

Dr RAVINDRANADH K

List of Publications by Year in descending order

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89
papers

2,428
citations

172386
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223716
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89
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89
docs citations

89
times ranked

1944
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on hydrogels classification and recent developments in biomedical applications. International Journal of Polymeric Materials and Polymeric Biomaterials, 2023, 72, 1059-1069.	1.8	14
2	Structural, optical, and luminescence properties of Ni ²⁺ -doped ZnO@CdS nanocomposite: synthesis and investigations for green light emission. Chemical Papers, 2022, 76, 557-566.	1.0	7
3	An effective CuO/Bi ₂ WO ₆ heterostructured photocatalyst: Analyzing a charge-transfer mechanism for the enhanced visible-light-driven photocatalytic degradation of tetracycline and organic pollutants. Chemosphere, 2022, 287, 132015.	4.2	53
4	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
5	Study of Pre-monsoon CAPE Development over Puducherry, India. Thalassas, 2022, 38, 459.	0.1	0
6	Polydopamine-Coated Copper-Substituted Mesoporous Silica Nanoparticles for Dual Cancer Therapy. Coatings, 2022, 12, 60.	1.2	4
7	Enhanced Photocatalytic Activity of ZnO@CdS Composite Nanostructures towards the Degradation of Rhodamine B under Solar Light. Catalysts, 2022, 12, 84.	1.6	22
8	Facile fabrication of novel ceria-based nanocomposite (CYO-CSO) via co-precipitation: Electrochemical, photocatalytic and antibacterial performances. Journal of Molecular Structure, 2022, 1256, 132519.	1.8	30
9	Structural, Optical, and Photoluminescence Properties of Cr ³⁺ Ion-Doped ZnO-CdS Nanocomposite: Synthesis and Investigations for Yellow Emission. Journal of Electronic Materials, 2022, 51, 1876-1883.	1.0	4
10	Convection-based assessment of pre-monsoon season instability indices over Chandigarh and Ladakh regions, India. Arabian Journal of Geosciences, 2022, 15, 1.	0.6	1
11	Bio-Stimulated Adsorption of Cr(VI) from Aqueous Solution by Groundnut Shell Activated Carbon@Al Embedded Material. Catalysts, 2022, 12, 290.	1.6	12
12	Microbial Electrolysis Cell as a Diverse Technology: Overview of Prospective Applications, Advancements, and Challenges. Energies, 2022, 15, 2611.	1.6	9
13	Visible-light-driven indium vanadium oxide nanosheets supported bismuth tungsten oxide nanoflakes heterostructure as an efficient photocatalyst for the tetracycline degradation. Chemosphere, 2022, 299, 134477.	4.2	19
14	Novel BiVO ₄ -nanosheet-supported MoS ₂ -nanoflake-heterostructure with synergistic enhanced photocatalytic removal of tetracycline under visible light irradiation. Chemosphere, 2022, 305, 135465.	4.2	16
15	Ultra-small zinc oxide nanosheets anchored onto sodium bismuth sulfide nanoribbons as solar-driven photocatalysts for removal of toxic pollutants and photoelectrocatalytic water oxidation. Chemosphere, 2021, 267, 128559.	4.2	59
16	Enhanced solar-light-driven photocatalytic and photoelectrochemical properties of zinc tungsten oxide nanorods anchored on bismuth tungsten oxide nanoflakes. Chemosphere, 2021, 268, 129346.	4.2	21
17	Enhanced solar-light-driven photocatalytic properties of novel Z-scheme binary BiPO ₄ nanorods anchored onto NiFe ₂ O ₄ nanoplates: Efficient removal of toxic organic pollutants. Journal of Environmental Sciences, 2021, 102, 326-340.	3.2	34
18	Plasmonic ZnO/Au/g-C ₃ N ₄ nanocomposites as solar light active photocatalysts for degradation of organic contaminants in wastewater. Chemosphere, 2021, 263, 128262.	4.2	75

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19	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. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 33-46.	1.1	11
20	Cobalt Nanoparticle-Embedded Nitrogen-Doped Carbon Catalyst Derived from a Solid-State Metal-Organic Framework Complex for OER and HER Electrocatalysis. <i>Energies</i> , 2021, 14, 1320.	1.6	14
21	Structural, optical and magnetic properties of Cd doped ZnO nanomaterials for optoelectronic device application. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 11264-11273.	1.1	4
22	Au-doped BiVO ₄ nanostructure-based photoanode with enhanced photoelectrochemical solar water splitting and electrochemical energy storage ability. <i>Applied Surface Science</i> , 2021, 545, 149030.	3.1	29
23	Novel yellow light emission from vanadyl ions-doped calcium-lithium hydroxyapatite nanopowders: structural, optical, and photoluminescence properties. <i>Chemical Papers</i> , 2021, 75, 3989-3999.	1.0	5
24	Recent progress in transition metal oxide/sulfide quantum dots-based nanocomposites for the removal of toxic organic pollutants. <i>Chemosphere</i> , 2021, 272, 129849.	4.2	44
25	Carbon Nanofibers as Potential Catalyst Support for Fuel Cell Cathodes: A Review. <i>Energy & Fuels</i> , 2021, 35, 11761-11799.	2.5	37
26	Study of statistical estimated parameters using ERA5 reanalysis data over Khulna region during monsoon season. <i>Acta Geophysica</i> , 2021, 69, 1963-1978.	1.0	6
27	Hierarchical Two-Dimensional Layered Double Hydroxide Coated Polydopamine Nanocarriers for Combined Chemodynamic and Photothermal Tumor Therapy. <i>Coatings</i> , 2021, 11, 1008.	1.2	6
28	Influence of Thermodynamic Indices During Severe Convection over Andaman Nicobar and Lakshadweep Islands. <i>Thalassas</i> , 2021, 37, 593-619.	0.1	3
29	Synthesis of 2D NiFe ₂ O ₄ nanoplates/2D Bi ₂ WO ₆ nanoflakes heterostructure: An enhanced Z-scheme charge transfer and separation for visible-light-driven photocatalytic degradation of toxic pollutants. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105893.	3.3	30
30	MXene (Ti ₃ C ₂ T _x) supported electrocatalysts for methanol and ethanol electrooxidation: A review. <i>Ceramics International</i> , 2021, 47, 28106-28121.	2.3	33
31	Improved sunlight-driven photocatalytic abatement of tetracycline and photoelectrocatalytic water oxidation by tin oxide quantum dots anchored on nickel ferrite nanoplates. <i>Journal of Electroanalytical Chemistry</i> , 2021, 900, 115699.	1.9	8
32	Recent Advances on MXene-Based Electrocatalysts toward Oxygen Reduction Reaction: A Focused Review. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100975.	1.9	30
33	Recent Trends in Graphitic Carbon Nitride-Based Binary and Ternary Heterostructured Electrodes for Photoelectrochemical Water Splitting. <i>Processes</i> , 2021, 9, 1959.	1.3	10
34	Carbon cloth/transition metals-based hybrids with controllable architectures for electrocatalytic hydrogen evolution - A review. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7716-7740.	3.8	101
35	A novel one-pot approach of ZnWO ₄ nanorods decorated onto g-C ₃ N ₄ nanosheets: 1D/2D heterojunction for enhanced solar-light-driven photocatalytic activity. <i>Journal of Materials Science</i> , 2020, 55, 1170-1183.	1.7	40
36	Facile one-pot synthesis of gold/tin oxide quantum dots for visible light catalytic degradation of methylene blue: Optimization of plasmonic effect. <i>Journal of Alloys and Compounds</i> , 2020, 812, 152081.	2.8	25

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37	SnO ₂ quantum dots decorated NiFe ₂ O ₄ nanoplates: 0D/2D heterojunction for enhanced visible-light-driven photocatalysis. <i>Materials Science in Semiconductor Processing</i> , 2020, 107, 104834.	1.9	40
38	Novel BiVO ₄ nanostructures for environmental remediation, enhanced photoelectrocatalytic water oxidation and electrochemical energy storage performance. <i>Solar Energy</i> , 2020, 207, 441-449.	2.9	26
39	A study of coral reef-like tetragonal Mn ₃ O ₄ nanostructure photoelectrode for photoelectrochemical water splitting under visible irradiation. <i>Journal of Electroanalytical Chemistry</i> , 2020, 874, 114488.	1.9	4
40	Ni-dopant concentration effect of ZrO ₂ photocatalyst on photoelectrochemical water splitting and efficient removal of toxic organic pollutants. <i>Separation and Purification Technology</i> , 2020, 252, 117352.	3.9	61
41	Functional nanostructured metal oxides and its hybrid electrodes – Recent advancements in electrochemical biosensing applications. <i>Microchemical Journal</i> , 2020, 159, 105522.	2.3	50
42	Structural and electrochemical properties of LiNiO ₂ cathodes prepared by solid state reaction method. <i>Ionics</i> , 2020, 26, 5991-6002.	1.2	10
43	Substrate effect on structural and electrochemical properties of LiFePO ₄ thin films grown by pulsed laser deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 5040-5046.	1.1	0
44	A novel green-emitting Ni ²⁺ -doped Ca-Li hydroxyapatite nanopowders: structural, optical, and photoluminescence properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 5097-5106.	1.1	7
45	Copper-doped ZrO ₂ nanoparticles as high-performance catalysts for efficient removal of toxic organic pollutants and stable solar water oxidation. <i>Journal of Environmental Management</i> , 2020, 260, 110088.	3.8	121
46	Optical, electrical and photoluminescence studies on Al ₂ O ₃ doped PVA capped ZnO nanoparticles for optoelectronic device application. <i>Optik</i> , 2020, 205, 164236.	1.4	9
47	Structural and optical properties of ZnO doped CdTe nanopowders for optoelectronic device application. <i>Optik</i> , 2020, 206, 164346.	1.4	3
48	Enhanced visible-light-driven photoelectrochemical and photocatalytic performance of Au-SnO ₂ quantum dot-anchored g-C ₃ N ₄ nanosheets. <i>Separation and Purification Technology</i> , 2020, 240, 116652.	3.9	53
49	Enhanced solar light-driven photocatalytic degradation of tetracycline and organic pollutants by novel one-dimensional ZnWO ₄ nanorod-decorated two-dimensional Bi ₂ WO ₆ nanoflakes. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 110, 58-70.	2.7	34
50	ZnO nanosheets-decorated Bi ₂ WO ₆ nanolayers as efficient photocatalysts for the removal of toxic environmental pollutants and photoelectrochemical solar water oxidation. <i>Journal of Environmental Management</i> , 2020, 265, 110504.	3.8	117
51	Z-scheme binary 1D ZnWO ₄ nanorods decorated 2D NiFe ₂ O ₄ nanoplates as photocatalysts for high efficiency photocatalytic degradation of toxic organic pollutants from wastewater. <i>Journal of Environmental Management</i> , 2020, 268, 110677.	3.8	106
52	Structural, optical, and luminescence properties of Cu ²⁺ -doped Ca-Li hydroxyapatite nanopowders prepared by mechanochemical synthesis. <i>Materials Research Express</i> , 2019, , .	0.8	3
53	Silica gel-modified electrode as an electrochemical sensor for the detection of acetaminophen. <i>Microchemical Journal</i> , 2019, 150, 104206.	2.3	46
54	ZnO supported Au/Pd bimetallic nanocomposites for plasmon improved photocatalytic activity for methylene blue degradation under visible light irradiation. <i>Applied Surface Science</i> , 2019, 496, 143665.	3.1	93

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55	A novel biosensor based on graphene oxide-nanoclay hybrid electrode for the detection of Theophylline for healthcare applications. <i>Microchemical Journal</i> , 2019, 149, 103985.	2.3	73
56	Visible-light-driven photocatalytic activity of tiny ZnO nanosheets anchored on NaBiS ₂ nanoribbons via hydrothermal synthesis. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 10900-10911.	1.1	27
57	Functionalized magnetic nanoparticles/biopolymer hybrids: Synthesis methods, properties and biomedical applications. <i>Methods in Microbiology</i> , 2019, 46, 227-254.	0.4	35
58	Enhanced visible-light-active photocatalytic performance using CdS nanorods decorated with colloidal SnO ₂ quantum dots: Optimization of core-shell nanostructure. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 76, 476-487.	2.9	45
59	Structural and electrochemical properties of ZrO ₂ doped PVP-Na ⁺ based nanocomposite polymer films. <i>Materials Science in Semiconductor Processing</i> , 2019, 89, 41-50.	1.9	16
60	Recent advances in layered clays intercalated polymer nanohybrids. , 2019, , 197-218.		18
61	Colorimetric Detection of UO ₂ ²⁺ Using Gold Nanoparticles Immobilized with Pillar[5]arene Complexes with Nitrophenyldiacetic Acids as a Chemoprobe. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 2903-2908.	0.9	4
62	Novel in-situ synthesis of Au/SnO ₂ quantum dots for enhanced visible-light-driven photocatalytic applications. <i>Ceramics International</i> , 2019, 45, 5743-5750.	2.3	57
63	Enhanced photocatalytic degradation of lindane using metal-semiconductor Zn@ZnO and ZnO/Ag nanostructures. <i>Journal of Environmental Sciences</i> , 2018, 74, 107-115.	3.2	87
64	A Simple Naphthamido-based Fluorescent Chemoprobe for the Detection of Uranyl Ions. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 671-674.	1.0	1
65	Structural and luminescent properties of PVA capped ZnSe nanoparticles. <i>Materials Research Innovations</i> , 2018, 22, 37-42.	1.0	16
66	Enhanced photocatalytic activity of Au-doped Au@ZnO core-shell flower-like nanocomposites. <i>Journal of Alloys and Compounds</i> , 2018, 735, 2058-2066.	2.8	65
67	Enhanced Catalytic Dechlorination of 1,2-Dichlorobenzene Using Ni/Pd Bimetallic Nanoparticles Prepared by a Pulsed Laser Ablation in Liquid. <i>Catalysts</i> , 2018, 8, 390.	1.6	16
68	Pulsed laser irradiation synthesis of lead selenide quantum dots from lead and selenium salts in various surfactants. <i>Materials Chemistry and Physics</i> , 2018, 217, 427-436.	2.0	7
69	Optical and EPR studies of Cu ²⁺ doped SnO ₂ thin films by spray pyrolysis. <i>Materials Research Innovations</i> , 2017, 21, 102-105.	1.0	11
70	Structural and luminescent properties of Fe ³⁺ doped PVA capped CdTe nanoparticles. <i>Materials Science-Poland</i> , 2017, 35, 390-397.	0.4	1
71	Structural and electrical properties of TiO ₂ thin films. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	19
72	Luminescent properties of Mn ²⁺ doped apatite nanophosphors. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1

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73	Spectroscopic and luminescent properties of Co ²⁺ /doped tin oxide thin films by spray pyrolysis. AIMS Materials Science, 2016, 3, 796-807.	0.7	20
74	Spectral Investigations on Cu ²⁺ -doped Li ₂ CaAl ₄ (PO ₄) ₄ F ₄ Phosphors. Applied Magnetic Resonance, 2015, 46, 953-964.	0.6	4
75	EPR and Optical Studies of Fe ³⁺ -Doped Ca ²⁺ -Li Hydroxyapatite Nanopowder: Mechanochemical Synthesis. Applied Magnetic Resonance, 2015, 46, 1-15.	0.6	22
76	Structural and photoluminescence studies of Co ²⁺ doped Ca ²⁺ -Li hydroxyapatite nanopowders. Journal of Materials Science: Materials in Electronics, 2015, 26, 6667-6675.	1.1	10
77	Structural, optical and magnetic properties of Mn ²⁺ doped ZnO-CdS composite nanopowder. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 201, 72-78.	1.7	39
78	Optical and structural properties of undoped and Mn ²⁺ doped Ca ²⁺ -Li hydroxyapatite nanopowders using mechanochemical synthesis. Journal of Luminescence, 2015, 159, 119-127.	1.5	28
79	Structural, spectroscopic and magnetic characterization of undoped, Ni ²⁺ doped ZnO nanopowders. Journal of Magnetism and Magnetic Materials, 2014, 372, 79-85.	1.0	30
80	Sonochemical assisted synthesis and spectroscopic characterization of Fe ³⁺ doped ZnO diluted magnetic semiconductor. Journal of Materials Science: Materials in Electronics, 2014, 25, 4179-4186.	1.1	18
81	Spectral characterizations of undoped and Cu ²⁺ -doped CdO nanopowder. Journal of Molecular Structure, 2014, 1063, 178-183.	1.8	38
82	Physical properties of transition metal ions (Mn ²⁺ , Fe ³⁺ , Cu ²⁺) doped PVA capped ZnSe nanoparticles. , 2013, , .		0
83	Synthesis and applications of CdSe nanoparticles. AIP Conference Proceedings, 2013, , .	0.3	4
84	Preparation and applications of ZnSe nanoparticles. , 2013, , .		2
85	OPTICAL ABSORPTION BEHAVIOR OF Co (II) ION DOPED PVA ASSISTED CdSe NANOPARTICLES. International Journal of Modern Physics Conference Series, 2013, 22, 346-350.	0.7	0
86	Physical and spectral investigations of Mn ²⁺ ions doped poly vinyl alcohol capped ZnSe nanoparticles. Journal of Molecular Structure, 2011, 1006, 344-347.	1.8	30
87	LiNi _x Co _{1-x} O ₂ Cell Grown by Pulsed Laser Deposition. , 2011, , .		0
88	Variation of Thermodynamic Indices Over Four Stations of Bangladesh. Thalassas, 0, , 1.	0.1	1
89	An investigation over the effect of the reducing agent on the properties of the ZnO-reinforced Ni ²⁺ -P coatings. Journal of Materials Science: Materials in Electronics, 0, , 1.	1.1	3