

Anjali A Athawale

List of Publications by Year in descending order

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90
papers

2,640
citations

236925

25
h-index

197818

49
g-index

91
all docs

91
docs citations

91
times ranked

3354
citing authors

#	ARTICLE	IF	CITATIONS
1	Chloroform vapour sensor based on copper/polyaniline nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2002, 85, 131-136.	7.8	222
2	Nanocomposite of Pd/polyaniline as a selective methanol sensor. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 263-267.	7.8	214
3	Acrylic acid doped polyaniline as an ammonia sensor. <i>Sensors and Actuators B: Chemical</i> , 2001, 77, 657-663.	7.8	198
4	Polyaniline and its substituted derivatives as sensor for aliphatic alcohols. <i>Sensors and Actuators B: Chemical</i> , 2000, 67, 173-177.	7.8	156
5	Studies on chemically synthesized soluble acrylic acid doped polyaniline. <i>Materials Chemistry and Physics</i> , 2002, 73, 106-110.	4.0	153
6	Synthesis of CTAB/IPA reduced copper nanoparticles. <i>Materials Chemistry and Physics</i> , 2005, 91, 507-512.	4.0	108
7	Exchanges of Uranium(VI) Species in Amidoxime-Functionalized Sorbents. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6328-6335.	2.6	104
8	Chemical aspects of uranium recovery from seawater by amidoximated electron-beam-grafted polypropylene membranes. <i>Desalination</i> , 2008, 232, 243-253.	8.2	100
9	Synthesis of silver nanowires inside mesoporous MCM-41 host. <i>Materials Letters</i> , 2004, 58, 1168-1171.	2.6	82
10	Surface modified Nd doped TiO ₂ nanoparticles as photocatalysts in UV and solar light irradiation. <i>Solar Energy</i> , 2013, 91, 111-119.	6.1	80
11	Graphene-Multiwalled Carbon Nanotube Hybrids Synthesized by Gamma Radiations: Application as a Glucose Sensor. <i>Journal of Nanotechnology</i> , 2014, 2014, 1-10.	3.4	60
12	Antibacterial activities of Nd doped and Ag coated TiO ₂ nanoparticles under solar light irradiation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 273-280.	5.0	55
13	Synthesis and characterization of novel copper/polyaniline nanocomposite and application as a catalyst in the Wacker oxidation reaction. <i>Journal of Applied Polymer Science</i> , 2003, 89, 2412-2417.	2.6	51
14	Adsorptive Preconcentration of Uranium in Hydrogels from Seawater and Aqueous Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 6789-6796.	3.7	45
15	Aniline as a stabilizer for metal nanoparticles. <i>Materials Letters</i> , 2003, 57, 3889-3894.	2.6	43
16	Silver nanoparticles embedded polymer sorbent for preconcentration of uranium from bio-aggressive aqueous media. <i>Journal of Hazardous Materials</i> , 2011, 186, 2051-2059.	12.4	41
17	Polyurethane films modified with polyaniline-zinc oxide nanocomposites for biofouling mitigation. <i>Chemical Engineering Journal</i> , 2019, 359, 1400-1410.	12.7	39
18	One-step synthesis of Ag-reduced graphene oxide-multiwalled carbon nanotubes for enhanced antibacterial activities. <i>New Journal of Chemistry</i> , 2015, 39, 4583-4590.	2.8	37

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19	Electrochemical deposition of silver/silver oxide on reduced graphene oxide for glucose sensing. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 2255-2263.	2.5	33
20	An efficient γ -Fe ₂ O ₃ catalyst for liquid phase air oxidation of p-hydroxybenzyl alcohol under mild conditions. <i>Catalysis Communications</i> , 2009, 10, 485-489.	3.3	32
21	Photoemission and conductivity measurement of poly(N-methyl aniline) and poly(N-ethyl aniline) films. <i>Journal of Applied Polymer Science</i> , 1999, 74, 1286-1292.	2.6	30
22	Graphene oxide-modified polyaniline pigment for epoxy based anti-corrosion coatings. <i>Chemical Papers</i> , 2017, 71, 1515-1528.	2.2	30
23	Ultrasound assisted bulk synthesis of CH ₃ NH ₃ PbI ₃ perovskite at room temperature. <i>Materials Letters</i> , 2015, 159, 87-89.	2.6	29
24	Polyaniline-graphene oxide nanocomposites: Influence of nonconducting graphene oxide on the conductivity and oxidation-reduction mechanism of polyaniline. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3778-3786.	2.3	28
25	Synthesis of Cobalt Oxide Nanoparticles/Fibres in Alcoholic Medium using γ -ray Technique. <i>Defence Science Journal</i> , 2010, 60, 507-513.	0.8	27
26	Evidence for Second-Order Optical Nonlinearity in γ -Ray Induced Partially Cross-Linked Polyacrylonitrile. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5110-5113.	2.6	26
27	Acrylic acid-doped polyaniline sensitive to ammonia vapors. <i>Journal of Applied Polymer Science</i> , 2001, 79, 1994-1998.	2.6	25
28	Template free hydrothermal synthesis and gas sensing application of lanthanum cuprate (La ₂ CuO ₄): Effect of precursors on phase formation and morphology. <i>Journal of Alloys and Compounds</i> , 2014, 590, 486-493.	5.5	25
29	Hydroxide directed routes to synthesize nanosized cubic ceria (CeO ₂). <i>Journal of Alloys and Compounds</i> , 2009, 484, 211-217.	5.5	24
30	Synthesis of ZnO and Nd doped ZnO polyscales for removal of rhodamine 6G dye under UV light irradiation. <i>Materials Research Express</i> , 2018, 5, 085501.	1.6	24
31	Uranium preconcentration from seawater using phosphate functionalized poly(propylene) fibrous membrane. <i>Desalination and Water Treatment</i> , 2012, 38, 114-120.	1.0	23
32	Quaternary ammonium bearing hyper-crosslinked polymer encapsulation on Fe ₃ O ₄ nanoparticles. <i>RSC Advances</i> , 2016, 6, 21317-21325.	3.6	21
33	Heteropolyacids supported on mesoporous AlSBA-15 as efficient catalysts for esterification of levulinic acid. <i>Journal of Porous Materials</i> , 2019, 26, 1335-1343.	2.6	21
34	Elucidation of the role of hexamine and other precursors in the formation of magnetite nanorods and their stoichiometry. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3246.	2.8	20
35	Synthesis of graphene using gamma radiations. <i>Bulletin of Materials Science</i> , 2015, 38, 739-745.	1.7	20
36	Spectroscopic and electrochemical properties of poly(2,5 dimethyl aniline) films. <i>Materials Chemistry and Physics</i> , 1999, 60, 262-267.	4.0	18

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37	Conducting polyaniline/nano-zinc phosphate composite as a pigment for corrosion protection of low-carbon steel. <i>Chemical Papers</i> , 2017, 71, 189-197.	2.2	17
38	Synthesis of Ag ₂ O Coated TiO ₂ Nanoparticles by Sonochemically Activated Methods for Enhanced Photocatalytic Activities. <i>Topics in Catalysis</i> , 2020, 63, 1056-1065.	2.8	17
39	Hydrothermal synthesis of Ag@TiO ₂ @Fe ₃ O ₄ nanocomposites using sonochemically activated precursors: magnetic, photocatalytic and antibacterial properties. <i>Materials Research Express</i> , 2014, 1, 046111.	1.6	16
40	Crystalline LaCoO ₃ perovskite as a novel catalyst for glycerol transesterification. <i>Molecular Catalysis</i> , 2019, 475, 110496.	2.0	16
41	Poly(2,3-dimethylaniline) as a competent material for humidity sensor. <i>Journal of Applied Polymer Science</i> , 2001, 81, 1382-1387.	2.6	15
42	Phase formation study of noble metal (Au, Ag and Pd) doped lanthanum perovskites synthesized by hydrothermal method. <i>Materials Chemistry and Physics</i> , 2015, 155, 104-112.	4.0	15
43	Valorization of Oceanic Waste Biomass: A Catalytic Perspective. <i>Chemical Record</i> , 2019, 19, 1995-2021.	5.8	15
44	Electrically Conductive Silicone/Organic Polymer Composites. <i>Silicon</i> , 2014, 6, 199-206.	3.3	14
45	Polymer@Shell@Encapsulated Magnetite Nanoparticles Bearing Hexamethylenetetramine for Catalysing Aza-Michael Addition Reactions. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 5980-5987.	2.4	14
46	Fabrication of ZnO-functionalized polypyrrole microcomposite as a protective coating to enhance anticorrosion performance of low carbon mild steel. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48319.	2.6	14
47	Poly(m-chloroaniline): Electrochemical Synthesis and Characterization. <i>Polymer Journal</i> , 1997, 29, 787-794.	2.7	13
48	A Soft Solution Process to Synthesize Nanocrystalline Barium Zirconate via Reactive Solid State Precursors. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2005, 23, 3-6.	0.1	12
49	Radiation assisted synthesis of nanosized barium zirconate. <i>Radiation Physics and Chemistry</i> , 2006, 75, 755-759.	2.8	12
50	Interconnected polyaniline nanostructures: Enhanced interface for better supercapacitance retention. <i>Polymer</i> , 2021, 212, 123169.	3.8	12
51	Electrically conductive epoxy-polyester-graphite nanocomposites modified with aromatic amines. <i>Polymer</i> , 2016, 104, 49-60.	3.8	11
52	Interface engineering of gate dielectrics with multifunctional self-assembled monolayers in copper phthalocyanine based organic field-effect transistors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 273, 115397.	3.5	11
53	Microwave Combustion Synthesis of Silver Doped Lanthanum Ferrite Magnetic Nanoparticles. <i>Defence Science Journal</i> , 2013, 63, 285-291.	0.8	11
54	Investigations of some selected properties of electrochemically synthesized poly(N-ethyl aniline) films. <i>Polymer</i> , 1999, 40, 4929-4940.	3.8	10

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55	Nonaqueous Phase Synthesis of Copper Nanoparticles. Journal of Nanoscience and Nanotechnology, 2005, 5, 991-993.	0.9	9
56	Low Temperature Synthesis of Magnetite and Maghemite Nanoparticles. Journal of Nanoscience and Nanotechnology, 2007, 7, 4294-4302.	0.9	9
57	Synthesis of polypyrrole nanofibers by ultrasonic waves. Journal of Applied Polymer Science, 2008, 108, 2872-2875.	2.6	9
58	A rapid hydrothermal synthesis route for nanocrystalline SrZrO ₃ using reactive precursors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 119, 87-93.	3.5	8
59	Ag Dispersed Conducting Polyaniline Nanocomposite as a Selective Sensor for Ammonia. Journal of Metastable and Nanocrystalline Materials, 2005, 23, 323-326.	0.1	7
60	Epoxy Resin-modified, Urea-formaldehyde/Silicon Networks for High Impact Strength and Thermal Stability. Journal of Reinforced Plastics and Composites, 2009, 28, 2231-2239.	3.1	6
61	Solvent mediated morphological control of aniline stabilized cobalt oxide nanoparticles. Journal of Alloys and Compounds, 2010, 492, 331-338.	5.5	6
62	Polymeric nanoassembly of imine functionalized magnetite for loading copper salts to catalyze Henry and A ³ -coupling reactions. Reactive and Functional Polymers, 2021, 161, 104868.	4.1	6
63	Studies of electrochemically deposited poly(N-methyl aniline) films. Polymer International, 1998, 45, 195-201.	3.1	5
64	Au@Polyaniline Nanocomposite Synthesized Using ¹³⁷ Cs Ray Induced Au Nanoparticles. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2007, 37, 363-366.	0.6	5
65	Novel Epoxy Resin Networks with High Impact Strength and Hardness. Journal of Reinforced Plastics and Composites, 2008, 27, 605-612.	3.1	5
66	Electronic Applications of Ethylene Propylene Diene Monomer Rubber and Its Composites. Springer Series on Polymer and Composite Materials, 2016, , 305-333.	0.7	5
67	Studies on structural and optical properties of rare earth copper oxides synthesized by template free hydrothermal method. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 229, 70-78.	3.5	5
68	Pd ²⁺ -Loaded Magnetic Nanoassembly Formed by Magnetite Nanoparticles Crosslinked with Poly(acrylic acid) via Amide Bonds for Catalyzing Mizoroki-Heck Coupling Reaction. ChemistrySelect, 2018, 3, 8151-8158.	1.5	5
69	Precursor-dependent structural properties and antibacterial activity of copper oxide. Bulletin of Materials Science, 2018, 41, 1.	1.7	5
70	Unsaturated Polyester Resins, Blends, Interpenetrating Polymer Networks, Composites, and Nanocomposites: State of the Art and New Challenges. , 2019, , 1-42.		5
71	Poly(ethylenimine) functionalized magnetic nanoparticles for sorption of Pb, Cu, and Ni: potential application in catalysis. Separation Science and Technology, 2019, 54, 1588-1598.	2.5	5
72	Synthesis and characterization studies of organically soluble acrylic acid doped polydiphenylamine. Chemistry and Chemical Technology, 2008, 2, 257-262.	1.1	5

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73	Epoxy-Polyester IPNs modified with aromatic amines. Journal of Applied Polymer Science, 2012, 125, 836-843.	2.6	4
74	Bulk and surface structure characterization of nanoscopic silver doped lanthanum chromites. Applied Surface Science, 2013, 264, 574-580.	6.1	4
75	Palladium Acetate and Pd Nanoparticles Loaded Hexamethylenetetramine Anchored Magnetically Retrievable Assemblies for Catalyzing Mizoroki-Heck Type Mono and Gem-Dicoupling Reactions. ChemistrySelect, 2020, 5, 1961-1971.	1.5	3
76	Sol-gel-derived transparent metal oxide flexible field effect transistors. Environmental Science and Pollution Research, 2021, 28, 3928-3941.	5.3	3
77	Insights into the effect of halide enriched ZnO synthesized using tetrabutylammonium halides toward photocatalytic degradation of Rhodamine 6G. Environmental Progress and Sustainable Energy, 2021, 40, e13709.	2.3	3
78	TiO ₂ thin films derived by facile sol-gel method: Influence of spin rate and Al-doping on the optical and electronic properties. Materials Today Communications, 2021, 29, 102924.	1.9	3
79	Elucidation of reaction mechanism involved in the formation of LaNiO ₃ from XRD and TG analysis. AIP Conference Proceedings, 2013, , .	0.4	2
80	Comparative Study of Lanthanum Based Perovskites Synthesized by Different Methods. Springer Proceedings in Physics, 2013, , 33-40.	0.2	2
81	Tuning optical properties of zinc oxide and methyl ammonium lead iodide by ultrasound assisted method. Ultrasonics, 2022, 120, 106649.	3.9	2
82	Studies on electrically conductive composites of ethylene propylene diene monomer rubber and steel fibers. Journal of Applied Polymer Science, 2011, 120, 3036-3041.	2.6	1
83	Electrically conductive silicone rubber-steel fibre composites. Journal of Elastomers and Plastics, 2012, 44, 325-334.	1.5	1
84	Comparative studies of cobalt and nickel oxides synthesised using steady-state ⁶⁰ Co-radiolysis. International Journal of Nanotechnology, 2012, 9, 1050.	0.2	1
85	Cadmium(II)-Loaded Fe ₃ O ₄ @MPTS Nanoparticles: Preparation and Application as Catalyst for C-N Coupling Reactions. ChemistrySelect, 2019, 4, 11796-11800.	1.5	1
86	Understanding water mediated proton migration in conversion of C=C bond in olefinic carbon atoms into C-N bond to form β -amino adducts. Tetrahedron, 2021, 100, 132482.	1.9	1
87	Nanosized Cubic LaMnO ₃ by Heating Salt Precursors and Hydrothermal Activation. Advanced Science, Engineering and Medicine, 2013, 5, 443-448.	0.3	1
88	Synthesis of Nanocrystalline PZT by Hydrothermal Method. Defence Science Journal, 2007, 57, 35-39.	0.8	1
89	Uranium preconcentration from seawater using phosphate functionalized poly(propylene) fibrous membrane. , 0, 38, 114-120.		1
90	Effect of base and dopant concentration on phase formation of LaFeO ₃ . , 2013, , .		0