Jeyadevan Balachandran

List of Publications by Year
in descending order

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		623734	434195
32	977	14	31
papers	citations	h-index	g-index

32	32	32	1634
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unravelling an amine-regulated crystallization crossover to prove single/multicore effects on the biomedical and environmental catalytic activity of magnetic iron oxide colloids. Journal of Colloid and Interface Science, 2022, 608, 1585-1597.	9.4	16
2	Origin of carbon dot fluorescence in organosilica films explored experimentally by surface functionalization. Journal of Sol-Gel Science and Technology, 2022, 104, 702-710.	2.4	3
3	Pt distribution-controlled Niâ€“Pt nanocrystals via an alcohol reduction technique for the oxygen reduction reaction. New Journal of Chemistry, 2021, 45, 11183-11191.	2.8	2
4	Selection Criteria for Metal Precursors and Solvents for Targeted Synthesis of Metallic Nanostructures Via Kinetic Control in the Polyol Process. Inorganic Chemistry, 2021, 60, 3025-3036.	4.0	17
5	Theoretical and Experimental Evaluation of the Reduction Potential of Straight-Chain Alcohols for the Designed Synthesis of Bimetallic Nanostructures. Inorganic Chemistry, 2021, 60, 9432-9441.	4.0	7
6	In-vitro heat-generating and apatite-forming abilities of PMMA bone cement containing TiO2 and Fe3O4. Ceramics International, 2021, 47, 12292-12299.	4.8	14
7	Propagation mechanism of surface plasmons coupled with surface-enhanced resonant Raman scattering light through a one-dimensional hotspot along a silver nanowire dimer junction. Physical Review B, 2021, 103, .	3.2	9
8	Strategy to Design-Synthesize Bimetallic Nanostructures Using the Alcohol Reduction Method. Inorganic Chemistry, 2021, 60, 14436-14445.	4.0	10
9	Macroscopic and Microscopic Structural Analyses of Needle-Shaped Condensed Phases in Magnetic Fluids under External Magnetic Fields. Journal of Physical Chemistry C, 2021, 125, 740-748.	3.1	4
10	One-pot hydrothermal synthesis of carbon dots-immobilized hydrozincite for ZnO-based nanocomposite lighting applications. Journal of Asian Ceramic Societies, 2021, 9, 1473-1480.	2.3	6
11	Magneto-Plasmonic Co@Pt@Au Nanocrystals for Biosensing and Therapeutics. ACS Applied Nano Materials, 2020, 3, 418-427.	5.0	15
12	Setting behaviour, mechanical properties and heat generation under alternate current magnetic fields of Fe₃O₄/TiO₂/PMMA composite bone cement. Medical Devices & Sensors, 2020, 3, e10114.	2.7	6
13	Structural control of magnetite nanoparticles for hyperthermia by modification with organic polymers: effect of molecular weight. RSC Advances, 2020, 10, 26374-26380.	3.6	4
14	Estimation of Magnetic Anisotropy of Individual Magnetite Nanoparticles for Magnetic Hyperthermia. ACS Nano, 2020, 14, 8421-8432.	14.6	63
15	Designed synthesis of highly catalytic Niâ€“Pt nanoparticles for fuel cell applications. SN Applied Sciences, 2019, 1, 1.	2.9	14
16	Preparation of magnetic Fe-Co alloy using texture controlled technique. Journal of Magnetism and Magnetic Materials, 2018, 465, 64-69.	2.3	4
17	Design of monoalcohol â€“ Copolymer system for high quality silver nanowires. Journal of Colloid and Interface Science, 2018, 527, 315-327.	9.4	10
18	In situ spectroscopic studies of the one-pot synthesis of composition-controlled Cuâ€“Ni nanowires with enhanced catalytic activity. New Journal of Chemistry, 2018, 42, 13044-13053.	2.8	13

#	Article	IF	Citations
19	Large-Scale Cu Nanowire Synthesis by PVP-Ethylene Glycol Route. Journal of Nanomaterials, 2018, 2018, 1-10.	2.7	239
20	One-dimensional plasmonic hotspots located between silver nanowire dimers evaluated by surface-enhanced resonance Raman scattering. Physical Review B, 2017, 95, .	3.2	43
21	Fabrication and photovoltaic properties of ZnO nanorods/perovskite solar cells. AIP Conference Proceedings, 2016, , .	0.4	4
22	Towards a designed synthesis of metallic nanoparticles in polyols â€“ elucidation of the redox scheme in a cobaltâ€“ethylene glycol system. New Journal of Chemistry, 2016, 40, 8632-8642.	2.8	35
23	Large-scale synthesis of ITO nanoparticles in an alcohol system assisted by acids. New Journal of Chemistry, 2014, 38, 3421-3428.	2.8	10
24	Size-controlled monodispersed nickel nanocrystals using 2-octanol as reducing agent. CrystEngComm, 2013, 15, 729-737.	2.6	22
25	Synthesis and characterization of magnetite nanoparticles modified with PEG-based amphiphilic copolymers. Materials Research Society Symposia Proceedings, 2012, 1386, 1.	0.1	0
26	Synthesis of Ni Carbide Nanoparticles with Ni₃C-Type Structure in Polyol Solution Containing Dispersant. Materials Transactions, 2012, 53, 1716-1720.	1.2	22
27	Synthesis of copper nanoparticles by polyol/alcohol reduction method. Materials Research Society Symposia Proceedings, 2012, 1400, 60.	0.1	1
28	Novel standing Niâ€“Pt alloy nanocubes. CrystEngComm, 2011, 13, 3364.	2.6	26
29	Copper nanoparticles synthesized by hydroxyl ion assisted alcohol reduction for conducting ink. Journal of Materials Chemistry, 2011, 21, 7062.	6.7	73
30	Structure and photovoltaic activity of cupric oxide-based thin film solar cells. Journal of the Ceramic Society of Japan, 2010, 118, 1021-1023.	1.1	27
31	Present status and prospects of magnetite nanoparticles-based hyperthermia. Journal of the Ceramic Society of Japan, 2010, 118, 391-401.	1.1	93
32	Heat dissipation mechanism of magnetite nanoparticles in magnetic fluid hyperthermia. Journal of Magnetism and Magnetic Materials, 2009, 321, 1493-1496.	2.3	165