

# 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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98  
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98  
docs citations

98  
times ranked

4166  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-engineering of core-shell ZnCo <sub>2</sub> O <sub>4</sub> @NiO composites for high-performance asymmetric supercapacitors. <i>Nanoscale Advances</i> , 2022, 4, 814-823.	4.6	17
2	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
3	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
4	Active Edge Site Exposed Ni(OH) <sub>2</sub> 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
5	Marigold micro-flower like NiCo <sub>2</sub> O <sub>4</sub> grown on flexible stainless-steel mesh as an electrode for supercapacitors. <i>RSC Advances</i> , 2021, 11, 3666-3672.	3.6	25
6	Efficient quantum dot-sensitized solar cells through sulfur-rich carbon nitride modified electrolytes. <i>Nanoscale</i> , 2021, 13, 5730-5743.	5.6	18
7	Investigating the Influence of Reflux Condensation Reaction Temperature on the Growth of FeCo <sub>2</sub> O <sub>4</sub> Thin Film for Flexible Supercapacitor. <i>ChemistrySelect</i> , 2021, 6, 1838-1844.	1.5	8
8	CZTS/MoS <sub>2</sub> -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
9	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
10	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
11	Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> -SO <sub>3</sub> 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
12	CuCo <sub>2</sub> O <sub>4</sub> Nanorods Coated with CuO Nanoneedles for Supercapacitor Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 12702-12711.	5.0	34
13	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
14	Bismuth molybdate (Bi <sub>2</sub> Mo <sub>3</sub> O <sub>12</sub> ) nanoplates via facile hydrothermal and its gas sensing study. <i>Journal of Solid State Chemistry</i> , 2020, 281, 121043.	2.9	26
15	Mechanical Properties and Cytotoxicity of Differently Structured Nanocellulose-hydroxyapatite Based Composites for Bone Regeneration Application. <i>Nanomaterials</i> , 2020, 10, 25.	4.1	35
16	Enhanced Overall Water-Splitting Performance: Oleylamine-Functionalized GO/Cu <sub>2</sub> ZnSnS <sub>4</sub> Composite as a Noble Metal-Free and NonPrecious Electrocatalyst. <i>ACS Omega</i> , 2019, 4, 18969-18977.	3.5	19
17	Holey C@ZnFe <sub>2</sub> O <sub>4</sub> Nanoflakes by Carbon Soot Layer Blasting Approach for High Performance Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019, 2, 6693-6704.	5.1	14
18	Binder-free synthesis of high-quality nanocrystalline ZnCo <sub>2</sub> O <sub>4</sub> thin film electrodes for supercapacitor application. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	1.7	15

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19	CZTS Decorated on Graphene Oxide as an Efficient Electrocatalyst for High-Performance Hydrogen Evolution Reaction. ACS Omega, 2019, 4, 7650-7657.	3.5	38
20	Overall noble metal free Ni and Fe doped Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) bifunctional electrocatalytic systems for enhanced water splitting reactions. International Journal of Hydrogen Energy, 2019, 44, 8144-8155.	7.1	40
21	Photosensitizer-conjugated Cu-In-S heterostructured nanorods for cancer targeted photothermal/photodynamic synergistic therapy. Materials Science and Engineering C, 2019, 97, 793-802.	7.3	13
22	Biosynthesized Co-doped TiO <sub>2</sub> 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
23	Metal Precursor Dependent Synthesis of NiFe <sub>2</sub> O <sub>4</sub> Thin Films for High-Performance Flexible Symmetric Supercapacitor. ACS Applied Energy Materials, 2018, 1, 638-648.	5.1	112
24	In situ preparation of N doped orthorhombic Nb <sub>2</sub> O <sub>5</sub> nanoplates /rGO composites for photocatalytic hydrogen generation under sunlight. International Journal of Hydrogen Energy, 2018, 43, 19873-19884.	7.1	36
25	3D Hierarchical heterostructures of Bi <sub>2</sub> WO <sub>6</sub> /Mo <sub>x</sub> O <sub>6</sub> with enhanced oxygen evolution reaction from water under natural sunlight. New Journal of Chemistry, 2018, 42, 17597-17605.	2.8	8
26	Biomass-Mediated Synthesis of Cu-Doped TiO <sub>2</sub> Nanoparticles for Improved-Performance Lithium-Ion Batteries. ACS Omega, 2018, 3, 13676-13684.	3.5	25
27	Enhanced electrocatalytic hydrogen generation from water via cobalt-doped Cu <sub>2</sub> ZnSnS <sub>4</sub> nanoparticles. RSC Advances, 2018, 8, 20341-20346.	3.6	33
28	Hydrothermal synthesis of MnO <sub>2</sub> thin film for supercapacitor application. AIP Conference Proceedings, 2018, , .	0.4	2
29	Controlled Synthesis of Nanostructured Nickel Oxide Thin Film for Supercapacitor Application. Advanced Science Letters, 2018, 24, 5587-5592.	0.2	0
30	Mesoporous cadmium bismuth niobate (CdBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> ) nanospheres for hydrogen generation under visible light. Journal of Energy Chemistry, 2017, 26, 433-439.	12.9	11
31	Direct aqueous synthesis of quantum dots for high-performance AgInSe <sub>2</sub> quantum-dot-sensitized solar cell. Journal of Power Sources, 2017, 354, 100-107.	7.8	42
32	Synthesis of flower shaped ZnO thin films for resistive sensing of NO <sub>2</sub> gas. Mikrochimica Acta, 2017, 184, 2455-2463.	5.0	17
33	Hydroxy functionalized ionic liquids as promising electrolytes for supercapacitor study of Fe <sub>2</sub> O <sub>3</sub> thin films. Journal of Materials Science: Materials in Electronics, 2017, 28, 11738-11748.	2.2	9
34	NO <sub>2</sub> sensing studies of bio-green synthesized Au-doped SnO <sub>2</sub> . Journal of Materials Science: Materials in Electronics, 2017, 28, 13209-13216.	2.2	23
35	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
36	Enhanced Hydrogen Evolution Reactions on Nanostructured Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) Electrocatalyst. Applied Surface Science, 2017, 412, 475-481.	6.1	31

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37	A sensing behavior synergistic liquid-liquid extraction and spectrophotometric determination of nickel(II) by using 1-(2,4-dinitro aminophenyl)-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
38	Nanostructured N-doped orthorhombic Nb <sub>2</sub> O <sub>5</sub> as an efficient stable photocatalyst for hydrogen generation under visible light. <i>Dalton Transactions</i> , 2017, 46, 14859-14868.	3.3	60
39	Binder free 2D aligned efficient MnO <sub>2</sub> micro flowers as stable electrodes for symmetric supercapacitor applications. <i>RSC Advances</i> , 2017, 7, 36886-36894.	3.6	21
40	Anchoring Ultrafine ZnFe <sub>2</sub> O <sub>4</sub> /C Nanoparticles on 3D ZnFe <sub>2</sub> O <sub>4</sub> Nanoflakes for Boosting Cycle Stability and Energy Density of Flexible Asymmetric Supercapacitor. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 26016-26028.	8.0	72
41	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
42	Annealing atmosphere dependant properties of biosynthesized TiO <sub>2</sub> anode for lithium ion battery application. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 1472-1479.	2.2	13
43	Binder-free chemical synthesis of ZnFe <sub>2</sub> O <sub>4</sub> thin films for asymmetric supercapacitor with improved performance. <i>Ionics</i> , 2017, 23, 741-749.	2.4	39
44	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
45	Comparative Study of Individual and Mixed Aqueous Electrolytes with ZnFe <sub>2</sub> O <sub>4</sub> Nano-flakes Thin Film as an Electrode for Supercapacitor Application. <i>ChemistrySelect</i> , 2016, 1, 959-966.	1.5	32
46	Reflux Condensation Mediated Deposition of Co <sub>3</sub> O <sub>4</sub> Nanosheets and ZnFe <sub>2</sub> O <sub>4</sub> Nanoflakes Electrodes for Flexible Asymmetric Supercapacitor. <i>Electrochimica Acta</i> , 2016, 222, 1604-1615.	5.2	53
47	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
48	Biomediated green synthesis of TiO <sub>2</sub> nanoparticles for lithium ion battery application. <i>Composites Part B: Engineering</i> , 2016, 99, 297-304.	12.0	102
49	Low cost flexible 3-D aligned and cross-linked efficient ZnFe <sub>2</sub> O <sub>4</sub> nano-flakes electrode on stainless steel mesh for asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3504-3512.	10.3	97
50	Contact angle measurements: a preliminary diagnostic tool for evaluating the performance of ZnFe <sub>2</sub> O <sub>4</sub> nano-flake based supercapacitors. <i>Chemical Communications</i> , 2016, 52, 2557-2560.	4.1	63
51	Improved Electrochemical Performance of a ZnFe <sub>2</sub> O <sub>4</sub> 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
52	Mechanochemical growth of a porous ZnFe <sub>2</sub> O <sub>4</sub> nano-flake thin film as an electrode for supercapacitor application. <i>RSC Advances</i> , 2015, 5, 45935-45942.	3.6	67
53	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
54	Room Temperature Ammonia Gas Sensing Properties of Biosynthesized tin Oxide Nanoparticle Thin Films. <i>Current Nanoscience</i> , 2015, 11, 253-260.	1.2	10

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55	Polyelectrolyte multilayer-assisted fabrication of p-Cu <sub>2</sub> S/n-CdS heterostructured thin-film phototransistors. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8012-8017.	5.5	10
56	Band gap engineering by substitution of S by Se in nanostructured CdS <sub>1-x</sub> Se <sub>x</sub> thin films grown by soft chemical route for photosensor application. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 404-411.	4.0	28
57	Ultrasonically assisted intercalation of Ni in Al <sub>2</sub> O <sub>3</sub> thin film prepared by SILAR technique. , 2013, , .		0
58	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
59	Structural analysis and dye-sensitized solar cell application of electrodeposited tin oxide nanoparticles. <i>Materials Letters</i> , 2012, 79, 29-31.	2.6	21
60	Effect of annealing on photovoltaic characteristics of nanostructured p-Cu <sub>2</sub> S/n-CdS thin film. <i>Renewable Energy</i> , 2012, 38, 219-223.	8.9	21
61	Bandgap engineering by substitution of S by Se in nanostructured ZnS <sub>1-x</sub> Se <sub>x</sub> thin films grown by soft chemical route for nontoxic optoelectronic device applications. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5525-5531.	5.5	35
62	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
63	Nanostructured p-CuIn <sub>3</sub> Se <sub>5</sub> /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
64	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
65	Stoichiometry controlled conversion efficiency in nanostructured heterojunction solar cell of CdS/CuInSXSe <sub>2-x</sub> grown by chemical ion exchange method at room temperature. <i>Solar Energy</i> , 2011, 85, 1316-1321.	6.1	13
66	Low temperature LPG sensing properties of wet chemically grown zinc oxide nanoparticle thin film. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 69-74.	7.8	34
67	In situ monitoring of NiO-Al <sub>2</sub> O <sub>3</sub> nanoparticles synthesis by thermo-Raman spectroscopy. <i>Materials Chemistry and Physics</i> , 2010, 119, 86-92.	4.0	30
68	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
69	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
70	Optimization of growth of ternary CuInS <sub>2</sub> 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
71	Thermo-Raman spectroscopy in situ monitoring study of solid-state synthesis of NiO-Al <sub>2</sub> O <sub>3</sub> nanoparticles and its characterization. <i>Journal of Solid State Chemistry</i> , 2009, 182, 3406-3411.	2.9	23
72	Growth of nanocrystalline CuIn <sub>3</sub> Se <sub>5</sub> (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

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73	Depositing silver nanoparticles on/in a glass slide by the sonochemical method. <i>Nanotechnology</i> , 2008, 19, 435604.	2.6	59
74	Sonochemical deposition of silver nanoparticles on wool fibers. <i>Journal of Applied Polymer Science</i> , 2007, 104, 1732-1737.	2.6	60
75	Synthesis and Characterization of Silver-Nanoparticle-Deposited $\text{Bi}_2\text{Mo}_3\text{O}_{12}$ Nanorods. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 3342-3349.	2.0	8
76	Preparation and characterization of ZnO nanoparticles coated paper and its antibacterial activity study. <i>Green Chemistry</i> , 2006, 8, 1034.	9.0	354
77	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
78	Microscale Size Triangular Gold Prisms Synthesized Using Bengal Gram Beans ( <i>Cicer arietinum</i> ) <i>Nanoscience and Nanotechnology</i> , 2006, 6, 3746-3751.	0.9	46
79	Synthesis and Monitoring of $\text{Bi}_2\text{Mo}_3\text{O}_{12}$ Catalyst Formation using Thermo-Raman Spectroscopy. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 1753-1762.	2.0	18
80	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
81	Simple and rapid method for evaluating stickiness of cotton using thermogravimetric analysis. <i>Analytica Chimica Acta</i> , 2004, 502, 251-256.	5.4	11
82	Pyridine intercalative sonochemical synthesis and characterization of $\text{Bi}_2\text{Mo}_3\text{O}_{12}$ phase nanorods. <i>Chemical Physics Letters</i> , 2004, 383, 208-213.	2.6	28
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	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
85	Monitoring dehydration and condensation processes of $\text{Na}_2\text{HPO}_4 \cdot 12\text{H}_2\text{O}$ using thermo-Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003, 59, 1529-1539.	3.9	27
86	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
87	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
88	Palladium Catalyzed Transformation of Acyclic Units to Furans. <i>Current Organic Chemistry</i> , 2002, 6, 841-864.	1.6	32
89	Phase transformation studies of ceramic $\text{BaTiO}_3$ using thermo-Raman and dielectric constant measurements. <i>Journal of Applied Physics</i> , 2002, 91, 10038.	2.5	68
90	Opening and thinning of multiwall carbon nanotubes in supercritical water. <i>Chemical Physics Letters</i> , 2002, 363, 583-590.	2.6	42

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91	Thermo-Raman Studies on $\text{NaH}_2\text{PO}_4 \cdot 2\text{H}_2\text{O}$ for Dehydration, Condensation, and Phase Transformation. <i>Inorganic Chemistry</i> , 2001, 40, 5917-5923.	4.0	30
92	Thermo-Raman studies on dehydration of $\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$ . <i>Thermochimica Acta</i> , 2001, 371, 127-135.	2.7	15
93	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
94	Studies on thermal hysteresis of $\text{KNO}_3$ by thermo-Raman spectroscopy. <i>Thermochimica Acta</i> , 2000, 346, 83-90.	2.7	36
95	Thermo-Raman spectroscopic studies on polymorphism in $\text{Na}_2\text{SO}_4$ . <i>Journal of Physics Condensed Matter</i> , 2000, 12, 677-700.	1.8	80
96	Thermo-Raman investigations on structural transformations in hydrated $\text{MoO}_3$ . <i>Journal of Materials Chemistry</i> , 2000, 10, 2157-2162.	6.7	47
97	Raman studies on ferroelectric phase (phase III) of $\text{KNO}_3$ . <i>Journal of Applied Physics</i> , 1999, 86, 6779-6788.	2.5	29