Raghava Reddy

List of Publications by Year
in descending order

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100 papers	9,028 citations	31902 53 h-index	40881 93 g-index
101 all docs	101 docs citations	101 times ranked	8226 citing authors

#	Article	IF	Citations
1	Nanostructured graphitic carbon nitride (g-C3N4)-CTAB modified electrode for the highly sensitive detection of amino-triazole and linuron herbicides. Environmental Research, 2022, 204, 111856.	3.7	28
2	Novel Z-scheme binary zinc tungsten oxide/nickel ferrite nanohybrids for photocatalytic reduction of chromium (Cr (VI)), photoelectrochemical water splitting and degradation of toxic organic pollutants. Journal of Hazardous Materials, 2022, 423, 127044.	6.5	81
3	Synthesis of titanium dioxide nanotubes (TNT) conjugated with quercetin and its in vivo antitumor activity against skin cancer. Journal of Molecular Structure, 2022, 1249, 131556.	1.8	13
4	Green synthesis of Cu-doped ZnO nanoparticles and its application for the photocatalytic degradation of hazardous organic pollutants. Chemosphere, 2022, 287, 132081.	4.2	260
5	Novel g-C3N4/Cu-doped ZrO2 hybrid heterostructures for efficient photocatalytic Cr(VI) photoreduction and electrochemical energy storage applications. Chemosphere, 2022, 295, 133851.	4.2	25
6	g-C3N4 nanosheets functionalized yttrium-doped ZrO2 nanoparticles for efficient photocatalytic Cr(VI) reduction and energy storage applications. Journal of Environmental Management, 2022, 315, 115120.	3.8	11
7	Synthesis of bis-1,3-(benz)azoles catalyzed by palladium-PEPPSI complex-based catalysts and the study of photophysical properties. Chemosphere, 2022, 301, 134751.	4.2	3
8	A review on multicomponent reactions catalysed by zero-dimensional/one-dimensional titanium dioxide (TiO2) nanomaterials: Promising green methodologies in organic chemistry. Journal of Environmental Management, 2021, 279, 111603.	3.8	28
9	Photocatalytic hydrogen production from dye contaminated water and electrochemical supercapacitors using carbon nanohorns and TiO2 nanoflower heterogeneous catalysts. Journal of Environmental Management, 2021, 277, 111433.	3.8	21
10	Synthesis of Ca-doped ZnO nanoparticles and its application as highly efficient electrochemical sensor for the determination of anti-viral drug, acyclovir. Journal of Molecular Liquids, 2021, 322, 114552.	2.3	62
11	Ultra-small zinc oxide nanosheets anchored onto sodium bismuth sulfide nanoribbons as solar-driven photocatalysts for removal of toxic pollutants and phtotoelectrocatalytic water oxidation. Chemosphere, 2021, 267, 128559.	4.2	59
12	Catalyst design for maximizing C5+ yields during Fischer-Tropsch synthesis. International Journal of Hydrogen Energy, 2021, 46, 3289-3301.	3.8	72
13	Influence of nanotechnology to combat against COVID-19 for global health emergency: A review. Sensors International, 2021, 2, 100079.	4.9	38
14	Conventional and Nanotechnology-Based Sensing Methods for SARS Coronavirus (2019-nCoV). ACS Applied Bio Materials, 2021, 4, 1178-1190.	2.3	40
15	Advances in transition metal dichalcogenide-based two-dimensional nanomaterials. Materials Today Chemistry, 2021, 19, 100399.	1.7	50
16	Titanium dioxide nanotubes conjugated with quercetin function as an effective anticancer agent by inducing apoptosis in melanoma cells. Journal of Nanostructure in Chemistry, 2021, 11, 721-734.	5.3	19
17	Photocatalytic hydrogen production by ternary heterojunction composites of silver nanoparticles doped FCNT-TiO2. Journal of Environmental Management, 2021, 286, 112130.	3.8	26
18	Biomass utilization and production of biofuels from carbon neutral materials. Environmental Pollution, 2021, 276, 116731.	3.7	160

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19	Novel graphene-nanoclay hybrid electrodes for electrochemical determination of theophylline. Microchemical Journal, 2021, 165, 106115.	2.3	32
20	Novel polymeric hydrogel composites: Synthesis, physicochemical, mechanical and biocompatible properties. Nano Express, 2021, 2, 030003.	1.2	37
21	Monodispersed core/shell nanospheres of ZnS/NiO with enhanced H2 generation and quantum efficiency at versatile photocatalytic conditions. Journal of Hazardous Materials, 2021, 413, 125359.	6.5	36
22	Gram-scale synthesis of ZnS/NiO core-shell hierarchical nanostructures and their enhanced H2 production in crude glycerol and sulphide wastewater. Environmental Research, 2021, 199, 111323.	3.7	20
23	Metal chalcogenide-based core/shell photocatalysts for solar hydrogen production: Recent advances, properties and technology challenges. Journal of Hazardous Materials, 2021, 415, 125588.	6.5	37
24	In-vitro evaluation of antioxidant and anticholinesterase activities of novel pyridine, quinoxaline and s-triazine derivatives. Environmental Research, 2021, 199, 111320.	3.7	28
25	Novel NiMgOH-rGO-Based Nanostructured Hybrids for Electrochemical Energy Storage Supercapacitor Applications: Effect of Reducing Agents. Crystals, 2021, 11, 1144.	1.0	10
26	Identification and removal of micro- and nano-plastics: Efficient and cost-effective methods. Chemical Engineering Journal, 2021, 421, 129816.	6.6	50
27	Synthesis of novel Co3O4 nanocubes-NiO octahedral hybrids for electrochemical energy storage supercapacitors. Journal of Environmental Management, 2021, 298, 113484.	3.8	26
28	2D materials and its heterostructured photocatalysts: Synthesis, properties, functionalization and applications in environmental remediation. Journal of Environmental Chemical Engineering, 2021, 9, 106408.	3.3	28
29	Photocatalytic semiconductor thin films for hydrogen production and environmental applications. International Journal of Hydrogen Energy, 2020, 45, 18289-18308.	3.8	102
30	Hetero-nanostructured metal oxide-based hybrid photocatalysts for enhanced photoelectrochemical water splitting â€“ A review. International Journal of Hydrogen Energy, 2020, 45, 18331-18347.	3.8	185
31	Metal-organic frameworks (MOFs)-based efficient heterogeneous photocatalysts: Synthesis, properties and its applications in photocatalytic hydrogen generation, CO2 reduction and photodegradation of organic dyes. International Journal of Hydrogen Energy, 2020, 45, 7656-7679.	3.8	214
32	Efficient removal of toxic organic dyes and photoelectrochemical properties of iron-doped zirconia nanoparticles. Chemosphere, 2020, 239, 124766.	4.2	140
33	Highly efficient solar light-driven photocatalytic hydrogen production over Cu/FCNTs-titania quantum dots-based heterostructures. Journal of Environmental Management, 2020, 254, 109747.	3.8	111
34	Amberlite XAD-4 modified electrodes for highly sensitive electrochemical determination of nimesulide in human urine. Microchemical Journal, 2020, 153, 104389.	2.3	50
35	Novel ruthenium doped TiO2/reduced graphene oxide hybrid as highly selective sensor for the determination of ambroxol. Journal of Molecular Liquids, 2020, 300, 112368.	2.3	79
36	Textile waste, dyes/inorganic salts separation of cerium oxide-loaded loose nanofiltration polyethersulfone membranes. Chemical Engineering Journal, 2020, 385, 123787.	6.6	232

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37	Novel BiVO4 nanostructures for environmental remediation, enhanced photoelectrocatalytic water oxidation and electrochemical energy storage performance. Solar Energy, 2020, 207, 441-449.	2.9	26
38	Graphene/graphitic carbon nitride-based ternary nanohybrids: Synthesis methods, properties, and applications for photocatalytic hydrogen production. FlatChem, 2020, 24, 100200.	2.8	80
39	Poly(eriochrome black T) modified electrode for electrosensing of methdilazine. Materials Science in Semiconductor Processing, 2020, 120, 105261.	1.9	39
40	Graphene-based functional nanomaterials for biomedical and bioanalysis applications. FlatChem, 2020, 23, 100184.	2.8	72
41	Functional nanostructured metal oxides and its hybrid electrodes â€“ Recent advancements in electrochemical biosensing applications. Microchemical Journal, 2020, 159, 105522.	2.3	50
42	Green Synthesis of Silver Nanoparticles and Evaluation of Their Antibacterial Activity against Multidrug-Resistant Bacteria and Wound Healing Efficacy Using a Murine Model. Antibiotics, 2020, 9, 902.	1.5	45
43	Self-healing polymers: Synthesis methods and applications. Nano Structures Nano Objects, 2020, 23, 100500.	1.9	46
44	Recent trends in functionalized nanoparticles loaded polymeric composites: An energy application. Materials Science for Energy Technologies, 2020, 3, 515-525.	1.0	26
45	Sustainable energy from waste organic matters via efficient microbial processes. Science of the Total Environment, 2020, 722, 137927.	3.9	81
46	Functionalized metal oxide nanoparticles for efficient dye-sensitized solar cells (DSSCs): A review. Materials Science for Energy Technologies, 2020, 3, 472-481.	1.0	62
47	Biohydrogen Production from Organic Waste â€“ A Review. Chemical Engineering and Technology, 2020, 43, 1240-1248.	0.9	76
48	Copper-doped ZrO2 nanoparticles as high-performance catalysts for efficient removal of toxic organic pollutants and stable solar water oxidation. Journal of Environmental Management, 2020, 260, 110088.	3.8	121
49	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.	1.4	55
50	Biofuels, biodiesel and biohydrogen production using bioprocesses. A review. Environmental Chemistry Letters, 2020, 18, 1049-1072.	8.3	131
51	ZnO nanosheets-decorated Bi2WO6 nanolayers as efficient photocatalysts for the removal of toxic environmental pollutants and photoelectrochemical solar water oxidation. Journal of Environmental Management, 2020, 265, 110504.	3.8	117
52	Nanostructured metal oxides and its hybrids for photocatalytic and biomedical applications. Advances in Colloid and Interface Science, 2020, 281, 102178.	7.0	202
53	Z-scheme binary 1D ZnWO4 nanorods decorated 2D NiFe2O4 nanoplates as photocatalysts for high efficiency photocatalytic degradation of toxic organic pollutants from wastewater. Journal of Environmental Management, 2020, 268, 110677.	3.8	106
54	Sustainable hydrogen production for the greener environment by quantum dots-based efficient photocatalysts: A review. Journal of Environmental Management, 2019, 248, 109246.	3.8	122

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55	Nanostructured silver doped TiO2/CNTs hybrid as an efficient electrochemical sensor for detection of anti-inflammatory drug, cetirizine. Microchemical Journal, 2019, 150, 104124.	2.3	91
56	A facile one pot synthesis of novel pyrimidine derivatives of 1,5-benzodiazepines via domino reaction and their antibacterial evaluation. Journal of Microbiological Methods, 2019, 163, 105648.	0.7	38
57	Novel heterostructured Ru-doped TiO₂/CNTs hybrids with enhanced electrochemical sensing performance for Cetirizine. Materials Research Express, 2019, 6, 115085.	0.8	38
58	Fabrication of ZnO nanoparticles modified sensor for electrochemical oxidation of methdilazine. Applied Surface Science, 2019, 496, 143656.	3.1	124
59	Band gap tuning and surface modification of carbon dots for sustainable environmental remediation and photocatalytic hydrogen production â€“ A review. Journal of Environmental Management, 2019, 250, 109486.	3.8	211
60	Barium titanate nanostructures for photocatalytic hydrogen generation and photodegradation of chemical pollutants. Journal of Materials Science: Materials in Electronics, 2019, 30, 20646-20653.	1.1	110
61	Carbon Clothâ€based Hybrid Materials as Flexible Electrochemical Supercapacitors. ChemElectroChem, 2019, 6, 5771-5786.	1.7	129
62	Novel biosensor for efficient electrochemical detection of methdilazine using carbon nanotubes-modified electrodes. Materials Research Express, 2019, 6, 116308.	0.8	35
63	Nanostructured organic and inorganic materials for Li-ion batteries: A review. Materials Science in Semiconductor Processing, 2019, 104, 104684.	1.9	54
64	ZnO-based nanostructured electrodes for electrochemical sensors and biosensors in biomedical applications. Biosensors and Bioelectronics, 2019, 141, 111417.	5.3	300
65	A novel biosensor based on graphene oxide-nanoclay hybrid electrode for the detection of Theophylline for healthcare applications. Microchemical Journal, 2019, 149, 103985.	2.3	73
66	Template-free synthesis of tetragonal Co-doped ZrO2 nanoparticles for applications in electrochemical energy storage and water treatment. Electrochimica Acta, 2019, 317, 416-426.	2.6	136
67	A review on various maleic anhydride antimicrobial polymers. Journal of Microbiological Methods, 2019, 163, 105650.	0.7	67
68	Membranes for dehydration of alcohols via pervaporation. Journal of Environmental Management, 2019, 242, 415-429.	3.8	91
69	Electrochemical Sensors and Biosensors Based on Graphene Functionalized with Metal Oxide Nanostructures for Healthcare Applications. ChemistrySelect, 2019, 4, 5322-5337.	0.7	140
70	Functionalized magnetic nanoparticles/biopolymer hybrids: Synthesis methods, properties and biomedical applications. Methods in Microbiology, 2019, 46, 227-254.	0.4	35
71	Flurbiprofen-loaded ethanolic liposome particles for biomedical applications. Journal of Microbiological Methods, 2019, 161, 18-27.	0.7	28
72	Novel pH-sensitive interpenetrated network polyspheres of polyacrylamide-g-locust bean gum and sodium alginate for intestinal targeting of ketoprofen: In vitro and in vivo evaluation. Colloids and Surfaces B: Biointerfaces, 2019, 180, 362-370.	2.5	25

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73	Photocatalytic recovery of H2 from H2S containing wastewater: Surface and interface control of photo-excitons in Cu2S@TiO2 core-shell nanostructures. Applied Catalysis B: Environmental, 2019, 254, 174-185.	10.8	209
74	Polymeric graphitic carbon nitride (g-C3N4)-based semiconducting nanostructured materials: Synthesis methods, properties and photocatalytic applications. Journal of Environmental Management, 2019, 238, 25-40.	3.8	321
75	Novel biocompatible poly(acrylamide)-grafted-dextran hydrogels: Synthesis, characterization and biomedical applications. Journal of Microbiological Methods, 2019, 159, 200-210.	0.7	60
76	Reactive mechanism and the applications of bioactive prebiotics for human health: Review. Journal of Microbiological Methods, 2019, 159, 128-137.	0.7	66
77	Nanostructured titanium oxide hybrids-based electrochemical biosensors for healthcare applications. Colloids and Surfaces B: Biointerfaces, 2019, 178, 385-394.	2.5	156
78	Green synthesis and characterization of copper nanoparticles by Tinospora cardifolia to produce nature-friendly copper nano-coated fabric and their antimicrobial evaluation. Journal of Microbiological Methods, 2019, 160, 107-116.	0.7	119
79	Lipid-polymer hybrid nanoparticles: Synthesis strategies and biomedical applications. Journal of Microbiological Methods, 2019, 160, 130-142.	0.7	137
80	Metal oxide nanohybrids-based low-temperature sensors for NO2 detection: a short review. Journal of Materials Science: Materials in Electronics, 2019, 30, 8160-8170.	1.1	27
81	Electro-Catalytic Behavior of Mg-Doped ZnO Nano-Flakes for Oxidation of Anti-Inflammatory Drug. Journal of the Electrochemical Society, 2019, 166, B3072-B3078.	1.3	88
82	Integration of biological pre-treatment methods for increased energy recovery from paper and pulp biosludge. Journal of Microbiological Methods, 2019, 160, 93-100.	0.7	30
83	Electrochemical behavior of flufenamic acid at amberlite XAD-4 resin and silver-doped titanium dioxide/ amberlite XAD-4 resin modified carbon electrodes. Colloids and Surfaces B: Biointerfaces, 2019, 177, 407-415.	2.5	80
84	Biocompatible in-situ gelling polymer hydrogels for treating ocular infection. Methods in Microbiology, 2019, 46, 93-114.	0.4	14
85	Role of conducting polymer and metal oxide-based hybrids for applications in ampereometric sensors and biosensors. Microchemical Journal, 2019, 147, 7-24.	2.3	279
86	Novel Co and Ni metal nanostructures as efficient photocatalysts for photodegradation of organic dyes. Materials Research Express, 2019, 6, 125502.	0.8	57
87	Membrane-based separation of potential emerging pollutants. Separation and Purification Technology, 2019, 210, 850-866.	3.9	277
88	Crystal structure and Hirshfeld surface analysis of 2-(4-nitrophenyl)-2-oxoethyl benzoate. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 1719-1723.	0.2	3
89	Crystal structure and Hirshfeld surface analysis of 2-(4-nitrophenyl)-2-oxoethyl picolinate. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 1763-1767.	0.2	3
90	Crystal structure and Hirshfeld surface analysis of 2-(4-nitrophenyl)-2-oxoethyl 2-chlorobenzoate. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 1792-1796.	0.2	0

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91	Nanoarchitectured Grapheneâ€Organic Frameworks (GOFs): Synthetic Strategies, Properties, and Applications. Chemistry - an Asian Journal, 2018, 13, 3561-3574.	1.7	56
92	Recent Advances in Graphene Quantum Dots: Synthesis, Properties, and Applications. Small Methods, 2018, 2, 1800050.	4.6	166
93	Polypyrrole functionalized with carbon nanotubes as an efficient and new electrodes for electrochemical supercapacitors. AIP Conference Proceedings, 2017, , .	0.3	3
94	Graphene oxide functionalized with silver nanoparticles as conducting electrodes for solar cells and electrochemical energy storage devices. AIP Conference Proceedings, 2017, , .	0.3	3
95	Polymer brush synthesis on surface modified carbon nanotubes via in situ emulsion polymerization. Colloid and Polymer Science, 2016, 294, 1599-1610.	1.0	207
96	Enhanced photocatalytic activity of nanostructured titanium dioxide/polyaniline hybrid photocatalysts. Polyhedron, 2016, 120, 169-174.	1.0	386
97	Graphene Modified Lipophilically by Stearic Acid and its Composite With Low Density Polyethylene. Journal of Macromolecular Science - Physics, 2014, 53, 1193-1204.	0.4	182
98	Edge-enriched graphene quantum dots for enhanced photo-luminescence and supercapacitance. Nanoscale, 2014, 6, 11988-11994.	2.8	406
99	Synthesis and Characterization of Pyridine-Based Polyurethanes. Designed Monomers and Polymers, 2009, 12, 109-118.	0.7	65
100	Gd³⁺ and Y³⁺ co-doped mixed metal oxide nanohybrids for photocatalytic and antibacterial applications. Nano Express, 0, , .	1.2	31