

Aidin Lak

List of Publications by Year in descending order

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35
papers

1,255
citations

361413

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h-index

361022

35
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37
all docs

37
docs citations

37
times ranked

2193
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetric Assembling of Iron Oxide Nanocubes for Improving Magnetic Hyperthermia Performance. ACS Nano, 2017, 11, 12121-12133.	14.6	106
2	Size dependent structural and magnetic properties of FeO@Fe ₃ O ₄ nanoparticles. Nanoscale, 2013, 5, 12286.	5.6	103
3	Self-Assembly of Dandelion-Like Hydroxyapatite Nanostructures Via Hydrothermal Method. Journal of the American Ceramic Society, 2008, 91, 3292-3297.	3.8	86
4	Nanostructure sword-like ZnO wires: Rapid synthesis and characterization through a microwave-assisted route. Journal of Alloys and Compounds, 2009, 469, 293-297.	5.5	82
5	Rapid Formation of Mono-Dispersed Hydroxyapatite Nanorods with Narrow Size Distribution via Microwave Irradiation. Journal of the American Ceramic Society, 2008, 91, 3580-3584.	3.8	79
6	Influence of the Ion Coordination Number on Cation Exchange Reactions with Copper Telluride Nanocrystals. Journal of the American Chemical Society, 2016, 138, 7082-7090.	13.7	67
7	Rapid formation of hydroxyapatite nanostrips via microwave irradiation. Journal of Alloys and Compounds, 2009, 469, 391-394.	5.5	61
8	Self-assembled zinc oxide nanostructures via a rapid microwave-assisted route. Journal of Crystal Growth, 2008, 310, 3621-3625.	1.5	60
9	Fe ²⁺ Deficiencies, FeO Subdomains, and Structural Defects Favor Magnetic Hyperthermia Performance of Iron Oxide Nanocubes into Intracellular Environment. Nano Letters, 2018, 18, 6856-6866.	9.1	53
10	Effect of morphology on the solar photocatalytic behavior of ZnO nanostructures. Journal of Alloys and Compounds, 2009, 485, 616-620.	5.5	49
11	Embracing Defects and Disorder in Magnetic Nanoparticles. Advanced Science, 2021, 8, 2002682.	11.2	45
12	Ultrasonic induced photoluminescence decay in sonochemically obtained cauliflower-like ZnO nanostructures with surface 1D nanoarrays. Ultrasonics Sonochemistry, 2009, 16, 11-14.	8.2	43
13	3D bundles of self-assembled lanthanum hydroxide nanorods via a rapid microwave-assisted route. Journal of Alloys and Compounds, 2009, 473, 283-287.	5.5	40
14	Effective particle magnetic moment of multi-core particles. Journal of Magnetism and Magnetic Materials, 2015, 380, 221-226.	2.3	40
15	Facile transformation of FeO/Fe ₃ O ₄ core-shell nanocubes to Fe ₃ O ₄ via magnetic stimulation. Scientific Reports, 2016, 6, 33295.	3.3	37
16	Self-assembly of boehmite nanopetals to form 3D high surface area nanoarchitectures. Applied Physics A: Materials Science and Processing, 2010, 99, 317-321.	2.3	35
17	Plasmonic/magnetic nanocomposites: Gold nanorods-functionalized silica coated magnetic nanoparticles. Journal of Colloid and Interface Science, 2017, 502, 201-209.	9.4	35
18	Protein detection with magnetic nanoparticles in a rotating magnetic field. Journal of Applied Physics, 2014, 115, .	2.5	33

#	ARTICLE	IF	CITATIONS
19	Highly stable monodisperse PEGylated iron oxide nanoparticle aqueous suspensions: a nontoxic tracer for homogeneous magnetic bioassays. <i>Nanoscale</i> , 2013, 5, 11447.	5.6	32
20	Molecular structure, DNA binding mode, photophysical properties and recommendations for use of SYBR Gold. <i>Nucleic Acids Research</i> , 2021, 49, 5143-5158.	14.5	31
21	Size Distribution and Magnetization Optimization of Single-Core Iron Oxide Nanoparticles by Exploiting Design of Experiment Methodology. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 201-207.	2.1	22
22	Dumbbell-like Au _{0.5} Cu _{0.5} @Fe ₃ O ₄ Nanocrystals: Synthesis, Characterization, and Catalytic Activity in CO Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28624-28632.	8.0	20
23	Boehmite nanopetals self assembled to form rosette-like nanostructures. <i>Materials Letters</i> , 2008, 62, 4184-4186.	2.6	17
24	Point-of-need detection of pathogen-specific nucleic acid targets using magnetic particle spectroscopy. <i>Biosensors and Bioelectronics</i> , 2021, 192, 113536.	10.1	12
25	Tailoring defect structure and optical absorption of porous anodic aluminum oxide membranes. <i>Materials Chemistry and Physics</i> , 2012, 135, 206-211.	4.0	10
26	Resolving particle size modality in bi-modal iron oxide nanoparticle suspensions. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 380, 140-143.	2.3	10
27	The Dissociation Rate of Acetylacetonate Ligands Governs the Size of Ferrimagnetic Zinc Ferrite Nanocubes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 217-226.	8.0	9
28	Dynamic Magnetic Properties of Optimized Magnetic Nanoparticles for Magnetic Particle Imaging. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	2.1	8
29	Photocatalytic activity of TiO ₂ -capped ZnO nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 361-369.	2.2	7
30	High-density array of Au nanowires coupled by plasmon modes. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2012, 61, 237105.	0.5	7
31	Photo-induced copper mediated copolymerization of activated-ester methacrylate polymers and their use as reactive precursors to prepare multi-dentate ligands for the water transfer of inorganic nanoparticles. <i>Polymer Chemistry</i> , 2020, 11, 2969-2985.	3.9	6
32	Magnetorelaxometry of few Fe ₃ O ₄ nanoparticles at 77 K employing a self-compensated SQUID magnetometer. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 408, 46-50.	2.3	4
33	Self-assembled dahlia-like cadmium hydrogen phosphate hydrate nanostructures as templates for cadmium hydroxyapatite hexagonal prisms. <i>Journal of Crystal Growth</i> , 2007, 309, 37-42.	1.5	2
34	Influence of Synthesis Parameters on Magnetization and Size of Iron Oxide Nanoparticles. , 2010, , .		2
35	Manipulating the morphology of the nano oxide domain in AuCu@iron oxide dumbbell-like nanocomposites as a tool to modify magnetic properties. <i>RSC Advances</i> , 2018, 8, 22411-22421.	3.6	1