

Virendra Kumar Yadav

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,519
citations

304368

22
h-index

395343

33
g-index

75
all docs

75
docs citations

75
times ranked

725
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on municipal solid waste as a renewable source for waste-to-energy project in India: Current practices, challenges, and future opportunities. <i>Journal of Cleaner Production</i> , 2020, 277, 123227.	4.6	176
2	Synthesis and Characterization of Amorphous Iron Oxide Nanoparticles by the Sonochemical Method and Their Application for the Remediation of Heavy Metals from Wastewater. <i>Nanomaterials</i> , 2020, 10, 1551.	1.9	81
3	Agro-Nanotechnology as an Emerging Field: A Novel Sustainable Approach for Improving Plant Growth by Reducing Biotic Stress. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2282.	1.3	56
4	Advances in the Methods for the Synthesis of Carbon Dots and Their Emerging Applications. <i>Polymers</i> , 2021, 13, 3190.	2.0	56
5	Seaweed-Based Molecules and Their Potential Biological Activities: An Eco-Sustainable Cosmetics. <i>Molecules</i> , 2021, 26, 5313.	1.7	49
6	Removal of Cadmium and Chromium by Mixture of Silver Nanoparticles and Nano-Fibrillated Cellulose Isolated from Waste Peels of Citrus Sinensis. <i>Polymers</i> , 2021, 13, 234.	2.0	48
7	Enhanced photocatalytic performance of ZnSnO ₃ /rGO nanocomposite. <i>Chemical Physics Letters</i> , 2020, 739, 137050.	1.2	42
8	The Processing of Calcium Rich Agricultural and Industrial Waste for Recovery of Calcium Carbonate and Calcium Oxide and Their Application for Environmental Cleanup: A Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4212.	1.3	40
9	Green synthesis and characterization of amorphous silica nanoparticles from fly ash. <i>Materials Today: Proceedings</i> , 2019, 18, 4351-4359.	0.9	39
10	Advances in Methods for Recovery of Ferrous, Alumina, and Silica Nanoparticles from Fly Ash Waste. <i>Ceramics</i> , 2020, 3, 384-420.	1.0	39
11	Recent Advances in Synthesis and Degradation of Lignin and Lignin Nanoparticles and Their Emerging Applications in Nanotechnology. <i>Materials</i> , 2022, 15, 953.	1.3	39
12	Biogenic synthesis of maghemite nanoparticles ($\hat{\gamma}$ -Fe ₂ O ₃) using Tridax leaf extract and its application for removal of fly ash heavy metals (Pb, Cd). <i>Materials Today: Proceedings</i> , 2018, 5, 20704-20710.	0.9	38
13	A novel synthesis and characterization of polyhedral shaped amorphous iron oxide nanoparticles from incense sticks ash waste. <i>Environmental Technology and Innovation</i> , 2020, 20, 101089.	3.0	35
14	Onion Peel Waste Mediated-Green Synthesis of Zinc Oxide Nanoparticles and Their Phytotoxicity on Mung Bean and Wheat Plant Growth. <i>Materials</i> , 2022, 15, 2393.	1.3	34
15	Emerging Trends in the Remediation of Persistent Organic Pollutants Using Nanomaterials and Related Processes: A Review. <i>Nanomaterials</i> , 2022, 12, 2148.	1.9	34
16	Recent Trends in Fascinating Applications of Nanotechnology in Allied Health Sciences. <i>Crystals</i> , 2022, 12, 39.	1.0	33
17	Variations and similarities in structural, chemical, and elemental properties on the ashes derived from the coal due to their combustion in open and controlled manner. <i>Environmental Science and Pollution Research</i> , 2021, 28, 32609-32625.	2.7	31
18	Recent and Emerging Trends in Remediation of Methylene Blue Dye from Wastewater by Using Zinc Oxide Nanoparticles. <i>Water (Switzerland)</i> , 2022, 14, 1749.	1.2	29

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19	Nanostructured Antibiotics and Their Emerging Medicinal Applications: An Overview of Nanoantibiotics. <i>Antibiotics</i> , 2022, 11, 708.	1.5	28
20	Cytotoxicity, Removal of Congo Red Dye in Aqueous Solution Using Synthesized Amorphous Iron Oxide Nanoparticles from Incense Sticks Ash Waste. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-12.	1.5	26
21	Enriched Catalytic Activity of TiO ₂ Nanoparticles Supported by Activated Carbon for Noxious Pollutant Elimination. <i>Nanomaterials</i> , 2021, 11, 2808.	1.9	25
22	Implementation of ZnSnO ₃ nanosheets and their RE (Er, Eu, and Pr) materials: Enhanced photocatalytic activity. <i>Advanced Powder Technology</i> , 2020, 31, 1209-1219.	2.0	24
23	Recent Advances in Methods for the Recovery of Carbon Nanominerals and Polyaromatic Hydrocarbons from Coal Fly Ash and Their Emerging Applications. <i>Crystals</i> , 2021, 11, 88.	1.0	24
24	Application of Green Synthesized MMT/Ag Nanocomposite for Removal of Methylene Blue from Aqueous Solution. <i>Water (Switzerland)</i> , 2021, 13, 3206.	1.2	23
25	Global popularization of CuNiO ₂ and their rGO nanocomposite loveabled to the photocatalytic properties of methylene blue. <i>Environmental Research</i> , 2022, 204, 112338.	3.7	21
26	Synthesis and effective performance of Photocatalytic and Antimicrobial activities of Bauhinia tomentosa Linn plants using of gold nanoparticles. <i>Optical Materials</i> , 2022, 123, 111945.	1.7	20
27	Recent Advances in Methods for Recovery of Cenospheres from Fly Ash and Their Emerging Applications in Ceramics, Composites, Polymers and Environmental Cleanup. <i>Crystals</i> , 2021, 11, 1067.	1.0	19
28	Health and Environmental Risks of Incense Smoke: Mechanistic Insights and Cumulative Evidence. <i>Journal of Inflammation Research</i> , 2022, Volume 15, 2665-2693.	1.6	19
29	Extraction of Value-Added Minerals from Various Agricultural, Industrial and Domestic Wastes. <i>Materials</i> , 2021, 14, 6333.	1.3	17
30	Characterization of Fatty Acids, Polysaccharides, Amino Acids, and Minerals in Marine Macroalga <i>Chaetomorpha crassa</i> and Evaluation of Their Potentials in Skin Cosmetics. <i>Molecules</i> , 2021, 26, 7515.	1.7	16
31	New construction of Fe ₃ O ₄ /rGO/ZnSnO ₃ nanocomposites enhanced photoelectro chemical properties. <i>Optical Materials</i> , 2020, 109, 110353.	1.7	15
32	Nanobioremediation: A sustainable approach towards the degradation of sodium dodecyl sulfate in the environment and simulated conditions. <i>Journal of Basic Microbiology</i> , 2022, 62, 348-360.	1.8	15
33	Realization of rGO/ZnCo ₂ O ₄ nanocomposites enhanced for the antimicrobial, electrochemical and photocatalytic activities. <i>Diamond and Related Materials</i> , 2021, 120, 108677.	1.8	15
34	Synthesis and Characterization of Mullites From Silicoaluminous Fly Ash Waste. <i>International Journal of Applied Nanotechnology Research</i> , 2020, 5, 10-25.	1.1	14
35	Experimental and Computational Approaches for the Structural Study of Novel Ca-Rich Zeolites from Incense Stick Ash and Their Application for Wastewater Treatment. <i>Adsorption Science and Technology</i> , 2021, 2021, 1-12.	1.5	14
36	A novel and efficient method for the synthesis of amorphous nanosilica from fly ash tiles. <i>Materials Today: Proceedings</i> , 2020, 26, 701-705.	0.9	13

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37	Recent Advances on Properties and Utility of Nanomaterials Generated from Industrial and Biological Activities. <i>Crystals</i> , 2021, 11, 634.	1.0	13
38	Transformation of hazardous sacred incense sticks ash waste into less toxic product by sequential approach prior to their disposal into the water bodies. <i>Environmental Science and Pollution Research</i> , 2023, 30, 71766-71778.	2.7	13
39	The Current Scenario of Indian Incense Sticks Market and Their Impact on the Indian Economy. <i>Indian Journal of Pure & Applied Biosciences</i> , 2020, 8, 627-636.	0.1	13
40	A Short Review on the Utilization of Incense Sticks Ash as an Emerging and Overlooked Material for the Synthesis of Zeolites. <i>Crystals</i> , 2021, 11, 1255.	1.0	13
41	Trigger action of copper aminophosphate (X-CuAP) nanoparticles for enhanced electrochemical, photocatalyst and biological properties. <i>Optical Materials</i> , 2021, 117, 111113.	1.7	12
42	Microbial Synthesis of Nanoparticles and Their Applications for Wastewater Treatment. <i>Environmental and Microbial Biotechnology</i> , 2020, , 147-187.	0.4	12
43	A Noble and Economical Method for the Synthesis of Low Cost Zeolites From Coal Fly Ash Waste. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 301-319.	0.8	11
44	Study of photoluminescence and nonlinear optical behaviour of AgCu nanoparticles for nanophotonics. <i>Nano Structures Nano Objects</i> , 2021, 28, 100807.	1.9	11
45	Recovery of iron nanominerals from sacred incense sticks ash waste collected from temples by wet and dry magnetic separation method. <i>Environmental Technology and Innovation</i> , 2022, 25, 102150.	3.0	11
46	Well organized assembly of (X)- CuSnO ₃ nanoparticles enhanced photocatalytic and anti-bacterial properties. <i>Journal of Water Process Engineering</i> , 2020, 36, 101258.	2.6	10
47	Remediation of Azure A Dye from Aqueous Solution by Using Surface-Modified Coal Fly Ash Extracted Ferrospheres by Mineral Acids and Toxicity Assessment. <i>Adsorption Science and Technology</i> , 2022, ,	1.5	10
48	Fabrication of different SnO ₂ nanorods for enhanced photocatalytic degradation and antibacterial activity. <i>Environmental Science and Pollution Research</i> , 2023, 30, 71574-71584.	2.7	9
49	INCENSE AND INCENSE STICKS: TYPES, COMPONENTS, ORIGIN AND THEIR RELIGIOUS BELIEFS AND IMPORTANCE AMONG DIFFERENT RELIGIONS. <i>Journal of Bio Innovation</i> , 2020, 9, 1420-1439.	0.0	9
50	Modified 7-Chloro-11H-indeno[1,2-b]quinoxaline Heterocyclic System for Biological Activities. <i>Catalysts</i> , 2022, 12, 213.	1.6	9
51	Utilization of Incense Stick Ash in Hydrometallurgy Methods for Extracting Oxides of Fe, Al, Si, and Ca. <i>Materials</i> , 2022, 15, 1879.	1.3	9
52	New designing (NH ₄) ₂ SiP ₄ O ₁₃ nanowires and effective photocatalytic degradation of Malachite green and antimicrobial properties. <i>Chemical Physics Letters</i> , 2022, 803, 139817.	1.2	9
53	A series of ZnCo ₂ O ₄ /rGO/Pt nanocubes with excellent photocatalytic activity towards visible light. <i>Chemical Physics Letters</i> , 2020, 759, 137988.	1.2	8
54	A new CuZr ₂ S ₄ /rGO and their reduced graphene oxide nanocomposites enhanced photocatalytic and antimicrobial activities. <i>Chemical Physics Letters</i> , 2021, 781, 139011.	1.2	8

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55	Synthesis and Characterisation of Nano-Biosorbents and Their Applications for Waste Water Treatment. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2020, , 252-290.	0.3	8
56	Recovery of Natural Nanostructured Minerals. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2020, , 450-470.	0.3	8
57	Advanced Oxidation Processes for Wastewater Remediation: An Overview. , 2021, , 71-93.		8
58	A Brief Review of the Essential Role of Nanovehicles for Improving the Therapeutic Efficacy of Pharmacological Agents Against Tumours. <i>Current Drug Delivery</i> , 2022, 19, 301-316.	0.8	7
59	New orchestrated of X-CuTiAP (en, trien, ETA and DMA) nanospheres with enhanced photocatalytic and antimicrobial activities. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 110, 503-519.	2.9	7
60	Determination of Adsorption of Methylene Blue Dye by Incense Stick Ash Waste and Its Toxicity on RTG-2 Cells. <i>Adsorption Science and Technology</i> , 2022, 2022, .	1.5	7
61	2D Personality of Multifunctional Carbon Nitrides towards Enhanced Catalytic Performance in Energy Storage and Remediation. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3753.	1.3	6
62	Fly Ash Properties and Their Applications as a Soil Ameliorant. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2019, , 59-89.	0.3	5
63	A Synergistic Effect of <i>Moringa oleifera</i> -Based Coagulant and Ultrafiltration for the Wastewater Treatment Collected from Final ETP. <i>Adsorption Science and Technology</i> , 2022, 2022, .	1.5	5
64	New modification of (Platinum aminophosphate) nanoparticles surface: Superior photocatalytic properties and antimicrobial applications. <i>Current Research in Green and Sustainable Chemistry</i> , 2021, 4, 100148.	2.9	4
65	New development and photocatalytic performance and antimicrobial activity of $\hat{1}\pm\text{-NH}_4(\text{VO}_2)(\text{HPO}_4)$ nanosheets. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 276, 121250.	2.0	4
66	Enhanced Plasmon Based Ag and Au Nanosystems and Their Improved Biomedical Impacts. <i>Crystals</i> , 2022, 12, 589.	1.0	4
67	BENEFICIAL EFFECTS OF MARINE ALGAE IN SKIN MOISTURIZATION AND PHOTOPROTECTION. <i>International Journal of Pharmaceutical Science and Health Care</i> , 0, , .	0.0	3
68	Influence of precursor ions on the structural morphological and optical properties of ZnO nanostructure and cytotoxicity on murine NIH 3T3 cells. <i>Chemical Papers</i> , 0, , 1.	1.0	2
69	Functionalized Microbial Consortia with Silver-Doped Hydroxyapatite (Ag@HAp) Nanostructures for Removal of RO84 from Industrial Effluent. <i>Crystals</i> , 2022, 12, 970.	1.0	2
70	Development of Heat Storage Device Assisted with Heat Pipe. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 103-112.	0.3	0