

# 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	Fabrication of different SnO <sub>2</sub> nanorods for enhanced photocatalytic degradation and antibacterial activity. <i>Environmental Science and Pollution Research</i> , 2023, 30, 71574-71584.	2.7	9
2	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
3	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
4	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
5	Development of Heat Storage Device Assisted with Heat Pipe. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 103-112.	0.3	0
6	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
7	Global popularization of CuNiO <sub>2</sub> and their rGO nanocomposite loaded to the photocatalytic properties of methylene blue. <i>Environmental Research</i> , 2022, 204, 112338.	3.7	21
8	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
9	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
10	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
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	Recent Trends in Fascinating Applications of Nanotechnology in Allied Health Sciences. <i>Crystals</i> , 2022, 12, 39.	1.0	33
13	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
14	Modified 7-Chloro-11H-indeno[1,2-b]quinoxaline Heterocyclic System for Biological Activities. <i>Catalysts</i> , 2022, 12, 213.	1.6	9
15	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
16	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
17	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
18	New development and photocatalytic performance and antimicrobial activity of $\text{In}^{\pm}\text{-NH}_4(\text{VO}_2)(\text{HPO}_4)$ nanosheets. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 276, 121250.	2.0	4

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19	2D Personality of Multifunctional Carbon Nitrides towards Enhanced Catalytic Performance in Energy Storage and Remediation. Applied Sciences (Switzerland), 2022, 12, 3753.	1.3	6
20	Enhanced Plasmon Based Ag and Au Nanosystems and Their Improved Biomedical Impacts. Crystals, 2022, 12, 589.	1.0	4
21	Health and Environmental Risks of Incense Smoke: Mechanistic Insights and Cumulative Evidence. Journal of Inflammation Research, 2022, Volume 15, 2665-2693.	1.6	19
22	Nanostructured Antibiotics and Their Emerging Medicinal Applications: An Overview of Nanoantibiotics. Antibiotics, 2022, 11, 708.	1.5	28
23	Determination of Adsorption of Methylene Blue Dye by Incense Stick Ash Waste and Its Toxicity on RTG-2 Cells. Adsorption Science and Technology, 2022, 2022, .	1.5	7
24	Recent and Emerging Trends in Remediation of Methylene Blue Dye from Wastewater by Using Zinc Oxide Nanoparticles. Water (Switzerland), 2022, 14, 1749.	1.2	29
25	A Synergistic Effect of <i>Moringa oleifera</i> -Based Coagulant and Ultrafiltration for the Wastewater Treatment Collected from Final ETP. Adsorption Science and Technology, 2022, 2022, .	1.5	5
26	Emerging Trends in the Remediation of Persistent Organic Pollutants Using Nanomaterials and Related Processes: A Review. Nanomaterials, 2022, 12, 2148.	1.9	34
27	Functionalized Microbial Consortia with Silver-Doped Hydroxyapatite (Ag@HAp) Nanostructures for Removal of RO84 from Industrial Effluent. Crystals, 2022, 12, 970.	1.0	2
28	New designing (NH <sub>4</sub> ) <sub>2</sub> SiP <sub>4</sub> O <sub>13</sub> nanowires and effective photocatalytic degradation of Malachite green and antimicrobial properties. Chemical Physics Letters, 2022, 803, 139817.	1.2	9
29	Removal of Cadmium and Chromium by Mixture of Silver Nanoparticles and Nano-Fibrillated Cellulose Isolated from Waste Peels of Citrus Sinensis. Polymers, 2021, 13, 234.	2.0	48
30	New modification of (Platinum aminophosphate) nanoparticles surface: Superior photocatalytic properties and antimicrobial applications. Current Research in Green and Sustainable Chemistry, 2021, 4, 100148.	2.9	4
31	Recent Advances in Methods for the Recovery of Carbon Nanominerals and Polyaromatic Hydrocarbons from Coal Fly Ash and Their Emerging Applications. Crystals, 2021, 11, 88.	1.0	24
32	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. Environmental Science and Pollution Research, 2021, 28, 32609-32625.	2.7	31
33	Agro-Nanotechnology as an Emerging Field: A Novel Sustainable Approach for Improving Plant Growth by Reducing Biotic Stress. Applied Sciences (Switzerland), 2021, 11, 2282.	1.3	56
34	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. Applied Sciences (Switzerland), 2021, 11, 4212.	1.3	40
35	Recent Advances on Properties and Utility of Nanomaterials Generated from Industrial and Biological Activities. Crystals, 2021, 11, 634.	1.0	13
36	Trigger action of copper aminophosphate (X-CuAP) nanoparticles for enhanced electrochemical, photocatalyst and biological properties. Optical Materials, 2021, 117, 111113.	1.7	12

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37	Advances in the Methods for the Synthesis of Carbon Dots and Their Emerging Applications. <i>Polymers</i> , 2021, 13, 3190.	2.0	56
38	Seaweed-Based Molecules and Their Potential Biological Activities: An Eco-Sustainable Cosmetics. <i>Molecules</i> , 2021, 26, 5313.	1.7	49
39	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
40	A new CuZr2S4/rGO and their reduced graphene oxide nanocomposites enhanced photocatalytic and antimicrobial activities. <i>Chemical Physics Letters</i> , 2021, 781, 139011.	1.2	8
41	Enriched Catalytic Activity of TiO2 Nanoparticles Supported by Activated Carbon for Noxious Pollutant Elimination. <i>Nanomaterials</i> , 2021, 11, 2808.	1.9	25
42	Extraction of Value-Added Minerals from Various Agricultural, Industrial and Domestic Wastes. <i>Materials</i> , 2021, 14, 6333.	1.3	17
43	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
44	Realization of rGO/ZnCo2O4 nanocomposites enhanced for the antimicrobial, electrochemical and photocatalytic activities. <i>Diamond and Related Materials</i> , 2021, 120, 108677.	1.8	15
45	Advanced Oxidation Processes for Wastewater Remediation: An Overview. , 2021, , 71-93.		8
46	Study of photoluminescence and nonlinear optical behaviour of AgCu nanoparticles for nanophotonics. <i>Nano Structures Nano Objects</i> , 2021, 28, 100807.	1.9	11
47	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
48	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
49	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
50	Implementation of ZnSnO3 nanosheets and their RE (Er, Eu, and Pr) materials: Enhanced photocatalytic activity. <i>Advanced Powder Technology</i> , 2020, 31, 1209-1219.	2.0	24
51	Enhanced photocatalytic performance of ZnSnO3/rGO nanocomposite. <i>Chemical Physics Letters</i> , 2020, 739, 137050.	1.2	42
52	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
53	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
54	New construction of Fe3O4/rGO/ZnSnO3 nanocomposites enhanced photoelectro chemical properties. <i>Optical Materials</i> , 2020, 109, 110353.	1.7	15

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55	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
56	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
57	A series of ZnCo <sub>2</sub> O <sub>4</sub> /rGO/Pt nanocubes with excellent photocatalytic activity towards visible light. <i>Chemical Physics Letters</i> , 2020, 759, 137988.	1.2	8
58	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
59	Well organized assembly of (X)- CuSnO <sub>3</sub> nanoparticles enhanced photocatalytic and anti-bacterial properties. <i>Journal of Water Process Engineering</i> , 2020, 36, 101258.	2.6	10
60	Microbial Synthesis of Nanoparticles and Their Applications for Wastewater Treatment. <i>Environmental and Microbial Biotechnology</i> , 2020, , 147-187.	0.4	12
61	The Current Scenario of Indian Incense Sticks Market and Their Impact on the Indian Economy. <i>Indian Journal of Pure &amp; Applied Biosciences</i> , 2020, 8, 627-636.	0.1	13
62	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
63	Recovery of Natural Nanostructured Minerals. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2020, , 450-470.	0.3	8
64	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
65	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
66	Green synthesis and characterization of amorphous silica nanoparticles from fly ash. <i>Materials Today: Proceedings</i> , 2019, 18, 4351-4359.	0.9	39
67	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
68	Biogenic synthesis of maghemite nanoparticles ( $\hat{\text{I}}^3\text{-Fe}_2\text{O}_3$ ) 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
69	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
70	BENEFICIAL EFFECTS OF MARINE ALGAE IN SKIN MOISTURIZATION AND PHOTOPROTECTION. <i>International Journal of Pharmaceutical Science and Health Care</i> , 0, , .	0.0	3