal of Alloys and Compounds, 2020, 820, 153406.	2.8	3
64	Sol–gel preparation of NixCu1–x/silica nanocomposites using different silica precursors. Journal of Sol-Gel Science and Technology, 2022, 101, 579-587.	1.1	3
65	Magnetic polydomain liquid crystal elastomers – synthesis and characterisation. Liquid Crystals, 2021, 48, 1815-1826.	0.9	3
66	Hydrothermal formation of bismuth-titanate nanoplatelets and nanowires: the role of metastable polymorphs. CrystEngComm, 2022, 24, 3972-3981.	1.3	3
67	The magnetic and colloidal properties of CoFe2O4 nanoparticles synthesized by co-precipitation. Acta Chimica Slovenica, 2014, 61, 488-96.	0.2	2
68	Functionalization of iron oxide nanoparticles with methacrylate-based monomers for preparation of nanocomposites. AIP Conference Proceedings, 2018 , , .	0.3	0