

Dinesh Rangappa

List of Publications by Year in descending order

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94
papers

2,879
citations

257450

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182427

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100
all docs

100
docs citations

100
times ranked

4042
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrathin Nanosheets of Li_2MSiO_4 (M = Fe, Mn) as High-Capacity Li-Ion Battery Electrode. <i>Nano Letters</i> , 2012, 12, 1146-1151.	9.1	323
2	Electrochemical heavy metal detection, photocatalytic, photoluminescence, biodiesel production and antibacterial activities of $\text{Ag}@\text{ZnO}$ nanomaterial. <i>Materials Research Bulletin</i> , 2017, 94, 54-63.	5.2	310
3	Superhydrophilic Graphene-Loaded TiO_2 Thin Film for Self-Cleaning Applications. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 207-212.	8.0	210
4	Rapid and Direct Conversion of Graphite Crystals into High-Yielding, Good-Quality Graphene by Supercritical Fluid Exfoliation. <i>Chemistry - A European Journal</i> , 2010, 16, 6488-6494.	3.3	167
5	Efficient reduced graphene oxide grafted porous Fe_3O_4 composite as a high performance anode material for Li-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5284.	2.8	128
6	Transparent CoAl_2O_4 Hybrid Nano Pigment by Organic Ligand-Assisted Supercritical Water. <i>Journal of the American Chemical Society</i> , 2007, 129, 11061-11066.	13.7	102
7	Controlled synthesis of nanocrystalline $\text{Li}_2\text{MnSiO}_4$ particles for high capacity cathode application in lithium-ion batteries. <i>Chemical Communications</i> , 2012, 48, 2698.	4.1	102
8	Direct preparation of 1-PSA modified graphenenanosheets by supercritical fluidic exfoliation and its electrochemical properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 3462-3466.	6.7	79
9	A comparative study on CuFe_2O_4 , ZnFe_2O_4 and NiFe_2O_4 : Morphology, Impedance and Photocatalytic studies. <i>Materials Today: Proceedings</i> , 2017, 4, 11806-11815.	1.8	78
10	Size and shape controlled LiMnPO_4 nanocrystals by a supercritical ethanol process and their electrochemical properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 15813.	6.7	74
11	Directed growth of nanoarchitected LiFePO_4 electrode by solvothermal synthesis and their cathode properties. <i>Journal of Power Sources</i> , 2010, 195, 6167-6171.	7.8	68
12	Rapid one-pot synthesis of LiMPO_4 (M = Fe, Mn) colloidal nanocrystals by supercritical ethanol process. <i>Chemical Communications</i> , 2010, 46, 7548.	4.1	63
13	Synthesis and organic modification of CoAl_2O_4 nanocrystals under supercritical water conditions. <i>Journal of Materials Chemistry</i> , 2007, 17, 4426.	6.7	53
14	Photocatalytic Activity of ZnO Nanoparticles: Synthesis via Solution Combustion Method. <i>Materials Today: Proceedings</i> , 2017, 4, 11700-11705.	1.8	50
15	Controlled synthesis of plate-like LiCoPO_4 nanoparticles via supercritical method and their electrode property. <i>Electrochimica Acta</i> , 2012, 85, 548-553.	5.2	43
16	Synthesis, characterization and organic modification of copper manganese oxide nanocrystals under supercritical water. <i>Journal of Supercritical Fluids</i> , 2008, 44, 441-445.	3.2	38
17	Effect of nano-alumina on workability, compressive strength and residual strength at elevated temperature of Cement Mortar. <i>Materials Today: Proceedings</i> , 2017, 4, 12152-12156.	1.8	38
18	Study of the structural, thermal, optical, electrical and nanomechanical properties of sputtered vanadium oxide smart thin films. <i>RSC Advances</i> , 2015, 5, 35737-35745.	3.6	35

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19	Surface modified LiFePO ₄ /C nanocrystals synthesis by organic molecules assisted supercritical water process. Journal of Power Sources, 2009, 194, 1036-1042.	7.8	33
20	Solidified inorganic-organic hybrid electrolyte for all solid state flexible lithium battery. Journal of Power Sources, 2017, 343, 22-29.	7.8	32
21	Designing MgFe ₂ O ₄ 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
22	Carbon-based TiO ₂ -x heterostructure nanocomposites for enhanced photocatalytic degradation of dye molecules. Ceramics International, 2021, 47, 10314-10321.	4.8	27
23	Preparation of Ba-Hexaferrite Nanocrystals by an Organic Ligand-Assisted Supercritical Water Process. Crystal Growth and Design, 2010, 10, 11-15.	3.0	26
24	H ₂ S detection using low-cost SnO ₂ nano-particle Bi-layer OFETs. Sensors and Actuators B: Chemical, 2016, 235, 378-385.	7.8	26
25	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
26	Pd ^{II} on Guanidine-Functionalized Fe ₃ O ₄ Nanoparticles as an Efficient Heterogeneous Catalyst for Suzuki-Miyaura Cross-Coupling and Reduction of Nitroarenes in Aqueous Media. ACS Omega, 2021, 6, 34416-34428.	3.5	25
27	Nanographene derived from carbon nanofiber and its application to electric double-layer capacitors. Electrochimica Acta, 2012, 68, 146-152.	5.2	24
28	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
29	Enhanced photoluminescence of SiO ₂ coated CaTiO ₃ :Dy ³⁺ ,Li ⁺ nanophosphors for white light emitting diodes. Ceramics International, 2021, 47, 10346-10354.	4.8	23
30	Synthesis of highly crystallized BaWO ₄ film by chemical reaction method at room temperature. Solid State Sciences, 2006, 8, 1074-1078.	3.2	22
31	Synthesis and characterization of silver nanoparticles from Penicillium sps.. Materials Today: Proceedings, 2017, 4, 11923-11932.	1.8	22
32	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
33	Preparation of Reduced Graphene Oxide and Its Antibacterial Properties. Materials Today: Proceedings, 2017, 4, 12300-12305.	1.8	21
34	Reduced graphene oxide wrapped sulfur nanocomposite as cathode material for lithium sulfur battery. Ceramics International, 2021, 47, 14790-14797.	4.8	21
35	Enhanced Sunlight driven photocatalytic performance and visualization of latent fingerprint by green mediated ZnFe ₂ O ₄ @RGO nanocomposite. Arabian Journal of Chemistry, 2020, 13, 1449-1465.	4.9	20
36	Significantly enhanced cocatalyst-free H ₂ evolution from defect-engineered Brown TiO ₂ . Ceramics International, 2021, 47, 14821-14828.	4.8	20

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37	Hydrothermally synthesized Bi ₂ MoO ₆ /Reduced Graphene Oxide composite as anodes for lithium-ion batteries. <i>Ceramics International</i> , 2019, 45, 24965-24970.	4.8	19
38	Defect-rich exfoliated MoSe ₂ nanosheets by supercritical fluid process as an attractive catalyst for hydrogen evolution in water. <i>Applied Surface Science</i> , 2020, 505, 144537.	6.1	19
39	Copper zinc tin sulfide and multi-walled carbon nanotubes nanocomposite for visible-light-driven photocatalytic applications. <i>Materials Research Bulletin</i> , 2022, 146, 111606.	5.2	19
40	Hydrothermal Synthesis and Electrochemical Properties of CoS ₂ â€“Reduced Graphene Oxide Nanocomposite for Supercapacitor Application. <i>International Journal of Nanoscience</i> , 2018, 17, 1760020.	0.7	18
41	Silver nanoparticles anchored TiO ₂ nanotubes prepared using saponin extract as heterogeneous and recyclable catalysts for reduction of dyes. <i>Ceramics International</i> , 2021, 47, 14750-14759.	4.8	18
42	Novel Rice Starch based aqueous gel electrolyte for Dye Sensitized Solar Cell Application. <i>Materials Today: Proceedings</i> , 2017, 4, 12238-12244.	1.8	16
43	Cocatalyst free nickel sulphide nanostructure for enhanced photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 5307-5318.	7.1	16
44	Photocatalytic study for fabricated Ag doped and undoped MgFe ₂ O ₄ nanoparticles. <i>Materials Today: Proceedings</i> , 2017, 4, 11764-11772.	1.8	15
45	Synthesis, characterization, and dye-sensitized solar cell fabrication using potato starchâ€“ and potato starch nanocrystalâ€“based gel electrolytes. <i>Ionics</i> , 2019, 25, 6035-6042.	2.4	15
46	One-pot supercritical water synthesis of Bi ₂ MoO ₆ -RGO 2D heterostructure as anodes for Li-ion batteries. <i>Ceramics International</i> , 2021, 47, 10274-10283.	4.8	15
47	Optical constants of pulsed RF magnetron sputtered nanocolumnar V ₂ O ₅ coating. <i>Physica B: Condensed Matter</i> , 2015, 478, 161-166.	2.7	14
48	Magnetic substrate supported ZnO-CuO nanocomposite as reusable photo catalyst for the degradation of organic dye. <i>Materials Today: Proceedings</i> , 2017, 4, 12314-12320.	1.8	14
49	A study on degradation of germanium coating on Kapton used for spacecraft sunshield application. <i>Surface and Interface Analysis</i> , 2015, 47, 1155-1160.	1.8	13
50	Comparison Study of Solgel and Combustion Method for Synthesis Nano Spinel MgFe ₂ O ₄ and its Influence on Electrochemical Activity. <i>Materials Today: Proceedings</i> , 2018, 5, 22362-22367.	1.8	13
51	Bismuth oxycarbonate Nanoplates@Ni(OH) ₂ nanosheets 2D plate-on-sheet heterostructure as electrode for high-performance supercapacitor. <i>Journal of Alloys and Compounds</i> , 2021, 860, 158495.	5.5	13
52	Double doping effect on ferroelectric and leakage current behavior of Pb(Zr _{0.52} Ti _{0.48})O ₃ thin film. <i>Ceramics International</i> , 2019, 45, 25027-25033.	4.8	12
53	Realization of Anomalous Microwave Absorption Characteristics of PVB-PEDOT:PSS With Electromagnetic Data-Driven Discovery. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2022, 29, 178-184.	2.9	12
54	Antioxidant, antiproliferative and antihemolytic properties of phytofabricated silver nanoparticles using Simarouba glauca and Celastrus paniculatus extracts. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 2561-2576.	3.1	11

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55	Fabrication of AMO ₄ (A = Ba, Sr, Ca M = Mo, W) films on M substrate by solution reaction assisted ball rotation. <i>Journal of Electroceramics</i> , 2006, 17, 853-860.	2.0	10
56	Fabrication of AMoO ₄ (A=Ba, Sr) film on Mo substrate by solution reaction assisted ball-rotation. <i>Materials Research Bulletin</i> , 2008, 43, 3155-3163.	5.2	10
57	Optical and RF transparent protective alumina thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 9707-9716.	2.2	10
58	Synthesis and Characterization of $\hat{1}\pm$ -MoO ₃ /RGO Composite as Anode Material for Li-Ion Batteries Using Spray Drying Combustion. <i>Materials Today: Proceedings</i> , 2017, 4, 12328-12332.	1.8	10
59	Phytofabrication of cupric oxide nanoparticles using <i>Simarouba glauca</i> and <i>Celastrus paniculatus</i> extracts and their enhanced apoptotic inducing and anticancer effects. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 1393-1409.	3.1	10
60	Magnetic Eu-doped MgFe ₂ O ₄ nanomaterials: An investigation of their structural, optical and enhanced visible-light-driven photocatalytic performance. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2020, 13, 100268.	2.9	9
61	Utilizing 2D materials to enhance H ₂ generation efficiency via photocatalytic reforming industrial and solid waste. <i>Environmental Research</i> , 2021, 200, 111239.	7.5	9
62	Facile Hydrothermal Synthesis, Field Emission and Electrochemical Properties of V₂O₅ and I^2-AgVO₃ Nanobelts. <i>Science of Advanced Materials</i> , 2010, 2, 407-412.	0.7	9
63	Preparation of Ba $\hat{1}$ ^x Sr _x WO ₄ and Ba $\hat{1}$ ^x CaxWO ₄ films on tungsten plate by mechanically assisted solution reaction at room temperature. <i>Materials Chemistry and Physics</i> , 2008, 109, 217-223.	4.0	8
64	Co, N-Doped TiO ₂ Coated r-GO as a photo catalyst for Enhanced photo catalytic Activity. <i>Materials Today: Proceedings</i> , 2017, 4, 11873-11881.	1.8	8
65	Facile Synthesis and Characterization of MnO ₂ /Graphene/Multi Walled Carbon Nanotube Nanostructured Ternary Composite: An Advance Material for Environmental and Biological Applications. <i>Materials Today: Proceedings</i> , 2017, 4, 11915-11922.	1.8	8
66	Optimization of TiO ₂ /MWCNT composites for efficient dye sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 12681-12689.	2.2	8
67	Urea and sucrose assisted combustion synthesis of LiFePO ₄ /C nano-powder for lithium-ion battery cathode application. <i>AIMS Materials Science</i> , 2014, 1, 191-201.	1.4	8
68	In-situ preparation of silk-cocoon derived carbon and LiFePO ₄ nanocomposite as cathode material for Li-ion battery. <i>Ceramics International</i> , 2022, 48, 35657-35665.	4.8	8
69	Development and kinetic validation of an assay for the quantitative determination of peroxidase: Application in the detection of activity in crude plant tissues. <i>Enzyme and Microbial Technology</i> , 2010, 47, 243-248.	3.2	7
70	Evaluation of nanoalumina coated germanium black polyimide membrane as sunshield for application on the communication satellite antenna. <i>Ceramics International</i> , 2016, 42, 2589-2598.	4.8	7
71	Low-Temperature Direct Conversion of Cu $\hat{1}$ In Films to CuInSe ₂ via Selenization Reaction in Supercritical Fluid. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3268-3271.	8.0	5
72	Low reflectance sputtered vanadium oxide thin films on silicon. <i>Infrared Physics and Technology</i> , 2016, 77, 35-39.	2.9	5

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73	Effect of Eu ³⁺ doping on curie temperature and fatigue properties of Pb,La(ZrTi)O ₃ films. Thin Solid Films, 2017, 642, 136-141.	1.8	5
74	Silk cocoon derived carbon and sulfur nanosheets as cathode material for Li-S battery application. Emergent Materials, 0, , 1.	5.7	5
75	Preparation of LiMn ₂ O ₄ Graphene Hybrid Nanostructure by Combustion Synthesis and Their Electrochemical Properties. AIMS Materials Science, 2014, 1, 174-183.	1.4	4
76	Supercritical Fluid Processing of Graphene and Graphene Oxide. , 2011, , .		3
77	Inhomogeneous magnetic phase in Co ²⁺ Al ³⁺ O spinel nanocrystals. Journal of Magnetism and Magnetic Materials, 2014, 350, 161-166.	2.3	3
78	Synthesis and Fabrication of Flexible Solid State Asymmetric Super capacitor. Materials Today: Proceedings, 2017, 4, 12229-12237.	1.8	3
79	Synthesis and Characterization of Activated Carbon Coated Alumina as Nano Adsorbent. Materials Today: Proceedings, 2017, 4, 12321-12327.	1.8	3
80	Magnetic photocatalytic systems. , 2021, , 503-536.		3
81	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
82	Preparation of aqueous dispersible styrene ² maleic amide encapsulated CoAl ₂ O ₄ nanocrystals using supercritical water flow type apparatus. Materials Research Innovations, 2012, 16, 30-37.	2.3	2
83	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
84	Fabrication of MgFe ₂ O ₄ -ZnO Nanocomposites for Photocatalysis of Organic Pollutants under Solar Light Radiation. Asian Journal of Chemistry, 2019, 31, 2995-3003.	0.3	2
85	Cu(II) immobilized on guanidine functionalized Fe ₃ O ₄ magnetic substrate as a heterogeneous catalyst for selective reduction of nitroarenes. Journal of the Iranian Chemical Society, 2022, 19, 3697-3709.	2.2	2
86	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
87	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
88	One-Pot Super Critical Fluid Synthesis of Spinel MnFe ₂ O ₄ Nanoparticles and its Application as Anode Material for Mg-ion Battery. Asian Journal of Chemistry, 2022, 34, 989-994.	0.3	1
89	Exfoliation of MoS ₂ -RGO Hybrid 2D Sheets by Supercritical Fluid Process. Asian Journal of Chemistry, 2022, 34, 1009-1014.	0.3	1
90	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

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91	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
92	Designing Nanocrystal Electrodes by Supercritical Fluid Process and Their Electrochemical Properties. , 2011, , .		0
93	Study of Green and Chemical Methods for Synthesis of Nano Spinel MgFe ₂ O ₄ and its Study on Degradation of Rose Bengal Dye. Asian Journal of Chemistry, 2020, 32, 501-507.	0.3	0
94	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