Mohamed Abd Elkodous

List of Publications by Year
in descending order

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52 papers	2,047 citations	201674 27 h-index	243625 44 g-index
52 all docs	52 docs citations	52 times ranked	1463 citing authors

#	Article	IF	Citations
1	Advanced materials and technologies for supercapacitors used in energy conversion and storage: a review. Environmental Chemistry Letters, 2021, 19, 375-439.	16.2	255
2	Therapeutic and diagnostic potential of nanomaterials for enhanced biomedical applications. Colloids and Surfaces B: Biointerfaces, 2019, 180, 411-428.	5.0	155
3	Cutting edge development on graphene derivatives modified by liquid crystal and CdS/TiO₂hybrid matrix: optoelectronics and biotechnological aspects. Critical Reviews in Solid State and Materials Sciences, 2021, 46, 385-449.	12.3	117
4	Response Surface Methodology Optimization of Mono-dispersed MgO Nanoparticles Fabricated by Ultrasonic-Assisted Solâ€“Gel Method for Outstanding Antimicrobial and Antibiofilm Activities. Journal of Cluster Science, 2020, 31, 367-389.	3.3	106
5	The effective antagonistic potential of plant growth-promoting rhizobacteria against Alternaria solani-causing early blight disease in tomato plant. Scientia Horticulturae, 2020, 266, 109289.	3.6	79
6	Recent advances in dye and metal ion removal using efficient adsorbents and novel nano-based materials: an overview. RSC Advances, 2021, 11, 36528-36553.	3.6	72
7	Nanocomposite matrix conjugated with carbon nanomaterials for photocatalytic wastewater treatment. Journal of Hazardous Materials, 2021, 410, 124657.	12.4	66
8	Nanostructured Mg substituted Mn-Zn ferrites: A magnetic recyclable catalyst for outstanding photocatalytic and antimicrobial potentials. Journal of Hazardous Materials, 2020, 399, 123000.	12.4	65
9	Layer-by-layer preparation and characterization of recyclable nanocomposite (CoxNi1â^'xFe2O4;) Tj ETQq1 1 0.784314 rgBT /Overlock	2.2	53
10	Soft, Self-Assembly Liquid Crystalline Nanocomposite for Superior Switching. Electronic Materials Letters, 2019, 15, 84-101.	2.2	52
11	Recent advances in waste-recycled nanomaterials for biomedical applications: Waste-to-wealth. Nanotechnology Reviews, 2021, 10, 1662-1739.	5.8	50
12	Carbon-dot-loaded CoxNi1â^'xFe2O4; xâ€‰=â€‰0.9/SiO2/TiO2 nanocomposite with enhanced photocatalytic and antimicrobial potential: An engineered nanocomposite for wastewater treatment. Scientific Reports, 2020, 10, 11534.	3.3	48
13	MoS2-based nanocomposites: synthesis, structure, and applications in water remediation and energy storage: a review. Environmental Chemistry Letters, 2021, 19, 3645-3681.	16.2	48
14	Gum Arabic polymer-stabilized and Gamma rays-assisted synthesis of bimetallic silver-gold nanoparticles: Powerful antimicrobial and antibiofilm activities against pathogenic microbes isolated from diabetic foot patients. International Journal of Biological Macromolecules, 2020, 165, 169-186.	7.5	46
15	An overview of methods for production and detection of silver nanoparticles, with emphasis on their fate and toxicological effects on human, soil, and aquatic environment. Nanotechnology Reviews, 2021, 10, 954-977.	5.8	46
16	Fabrication of Ultra-Pure Anisotropic Zinc Oxide Nanoparticles via Simple and Cost-Effective Route: Implications for UTI and EAC Medications. Biological Trace Element Research, 2020, 196, 297-317.	3.5	45
17	Comparison of different uncoated and starch-coated superparamagnetic iron oxide nanoparticles: Implications for stem cell tracking. International Journal of Biological Macromolecules, 2020, 143, 763-774.	7.5	45
18	Merits of photocatalytic and antimicrobial applications of gamma-irradiated Co_xNi_{1â^'x}Fe₂O₄/SiO₂/TiO₂;x= 0.9 nanocomposite for pyridine removal and pathogenic bacteria/fungi disinfection: implication for wastewater treatment. RSC Advances, 2020, 10, 5241-5259.	3.6	45

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19	Aggrandize efficiency of ultra-thin silicon solar cell via topical clustering of silver nanoparticles. Nano Structures Nano Objects, 2018, 16, 224-233.	3.5	42
20	Factorial design-optimized and gamma irradiation-assisted fabrication of selenium nanoparticles by chitosan and Pleurotus ostreatus fermented fenugreek for a vigorous in vitro effect against carcinoma cells. International Journal of Biological Macromolecules, 2020, 156, 1584-1599.	7.5	39
21	Unveiling the Effect of Zn2+ Substitution in Enrichment of Structural, Magnetic, and Dielectric Properties of Cobalt Ferrite. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 3709-3721.	3.7	39
22	Engineered Nanomaterials as Potential Candidates for HIV Treatment: Between Opportunities and Challenges. Journal of Cluster Science, 2019, 30, 531-540.	3.3	37
23	Chitosan and EDTA conjugated graphene oxide antinematodes in Eggplant: Toward improving plant immune response. International Journal of Biological Macromolecules, 2021, 179, 333-344.	7.5	34
24	Applications of the amniotic membrane in tissue engineering and regeneration: the hundred-year challenge. Stem Cell Research and Therapy, 2022, 13, 8.	5.5	34
25	Reliable optoelectronic switchable device implementation by CdS nanowires conjugated bent-core liquid crystal matrix. Organic Electronics, 2020, 82, 105592.	2.6	33
26	Microbial acetylcholinesterase inhibitors for Alzheimerâ€™s therapy: recent trends on extraction, detection, irradiation-assisted production improvement and nano-structured drug delivery. Applied Microbiology and Biotechnology, 2020, 104, 4717-4735.	3.6	32
27	Nanomaterial-based drug delivery systems as promising carriers for patients with COVID-19. RSC Advances, 2021, 11, 26463-26480.	3.6	29
28	CdS nanowires encapsulated liquid crystal in-plane switching of LCD device. Journal of Materials Science: Materials in Electronics, 2018, 29, 10301-10310.	2.2	28
29	Engineered magnetic oxides nanoparticles as efficientÂsorbents for wastewater remediation: a review. Environmental Chemistry Letters, 2022, 20, 519-562.	16.2	28
30	Growth dynamics of CBD-assisted CuS nanostructured thin-film: optical, dielectric and novel switchable device applications. Journal of Materials Science: Materials in Electronics, 2019, 30, 16463-16477.	2.2	25
31	Sustainability of One-Dimensional Nanostructures. , 2020, , 83-113.		25
32	Dysregulated MicroRNA Fingerprints and Methylation Patterns in Hepatocellular Carcinoma, Cancer Stem Cells, and Mesenchymal Stem Cells. Frontiers in Cell and Developmental Biology, 2019, 7, 229.	3.7	21
33	Controllable synthesis of Co1â^'x MxFe2O4 nanoparticles (Mâ€‰=â€‰Zn, Cu, and Mn; xâ€‰=â€‰0.0 and 0.5) by cost-effective solâ€“gel approach: analysis of structure, elastic, thermal, and magnetic properties. Journal of Materials Science: Materials in Electronics, 2020, 31, 9726-9741.	2.2	20
34	C-dots dispersed macro-mesoporous TiO2 phtocatalyst for effective waste water treatment. Characterization and Application of Nanomaterials, 2018, 1, .	0.2	20
35	Engineered nanomaterials as fighters against SARS-CoV-2: The way to control and treat pandemics. Environmental Science and Pollution Research, 2021, 28, 40409-40415.	5.3	19
36	Influence of Ce3+ Substitution on Antimicrobial and Antibiofilm Properties of ZnCexFe2â^'xO4 Nanoparticles (X = 0.0, 0.02, 0.04, 0.06, and 0.08) Conjugated with Ebselen and Its Role Subsidised with Î³-Radiation in Mitigating Human TNBC and Colorectal Adenocarcinoma Proliferation In Vitro. International Journal of Molecular Sciences, 2021, 22, 10171.	4.1	18

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37	Medical applications of biopolymer nanofibers. Biomaterials Science, 2022, 10, 4107-4118.	5.4	16
38	Enhanced photocatalytic and antimicrobial performance of a multifunctional Cu-loaded nanocomposite under UV light: theoretical and experimental study. Nanoscale, 2022, 14, 8306-8317.	5.6	15
39	Protective Role of Copper Oxide-Streptomycin Nano-drug Against Potato Brown Rot Disease Caused by Ralstonia solanacearum. Journal of Cluster Science, 2022, 33, 1373-1386.	3.3	13
40	Cutting-edge development in waste-recycled nanomaterials for energy storage and conversion applications. Nanotechnology Reviews, 2022, 11, 2215-2294.	5.8	13
41	Dual Hyaluronic Acid and Folic Acid Targeting pH-Sensitive Multifunctional 2DG@DCA@MgO-Nano-Coreâ€“Shell-Radiosensitizer for Breast Cancer Therapy. Cancers, 2021, 13, 5571.	3.7	12
42	Synthesis of CuO-distributed carbon nanofiber: Alternative hybrid for solid propellants. Journal of Materials Science: Materials in Electronics, 2020, 31, 8212-8219.	2.2	11
43	Proposed approaches for coronaviruses elimination from wastewater: Membrane techniques and nanotechnology solutions. Nanotechnology Reviews, 2021, 11, 1-25.	5.8	11
44	Hepatocellular carcinoma cell line-microenvironment induced cancer-associated phenotype, genotype and functionality in mesenchymal stem cells. Life Sciences, 2022, 288, 120168.	4.3	9
45	Gelatin Loaded Titanium Dioxide and Silver Oxide Nanoparticles: Implication for Skin Tissue Regeneration. Biological Trace Element Research, 2021, 199, 3688-3699.	3.5	8
46	Subacute silica nanoparticle exposure induced oxidative stress and inflammation in rat hippocampus combined with disruption of cholinergic system and behavioral functions. NanoImpact, 2021, 24, 100358.	4.5	6
47	Novel (MnO2/Al) thermite colloid: an opportunity for energetic systems with enhanced performance. Journal of Materials Science: Materials in Electronics, 2020, 31, 21399-21407.	2.2	4
48	Tissue Engineering Modalities and Nanotechnology. Learning Materials in Biosciences, 2020, , 289-322.	0.4	4
49	Carbon dots conjugated nanocomposite for the enhanced electrochemical performance of supercapacitor electrodes. RSC Advances, 2021, 11, 39636-39645.	3.6	4
50	Fabrication, Characterization and Optical Investigation of Semi-organic Nonlinear Alanine Hippurate Single Crystals. Journal of Cluster Science, 2022, 33, 439-448.	3.3	3
51	Recent Trends of Recycled Carbon-Based Nanomaterials and Their Applications. Topics in Mining, Metallurgy and Materials Engineering, 2021, , 443-464.	1.6	1
52	Molecular identification of extended spectrum Î²-lactamases (ESBLs)-producing strains in clinical specimens from Tiruchirappalli, India. Applied Nanoscience (Switzerland), 0, , 1.	3.1	1