

Anil V Ghule

List of Publications by Year in descending order

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97
papers

3,206
citations

147801

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182427

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all docs

98
docs citations

98
times ranked

4166
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and characterization of ZnO nanoparticles coated paper and its antibacterial activity study. <i>Green Chemistry</i> , 2006, 8, 1034.	9.0	354
2	Metal Precursor Dependent Synthesis of NiFe ₂ O ₄ Thin Films for High-Performance Flexible Symmetric Supercapacitor. <i>ACS Applied Energy Materials</i> , 2018, 1, 638-648.	5.1	112
3	Biomediated green synthesis of TiO ₂ nanoparticles for lithium ion battery application. <i>Composites Part B: Engineering</i> , 2016, 99, 297-304.	12.0	102
4	Low cost flexible 3-D aligned and cross-linked efficient ZnFe ₂ O ₄ nano-flakes electrode on stainless steel mesh for asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3504-3512.	10.3	97
5	Rapid fabrication of carbon quantum dots as multifunctional nanovehicles for dual-modal targeted imaging and chemotherapy. <i>Acta Biomaterialia</i> , 2016, 46, 151-164.	8.3	90
6	Bio-green synthesis of Ni-doped tin oxide nanoparticles and its influence on gas sensing properties. <i>RSC Advances</i> , 2015, 5, 72849-72856.	3.6	84
7	Thermo-Raman spectroscopic studies on polymorphism in Na ₂ SO ₄ . <i>Journal of Physics Condensed Matter</i> , 2000, 12, 677-700.	1.8	80
8	Anchoring Ultrafine ZnFe ₂ O ₄ /C Nanoparticles on 3D ZnFe ₂ O ₄ Nanoflakes for Boosting Cycle Stability and Energy Density of Flexible Asymmetric Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26016-26028.	8.0	72
9	In situ thermo-TOF-SIMS study of thermal decomposition of zinc acetate dihydrate. <i>Journal of Mass Spectrometry</i> , 2004, 39, 1202-1208.	1.6	70
10	Phase transformation studies of ceramic BaTiO ₃ using thermo-Raman and dielectric constant measurements. <i>Journal of Applied Physics</i> , 2002, 91, 10038.	2.5	68
11	Mechanochemical growth of a porous ZnFe ₂ O ₄ nano-flake thin film as an electrode for supercapacitor application. <i>RSC Advances</i> , 2015, 5, 45935-45942.	3.6	67
12	Contact angle measurements: a preliminary diagnostic tool for evaluating the performance of ZnFe ₂ O ₄ nano-flake based supercapacitors. <i>Chemical Communications</i> , 2016, 52, 2557-2560.	4.1	63
13	Simultaneous thermogravimetric analysis and in situ thermo-Raman spectroscopic investigation of thermal decomposition of zinc acetate dihydrate forming zinc oxide nanoparticles. <i>Chemical Physics Letters</i> , 2003, 381, 262-270.	2.6	62
14	Sonochemical deposition of silver nanoparticles on wool fibers. <i>Journal of Applied Polymer Science</i> , 2007, 104, 1732-1737.	2.6	60
15	Nanostructured N-doped orthorhombic Nb ₂ O ₅ as an efficient stable photocatalyst for hydrogen generation under visible light. <i>Dalton Transactions</i> , 2017, 46, 14859-14868.	3.3	60
16	Depositing silver nanoparticles on/in a glass slide by the sonochemical method. <i>Nanotechnology</i> , 2008, 19, 435604.	2.6	59
17	Reflux Condensation Mediated Deposition of Co ₃ O ₄ Nanosheets and ZnFe ₂ O ₄ Nanoflakes Electrodes for Flexible Asymmetric Supercapacitor. <i>Electrochimica Acta</i> , 2016, 222, 1604-1615.	5.2	53
18	Thermo-Raman investigations on structural transformations in hydrated MoO ₃ . <i>Journal of Materials Chemistry</i> , 2000, 10, 2157-2162.	6.7	47

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19	Microscale Size Triangular Gold Prisms Synthesized Using Bengal Gram Beans (<i>Cicer arietinum</i>) Tj ETQq1 1 Nanoscience and Nanotechnology, 2006, 6, 3746-3751.	0.784314 0.9	rgBT /Over 46
20	Biosynthesized Co-doped TiO ₂ nanoparticles based anode for lithium-ion battery application and investigating the influence of dopant concentrations on its performance. Composites Part B: Engineering, 2019, 167, 44-50.	12.0	45
21	Opening and thinning of multiwall carbon nanotubes in supercritical water. Chemical Physics Letters, 2002, 363, 583-590.	2.6	42
22	Direct aqueous synthesis of quantum dots for high-performance AgInSe ₂ quantum-dot-sensitized solar cell. Journal of Power Sources, 2017, 354, 100-107.	7.8	42
23	Overall noble metal free Ni and Fe doped Cu ₂ ZnSnS ₄ (CZTS) bifunctional electrocatalytic systems for enhanced water splitting reactions. International Journal of Hydrogen Energy, 2019, 44, 8144-8155.	7.1	40
24	Binder-free chemical synthesis of ZnFe ₂ O ₄ thin films for asymmetric supercapacitor with improved performance. Ionics, 2017, 23, 741-749.	2.4	39
25	CZTS Decorated on Graphene Oxide as an Efficient Electrocatalyst for High-Performance Hydrogen Evolution Reaction. ACS Omega, 2019, 4, 7650-7657.	3.5	38
26	Studies on thermal hysteresis of KNO ₃ by thermo-Raman spectroscopy. Thermochimica Acta, 2000, 346, 83-90.	2.7	36
27	Ultrasound-assisted green economic synthesis of hydroxyapatite nanoparticles using eggshell biowaste and study of mechanical and biological properties for orthopedic applications. Journal of Biomedical Materials Research - Part A, 2017, 105, 2935-2947.	4.0	36
28	In situ preparation of N doped orthorhombic Nb ₂ O ₅ nanoplates /rGO composites for photocatalytic hydrogen generation under sunlight. International Journal of Hydrogen Energy, 2018, 43, 19873-19884.	7.1	36
29	Bandgap engineering by substitution of S by Se in nanostructured ZnS _{1-x} Se _x thin films grown by soft chemical route for nontoxic optoelectronic device applications. Journal of Alloys and Compounds, 2011, 509, 5525-5531.	5.5	35
30	Mechanical Properties and Cytotoxicity of Differently Structured Nanocellulose-hydroxyapatite Based Composites for Bone Regeneration Application. Nanomaterials, 2020, 10, 25.	4.1	35
31	Low temperature LPG sensing properties of wet chemically grown zinc oxide nanoparticle thin film. Sensors and Actuators B: Chemical, 2010, 146, 69-74.	7.8	34
32	CuCo ₂ O ₄ Nanorods Coated with CuO Nanoneedles for Supercapacitor Applications. ACS Applied Nano Materials, 2021, 4, 12702-12711.	5.0	34
33	Enhanced electrocatalytic hydrogen generation from water <i>via</i> cobalt-doped Cu ₂ ZnSnS ₄ nanoparticles. RSC Advances, 2018, 8, 20341-20346.	3.6	33
34	Palladium Catalyzed Transformation of Acyclic Units to Furans. Current Organic Chemistry, 2002, 6, 841-864.	1.6	32
35	Comparative Study of Individual and Mixed Aqueous Electrolytes with ZnFe ₂ O ₄ Nano-flakes Thin Film as an Electrode for Supercapacitor Application. ChemistrySelect, 2016, 1, 959-966.	1.5	32
36	Enhanced Hydrogen Evolution Reactions on Nanostructured Cu ₂ ZnSnS ₄ (CZTS) Electrocatalyst. Applied Surface Science, 2017, 412, 475-481.	6.1	31

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37	Thermo-Raman Studies on NaH ₂ PO ₄ ·2H ₂ O for Dehydration, Condensation, and Phase Transformation. <i>Inorganic Chemistry</i> , 2001, 40, 5917-5923.	4.0	30
38	In situ monitoring of NiO·Al ₂ O ₃ nanoparticles synthesis by thermo-Raman spectroscopy. <i>Materials Chemistry and Physics</i> , 2010, 119, 86-92.	4.0	30
39	Raman studies on ferroelectric phase (phase III) of KNO ₃ . <i>Journal of Applied Physics</i> , 1999, 86, 6779-6788.	2.5	29
40	Pyridine intercalative sonochemical synthesis and characterization of \pm -Bi ₂ Mo ₃ O ₁₂ phase nanorods. <i>Chemical Physics Letters</i> , 2004, 383, 208-213.	2.6	28
41	Band gap engineering by substitution of S by Se in nanostructured CdS _{1-x} Se _x thin films grown by soft chemical route for photosensor application. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 404-411.	4.0	28
42	Monitoring dehydration and condensation processes of Na ₂ HPO ₄ ·12H ₂ O using thermo-Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003, 59, 1529-1539.	3.9	27
43	Improved Electrochemical Performance of a ZnFe ₂ O ₄ Nanoflake-Based Supercapacitor Electrode by Using Thiocyanate-Functionalized Ionic Liquid Electrolytes. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5832-5838.	2.0	27
44	Facile synthesis of gold/gadolinium-doped carbon quantum dot nanocomposites for magnetic resonance imaging and photothermal ablation therapy. <i>Journal of Materials Chemistry B</i> , 2017, 5, 6282-6291.	5.8	26
45	Bismuth molybdate (\pm -Bi ₂ Mo ₃ O ₁₂) nanoplates via facile hydrothermal and its gas sensing study. <i>Journal of Solid State Chemistry</i> , 2020, 281, 121043.	2.9	26
46	Biomass-Mediated Synthesis of Cu-Doped TiO ₂ Nanoparticles for Improved-Performance Lithium-Ion Batteries. <i>ACS Omega</i> , 2018, 3, 13676-13684.	3.5	25
47	Marigold micro-flower like NiCo ₂ O ₄ grown on flexible stainless-steel mesh as an electrode for supercapacitors. <i>RSC Advances</i> , 2021, 11, 3666-3672.	3.6	25
48	Optimization of growth of ternary CuInS ₂ thin films by ionic reactions in alkaline chemical bath as n-type photoabsorber layer. <i>Materials Chemistry and Physics</i> , 2009, 116, 28-33.	4.0	23
49	Thermo-Raman spectroscopy in situ monitoring study of solid-state synthesis of NiO·Al ₂ O ₃ nanoparticles and its characterization. <i>Journal of Solid State Chemistry</i> , 2009, 182, 3406-3411.	2.9	23
50	NO ₂ sensing studies of bio-green synthesized Au-doped SnO ₂ . <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 13209-13216.	2.2	23
51	Structural analysis and dye-sensitized solar cell application of electrodeposited tin oxide nanoparticles. <i>Materials Letters</i> , 2012, 79, 29-31.	2.6	21
52	Effect of annealing on photovoltaic characteristics of nanostructured p-Cu ₂ S/n-CdS thin film. <i>Renewable Energy</i> , 2012, 38, 219-223.	8.9	21
53	Binder free 2D aligned efficient MnO ₂ micro flowers as stable electrodes for symmetric supercapacitor applications. <i>RSC Advances</i> , 2017, 7, 36886-36894.	3.6	21
54	On-line derivatization gas chromatography with furan chemical ionization tandem mass spectrometry for screening of amphetamines in urine. <i>Journal of Chromatography A</i> , 2006, 1137, 76-83.	3.7	20

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55	Effects of air annealing on CdS quantum dots thin film grown at room temperature by CBD technique intended for photosensor applications. <i>Materials Research Bulletin</i> , 2012, 47, 3440-3444.	5.2	19
56	In vitro Bioactivity and Osteogenic Activity Study of Solid State Synthesized Nano-Hydroxyapatite using Recycled Eggshell Bio-waste. <i>ChemistrySelect</i> , 2016, 1, 3901-3908.	1.5	19
57	Enhanced Overall Water-Splitting Performance: Oleylamine-Functionalized GO/Cu ₂ ZnSnS ₄ Composite as a Noble Metal-Free and Non-Precious Electrocatalyst. <i>ACS Omega</i> , 2019, 4, 18969-18977.	3.5	19
58	Synthesis and Monitoring of Bi ₂ Mo ₃ O ₁₂ Catalyst Formation using Thermo-Raman Spectroscopy. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 1753-1762.	2.0	18
59	A sensing behavior synergistic liquid-liquid extraction and spectrophotometric determination of nickel(II) by using 1-(2,4-dinitroaminophenyl)-4,4,6-trimethyl-1,4-dihydropyrimidine-2-thiol: Analysis of foundry and electroless nickel plating waste water. <i>Separation Science and Technology</i> , 2017, 52, 2238-2251.	2.5	18
60	Efficient quantum dot-sensitized solar cells through sulfur-rich carbon nitride modified electrolytes. <i>Nanoscale</i> , 2021, 13, 5730-5743.	5.6	18
61	Coupling of thermogravimetric analysis and thermo-Raman spectroscopy for in situ dynamic thermal analysis. <i>Thermochimica Acta</i> , 2001, 374, 45-49.	2.7	17
62	Synthesis of flower shaped ZnO thin films for resistive sensing of NO ₂ gas. <i>Mikrochimica Acta</i> , 2017, 184, 2455-2463.	5.0	17
63	Towards green, efficient and stable quantum-dot-sensitized solar cells through nature-inspired biopolymer modified electrolyte. <i>Electrochimica Acta</i> , 2021, 391, 138972.	5.2	17
64	Structure-engineering of core-shell ZnCo ₂ O ₄ @NiO composites for high-performance asymmetric supercapacitors. <i>Nanoscale Advances</i> , 2022, 4, 814-823.	4.6	17
65	A simple and rapid method for identifying the source of spilled oil using an electronic nose: confirmation by gas chromatography with mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 1873-1880.	1.5	16
66	Thermo-Raman studies on dehydration of Na ₃ PO ₄ ·12H ₂ O. <i>Thermochimica Acta</i> , 2001, 371, 127-135.	2.7	15
67	Binder-free synthesis of high-quality nanocrystalline ZnCo ₂ O ₄ thin film electrodes for supercapacitor application. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	1.7	15
68	Enhancement of LPG sensing properties in nanocrystalline zinc oxide thin film by high electronic excitation. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1050-1055.	7.8	14
69	Holey C@ZnFe ₂ O ₄ Nanoflakes by Carbon Soot Layer Blasting Approach for High Performance Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019, 2, 6693-6704.	5.1	14
70	Growth of nanocrystalline CuIn ₃ Se ₅ (OVC) thin films by ion exchange reactions at room temperature and their characterization as photo-absorbing layers. <i>Applied Surface Science</i> , 2009, 255, 8158-8163.	6.1	13
71	Nanostructured p-CuIn ₃ Se ₅ /n-CdS heterojunction engineered using simple wet chemical approach at room temperature for photovoltaic application. <i>Materials Chemistry and Physics</i> , 2011, 127, 191-196.	4.0	13
72	Stoichiometry controlled conversion efficiency in nanostructured heterojunction solar cell of CdS/CuIn ₃ Se ₅ grown by chemical ion exchange method at room temperature. <i>Solar Energy</i> , 2011, 85, 1316-1321.	6.1	13

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73	Annealing atmosphere dependant properties of biosynthesized TiO ₂ anode for lithium ion battery application. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 1472-1479.	2.2	13
74	Photosensitizer-conjugated Cu-In-S heterostructured nanorods for cancer targeted photothermal/photodynamic synergistic therapy. <i>Materials Science and Engineering C</i> , 2019, 97, 793-802.	7.3	13
75	Active Edge Site Exposed Ni(OH) ₂ Nanosheets on Stainless Steel Mesh as a Versatile Electrocatalyst for the Oxidation of Urea, Hydrazine, and Water. <i>ChemCatChem</i> , 2021, 13, 1165-1174.	3.7	13
76	CZTS/MoS ₂ -rGO Heterostructures: An efficient and highly stable electrocatalyst for enhanced hydrogen generation reactions. <i>Journal of Electroanalytical Chemistry</i> , 2021, 882, 114983.	3.8	13
77	Fe ₃ O ₄ @SiO ₂ -SO ₃ H-DABCO: A novel magnetically retrievable bifunctional catalyst for ecofriendly synthesis of diheteroarylmethanes. <i>Journal of Molecular Structure</i> , 2021, 1245, 130960.	3.6	12
78	Simple and rapid method for evaluating stickiness of cotton using thermogravimetric analysis. <i>Analytica Chimica Acta</i> , 2004, 502, 251-256.	5.4	11
79	Mesoporous cadmium bismuth niobate (CdBi ₂ Nb ₂ O ₉) nanospheres for hydrogen generation under visible light. <i>Journal of Energy Chemistry</i> , 2017, 26, 433-439.	12.9	11
80	Polyelectrolyte multilayer-assisted fabrication of p-Cu ₂ S/n-CdS heterostructured thin-film phototransistors. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8012-8017.	5.5	10
81	Room Temperature Ammonia Gas Sensing Properties of Biosynthesized tin Oxide Nanoparticle Thin Films. <i>Current Nanoscience</i> , 2015, 11, 253-260.	1.2	10
82	Hydroxy functionalized ionic liquids as promising electrolytes for supercapacitor study of Fe ₂ O ₃ thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 11738-11748.	2.2	9
83	Selective adduct formation by furan chemical ionization reagent in gas chromatography ion trap mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2003, 38, 401-408.	1.6	8
84	Synthesis and Characterization of Silver-Nanoparticle-Deposited Bi ₂ Mo ₃ O ₁₂ Nanorods. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 3342-3349.	2.0	8
85	3D Hierarchical heterostructures of Bi ₂ W ₁₀ Mo ₆ O ₆₆ with enhanced oxygen evolution reaction from water under natural sunlight. <i>New Journal of Chemistry</i> , 2018, 42, 17597-17605.	2.8	8
86	Investigating the Influence of Reflux Condensation Reaction Temperature on the Growth of FeCo ₂ O ₄ Thin Film for Flexible Supercapacitor. <i>ChemistrySelect</i> , 2021, 6, 1838-1844.	1.5	8
87	Mechanical Properties of Differently Nanostructured and High-Pressure Compressed Hydroxyapatite-Based Materials for Bone Tissue Regeneration. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1390.	2.0	8
88	Advancing the stability and efficiency of quantum dot-sensitized solar cells through a novel, green, and water-based thixotropic biopolymer/ordered nanopores silica designed quasi-solid-state gel electrolytes. <i>Chemical Engineering Journal</i> , 2022, 446, 137293.	12.7	8
89	Reflux temperature-dependent zinc cobaltite nanostructures for asymmetric supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 5859-5869.	2.2	7
90	Chemical ionization of substituted naphthalenes using tetrahydrofuran as a reagent in gas chromatography with ion trap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 811-815.	1.5	6

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91	A simple CdS nanoparticles cascading approach for boosting N3 dye/ZnO nanoplates DSSCs overall performance. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 217, 267-270.	3.9	6
92	Morphology and Dopant Influence Electrical Properties and Stability of Multiwalled Carbon Nanotube-Polyaniline Composites. <i>Current Nanoscience</i> , 2010, 6, 59-68.	1.2	4
93	Composition, Morphology, and Interface Engineering of 3D Cauliflower-Like Porous Carbon-Wrapped Metal Chalcogenides as Advanced Electrocatalysts for Quantum Dot-Sensitized Solar Cells. <i>Small</i> , 2022, 18, .	10.0	4
94	Synthesis, characterization, photo and physicochemical properties of 11-mercaptoundecanoic acid and tetraaniline capped CdS quantum dots. <i>Materials Chemistry and Physics</i> , 2010, 123, 742-746.	4.0	3
95	Hydrothermal synthesis of MnO ₂ thin film for supercapacitor application. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
96	Ultrasonically assisted intercalation of Ni in Al ₂ O ₃ thin film prepared by SILAR technique. , 2013, , .		0
97	Controlled Synthesis of Nanostructured Nickel Oxide Thin Film for Supercapacitor Application. <i>Advanced Science Letters</i> , 2018, 24, 5587-5592.	0.2	0