Dinesh Rangappa

List of Publications by Year
in descending order

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94 papers	2,879 citations	257450 24 h-index	182427 51 g-index
100 all docs	100 docs citations	100 times ranked	4042 citing authors

#	Article	IF	Citations
1	Copper zinc tin sulfide and multi-walled carbon nanotubes nanocomposite for visible-light-driven photocatalytic applications. Materials Research Bulletin, 2022, 146, 111606.	5.2	19
2	Cocatalyst free nickel sulphide nanostructure for enhanced photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2022, 47, 5307-5318.	7.1	16
3	Realization of Anomalous Microwave Absorption Characteristics of PVB-PEDOT:PSS With Electromagnetic Data-Driven Discovery. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 178-184.	2.9	12
4	An Experimental Analysis of Silk Cocoon Layer-PANI Polymer Composite as Electrode for Thermoelectric Generator Application. Asian Journal of Chemistry, 2022, 34, 1021-1026.	0.3	0
5	One-Pot Super Critical Fluid Synthesis of Spinel MnFe2O4 Nanoparticles and its Application as Anode Material for Mg-ion Battery. Asian Journal of Chemistry, 2022, 34, 989-994.	0.3	1
6	Exfoliation of MoS2-RGO Hybrid 2D Sheets by Supercritical Fluid Process. Asian Journal of Chemistry, 2022, 34, 1009-1014.	0.3	1
7	Design and Study of Silk Cocoon-ZnO Micro-Nanocomposite based Gas Sensor for Detection of Flammable Gas at Room Temperature. Asian Journal of Chemistry, 2022, 34, 1291-1296.	0.3	1
8	In-situ preparation of silk-cocoon derived carbon and LiFePO4 nanocomposite as cathode material for Li-ion battery. Ceramics International, 2022, 48, 35657-35665.	4.8	8
9	Cu(II) immobilized on guanidine functionalized Fe3O4 magnetic substrate as a heterogeneous catalyst for selective reduction of nitroarenes. Journal of the Iranian Chemical Society, 2022, 19, 3697-3709.	2.2	2
10	Silk Fiber Multiwalled Carbon Nanotube-Based Micro-/Nanofiber Composite as a Conductive Fiber and a Force Sensor. ACS Omega, 2022, 7, 20809-20818.	3.5	2
11	Synthesis of Caffeic Acid Derivatives: Identification of (E)-N-(4-Cyanobenzyl)-3-(3,4-dihydroxyphenyl)acrylamide as an Anticancer Agent against Human Cervical Cancer Cells. Asian Journal of Chemistry, 2022, 34, 2183-2190.	0.3	1
12	Significantly enhanced cocatalyst-free H2 evolution from defect-engineered Brown TiO2. Ceramics International, 2021, 47, 14821-14828.	4.8	20
13	Enhanced photoluminescence of SiO2 coated CaTiO3:Dy3+,Li+ nanophosphors for white light emitting diodes. Ceramics International, 2021, 47, 10346-10354.	4.8	23
14	Silver nanoparticles anchored TiO2 nanotubes prepared using saponin extract as heterogeneous and recyclable catalysts for reduction of dyes. Ceramics International, 2021, 47, 14750-14759.	4.8	18
15	Carbon-based TiO2-x heterostructure nanocomposites for enhanced photocatalytic degradation of dye molecules. Ceramics International, 2021, 47, 10314-10321.	4.8	27
16	One-pot supercritical water synthesis of Bi2MoO6-RGO 2D heterostructure as anodes for Li-ion batteries. Ceramics International, 2021, 47, 10274-10283.	4.8	15
17	Reduced graphene oxide wrapped sulfur nanocomposite as cathode material for lithium sulfur battery. Ceramics International, 2021, 47, 14790-14797.	4.8	21
18	Magnetic photocatalytic systems. , 2021, , 503-536.		3

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19	Phytofabrication of cupric oxide nanoparticles using Simarouba glauca and Celastrus paniculatus extracts and their enhanced apoptotic inducing and anticancer effects. Applied Nanoscience (Switzerland), 2021, 11, 1393-1409.	3.1	10
20	Bismuth oxycarbonate Nanoplates@Î±-Ni(OH)2 nanosheets 2D plate-on-sheet heterostructure as electrode for high-performance supercapacitor. Journal of Alloys and Compounds, 2021, 860, 158495.	5.5	13
21	Silver nanoparticles synthesized using saponin extract of Simarouba glauca oil seed meal as effective, recoverable and reusable catalyst for reduction of organic dyes. Results in Surfaces and Interfaces, 2021, 3, 100005.	2.4	22
22	Utilizing 2D materials to enhance H2 generation efficiency via photocatalytic reforming industrial and solid waste. Environmental Research, 2021, 200, 111239.	7.5	9
23	Antioxidant, antiproliferative and antihemolytic properties of phytofabricated silver nanoparticles using Simarouba glauca and Celastrus paniculatus extracts. Applied Nanoscience (Switzerland), 2021, 11, 2561-2576.	3.1	11
24	Pd^{II} on Guanidine-Functionalized Fe₃O₄ Nanoparticles as an Efficient Heterogeneous Catalyst for Suzukiâ€“Miyaura Cross-Coupling and Reduction of Nitroarenes in Aqueous Media. ACS Omega, 2021, 6, 34416-34428.	3.5	25
25	Enhanced Sunlight driven photocatalytic performance and visualization of latent fingerprint by green mediated ZnFe2O4â€“RGO nanocomposite. Arabian Journal of Chemistry, 2020, 13, 1449-1465.	4.9	20
26	Defect-rich exfoliated MoSe2 nanosheets by supercritical fluid process as an attractive catalyst for hydrogen evolution in water. Applied Surface Science, 2020, 505, 144537.	6.1	19
27	Magnetic Eu-doped MgFe2O4 nanomaterials: An investigation of their structural, optical and enhanced visible-light-driven photocatalytic performance. Environmental Nanotechnology, Monitoring and Management, 2020, 13, 100268.	2.9	9
28	Study of Green and Chemical Methods for Synthesis of Nano Spinel MgFe2O4 and its Study on Degradation of Rose Bengal Dye. Asian Journal of Chemistry, 2020, 32, 501-507.	0.3	0
29	Synthesis, characterization, and dye-sensitized solar cell fabrication using potato starchâ€“ and potato starch nanocrystalâ€“based gel electrolytes. Ionics, 2019, 25, 6035-6042.	2.4	15
30	Hydrothermally synthesized Bi2MoO6/Reduced Graphene Oxide composite as anodes for lithium-ion batteries. Ceramics International, 2019, 45, 24965-24970.	4.8	19
31	Double doping effect on ferroelectric and leakage current behavior of Pb(Zr0.52Ti0.48)O3 thin film. Ceramics International, 2019, 45, 25027-25033.	4.8	12
32	Fabrication of MgFe2O4-ZnO Nanocomposites for Photocatalysis of Organic Pollutants under Solar Light Radiation. Asian Journal of Chemistry, 2019, 31, 2995-3003.	0.3	2
33	Sunlight photocatalytic performance of Mg-doped nickel ferrite synthesized by a green sol-gel route. Journal of Science: Advanced Materials and Devices, 2019, 4, 89-100.	3.1	24
34	Hydrothermal Synthesis and Electrochemical Properties of CoS₂â€“Reduced Graphene Oxide Nanocomposite for Supercapacitor Application. International Journal of Nanoscience, 2018, 17, 1760020.	0.7	18
35	Comparison Study of Solgel and Combustion Method for Synthesis Nano Spinel MgFe2O4 and its Influence on Electrochemical Activity. Materials Today: Proceedings, 2018, 5, 22362-22367.	1.8	13
36	Optimization of TiO2/MWCNT composites for efficient dye sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2018, 29, 12681-12689.	2.2	8

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37	Solidified inorganic-organic hybrid electrolyte for all solid state flexible lithium battery. Journal of Power Sources, 2017, 343, 22-29.	7.8	32
38	Electrochemical heavy metal detection, photocatalytic, photoluminescence, biodiesel production and antibacterial activities of Agâ€“ZnO nanomaterial. Materials Research Bulletin, 2017, 94, 54-63.	5.2	310
39	Effect of Eu3+ doping on curie temperature and fatigue properties of Pb,La(ZrTi)O3 films. Thin Solid Films, 2017, 642, 136-141.	1.8	5
40	Designing MgFe2O4 decorated on green mediated reduced graphene oxide sheets showing photocatalytic performance and luminescence property. Physica B: Condensed Matter, 2017, 507, 67-75.	2.7	30
41	Photocatalytic Activity of ZnO Nanoparticles: Synthesis via Solution Combustion Method. Materials Today: Proceedings, 2017, 4, 11700-11705.	1.8	50
42	Photocatalytic study for fabricated Ag doped and undoped MgFe 2 O 4 nanoparticles. Materials Today: Proceedings, 2017, 4, 11764-11772.	1.8	15
43	A comparative study on CuFe 2 O 4 , ZnFe 2 O 4 and NiFe 2 O 4 : Morphology, Impedance and Photocatalytic studies. Materials Today: Proceedings, 2017, 4, 11806-11815.	1.8	78
44	Co, N-Doped TiO 2 Coated r-GO as a photo catalyst for Enhanced photo catalytic Activity. Materials Today: Proceedings, 2017, 4, 11873-11881.	1.8	8
45	Facile Synthesis and Characterization of MnO 2 /Graphene/Multi Walled Carbon Nanotube Nanostructured Ternary Composite: An Advance Material for Environmental and Biological Applications. Materials Today: Proceedings, 2017, 4, 11915-11922.	1.8	8
46	Synthesis and characterization of silver nanoparticles from Penicillium sps.. Materials Today: Proceedings, 2017, 4, 11923-11932.	1.8	22
47	Effect of nano-alumina on workability, compressive strength and residual strength at elevated temperature of Cement Mortar. Materials Today: Proceedings, 2017, 4, 12152-12156.	1.8	38
48	Investigation of nano-alumina on the effect of durability and micro-structural properties of the cement mortar. Materials Today: Proceedings, 2017, 4, 12191-12197.	1.8	26
49	Synthesis of Novel La 0.7 Ce 0.2 Sr 0.1 Fe 0.5 Mn 0.4 Co 0.1 O 3 (LCSFMCO) Perovskite Nanoparticles and Characterization for Structural, Electrochemical Properties. Materials Today: Proceedings, 2017, 4, 12198-12204.	1.8	2
50	Spray drying assisted Combustion synthesis of LiNi 0.45 Mn 1.45 Co 0.1 O 4 /Graphene nanocomposite and its electrochemical properties. Materials Today: Proceedings, 2017, 4, 12223-12228.	1.8	1
51	Synthesis and Fabrication of Flexible Solid State Asymmetric Super capacitor. Materials Today: Proceedings, 2017, 4, 12229-12237.	1.8	3
52	Novel Rice Starch based aqueous gel electrolyte for Dye Sensitized Solar Cell Application. Materials Today: Proceedings, 2017, 4, 12238-12244.	1.8	16
53	Preparation of Reduced Graphene Oxide and Its Antibacterial Properties. Materials Today: Proceedings, 2017, 4, 12300-12305.	1.8	21
54	Magnetic substrate supported ZnO-CuO nanocomposite as reusable photo catalyst for the degradation of organic dye. Materials Today: Proceedings, 2017, 4, 12314-12320.	1.8	14

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55	Synthesis and Characterization of Activated Carbon Coated Alumina as Nano Adsorbent. Materials Today: Proceedings, 2017, 4, 12321-12327.	1.8	3
56	Synthesis and Characterization of Î±-MoO 3 /RGO Composite as Anode Material for Li-Ion Batteries Using Spray Drying Combustion. Materials Today: Proceedings, 2017, 4, 12328-12332.	1.8	10
57	Low reflectance sputtered vanadium oxide thin films on silicon. Infrared Physics and Technology, 2016, 77, 35-39.	2.9	5
58	H2S detection using low-cost SnO2 nano-particle Bi-layer OFETs. Sensors and Actuators B: Chemical, 2016, 235, 378-385.	7.8	26
59	Evaluation of nanoalumina coated germanium black polyimide membrane as sunshield for application on the communication satellite antenna. Ceramics International, 2016, 42, 2589-2598.	4.8	7
60	A study on degradation of germanium coating on Kapton used for spacecraft sunshield application. Surface and Interface Analysis, 2015, 47, 1155-1160.	1.8	13
61	Study of the structural, thermal, optical, electrical and nanomechanical properties of sputtered vanadium oxide smart thin films. RSC Advances, 2015, 5, 35737-35745.	3.6	35
62	Optical constants of pulsed RF magnetron sputtered nanocolumner V2O5 coating. Physica B: Condensed Matter, 2015, 478, 161-166.	2.7	14
63	Optical and RF transparent protective alumina thin films. Journal of Materials Science: Materials in Electronics, 2015, 26, 9707-9716.	2.2	10
64	Efficient reduced graphene oxide grafted porous Fe3O4 composite as a high performance anode material for Li-ion batteries. Physical Chemistry Chemical Physics, 2014, 16, 5284.	2.8	128
65	Inhomogeneous magnetic phase in Coâ€“Alâ€“O spinel nanocrystals. Journal of Magnetism and Magnetic Materials, 2014, 350, 161-166.	2.3	3
66	Preparation of LiMn₂O₄ Graphene Hybrid Nanostructure by Combustion Synthesis and Their Electrochemical Properties. AIMS Materials Science, 2014, 1, 174-183.	1.4	4
67	Urea and sucrose assisted combustion synthesis of LiFePO4/C nano-powder for lithium-ion battery cathode application. AIMS Materials Science, 2014, 1, 191-201.	1.4	8
68	Superhydrophilic Graphene-Loaded TiO₂ Thin Film for Self-Cleaning Applications. ACS Applied Materials & Interfaces, 2013, 5, 207-212.	8.0	210
69	Preparation of aqueous dispersible styreneâ€“maleic amide encapsulated CoAl2O4 nanocrystals using supercritical water flow type apparatus. Materials Research Innovations, 2012, 16, 30-37.	2.3	2
70	Controlled synthesis of plate-like LiCoPO4 nanoparticles via supercritical method and their electrode property. Electrochimica Acta, 2012, 85, 548-553.	5.2	43
71	Controlled synthesis of nanocrystalline Li2MnSiO4 particles for high capacity cathode application in lithium-ion batteries. Chemical Communications, 2012, 48, 2698.	4.1	102
72	Ultrathin Nanosheets of Li₂MSiO₄ (M = Fe, Mn) as High-Capacity Li-Ion Battery Electrode. Nano Letters, 2012, 12, 1146-1151.	9.1	323

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73	Nanographene derived from carbon nanofiber and its application to electric double-layer capacitors. Electrochimica Acta, 2012, 68, 146-152.	5.2	24
74	Direct preparation of 1-PSA modified graphenenanosheets by supercritical fluidic exfoliation and its electrochemical properties. Journal of Materials Chemistry, 2011, 21, 3462-3466.	6.7	79
75	Low-Temperature Direct Conversion of Cuâ€“In Films to CuInSe2 via Selenization Reaction in Supercritical Fluid. ACS Applied Materials & Interfaces, 2011, 3, 3268-3271.	8.0	5
76	Size and shape controlled LiMnPO4 nanocrystals by a supercritical ethanol process and their electrochemical properties. Journal of Materials Chemistry, 2011, 21, 15813.	6.7	74
77	Supercritical Fluid Processing of Graphene and Graphene Oxide. , 2011, , .		3
78	Designing Nanocrystal Electrodes by Supercritical Fluid Process and Their Electrochemical Properties. , 2011, , .		0
79	Quantification of ultra-trace molybdenum using 4-amino-5-hydroxynaphthalene-2,7-disulfonic acid monosodium salt as a chromogenic probe. Analytical Biochemistry, 2011, 411, 300-302.	2.4	2
80	Rapid and Direct Conversion of Graphite Crystals into Highâ€Yielding, Goodâ€Quality Graphene by Supercritical Fluid Exfoliation. Chemistry - A European Journal, 2010, 16, 6488-6494.	3.3	167
81	Directed growth of nanoarchitectured LiFePO4 electrode by solvothermal synthesis and their cathode properties. Journal of Power Sources, 2010, 195, 6167-6171.	7.8	68
82	Development and kinetic validation of an assay for the quantitative determination of peroxidase: Application in the detection of activity in crude plant tissues. Enzyme and Microbial Technology, 2010, 47, 243-248.	3.2	7
83	Preparation of Ba-Hexaferrite Nanocrystals by an Organic Ligand-Assisted Supercritical Water Process. Crystal Growth and Design, 2010, 10, 11-15.	3.0	26
84	Rapid one-pot synthesis of LiMPO4 (M = Fe, Mn) colloidal nanocrystals by supercritical ethanol process. Chemical Communications, 2010, 46, 7548.	4.1	63
85	Facile Hydrothermal Synthesis, Field Emission and Electrochemical Properties of V₂O₅ and <I>Î²</I>-AgVO₃ Nanobelts. Science of Advanced Materials, 2010, 2, 407-412.	0.7	9
86	Surface modified LiFePO4/C nanocrystals synthesis by organic molecules assisted supercritical water process. Journal of Power Sources, 2009, 194, 1036-1042.	7.8	33
87	Synthesis, characterization and organic modification of copper manganese oxide nanocrystals under supercritical water. Journal of Supercritical Fluids, 2008, 44, 441-445.	3.2	38
88	Preparation of Ba1â^'xSrxWO4 and Ba1â^'xCaxWO4 films on tungsten plate by mechanically assisted solution reaction at room temperature. Materials Chemistry and Physics, 2008, 109, 217-223.	4.0	8
89	Fabrication of AMoO4 (A=Ba, Sr) film on Mo substrate by solution reaction assisted ball-rotation. Materials Research Bulletin, 2008, 43, 3155-3163.	5.2	10
90	Synthesis and organic modification of CoAl2O4 nanocrystals under supercritical water conditions. Journal of Materials Chemistry, 2007, 17, 4426.	6.7	53

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91	Transparent CoAl₂O₄ Hybrid Nano Pigment by Organic Ligand-Assisted Supercritical Water. Journal of the American Chemical Society, 2007, 129, 11061-11066.	13.7	102
92	Fabrication of AMO4 (A = Ba, Sr, Ca M = Mo, W) films on M substrate by solution reaction assisted ball rotation. Journal of Electroceramics, 2006, 17, 853-860.	2.0	10
93	Synthesis of highly crystallized BaWO4 film by chemical reaction method at room temperature. Solid State Sciences, 2006, 8, 1074-1078.	3.2	22
94	Silk cocoon derived carbon and sulfur nanosheets as cathode material for Li-S battery application. Emergent Materials, 0, , 1.	5.7	5