List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Combined biomass valorization and hydrogen production in a photoelectrochemical cell. Nature Chemistry, 2015, 7, 328-333.	6.6	564
2	Electrochemical Synthesis of Photoelectrodes and Catalysts for Use in Solar Water Splitting. Chemical Reviews, 2015, 115, 12839-12887.	23.0	481
3	Synthesis and Characterization of Antibacterial Agâ~'SiO2 Nanocomposite. Journal of Physical Chemistry C, 2007, 111, 3629-3635.	1.5	283
4	Preparation and Characterization of the Antibacterial Cu Nanoparticle Formed on the Surface of SiO2Nanoparticles. Journal of Physical Chemistry B, 2006, 110, 24923-24928.	1.2	229
5	Electrocatalysis of 5-hydroxymethylfurfural at cobalt based spinel catalysts with filamentous nanoarchitecture in alkaline media. Applied Catalysis B: Environmental, 2019, 242, 85-91.	10.8	145
6	Biological Valorization of Poly(ethylene terephthalate) Monomers for Upcycling Waste PET. ACS Sustainable Chemistry and Engineering, 2019, 7, 19396-19406.	3.2	141
7	Preparation of Dendritic Copper Nanostructures and Their Characterization for Electroreduction. Journal of Physical Chemistry C, 2009, 113, 15891-15896.	1.5	106
8	Recent Advances in Sustainable Plastic Upcycling and Biopolymers. Biotechnology Journal, 2020, 15, e1900489.	1.8	92
9	Depolymerization of PET into terephthalic acid in neutral media catalyzed by the ZSM-5 acidic catalyst. Chemical Engineering Journal, 2020, 398, 125655.	6.6	89
10	Facile preparation of Fe ₂ O ₃ thin film with photoelectrochemical properties. Chemical Communications, 2011, 47, 2441-2443.	2.2	80
11	Axis-Oriented, Anatase TiO ₂ Single Crystals with Dominant {001} and {100} Facets. Crystal Growth and Design, 2011, 11, 3947-3953.	1.4	76
12	Enhancing Photocatalytic β-O-4 Bond Cleavage in Lignin Model Compounds by Silver-Exchanged Cadmium Sulfide. ACS Catalysis, 2020, 10, 8465-8475.	5.5	70
13	Nanocystals of Hematite with Unconventional Shape-Truncated Hexagonal Bipyramid and Its Optical and Magnetic Properties. Crystal Growth and Design, 2012, 12, 862-868.	1.4	67
14	Vast Magnetic Monolayer Film with Surfactant-Stabilized Fe ₃ O ₄ Nanoparticles Using Langmuirâ^Blodgett Technique. Journal of Physical Chemistry B, 2007, 111, 9288-9293.	1.2	66
15	Synthesis of Highly Magnetized Iron Nanoparticles by a Solventless Thermal Decomposition Method. Journal of Physical Chemistry C, 2007, 111, 6275-6280.	1.5	60
16	Dielectric and magnetic properties of (x)CoFe2O4+(1â^'x)Ba0.8Sr0.2TiO3 magnetoelectric composites. Materials Chemistry and Physics, 2009, 116, 6-10.	2.0	58
17	Single-Crystalline Porous Hematite Nanorods: Photocatalytic and Magnetic Properties. Journal of Physical Chemistry C, 2011, 115, 19129-19135.	1.5	53
18	Five different chitin nanomaterials from identical source with different advantageous functions and performances. Carbohydrate Polymers, 2019, 205, 392-400.	5.1	53

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19	Preparation and characterization of α-Fe2O3 nanorod-thin film by metal–organic chemical vapor deposition. Thin Solid Films, 2009, 517, 1853-1856.	0.8	52
20	Preparation of magnetic FeCo nanoparticles by coprecipitation route. Current Applied Physics, 2007, 7, 404-408.	1.1	50
21	Nonstop Monomer-to-Aramid Nanofiber Synthesis with Remarkable Reinforcement Ability. Macromolecules, 2019, 52, 923-934.	2.2	49
22	Biobased thermoplastic elastomer with seamless 3D-Printability and superior mechanical properties empowered by in-situ polymerization in the presence of nanocellulose. Composites Science and Technology, 2020, 185, 107885.	3.8	49
23	Effect of Different Surfactants on the Size Control and Optical Properties of Y ₂ O ₃ :Eu ³⁺ Nanoparticles Prepared by Coprecipitation Method. Journal of Physical Chemistry C, 2009, 113, 13600-13604.	1.5	44
24	Carbon Support with Tunable Porosity Prepared by Carbonizing Chitosan for Catalytic Oxidation of 5-Hydroxylmethylfurfural. ACS Sustainable Chemistry and Engineering, 2019, 7, 3742-3748.	3.2	43
25	Surface Investigation and Magnetic Behavior of Co Nanoparticles Prepared via a Surfactant-Mediated Polyol Process. Journal of Physical Chemistry C, 2009, 113, 5081-5086.	1.5	40
26	Efficient Fe2O3/C-g-C3N4 Z-scheme heterojunction photocatalyst prepared by facile one-step carbonizing process. Journal of Physics and Chemistry of Solids, 2019, 130, 93-99.	1.9	38
27	A chemo-microbial hybrid process for the production of 2-pyrone-4,6-dicarboxylic acid as a promising bioplastic monomer from PET waste. Green Chemistry, 2020, 22, 3461-3469.	4.6	36
28	Synthesis and Characterization of Highly Magnetized Nanocrystalline Co30Fe70Alloy by Chemical Reduction. Journal of Physical Chemistry B, 2006, 110, 24418-24423.	1.2	35
29	Effect of Different Additives on the Size Control and Emission Properties of Y ₂ O ₃ :Eu ³⁺ Nanoparticles Prepared through the Coprecipitation Method. Journal of Physical Chemistry C, 2009, 113, 16652-16657.	1.5	35
30	Characterization and Magnetic Behavior of Fe and Ndâ^'Feâ^'B Nanoparticles by Surfactant-Capped High-Energy Ball Mill. Journal of Physical Chemistry C, 2007, 111, 1219-1222.	1.5	32
31	Preparation and Characterization of the Magnetic Fluid of Trimethoxyhexadecylsilane-Coated Fe ₃ O ₄ Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 9802-9807.	1.5	31
32	Vertical cobalt dendrite array films: electrochemical deposition and characterization, glucose oxidation and magnetic properties. Journal of Materials Chemistry, 2012, 22, 12296.	6.7	31
33	Bulklike Thermal Behavior of Antibacterial Agâ^'SiO ₂ Nanocomposites. Journal of Physical Chemistry C, 2009, 113, 5105-5110.	1.5	30
34	Study on synthesis and magnetic properties of Nd–Fe–B alloy via reduction–diffusion process. Physica Scripta, 2007, T129, 321-325.	1.2	29
35	A ball milling-based one-step transformation of chitin biomass to organo-dispersible strong nanofibers passing highly time and energy consuming processes. International Journal of Biological Macromolecules, 2019, 125, 660-667.	3.6	29
36	Deep eutectic solvent stabilised Co–P films for electrocatalytic oxidation of 5-hydroxymethylfurfural into 2,5-furandicarboxylic acid. New Journal of Chemistry, 2020, 44, 14239-14245.	1.4	28

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37	Solventless Nanoparticles Synthesis under Low Pressure. Inorganic Chemistry, 2008, 47, 121-127.	1.9	26
38	Fabrication of hollow metal oxide nanocrystals by etching cuprous oxide with metal(ii) ions: approach to the essential driving force. Nanoscale, 2013, 5, 11227.	2.8	26
39	Photocatalysis: progress using manganese-doped hematite nanocrystals. New Journal of Chemistry, 2013, 37, 4004.	1.4	25
40	Superlattice of Ag Nanoparticles Prepared by New One-Step Synthetic Method in Aqueous Phase. Chemistry of Materials, 2007, 19, 5049-5051.	3.2	24
41	Characterization of the Spironaphthooxazine Doped Photochromic Glass:  The Effect of Matrix Polarity and Pore Size. Journal of Physical Chemistry C, 2008, 112, 1140-1145.	1.5	23
42	One-dimensional ferromagnetic dendritic iron wire array growth by facile electrochemical deposition. Nanoscale, 2012, 4, 1565.	2.8	23
43	Manual assembly of nanocrystals for enhanced photoelectrochemical efficiency of hematite film. Chemical Communications, 2015, 51, 6407-6410.	2.2	22
44	Chitosan-Derived Porous Activated Carbon for the Removal of the Chemical Warfare Agent Simulant Dimethyl Methylphosphonate. Nanomaterials, 2019, 9, 1703.	1.9	21
45	Emission controlled dual emitting Eu-doped CaMgSi2O6 nanophosphors. Journal of Luminescence, 2015, 157, 131-136.	1.5	19
46	Which electrode is better for biomass valorization: Cu(OH)2 or CuO nanowire?. Korean Journal of Chemical Engineering, 2020, 37, 556-562.	1.2	18
47	Preparation for exchange-coupled permanent magnetic composite between α-Fe (soft) and Nd2Fe14B (hard). Current Applied Physics, 2007, 7, 400-403.	1.1	16
48	Selective Alcohol on Dark Cathodes by Photoelectrochemical CO ₂ Valorization and Their In Situ Characterization. ACS Energy Letters, 2019, 4, 1549-1555.	8.8	15
49	Controlling crystal growth orientation and crystallinity of cadmium sulfide nanocrystals in aqueous phase by using cationic surfactant. CrystEngComm, 2012, 14, 7888.	1.3	12
50	Synthesis and Characterization of Crystalline FeCo Nanoparticles. Journal of Nanoscience and Nanotechnology, 2006, 6, 3417-3421.	0.9	11
51	Hierarchical NiO hollow microspheres: electrochemical and magnetic properties. RSC Advances, 2012, 2, 9786.	1.7	11
52	Selective liquid chemicals on CO2 reduction by energy level tuned rGO/TiO2 dark cathode with BiVO4 photoanode. Applied Catalysis B: Environmental, 2021, 295, 120267.	10.8	11
53	Synthesis of <1>α-Fe Nanoparticles by Solventless Thermal Decomposition. Journal of Nanoscience and Nanotechnology, 2006, 6, 3412-3416.	0.9	9
54	Template Assisted Growth of Cobalt Ferrite Nanowires. Journal of Nanoscience and Nanotechnology, 2009, 9, 4942-4947.	0.9	9

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55	The Renewable and Sustainable Conversion of Chitin into a Chiral Nitrogenâ€Doped Carbonâ€Sheath Nanofiber for Enantioselective Adsorption. ChemSusChem, 2019, 12, 3236-3242.	3.6	9
56	PREPARATION AND CHARACTERIZATION OF Ag (CORE)/ SiO ₂ (SHELL) NANOPARTICLES. Surface Review and Letters, 2007, 14, 693-696.	0.5	8
57	Preparation of aqueous dispersion of colloidal $\hat{I}\pm$ -Fe nanoparticle by phase transfer. Sensors and Actuators B: Chemical, 2007, 126, 221-225.	4.0	8
58	Kinetics of Decolorization of Spironaphthooxazine-Doped Photochromic Polymer Films. Journal of Physical Chemistry B, 2009, 113, 12923-12927.	1.2	8
59	Enhanced photoluminescence of single crystalline ZnO nanotubes in ZnAl2O4 shell. CrystEngComm, 2012, 14, 1205.	1.3	8
60	Synthesis and Characterization of Crystalline FeCo Nanoparticles. Journal of Nanoscience and Nanotechnology, 2006, 6, 3417-3421.	0.9	6
61	Enhanced Exchange-Coupling Effect in Nd-Fe-B/Fe-B Nanocomposite Magnet. Journal of Nanoscience and Nanotechnology, 2010, 10, 186-190.	0.9	6
62	New Avenues to Efficient Chemical Synthesis of Exchange Coupled Hard/Soft Nanocomposite Magnet. Journal of Nanoscience and Nanotechnology, 2009, 9, 4453-4458.	0.9	5
63	Preparation and Antibiotic Property of Ag-SiO2Nanoparticle. Molecular Crystals and Liquid Crystals, 2007, 464, 83/[665]-91/[673].	0.4	4
64	Preparation and Characterization of Nd2Fe14B/α-Fe Nanocomposite Magnetic Material by Reduction Diffusion Process. Molecular Crystals and Liquid Crystals, 2007, 464, 127/[709]-135/[717].	0.4	4
65	PREPARATION OF ANTIBACTERIAL SILVER-CONTAINING SILICA NANOCOMPOSITE. Surface Review and Letters, 2008, 15, 117-122.	0.5	4
66	Exchange-Coupling Effect of Nd2Fe14B/FeCo Nanocomposite by Colloidal Method. Molecular Crystals and Liquid Crystals, 2007, 464, 1/[583]-7/[589].	0.4	3
67	Hydrothermal Synthesis of Anatase TiO ₂ Nanorods with High Crystallinity Using Ammonia Solution as a Solvent. Journal of Nanoscience and Nanotechnology, 2011, 11, 6007-6012.	0.9	3
68	Synthesis of α-Fe Nanoparticles by Solventless Thermal Decomposition. Journal of Nanoscience and Nanotechnology, 2006, 6, 3412-3416.	0.9	3
69	TREATMENT OF TiO2 FOR THE SUPPRESSION OF PHOTO-CATALYTIC PROPERTY AND DISPERSION STABILITY. International Journal of Nanoscience, 2006, 05, 795-801.	0.4	2
70	Synthesis and Characterization of Vitamin Encapsulated Mesoporous Silica with TEOS. Journal of Nano Research, 2008, 3, 89-96.	0.8	2
71	Study of the Magnetic Phase of Fe-Pt Alloy Nanoparticles. Journal of Nanoscience and Nanotechnology, 2008, 8, 4666-4669.	0.9	2
72	The Influence of Low Temperature on Î ³ -Ray Irradiated Permanent Magnets. Journal of Nanoscience and Nanotechnology, 2009, 9, 6953-6.	0.9	2

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73	Magnetic Property of Sm-Co Nanoparticles Prepared by Solution Phase Metal Salt Reduction. Journal of Nanoscience and Nanotechnology, 2009, 9, 7071-5.	0.9	2
74	The effect of hydrogen treatment on magnetic property of porous iron oxides nanorods. Materials Letters, 2014, 136, 245-250.	1.3	2
75	Reduction diffusion process for preparation of Nd-Fe-B based alloy. , 2006, , .		1
76	A Study on the Exchange-Coupling Effect of Nd ₂ Fe ₁₄ B/CoFe Forming Core/Shell Shape. Molecular Crystals and Liquid Crystals, 2007, 472, 155/[545]-160/[550].	0.4	1
77	Preparation and Characterization of Cu–SiO2Nanocomposite. Molecular Crystals and Liquid Crystals, 2007, 472, 217/[607]-223/[613].	0.4	1
78	The Synthesis and Characterization of SmCo Magnetic Nanoparticle by Thermal Decomposition. Molecular Crystals and Liquid Crystals, 2007, 464, 39/[621]-49/[631].	0.4	1
79	Copper Metallization on the Surface-Modified Polyimide Films by Electroless Plating Method. Molecular Crystals and Liquid Crystals, 2008, 492, 275/[639]-282/[646].	0.4	1
80	Copper Plating on the Polyimide Film by Electroless Plating Techniques for EMI Shielding. Journal of Nanoscience and Nanotechnology, 2009, 9, 7065-70.	0.9	1
81	Synthesis of alpha-Fe nanoparticles by solventless thermal decomposition. Journal of Nanoscience and Nanotechnology, 2006, 6, 3412-6.	0.9	1
82	Synthesis and charateristics of NdFeB magnetic nanoparticle. , 2006, , .		0
83	Preparation and characterization of Ag nanoparticle using hydrothermal process. , 2006, , .		0
84	Preparation and Characterization of Soft Phase Magnetic α-Fe Nanoparticles by Different Methods. Solid State Phenomena, 2007, 119, 151-154.	0.3	0
85	<l>l̂3</l> -Ray Irradiation on Microsized Nd-Fe-B and Sr-Ferrite Magnets at Low Temperature. Journal of Nanoscience and Nanotechnology, 2009, 9, 4067-4072.	0.9	0
86	Characterization on the Microstructure of <l>γ</l> -Ray Irradiated Nd ₂ Fe ₁₄ B Magnet. Journal of Nanoscience and Nanotechnology, 2009, 9, 827-831.	0.9	0
87	Characterization of Ag Nanoparticle Superlattice Structure Prepared Using Two Carboxylic Acids. Journal of Nanoscience and Nanotechnology, 2009, 9, 4324-4327.	0.9	0
88	Correction to Nanocrystals of Hematite with Unconventional Shape-Truncated Hexagonal Bipyramid and Its Optical and Magnetic Properties. Crystal Growth and Design, 2012, 12, 1694-1694.	1.4	0
89	Length control of packed single crystalline TiO2 nanorods for dye-sensitized solar cell. , 2015, , .		0