

List of Publications by Citations

Source: <https://exaly.com/author-pdf/209436/k-karthik-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107 papers	2,214 citations	30 h-index	43 g-index
126 ext. papers	2,893 ext. citations	2.8 avg, IF	6.12 L-index

#	Paper	IF	Citations
107	Nanostructured metal oxides and its hybrids for photocatalytic and biomedical applications. <i>Advances in Colloid and Interface Science</i> , 2020 , 281, 102178	14.3	118
106	Fabrication of MgO nanostructures and its efficient photocatalytic, antibacterial and anticancer performance. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019 , 190, 8-20	6.7	117
105	Multifunctional properties of microwave assisted CdO/NiO/ZnO mixed metal oxide nanocomposite: enhanced photocatalytic and antibacterial activities. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 5459-5471	2.1	103
104	Nanostructured CdO-NiO composite for multifunctional applications. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 112, 106-118	3.9	70
103	Microwave-assisted synthesis of CdO-ZnO nanocomposite and its antibacterial activity against human pathogens. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 139, 7-12	4.4	67
102	Facile microwave-assisted green synthesis of NiO nanoparticles from <i>Andrographis paniculata</i> leaf extract and evaluation of their photocatalytic and anticancer activities. <i>Molecular Crystals and Liquid Crystals</i> , 2018 , 673, 70-80	0.5	66
101	New closed tube loop mediated isothermal amplification assay for prevention of product cross-contamination. <i>MethodsX</i> , 2014 , 1, 137-43	1.9	65
100	Effect of Immunomodulation and Immunomodulatory Agents on Health with some Bioactive Principles, Modes of Action and Potent Biomedical Applications. <i>International Journal of Pharmacology</i> , 2015 , 11, 253-290	0.7	56
99	Structural studies of bio-mediated NiO nanoparticles for photocatalytic and antibacterial activities. <i>Inorganic Chemistry Communication</i> , 2020 , 113, 107755	3.1	53
98	Temperature-dependent magnetic anomalies of CuO nanoparticles. <i>Solid State Communications</i> , 2011 , 151, 564-568	1.6	49
97	Microwave assisted green synthesis of MgO nanorods and their antibacterial and anti-breast cancer activities. <i>Materials Letters</i> , 2017 , 206, 217-220	3.3	48
96	Photocatalytic and antibacterial activities of hydrothermally prepared CdO nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 11420-11429	2.1	45
95	Multifunctional Applications of Microwave-Assisted Biogenic TiO ₂ Nanoparticles. <i>Journal of Cluster Science</i> , 2019 , 30, 965-972	3	45
94	Ultrasound-assisted Ta ₂ O ₅ nanoparticles and their photocatalytic and biological applications. <i>Microchemical Journal</i> , 2019 , 147, 749-754	4.8	45
93	Ultrasonic-assisted CdO/MgO nanocomposite for multifunctional applications. <i>Materials Technology</i> , 2019 , 34, 403-414	2.1	44
92	Bio-engineered TiO ₂ nanoparticles using <i>Ledebouria revoluta</i> extract: Larvicidal, histopathological, antibacterial and anticancer activity. <i>International Journal of Environmental Analytical Chemistry</i> , 2020 , 1-11	1.8	43
91	Microwave-assisted green synthesis of SnO ₂ nanoparticles and their optical and photocatalytic properties. <i>Molecular Crystals and Liquid Crystals</i> , 2018 , 671, 17-23	0.5	43

90	Microwave assisted CdO/ZnO/MgO nanocomposite and its photocatalytic and antibacterial studies. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 18519-18530	2.1	43
89	Multifunctional properties of CdO nanostructures Synthesised through microwave assisted hydrothermal method. <i>Materials Research Innovations</i> , 2019 , 23, 310-318	1.9	40
88	Andrographis paniculata extract mediated green synthesis of CdO nanoparticles and its electrochemical and antibacterial studies. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 7991-8001	2.1	39
87	Current Trends in MXene-Based Nanomaterials for Energy Storage and Conversion System: A Mini Review. <i>Catalysts</i> , 2020 , 10, 495	4	39
86	Structural and biological properties with enhanced photocatalytic behaviour of CdO-MgO nanocomposite by microwave-assisted method. <i>Optik</i> , 2020 , 204, 164221	2.5	39
85	Facile fabrication of CuO nanoparticles via microwave-assisted method: photocatalytic, antimicrobial and anticancer enhancing performance. <i>International Journal of Environmental Analytical Chemistry</i> , 2020 , 1-14	1.8	38
84	Microwave-Assisted ZrO ₂ Nanoparticles and Its Photocatalytic and Antibacterial Studies. <i>Journal of Cluster Science</i> , 2019 , 30, 311-318	3	37
83	Ultrasound-assisted synthesis of V ₂ O ₅ nanoparticles for photocatalytic and antibacterial studies. <i>Materials Research Innovations</i> , 2020 , 24, 229-234	1.9	37
82	Photocatalytic, antibacterial and electrochemical properties of novel rare earth metal oxides-based nanohybrids. <i>Materials Science for Energy Technologies</i> , 2020 , 3, 853-861	5.2	36
81	Removal of metronidazole from wastewater by Fe/charcoal micro electrolysis fluidized bed reactor. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103457	6.8	34
80	Fabrication of ZnO-Fe-MXene Based Nanocomposites for Efficient CO ₂ Reduction. <i>Catalysts</i> , 2020 , 10, 549	4	33
79	Effect of pH on Phase, Morphology and Photocatalytic Properties of BiOBr Synthesized by Hydrothermal Method. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 714-721	3.2	33
78	Biocompatible Carbon Quantum Dots Derived from Sugarcane Industrial Wastes for Effective Nonlinear Optical Behavior and Antimicrobial Activity Applications. <i>ACS Omega</i> , 2020 , 5, 30363-30372	3.9	30
77	Synthesis of Ag/Bi ₂ MoO ₆ Nanocomposites Using NaBH ₄ as Reducing Agent for Enhanced Visible-Light-Driven Photocatalysis of Rhodamine B. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 322-329	3.2	28
76	Synthesis and Characterization Ag Nanoparticles Supported on Bi ₂ WO ₆ Nanoplates for Enhanced Visible-Light-Driven Photocatalytic Degradation of Rhodamine B. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 1033-1040	3.2	28
75	Physico-chemical properties and antibacterial activity of Hexakis (Thiocarbamide) Nickel(II) nitrate single crystal. <i>Chemical Data Collections</i> , 2019 , 21, 100229	2.1	27
74	Facile microwave-assisted synthesis of metal oxide CdO-CuO nanocomposite: Photocatalytic and antimicrobial enhancing properties. <i>Optik</i> , 2020 , 218, 165112	2.5	27
73	Enhanced Corrosion Protection of Epoxy/ZnO-NiO Nanocomposite Coatings on Steel. <i>Coatings</i> , 2020 , 10, 783	2.9	27

72	Bioengineered silver nanoparticles using <i>Elytraria acaulis</i> (L.f.) Lindau leaf extract and its biological applications. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020 , 27, 101690	4.2	24
71	Influence of nanotechnology to combat against COVID-19 for global health emergency: A review. <i>Sensors International</i> , 2021 , 2, 100079	6.1	24
70	Influence of Sn and Mn on structural, optical and magnetic properties of spray pyrolysed CdS thin films. <i>Materials Research Innovations</i> , 2020 , 24, 82-86	1.9	23
69	Structural, optical and magnetic behaviors of Fe/Mn-doped and co-doped CdS thin films prepared by spray pyrolysis method. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	22
68	Study on the electrochemical performance of ZnO nanoparticles synthesized via non-aqueous sol-gel route for supercapacitor applications. <i>Materials Research Express</i> , 2019 , 6, 105525	1.7	21
67	Effect of Mg/Co on the properties of CdS thin films deposited by spray pyrolysis technique. <i>Current Applied Physics</i> , 2019 , 19, 1136-1144	2.6	21
66	Dielectric and antibacterial studies of microwave assisted calcium hydroxide nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 16509-16518	2.1	20
65	Preparation of novel chitosan polymeric nanocomposite as an efficient material for the removal of Acid Blue 25 from aqueous environment. <i>International Journal of Biological Macromolecules</i> , 2021 , 168, 760-768	7.9	19
64	Structural and optical properties of microwave assisted CdO-NiO nanocomposite 2016 ,		18
63	Investigations on the enhanced photocatalytic activity of (Ag, La) substituted nickel cobaltite spinels. <i>Solid State Sciences</i> , 2019 , 98, 105992	3.4	17
62	Current Trends in the Application of Nanomaterials for the Removal of Pollutants from Industrial Wastewater Treatment-A Review. <i>Molecules</i> , 2021 , 26,	4.8	16
61	Microwave-assisted V2O5 nanoflowers for efficient lithium-ion battery. <i>Materials Research Innovations</i> , 2019 , 1-5	1.9	15
60	Hibiscus subdariffa leaf extract mediated 2-D fern-like ZnO/TiO2 hierarchical nanoleaf for photocatalytic degradation. <i>FlatChem</i> , 2020 , 24, 100197	5.1	15
59	CdS-sensitized single-crystalline TiO2 nanorods and polycrystalline nanotubes for solar hydrogen generation. <i>Journal of Materials Research</i> , 2013 , 28, 418-423	2.5	14
58	Photocatalytic and antimicrobial properties of microwave synthesized mixed metal oxide nanocomposite. <i>Inorganic Chemistry Communication</i> , 2021 , 125, 108429	3.1	14
57	Bioinspired fluorescence carbon quantum dots extracted from natural honey: Efficient material for photonic and antibacterial applications. <i>Nano Structures Nano Objects</i> , 2020 , 24, 100589	5.6	13
56	Fluorescent carbon quantum dots from Ananas comosus waste peels: A promising material for NLO behaviour, antibacterial, and antioxidant activities. <i>Inorganic Chemistry Communication</i> , 2021 , 124, 108397	3.1	11
55	Facile low-temperature synthesis and application of La _{0.85} Sr _{0.15} Co _{0.85} Fe _{0.15} O _{3-δ} as superior cathode for LT-SOFCs using C-TAB as surfactant. <i>Materials Research Innovations</i> , 2020 , 24, 395-401	1.9	10

54	Cost-effective method of Co-doped rare-earth-based ceria (Y-CGO) nanocomposite as electrolyte for LT-SOFCs using C-TAB as surfactant. <i>Materials Research Innovations</i> , 2020 , 24, 414-421	1.9	10
53	Facile synthesis of NiO-CYSO nanocomposite for photocatalytic and antibacterial applications. <i>Inorganic Chemistry Communication</i> , 2020 , 122, 108307	3.1	10
52	Tartaric acid-assisted precipitation of visible light-driven Ce-doped ZnO nanoparticles used for photodegradation of methylene blue. <i>Journal of the Australian Ceramic Society</i> , 2020 , 56, 1029-1041	1.5	9
51	Non-Invasive Diabetic Sensor Based on Cellulose Acetate/Graphene Nanocomposite. <i>Macromolecular Symposia</i> , 2020 , 392, 2000024	0.8	9
50	Growth, spectral, optical, thermal, electrical, mechanical and etching studies of organic single crystal: l-histidinium l-tartrate hemihydrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 17323-17332	2.1	8
49	Antibacterial activity and physico-chemical properties of metal-organic single crystal: Zinc (Tris) thiourea chloride. <i>Chemical Data Collections</i> , 2019 , 24, 100279	2.1	8
48	Effect of annealing on the structural, morphological, optical and electrical properties of Al-Zn co-doped SnO ₂ thin films. <i>Materials Research Innovations</i> , 2020 , 24, 193-201	1.9	8
47	Polymers in electronics 2020 , 365-392		7
46	A simple chemical precipitation of ceria based (Sm doped-CGO) nanocomposite: structural and electrolytic behaviour for LT-SOFCs. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	7
45	Synthesis and Crystal Structure of a New Binuclear Copper(II) Carboxylate Complex as a Precursor for Copper(II) Oxide Nanoparticles. <i>Journal of Structural Chemistry</i> , 2019 , 60, 1126-1132	0.9	7
44	Effect of cerium on electrochemical properties of V ₂ O ₅ nanoparticles synthesized via non-aqueous sol-gel technique. <i>Ionics</i> , 2020 , 26, 905-912	2.7	7
43	Bioengineered metal and metal oxide nanoparticles for photocatalytic and biological applications: A review. <i>Physics and Chemistry of Solid State</i> , 2020 , 21, 571-583	1.9	6
42	Influence of erbium, chromium-doped: Yttrium scandium-gallium-garnet laser etching and traditional etching systems on depth of resin penetration in enamel: A confocal laser scanning electron microscope study. <i>Journal of Pharmacy and Bioallied Sciences</i> , 2015 , 7, S616-22	1.1	6
41	Investigations on structural, optical, dielectric, electronic polarizability, Z-scan and antibacterial properties of Ni/Zn/Fe ₂ O ₄ nanoparticles fabricated by microwave-assisted combustion method. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 402, 112794	4.7	6
40	Optimization of TiO ₂ -P25 photocatalyst dose and HO concentration for advanced photo-oxidation using smartphone-based colorimetry. <i>Water Science and Technology</i> , 2021 , 84, 469-483	2.2	6
39	Y ³⁺ and Sm ³⁺ co-doped mixed metal oxide nanocomposite: Structural, electrochemical, photocatalytic, and antibacterial properties. <i>Applied Surface Science Advances</i> , 2021 , 4, 100085	2.6	6
38	Structural and functional properties of rare earth-based (NiO-CGO) nanocomposite produced by effective multiple doping approach via co-precipitation. <i>Materials Technology</i> , 2021 , 36, 296-307	2.1	6
37	Detailed study on reduction of hazardous Cr(VI) at acidic pH using modified montmorillonite Fe(II)-Mt under ambient conditions. <i>Research on Chemical Intermediates</i> , 2019 , 45, 2357-2368	2.8	5

36	CdS-sensitized TiO ₂ photoelectrodes for quantum dots-based solar cells. <i>Journal of Materials Research</i> , 2013 , 28, 497-501	2.5	5
35	Apoptosis and Other Alternate Mechanisms of Cell Death. <i>Asian Journal of Animal and Veterinary Advances</i> , 2015 , 10, 646-668	0.1	5
34	Indonesian Kaolin supported nZVI (IK-nZVI) used for the an efficient removal of Pb(II) from aqueous solutions: Kinetics, thermodynamics and mechanism. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106483	6.8	5
33	OLIVE MILL WASTEWATER (OMW) TREATMENT BY HYBRID PROCESSES OF ELECTROCOAGULATION/CATALYTIC OZONATION AND BIODEGRADATION. <i>Environmental Engineering and Management Journal</i> , 2020 , 19, 1401-1410	0.6	4
32	A polyaniline-coated ZnS/ZnO/FTO photoelectrode for improving photocorrosion prevention and visible light absorption. <i>New Journal of Chemistry</i> , 2019 , 43, 16699-16705	3.6	4
31	Experimental and Theoretical Studies of Green Synthesized CuO Nanoparticles Using Datura Metel L.. <i>Journal of Fluorescence</i> , 2022 , 32, 559	2.4	3
30	Structural, morphological and optical studies of sol-gel engineered Sm ³⁺ activated ZnO thin films for photocatalytic applications. <i>Physics and Chemistry of Solid State</i> , 2020 , 21, 433-439	1.9	3
29	Degradation of p-nitroaniline from aqueous solutions using ozonation/Mg-Al layered double hydroxides integrated with the sequencing batch moving bed biofilm reactor. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020 , 113, 241-252	5.3	3
28	Enhanced Photocatalytic and Antibacterial Activities of ZnSe Nanoparticles. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 4390	3.2	3
27	Green synthesis of Phenothiazinium Schiff base and its nano silver complex using egg white as a catalyst under solvent free condition. <i>Materials Today: Proceedings</i> , 2021 ,	1.4	3
26	Functionalization and partial grafting of the reduced graphene oxide with p-phenylenediamine: An adsorption and photodegradation studies. <i>FlatChem</i> , 2021 , 26, 100210	5.1	3
25	Metal-Doped Graphitic Carbon Nitride Nanomaterials for Photocatalytic Environmental ApplicationsA Review. <i>Nanomaterials</i> , 2022 , 12, 1754	5.4	3
24	New camphor hybrids: lipophilic enhancement improves antimicrobial efficacy against drug-resistant pathogenic microbes and intestinal worms. <i>Medicinal Chemistry Research</i> , 2018 , 27, 1728-1739	2.2	2
23	Facile fabrication of novel ceria-based nanocomposite (CYO-CSO) via co-precipitation: Electrochemical, photocatalytic and antibacterial performances. <i>Journal of Molecular Structure</i> , 2022 , 1256, 132519	3.4	2
22	Synthesis, Characterisation, and Antimicrobial Efficacy of Acid Fuchsin Schiff Base-Modified Silver Nanoparticles. <i>Nanotechnologies in Russia</i> , 2020 , 15, 828-836	0.6	2
21	Crystal growth and characterization of Benzimidazolium salicylate single crystal for nonlinear optical studies and antibacterial activity. <i>Physics and Chemistry of Solid State</i> , 2020 , 21, 377-389	1.9	2
20	Solvothermal/Hydrothermal Manufacturing of Carbon Nanotubes for Hydrogen storage: A Comparative Study. <i>Physics and Chemistry of Solid State</i> , 2020 , 21, 700-706	1.9	2
19	Electrical and Electrochemical Characteristics of Withania somnifera Leaf Extract Incorporation Sodium Alginate Polymer Film for Energy Storage Applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022 , 32, 583	3.2	2

18	Nanocellulose-based materials/composites for sensors 2021 , 185-214		2
17	Review of photocatalytic and antimicrobial properties of metal oxide nanoparticles. <i>Physics and Chemistry of Solid State</i> , 2021 , 22, 5-15	1.9	2
16	Investigation on nonlinear optical and antibacterial properties of organic single crystal: p-Toluidinium L-Tartrate. <i>Chemical Data Collections</i> , 2021 , 31, 100640	2.1	2
15	Rational Synthesis of Mixed Metal Oxide Clusters Supported on a Partially Etched MAX Phase for Efficient Electrocatalytic CO ₂ Conversion. <i>Topics in Catalysis</i> ,1	2.3	1
14	Synthesis and Characterization of Undoped and Mn-Doped Copper Oxide Nanoparticles. <i>Macromolecular Symposia</i> , 2021 , 400, 2100122	0.8	1
13	Photocatalytic degradation of dyes by cobalt ferrite nanoparticles synthesized by sol-gel method 2020 ,		1
12	Larvicidal and histopathology effect of endophytic fungal extracts of and. <i>Heliyon</i> , 2020 , 6, e05331	3.6	1
11	Metal-to-Semimetal Transition in Platinum Nanotubes: Dependence on Thickness. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2183-2190	6.4	1
10	Heterostructure of polyoxometalate/zinc-iron-oxide nanoplates as an outstanding bifunctional electrocatalyst for the hydrogen and oxygen evolution reaction.. <i>Journal of Colloid and Interface Science</i> , 2022 , 618, 419-430	9.3	1
9	Introduction to Additive Manufacturing for Composites: State of the Art and Recent Trends. <i>Composites Science and Technology</i> , 2022 , 1-24		1
8	Molecular identification of extended spectrum β -lactamases (ESBLs)-producing strains in clinical specimens from Tiruchirappalli, India. <i>Applied Nanoscience (Switzerland)</i> ,1	3.3	0
7	Green Synthesis, Characterization and Antibacterial Activity of SiO ₂ /ZnO Nanocomposite by Dictyota bartayresiana Extract and Its Cytotoxic Effect on HT29 Cell Line. <i>Journal of Cluster Science</i> ,1	3	0
6	Thermal, Electrical, and Sensing Properties of Recycled HDPE/Carbonaceous Industrial Waste Composites. <i>Macromolecular Symposia</i> , 2021 , 400, 2100146	0.8	0
5	Bioengineered TiO ₂ Nanoparticles Using Andrographis alata (Vahl) Nees Leaf Extract and Their Antibacterial and Anticancer Activities. <i>Macromolecular Symposia</i> , 2021 , 400, 2100085	0.8	0
4	Electrochemical performance and charge density distribution analysis of Ag/NiO nanocomposite synthesized from Withania somnifera leaf extract. <i>Inorganic Chemistry Communication</i> , 2022 , 141, 109580	3.1	0
3	Recent Advantages and Applications of Various Biosynthesized Greener Silver Nanoparticles. <i>Asian Journal of Chemistry</i> , 2021 , 33, 2871-2884	0.4	
2	Nanofunctionalized 3D printing 2021 , 457-504		
1	Trends and Innovations in Biosensors for COVID-19 Detection in Air 2021 , 287-304		

