Ch Venkata Reddy

List of Publications by Year
in descending order

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109	4,752	87843	106281
papers	citations	38	65
		h-index	g-index

110	110	110	4509
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	Novel edge-capped ZrO2 nanoparticles onto V2O5 nanowires for efficient photosensitized reduction of chromium (Cr (VI)), photoelectrochemical solar water splitting, and electrochemical energy storage applications. Chemical Engineering Journal, 2022, 430, 132988.	6.6	24
4	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
5	Fabrication of tunable hierarchical ZnO nanostructures via an anodization process. Materials Letters, 2022, 314, 131890.	1.3	2
6	Vanadium-doped graphitic carbon nitride for multifunctional applications: Photoelectrochemical water splitting and antibacterial activities. Chemosphere, 2021, 264, 128593.	4.2	32
7	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
8	Effect of a novel one-dimensional zinc tungsten oxide nanorods anchored two-dimensional graphitic carbon nitride nanosheets for improved solar-light-driven photocatalytic removal of toxic pollutants and photoelectrochemical water splitting. Journal of Materials Science: Materials in Electronics, 2021, 32, 33-46.	1.1	11
9	Cobalt Nanoparticle-Embedded Nitrogen-Doped Carbon Catalyst Derived from a Solid-State Metal-Organic Framework Complex for OER and HER Electrocatalysis. Energies, 2021, 14, 1320.	1.6	14
10	Au-doped BiVO4 nanostructure-based photoanode with enhanced photoelectrochemical solar water splitting and electrochemical energy storage ability. Applied Surface Science, 2021, 545, 149030.	3.1	29
11	Effect of noble metal ions dopants on solar photoelectrochemical water splitting and electrochemical supercapacitive performance of BiVO4 hollow tubes. Solar Energy Materials and Solar Cells, 2021, 226, 111056.	3.0	21
12	Facile synthesis of Ni-doped ZnS-CdS composite and their magnetic and photoluminescence properties. Journal of Environmental Chemical Engineering, 2021, 9, 106335.	3.3	43
13	A novel one-pot approach of ZnWO4 nanorods decorated onto g-C3N4 nanosheets: 1D/2D heterojunction for enhanced solar-light-driven photocatalytic activity. Journal of Materials Science, 2020, 55, 1170-1183.	1.7	40
14	Efficient removal of toxic organic dyes and photoelectrochemical properties of iron-doped zirconia nanoparticles. Chemosphere, 2020, 239, 124766.	4.2	140
15	Synthesis and photoelectrochemical water oxidation of (Y, Cu) codoped Î±-Fe2O3 nanostructure photoanode. Journal of Alloys and Compounds, 2020, 814, 152349.	2.8	73
16	Novel BiVO4 nanostructures for environmental remediation, enhanced photoelectrocatalytic water oxidation and electrochemical energy storage performance. Solar Energy, 2020, 207, 441-449.	2.9	26
17	Cu2+ and Y3+ co-doped effect on morphology, structural, optical and photoelectrochemical properties of Fe2O3 photoanode. Journal of Electroanalytical Chemistry, 2020, 878, 114692.	1.9	7
18	Functional nanostructured metal oxides and its hybrid electrodes â€“ Recent advancements in electrochemical biosensing applications. Microchemical Journal, 2020, 159, 105522.	2.3	50

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19	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
20	A systematic study of annealing environment and Al dopant effect on NASICON-type LiZr2(PO4)3 solid electrolyte. Ionics, 2020, 26, 4287-4298.	1.2	15
21	A novel green-emitting Ni2+-doped Ca-Li hydroxyapatite nanopowders: structural, optical, and photoluminescence properties. Journal of Materials Science: Materials in Electronics, 2020, 31, 5097-5106.	1.1	7
22	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
23	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
24	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
25	Structural, optical, and luminescence properties of Cu²⁺-doped Ca-Li hydroxyapatite nanopowders prepared by mechanochemical synthesis. Materials Research Express, 2019, , .	0.8	3
26	Fabrication of ZnO nanoparticles modified sensor for electrochemical oxidation of methdilazine. Applied Surface Science, 2019, 496, 143656.	3.1	124
27	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
28	Novel biosensor for efficient electrochemical detection of methdilazine using carbon nanotubes-modified electrodes. Materials Research Express, 2019, 6, 116308.	0.8	35
29	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.	1.0	33
30	Silica gel-modified electrode as an electrochemical sensor for the detection of acetaminophen. Microchemical Journal, 2019, 150, 104206.	2.3	46
31	Effect of ball milling on optical properties and visible photocatalytic activity of Fe doped ZnO nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 240, 33-40.	1.7	44
32	Investigations on structural and spectral properties of undoped and Mn2+ doped SrZn2(PO4)2 nanophosphors for light emitting devices. Journal of Materials Science: Materials in Electronics, 2019, 30, 5120-5129.	1.1	4
33	Systematic studies of Bi2O3 hierarchical nanostructural and plasmonic effect on photoelectrochemical activity under visible light irradiation. Ceramics International, 2019, 45, 16784-16791.	2.3	7
34	ZnO-based nanostructured electrodes for electrochemical sensors and biosensors in biomedical applications. Biosensors and Bioelectronics, 2019, 141, 111417.	5.3	300
35	Investigation of dopant and Ag plasmonic effect on Î±-Fe2O3 photoelectrode for photoelectrochemical water splitting activity. Applied Surface Science, 2019, 488, 629-638.	3.1	24
36	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

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37	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
38	Electrochemical Sensors and Biosensors Based on Graphene Functionalized with Metal Oxide Nanostructures for Healthcare Applications. ChemistrySelect, 2019, 4, 5322-5337.	0.7	140
39	Effect of plasmonic Ag nanowires on the photocatalytic activity of Cu doped Fe2O3 nanostructures photoanodes for superior photoelectrochemical water splitting applications. Journal of Electroanalytical Chemistry, 2019, 842, 146-160.	1.9	24
40	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
41	Structural, optical, magnetic and thermal investigations on Cr3+ ions doped ZnS nanocrystals by co-precipitation method. Journal of Science: Advanced Materials and Devices, 2019, 4, 260-266.	1.5	14
42	Nanostructured titanium oxide hybrids-based electrochemical biosensors for healthcare applications. Colloids and Surfaces B: Biointerfaces, 2019, 178, 385-394.	2.5	156
43	Nickel-doped ZnO structures for efficient water splitting under visible light. Materials Research Express, 2019, 6, 055517.	0.8	10
44	Recent Progress in TiO2- and ZnO-Based Nanostructured Hybrid Photocatalysts for Water Purification and Hydrogen Generation. , 2019, , 815-843.		11
45	Synthesis and characterization of pure tetragonal ZrO2 nanoparticles with enhanced photocatalytic activity. Ceramics International, 2018, 44, 6940-6948.	2.3	161
46	Structural, spectral, magnetic and thermal properties of VO2+ doped ZnS nanocrystals by co-precipitation method. Journal of Materials Science: Materials in Electronics, 2018, 29, 6105-6112.	1.1	6
47	Synthesis, optical properties and efficient photocatalytic activity of CdO/ZnO hybrid nanocomposite. Journal of Physics and Chemistry of Solids, 2018, 112, 20-28.	1.9	109
48	Structural, optical, and bifunctional applications: Supercapacitor and photoelectrochemical water splitting of Ni-doped ZnO nanostructures. Journal of Electroanalytical Chemistry, 2018, 828, 124-136.	1.9	49
49	Solution combustion synthesis of SnO2â€“NiO pâ€“n heterojunction nanocomposite for photocatalytic application. Journal of Materials Science: Materials in Electronics, 2018, 29, 16988-16996.	1.1	16
50	High performance hierarchical SiCN nanowires for efficient photocatalytic - photoelectrocatalytic and supercapacitor applications. Applied Catalysis B: Environmental, 2018, 237, 876-887.	10.8	27
51	Highly photostable Zn-doped TiO2 thin film nanostructures for enhanced dye degradation deposited by sputtering method. Materials Science in Semiconductor Processing, 2018, 85, 113-121.	1.9	22
52	Enhanced visible-light photocatalytic performance of Fe3O4 nanopyramids for water splitting and dye degradation. Journal of Solid State Electrochemistry, 2018, 22, 3535-3546.	1.2	24
53	A stable novel nanostructure of ZnFe2O4 based nanocomposite for improved photoelectrocatalytic and photocatalytic activities. Journal of Electroanalytical Chemistry, 2018, 823, 517-526.	1.9	13
54	Structural, optical, and improved photocatalytic properties of CdS/SnO 2 hybrid photocatalyst nanostructure. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 221, 63-72.	1.7	34

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55	Synthesis of CdO/ZnS heterojunction for photodegradation of organic dye molecules. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	18
56	Synthesis of Cr-doped SnO2 quantum dots and its enhanced photocatalytic activity. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 223, 131-142.	1.7	40
57	Morphological and chemical structure of silver-doped barium strontium titanate thin films fabricated via pulsed laser deposition. Materials Research Express, 2017, 4, 076406.	0.8	4
58	Structural and optical properties of Fe-doped SnO₂quantum dots. Materials Research Express, 2017, 4, 125021.	0.8	14
59	Oxygen pressure effect on optical properties and dye degradation of ZnO nanostructured films prepared by sputtering. Materials Research Express, 2017, 4, 095003.	0.8	3
60	Synthesis, structural and optical properties of CdS nanoparticles with enhanced photocatalytic activities by photodegradation of organic dye molecules. Journal of Materials Science: Materials in Electronics, 2016, 27, 7799-7808.	1.1	19
61	Effect of cobalt concentration on morphology of Co-doped SnO2 nanostructures synthesized by solution combustion method. Journal of Materials Science: Materials in Electronics, 2016, 27, 5197-5203.	1.1	24
62	Facile synthesis of Cu@TiO2 core shell nanowires for efficient photocatalysis. Materials Letters, 2016, 176, 265-269.	1.3	43
63	Structural and optical properties of vanadium doped SnO 2 nanoparticles with high photocatalytic activities. Journal of Luminescence, 2016, 179, 26-34.	1.5	47
64	ZrO2/MoS2 heterojunction photocatalysts for efficient photocatalytic degradation of methyl orange. Electronic Materials Letters, 2016, 12, 812-823.	1.0	44
65	Preparation and improved photocatalytic activity of mesoporous WS 2 using combined hydrothermal-evaporation induced self-assembly method. Materials Research Bulletin, 2016, 75, 193-203.	2.7	43
66	Synthesis and spectroscopic characterizations of copper ions doped zinc borate nanoparticles. Optik, 2016, 127, 4536-4540.	1.4	4
67	Room temperature synthesis and spectral characterization of Cu2+-doped CdO powder. Indian Journal of Physics, 2016, 90, 359-364.	0.9	5
68	Synthesis of MoS2 multi-wall nanotubes using wet chemical method with H2O2 as growth promoter. Superlattices and Microstructures, 2015, 85, 124-132.	1.4	42
69	Effect of temperature on structural, morphological and magnetic properties of Cd0.7Co0.3Fe2O4 nanoparticles. Journal of Magnetism and Magnetic Materials, 2015, 393, 132-138.	1.0	9
70	Structural and optical properties of CdO/ZnS core/shell nanocomposites. Journal of Alloys and Compounds, 2015, 628, 39-45.	2.8	32
71	Effect of Co2+ and Ni2+-doped zinc borate nano crystalline powders by co-precipitation method. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 142, 279-285.	2.0	14
72	A facile synthesis and spectral characterization of Cu2+ doped CdO/ZnS nanocomposite. Journal of Magnetism and Magnetic Materials, 2015, 384, 6-12.	1.0	14

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73	EPR and Optical Studies of Fe3+-Doped Caâ€“Li Hydroxyapatite Nanopowder: Mechanochemical Synthesis. Applied Magnetic Resonance, 2015, 46, 1-15.	0.6	22
74	Influence of calcination temperature on Cd0.3Co0.7Fe2O4 nanoparticles: Structural, thermal and magnetic properties. Journal of Magnetism and Magnetic Materials, 2015, 394, 70-76.	1.0	21
75	Investigation of structural, thermal and magnetic properties of cadmium substituted cobalt ferrite nanoparticles. Superlattices and Microstructures, 2015, 82, 165-173.	1.4	42
76	Structural and photoluminescence studies of Co2+ doped Caâ€“Li hydroxyapatite nanopowders. Journal of Materials Science: Materials in Electronics, 2015, 26, 6667-6675.	1.1	10
77	Synthesis and structural characterization of MoS2 nanospheres and nanosheets using solvothermal method. Journal of Materials Science, 2015, 50, 5024-5038.	1.7	77
78	Co-precipitation synthesis and characterization of faceted MoS2 nanorods with controllable morphologies. Applied Physics A: Materials Science and Processing, 2015, 119, 813-823.	1.1	53
79	Effect of calcination temperature on cobalt substituted cadmium ferrite nanoparticles. Journal of Materials Science: Materials in Electronics, 2015, 26, 5078-5084.	1.1	14
80	Improved photocatalytic activity of MoS₂ nanosheets decorated with SnO₂ nanoparticles. RSC Advances, 2015, 5, 86675-86684.	1.7	62
81	Structural, optical and magnetic properties of Mn2+ doped ZnO-CdS composite nanopowder. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 201, 72-78.	1.7	39
82	Structural and Spectral Characterization of Co2+- and Ni2+-DOPED CdO Powder Prepared From Solution at Room Temperature. Journal of Applied Spectroscopy, 2015, 82, 760-766.	0.3	2
83	Spectral investigations on undoped and Cu2+ doped ZnOâ€“CdS composite nanopowders. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 139, 86-93.	2.0	46
84	Synthesis and spectroscopic studies of Fe3+-doped zinc borate powder. Journal of Molecular Structure, 2015, 1081, 311-315.	1.8	8
85	Synthesis and characterization of VO2+ doped ZnOâ€“CdS composite nanopowder. Journal of Molecular Structure, 2015, 1081, 254-259.	1.8	49
86	Room temperature synthesis and spectral characterizations of Fe3+-doped CdO powder. Journal of Molecular Structure, 2014, 1075, 365-369.	1.8	1
87	Synthesis and characterization of undoped and Fe(III) ions doped NaCaAlPO4F3 phosphor. Journal of Luminescence, 2014, 145, 324-329.	1.5	21
88	Characterization of Cr3+ doped mixed alkali ions effect in zinc borate glasses â€“ Physical and spectroscopic investigations. Optical Materials, 2014, 36, 1329-1335.	1.7	37
89	Structural and magnetic properties of Co<inf>0.5</inf>Cd<inf>0.5</inf>Fe<inf>2</inf>O<inf>4</inf> nano ferrite particles. , 2013, , .		0
90	Structural investigations on Cu2+ ions doped ZnCdO nanopowder. Journal of Molecular Structure, 2013, 1034, 57-61.	1.8	11

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91	Structural and spectral features of Cr3+ doped Î²-BaB2O4 nanopowder by co-precipitation method. Physica B: Condensed Matter, 2013, 429, 18-23.	1.3	6
92	Characterization of Fe3+ doped mixed alkali zinc borate glasses â€" Physical and spectroscopic investigations. Journal of Non-Crystalline Solids, 2013, 365, 6-12.	1.5	27
93	Spectral investigations of Mn2+ doped Zn3(BO3)2 nanopowder. Journal of Molecular Structure, 2013, 1048, 64-68.	1.8	10
94	Synthesis and structural characterization of Co2+ ions doped ZnO nanopowders by solid state reaction through sonication. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 109, 90-96.	2.0	30
95	Structural and optical investigations on ZnCdO nanopowder. Physica Scripta, 2012, 86, 035708.	1.2	29
96	Structural Properties of Cr3+-Doped Cadmium Oxide Nanopowders. Applied Magnetic Resonance, 2012, 42, 403-411.	0.6	8
97	Synthesis and spectroscopic characterization of Cu(II) containing chlorocadmiumphosphate Cd(HPO4)ClÂ·[H3N(CH2)6NH3]0.5 crystals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 85, 160-164.	2.0	9
98	Synthesis and spectral characterizations of Fe3+ doped Î²-BaB2O4 nano crystallite powder. Journal of Molecular Structure, 2012, 1012, 17-21.	1.8	15
99	Synthesis and optical properties of Co2+ and Ni2+ ions doped Î²-BaB2O4 nanopowders. Journal of Luminescence, 2012, 132, 2325-2329.	1.5	13
100	Synthesis and spectroscopic characterization of Mn(II) doped organic amine templated chlorocadmiumphosphate CdHPO4Clâ€‰Â·â€‰[H3N(CH2)6NH3]0.5 crystals. Journal of Coordination Chemistry, 2011, 64, 4276-4285.	0.8	12
101	Correlation between physical and structural properties of Co2+ doped mixed alkali zinc borate glasses. Journal of Non-Crystalline Solids, 2011, 357, 3373-3380.	1.5	73
102	Spectroscopic investigations and physical properties of Mn2+ doped mixed alkali zinc borate glasses. Materials Research Bulletin, 2011, 46, 2222-2229.	2.7	29
103	Physical and Spectral Investigations of Cu2+-Doped Alkali Zinc Borate Glasses. Applied Magnetic Resonance, 2011, 40, 339-350.	0.6	17
104	Spectral Investigations on Cu2+-Doped ZnO Nanopowders. Applied Magnetic Resonance, 2011, 41, 69-78.	0.6	23
105	An efficient and room temperature synthesis of Fe3+ doped chlorocadmiumphosphate molecular sieves: Spectroscopic, thermal and powder XRD investigations. Inorganic Chemistry Communication, 2011, 14, 1048-1051.	1.8	4
106	Effect of Li2O content on physical and structural properties of vanadyl doped alkali zinc borate glasses. Physica B: Condensed Matter, 2011, 406, 2132-2137.	1.3	34
107	Spectroscopic studies on Fe3+ and Mn2+ doped SrB4O7 glasses. Physica B: Condensed Matter, 2011, 406, 3295-3298.	1.3	14
108	Mixed alkali effect and optical properties of Ni2+ doped 20ZnO+xLi2O+(30â^'x)Na2O+50B2O3 glasses. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 79, 1116-1122.	2.0	27

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109	Spectral investigations of Cu²⁺doped beta-barium borate nanopowder by the co-precipitation method. Physica Scripta, 2011, 84, 025602.	1.2	14