Dr Anjanapura V Raghu

List of Publications by Year
in descending order

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80 papers	7,424 citations	41339 49 h-index	66906 78 g-index
82 all docs	82 docs citations	82 times ranked	6996 citing authors

#	Article	IF	Citations
1	Recent progress in metal-doped TiO2, non-metal doped/codoped TiO2 and TiO2 nanostructured hybrids for enhanced photocatalysis. International Journal of Hydrogen Energy, 2020, 45, 7764-7778.	7.1	493
2	Enhanced photocatalytic activity of nanostructured titanium dioxide/polyaniline hybrid photocatalysts. Polyhedron, 2016, 120, 169-174.	2.2	386
3	Role of conducting polymer and metal oxide-based hybrids for applications in ampereometric sensors and biosensors. Microchemical Journal, 2019, 147, 7-24.	4.5	279
4	Synthesis of MWCNTsâ€core/thiophene polymerâ€sheath composite nanocables by a cationic surfactantâ€assisted chemical oxidative polymerization and their structural properties. Journal of Polymer Science Part A, 2010, 48, 1477-1484.	2.3	276
5	Properties of Waterborne Polyurethane/Functionalized Graphene Sheet Nanocomposites Prepared by an in situ Method. Macromolecular Chemistry and Physics, 2009, 210, 1247-1254.	2.2	267
6	Properties of Graphene/Waterborne Polyurethane Nanocomposites Cast from Colloidal Dispersion Mixtures. Journal of Macromolecular Science - Physics, 2012, 51, 197-207.	1.0	263
7	Green synthesis of Cu-doped ZnO nanoparticles and its application for the photocatalytic degradation of hazardous organic pollutants. Chemosphere, 2022, 287, 132081.	8.2	260
8	Carbon-Doped ZnO Hybridized Homogeneously with Graphitic Carbon Nitride Nanocomposites for Photocatalysis. Journal of Physical Chemistry C, 2014, 118, 10963-10971.	3.1	259
9	Graphite oxides as effective fire retardants of epoxy resin. Macromolecular Research, 2011, 19, 66-71.	2.4	242
10	Morphological and physical properties of a thermoplastic polyurethane reinforced with functionalized graphene sheet. Polymer International, 2009, 58, 412-417.	3.1	230
11	Preparation and Physical Properties of Waterborne Polyurethane/Functionalized Graphene Sheet Nanocomposites. Macromolecular Chemistry and Physics, 2008, 209, 2487-2493.	2.2	223
12	Recent advances in non-metals-doped TiO2 nanostructured photocatalysts for visible-light driven hydrogen production, CO2 reduction and air purification. International Journal of Hydrogen Energy, 2019, 44, 13022-13039.	7.1	207
13	Nanostructured metal oxides and its hybrids for photocatalytic and biomedical applications. Advances in Colloid and Interface Science, 2020, 281, 102178.	14.7	202
14	Graphene Modified Lipophilically by Stearic Acid and its Composite With Low Density Polyethylene. Journal of Macromolecular Science - Physics, 2014, 53, 1193-1204.	1.0	182
15	Compatibility of Thermally Reduced Graphene with Polyesters. Journal of Macromolecular Science - Physics, 2016, 55, 1099-1110.	1.0	175
16	Functionalized Graphene Sheets Embedded in Chitosan Nanocomposite Membranes for Ethanol and Isopropanol Dehydration via Pervaporation. Industrial & Engineering Chemistry Research, 2014, 53, 14474-14484.	3.7	166
17	Quinolineâ€nâ€butylcyanoacrylateâ€based nanoparticles for brain targeting for the diagnosis of Alzheimer's disease. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2010, 2, 35-47.	6.1	130
18	Graphene-loaded sodium alginate nanocomposite membranes with enhanced isopropanol dehydration performance via a pervaporation technique. RSC Advances, 2013, 3, 17120.	3.6	129

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19	Barium titanate nanostructures for photocatalytic hydrogen generation and photodegradation of chemical pollutants. Journal of Materials Science: Materials in Electronics, 2019, 30, 20646-20653.	2.2	110
20	Mixed matrix membranes of Hâ€ZSM5â€loaded poly(vinyl alcohol) used in pervaporation dehydration of alcohols: Influence of silica/alumina ratio. Polymer Engineering and Science, 2014, 54, 1774-1782.	3.1	107
21	Photocatalytic semiconductor thin films for hydrogen production and environmental applications. International Journal of Hydrogen Energy, 2020, 45, 18289-18308.	7.1	102
22	Hydrogen peroxide treated graphene as an effective nanosheet filler for separation application. RSC Advances, 2015, 5, 100984-100995.	3.6	99
23	Synthesis and characterization of novel polyurethanes based on 4,4â€™-{1,4-phenylenebis[methylylidenenitrilo]}diphenol. Polymer Bulletin, 2008, 60, 609-616.	3.3	93
24	Membranes for dehydration of alcohols via pervaporation. Journal of Environmental Management, 2019, 242, 415-429.	7.8	91
25	para-Toluene sulfonic acid treated clay loaded sodium alginate membranes for enhanced pervaporative dehydration of isopropanol. Applied Clay Science, 2014, 101, 419-429.	5.2	88
26	Graphene coated with alumina and its utilization as a thermal conductivity enhancer for alumina sphere/thermoplastic polyurethane composite. Materials Chemistry and Physics, 2015, 153, 291-300.	4.0	78
27	Biohydrogen Production from Organic Waste â€“ A Review. Chemical Engineering and Technology, 2020, 43, 1240-1248.	1.5	76
28	Graphene-based functional nanomaterials for biomedical and bioanalysis applications. FlatChem, 2020, 23, 100184.	5.6	72
29	Catalyst design for maximizing C5+ yields during Fischer-Tropsch synthesis. International Journal of Hydrogen Energy, 2021, 46, 3289-3301.	7.1	72
30	A review on various maleic anhydride antimicrobial polymers. Journal of Microbiological Methods, 2019, 163, 105650.	1.6	67
31	Reactive mechanism and the applications of bioactive prebiotics for human health: Review. Journal of Microbiological Methods, 2019, 159, 128-137.	1.6	66
32	Synthesis and Characterization of Pyridine-Based Polyurethanes. Designed Monomers and Polymers, 2009, 12, 109-118.	1.6	65
33	Preparation and Characterization of Poly(ethylene oxide)/Graphene Nanocomposites from an Aqueous Medium. Journal of Macromolecular Science - Physics, 2010, 49, 802-809.	1.0	65
34	Preparation and characterization of novel polyurethanes containing 4,4â€²-{oxy-1,4-diphenyl bis(nitromethylidine)}diphenol schiff base diol. Polymer Engineering and Science, 2014, 54, 24-32.	3.1	64
35	Photocatalytic, antibacterial and electrochemical properties of novel rare earth metal oxides-based nanohybrids. Materials Science for Energy Technologies, 2020, 3, 853-861.	1.8	61
36	Novel biocompatible poly(acrylamide)-grafted-dextran hydrogels: Synthesis, characterization and biomedical applications. Journal of Microbiological Methods, 2019, 159, 200-210.	1.6	60

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37	Synthesis and characterization of novel polyurethanes based on N¹,N⁴â€bis[(4â€hydroxyphenyl)methylene]succinohydrazide hard segment. Journal of Applied Polymer Science, 2008, 110, 2315-2320.	2.6	59
38	Synthesis and characterization of novel polyurethanes based on 1,3-bis(hydroxymethyl) benzimidazolin-2-one and 1,3-bis(hydroxymethyl) benzimidazolin-2-thione hard segments. Journal of Applied Polymer Science, 2005, 98, 2236-2244.	2.6	58
39	Properties of Thermoplastic Polyurethane/Functionalised Graphene Sheet Nanocomposites Prepared by the in Situ Polymerisation Method. Polymers and Polymer Composites, 2010, 18, 351-358.	1.9	57
40	Novel Co and Ni metal nanostructures as efficient photocatalysts for photodegradation of organic dyes. Materials Research Express, 2019, 6, 125502.	1.6	57
41	Synthesis of composite nanopowder through Mn doped ZnS-CdS systems and its structural, optical properties. Journal of Molecular Structure, 2021, 1230, 129875.	3.6	57
42	Synthesis, characterization of novel dihydrazide containing polyurethanes based on N¹,N²â€bis[(4â€hydroxyphenyl)methylene]ethanedihydrazide and various diisocyanates. Journal of Applied Polymer Science, 2008, 107, 3401-3407.	2.6	55
43	Tailor-made electrically-responsive poly(acrylamide)-graft-pullulan copolymer based transdermal drug delivery systems: Synthesis, characterization, in-vitro and ex-vivo evaluation. Journal of Drug Delivery Science and Technology, 2020, 56, 101525.	3.0	55
44	Synthesis and characterization of novel polyurethanes based on 2,6-bis(4-hydroxybenzylidene) cyclohexanone hard segments. Journal of Applied Polymer Science, 2007, 104, 81-88.	2.6	54
45	Synthesis, characterization, and acoustic properties of new soluble polyurethanes based on 2,2â€²-[1,4-phenylenebis(nitrilomethylylidene)diphenol and 2,2â€²-[4,4â€²-methylene-di-2-methylphenylene-1,1â€²-bis(nitrilomethylylidene)]diphenol. Journal of Applied Polymer Science, 2007, 106, 299-308.	2.6	54
46	Investigation into the effects of SiO₂/TiO₂ nanolayer on the thermal performance of solar box type cooker. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 2724-2737.	2.3	54
47	Synthesis and characterization of novel polyurethanes based on 4,4â€²-[1,4-phenylenedi-diazene-2,1-diyl]bis(2-carboxyphenol) and 4,4â€²-[1,4-phenylenedi-diazene-2,1-diyl]bis(2-chlorophenol) hard segments. Reactive and Functional Polymers, 2007, 67, 503-514.	4.1	53
48	Synthesis and characterization of novel polyureas based on benzimidazoline-2-one and benzimidazoline-2-thione hard segments. Journal of Applied Polymer Science, 2006, 100, 576-583.	2.6	52
49	Synthesis, characterization, and molecular modeling studies of novel polyurethanes based on 2,2â€²-[ethane-1,2-diylbis(nitrilomethylylidene)]diphenol and 2,2â€²-[hexane-1,6-diylbis(nitrilomethylylidene)] diphenol hard segments. Journal of Polymer Science Part A, 2006, 44, 6032-6046.	2.3	51
50	Synthesis and characterization of novel polyurethanes based on 4-{(4-hydroxyphenyl)iminomethyl}phenol. Macromolecular Research, 2008, 16, 194-199.	2.4	51
51	Synthesis and characterization of novel Schiff base polyurethanes. Journal of Applied Polymer Science, 2009, 113, 2747-2754.	2.6	47
52	Design of eco-friendly PVA/TiO₂-based nanocomposites and their antifungal activity study. Green Materials, 2020, 8, 40-48.	2.1	46
53	Molecular dynamics simulations on the blends of poly(vinyl pyrrolidone) and poly(bisphenolâ€Aâ€ether) Tj ETQq1 1 0.784314 rgBT /Ov	2.6	44
54	Polyaniline-fly ash nanocomposites synthesized via emulsion polymerization: Physicochemical, thermal and dielectric properties. Materials Science for Energy Technologies, 2021, 4, 107-112.	1.8	44

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55	Synthesis and characterization of novel thiazole derivatives as potential anticancer agents: Molecular docking and DFT studies. Computational Toxicology, 2022, 21, 100202.	3.3	44
56	Facile synthesis of Ni-doped ZnS-CdS composite and their magnetic and photoluminescence properties. Journal of Environmental Chemical Engineering, 2021, 9, 106335.	6.7	43
57	Applications of <scp>hydrogelâ€based</scp> delivery systems in wound care and treatment: An upâ€toâ€date review. Polymers for Advanced Technologies, 2022, 33, 2025-2043.	3.2	43
58	Synthesis and corrosion resistance properties of novel conjugated polymer-Cu2Cl4L3 composites. Materials Science for Energy Technologies, 2021, 4, 92-99.	1.8	40
59	Influence of nanotechnology to combat against COVID-19 for global health emergency: A review. Sensors International, 2021, 2, 100079.	8.4	38
60	Facile synthesis of CoFe₂O₄ nanoparticles and application in removal of malachite green dye. Green Materials, 2019, 7, 137-142.	2.1	37
61	Novel polymeric hydrogel composites: Synthesis, physicochemical, mechanical and biocompatible properties. Nano Express, 2021, 2, 030003.	2.4	37
62	Punica granatum pericarp extract catalyzed green chemistry approach for synthesizing novel ligand and its metal(II) complexes: Molecular docking/DNA interactions. Journal of Molecular Structure, 2022, 1249, 131656.	3.6	36
63	Template-free hydrothermal synthesis of hexa ferrite nanoparticles and its adsorption capability for different organic dyes: Comparative adsorption studies, isotherms and kinetic studies. Materials Science for Energy Technologies, 2019, 2, 657-666.	1.8	33
64	Non-metal (Oxygen, Sulphur, Nitrogen, Boron and Phosphorus)-Doped Metal Oxide Hybrid Nanostructures as Highly Efficient Photocatalysts for Water Treatment and Hydrogen Generation. Environmental Chemistry for A Sustainable World, 2019, , 83-105.	0.5	32
65	Synthesis, structural exploration, spectral and combinatorial analysis of racemic-3-isobutyl-5-phenyl-5-(pyridin-4-yl)imida-zolidine-2,4-dione: Comparison between experimental and DFT calculations. Journal of Molecular Structure, 2018, 1167, 215-226.	3.6	31
66	Organic Conjugated Polymer-Based Functional Nanohybrids. , 2019, , 357-379.		31
67	Gd³⁺ and Y³⁺ co-doped mixed metal oxide nanohybrids for photocatalytic and antibacterial applications. Nano Express, 0, , .	2.4	31
68	Integration of biological pre-treatment methods for increased energy recovery from paper and pulp biosludge. Journal of Microbiological Methods, 2019, 160, 93-100.	1.6	30
69	Functionally Tailored Electro-Sensitive Poly(Acrylamide)-g-Pectin Copolymer Hydrogel for Transdermal Drug Delivery Application: Synthesis, Characterization, In-vitro and Ex-vivo Evaluation. Drug Delivery Letters, 2020, 10, 185-196.	0.5	28
70	Preparation, characterization and antimicrobial activity of betel-leaf-extract-doped polysaccharide blend films. Green Materials, 2021, 9, 49-68.	2.1	23
71	Recent advances in layered claysâ€“intercalated polymer nanohybrids. , 2019, , 197-218.		18
72	A microplateâ€based Response Surface Methodology model for growth optimization and biofilm formation on polystyrene polymeric material in a Candida albicans and Escherichia coli coâ€culture. Polymers for Advanced Technologies, 2022, 33, 2872-2885.	3.2	17

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73	Green synthesis of Î³â€aminobutyric acid using permeabilized probiotic Enterococcus faecium for biocatalytic application. Nano Select, 2022, 3, 1436-1447.	3.7	15
74	Myco-Nanotechnology for Sustainable Agriculture: Challenges and Opportunities. Fungal Biology, 2021, , 457-479.	0.6	14
75	Synthesis, structural exploration and Hirshfeld surface analysis of a novel bioactive heterocycle: (4-(6-Fluorobenzo[d]isoxazol-3-yl) piperidin-1-yl)(morpholino)methanone. Chemical Data Collections, 2018, 15-16, 1-9.	2.3	13
76	Synthetic gutomics: Deciphering the microbial code for futuristic diagnosis and personalized medicine. Methods in Microbiology, 2019, 46, 197-225.	0.8	9
77	COMPARATIVE STUDIES OF INHIBITIVE EFFECTS OF DIAMINES ON CORROSION OF ALUMINIUM ALLOY IN PRESENCE OF ACID MEDIA. Rasayan Journal of Chemistry, 2021, , 72-82.	0.4	8
78	Effect of hydroxy gas addition on performance and exhaust emissions in variable compression spark ignition engine. Materials Today: Proceedings, 2020, 24, 930-936.	1.8	6
79	Fungal Amylases and Their Industrial Applications. Fungal Biology, 2021, , 407-434.	0.6	4
80	Chemoselective Reaction of Benz(g)indole Based Bisheterocycle Dicarboxylate Towards Hydrazine Hydrate: Synthesis and Antimicrobial Activity of New Triheterocycles-5-pyrrolylaminocarbonyl/mercaptooxadiazolyl/4-allyl-5-me rcaptotriazolylmethoxy-1-furfuryl-2-methylbenz(g)indoles.. ChemInform, 2005, 36, no.	0.0	2