Catalytic degradation of wastewater from the textile an synthesized hematite (α-Fe2O3) and magnesium oxide

Current Research in Biotechnology 3, 29-41

DOI: 10.1016/j.crbiot.2021.01.004

Citation Report

#	ARTICLE	IF	CITATIONS
1	Sunlight-assisted degradation of textile pollutants and phytotoxicity evaluation using mesoporous ZnO/g-C ₃ N ₄ catalyst. RSC Advances, 2021, 11, 26800-26812.	3.6	26
2	Antimicrobial and In Vitro Cytotoxic Efficacy of Biogenic Silver Nanoparticles (Ag-NPs) Fabricated by Callus Extract of Solanum incanum L Biomolecules, 2021, 11, 341.	4.0	68
3	Biological Treatment of Real Textile Effluent Using Aspergillus flavus and Fusarium oxysporium and Their Consortium along with the Evaluation of Their Phytotoxicity. Journal of Fungi (Basel,) Tj ETQq0 0 0 rgBT /Ox	ver bos k 10	Tf 55 60 657 Td
4	Highly Functionalized Modified Metal Oxides Polymeric Sensors for Potentiometric Determination of Letrozole in Commercial Oral Tablets and Biosamples. Polymers, 2021, 13, 1384.	4.5	14
5	Synthesis of Eco-Friendly Biopolymer, Alginate-Chitosan Composite to Adsorb the Heavy Metals, Cd(II) and Pb(II) from Contaminated Effluents. Materials, 2021, 14, 2189.	2.9	52
6	An Eco-Friendly Approach to the Control of Pathogenic Microbes and Anopheles stephensi Malarial Vector Using Magnesium Oxide Nanoparticles (Mg-NPs) Fabricated by Penicillium chrysogenum. International Journal of Molecular Sciences, 2021, 22, 5096.	4.1	54
7	Rhizopus oryzae-Mediated Green Synthesis of Magnesium Oxide Nanoparticles (MgO-NPs): A Promising Tool for Antimicrobial, Mosquitocidal Action, and Tanning Effluent Treatment. Journal of Fungi (Basel, Switzerland), 2021, 7, 372.	3.5	100
8	Ni KATKISININ Fe2O3'ÜN YAPISAL ÖZELLİKLERİ ÜZERİNE ETKİLERİNİN ARAŞTIRILMASI. Intern Innovative Engineering Applications, 0, , .	ational Joi	urnal of
9	The Catalytic Activity of Biosynthesized Magnesium Oxide Nanoparticles (MgO-NPs) for Inhibiting the Growth of Pathogenic Microbes, Tanning Effluent Treatment, and Chromium Ion Removal. Catalysts, 2021, 11, 821.	3.5	88
10	Sonosynthesis and characterization of konjac gum/xanthan gum supported ironoxide nanoparticles. International Journal of Biological Macromolecules, 2021, 183, 1047-1057.	7.5	8
11	Biogenic synthesis of novel platinum-palladium bimetallic nanoparticles from aqueous Annona muricata leaf extract for catalytic activity. 3 Biotech, 2021, 11, 385.	2.2	13
12	Photocatalytic degradation of real textile and tannery effluent using biosynthesized magnesium oxide nanoparticles (MgO-NPs), heavy metal adsorption, phytotoxicity, and antimicrobial activity. Journal of Environmental Chemical Engineering, 2021, 9, 105346.	6.7	144
13	Effect of bi-functionalization silica micro beads on uranium adsorption from synthetic and washing pregnant uranyl solutions. Journal of Radioanalytical and Nuclear Chemistry, 2021, 330, 191-206.	1.5	6
14	Evaluate the Toxicity of Pyrethroid Insecticide Cypermethrin before and after Biodegradation by Lysinibacillus cresolivuorans Strain HIS7. Plants, 2021, 10, 1903.	3.5	13
15	Nanobioremediation: A sustainable approach for the removal of toxic pollutants from the environment. Journal of Hazardous Materials, 2022, 427, 128033.	12.4	58
16	Plant growth-promoting properties of bacterial endophytes isolated from roots of <i>Thymus vulgaris</i> L. and investigate their role as biofertilizers to enhance the essential oil contents. Biomolecular Concepts, 2021, 12, 175-196.	2.2	22
17	Thiolation of Myco-Synthesized Fe3O4-NPs: A Novel Promising Tool for Penicillium expansium Laccase Immobilization to Decolorize Textile Dyes and as an Application for Anticancer Agent. Journal of Fungi (Basel, Switzerland), 2022, 8, 71.	3.5	7
18	Ceria nanoparticles anchored on graphitic oxide sheets (CeO2-GOS) as an efficient catalyst for degradation of dyes and textile effluents. Environmental Research, 2022, 209, 112750.	7.5	22

#	Article	IF	Citations
19	Construction of SnO2/g-C3N4 an effective nanocomposite for photocatalytic degradation of amoxicillin and pharmaceutical effluent. Environmental Research, 2022, 209, 112809.	7.5	30
20	Performance of Activated Mgo Nanopowder on the Treatment of Real Tannery Wastewater: Complementing Experimental Results with a Geochemical Model. SSRN Electronic Journal, 0, , .	0.4	O
21	Enhanced Antimicrobial, Cytotoxicity, Larvicidal, and Repellence Activities of Brown Algae, Cystoseira crinita-Mediated Green Synthesis of Magnesium Oxide Nanoparticles. Frontiers in Bioengineering and Biotechnology, 2022, 10, 849921.	4.1	59
22	Multi-Biofunctional Properties of Phytofabricated Selenium Nanoparticles From Carica papaya Fruit Extract: Antioxidant, Antimicrobial, Antimycotoxin, Anticancer, and Biocompatibility. Frontiers in Microbiology, 2021, 12, 769891.	3.5	12
23	Grafting of Thiazole Derivative on Chitosan Magnetite Nanoparticles for Cadmium Removal—Application for Groundwater Treatment. Polymers, 2022, 14, 1240.	4.5	18
24	Photocatalytic Efficacy of Heterocyclic Base Grafted Chitosan Magnetite Nanoparticles on Sorption of Pb(II); Application on Mining Effluent. Catalysts, 2022, 12, 330.	3.5	10
25	The Potency of Fungal-Fabricated Selenium Nanoparticles to Improve the Growth Performance of Helianthus annuus L. and Control of Cutworm Agrotis ipsilon. Catalysts, 2021, 11, 1551.	3.5	40
26	Mycosynthesis, Characterization, and Mosquitocidal Activity of Silver Nanoparticles Fabricated by Aspergillus niger Strain. Journal of Fungi (Basel, Switzerland), 2022, 8, 396.	3.5	22
27	Aspergillus flavus-Mediated Green Synthesis of Silver Nanoparticles and Evaluation of Their Antibacterial, Anti-Candida, Acaricides, and Photocatalytic Activities. Catalysts, 2022, 12, 462.	3.5	32
28	Mycology-Nanotechnology Interface: Applications in Medicine and Cosmetology. International Journal of Nanomedicine, 0, Volume 17, 2505-2533.	6.7	12
29	An innovative process combining electrocoagulation and photoelectro-Fenton-like methods during the abatement of Acid Blue 113 dye. Chemical Engineering Research and Design, 2022, 163, 475-486.	5.6	6
30	Microbial (viruses, bacteria and fungi) protective personal clothing. , 2022, , 199-226.		2
31	Synthesis of a Novel Adsorbent Based on Chitosan Magnetite Nanoparticles for the High Sorption of Cr (VI) Ions: A Study of Photocatalysis and Recovery on Tannery Effluents. Catalysts, 2022, 12, 678.	3.5	22
32	Aspergillus tamarii mediated green synthesis of magnetic chitosan beads for sustainable remediation of wastewater contaminants. Scientific Reports, 2022, 12, .	3.3	9
33	Novel Amap \tilde{A}_i latex-mediated synthesis of defective \hat{I} ±-Fe2O3 nanoparticles with enhanced ferromagnetism and sunlight photocatalytic activity. Ceramics International, 2022, 48, 28496-28511.	4.8	6
34	Synthesis and Characterization of Functionalized Chitosan Nanoparticles with Pyrimidine Derivative for Enhancing Ion Sorption and Application for Removal of Contaminants. Materials, 2022, 15, 4676.	2.9	17
35	Phyco-Synthesized Zinc Oxide Nanoparticles Using Marine Macroalgae, Ulva fasciata Delile, Characterization, Antibacterial Activity, Photocatalysis, and Tanning Wastewater Treatment. Catalysts, 2022, 12, 756.	3.5	32
36	Light enhanced the antimicrobial, anticancer, and catalytic activities of selenium nanoparticles fabricated by endophytic fungal strain, Penicillium crustosum EP-1. Scientific Reports, 2022, 12, .	3.3	46

#	ARTICLE	IF	CITATIONS
37	Nanomaterials as a sustainable choice for treating wastewater. Environmental Research, 2022, 214, 113807.	7.5	38
38	Nanotechnological tweaking for textile industrial dye stress on floras. Materials Today: Proceedings, 2022, , .	1.8	0
39	A hybrid process combining electrocoagulation and active chlorine-based photoelectro-Fenton-like methods during the removal of Acid Blue 29 dye. Journal of Electroanalytical Chemistry, 2022, , 116732.	3.8	5
40	Mycosynthesis of Hematite (α-Fe2O3) Nanoparticles Using Aspergillus niger and Their Antimicrobial and Photocatalytic Activities. Bioengineering, 2022, 9, 397.	3.5	47
41	Ecofriendly Composite as a Promising Material for Highly-Performance Uranium Recovery from Different Solutions. Toxics, 2022, 10, 490.	3.7	8
42	Simultaneous scavenging of As(V) and safranin O dye by Mg/Al LDH-zeolite heterocoagulated materials: The effect of adsorbent synthesis approach on its efficiency in static and dynamic system. Separation and Purification Technology, 2022, 302, 122072.	7.9	4
43	Endophytic bacterial strain, <i>Brevibacillus brevis </i> mediated green synthesis of copper oxide nanoparticles, characterization, antifungal, <i>in vitro </i> cytotoxicity, and larvicidal activity. Green Processing and Synthesis, 2022, 11, 931-950.	3.4	28
44	Urinary 8-OHdG level is not affected by geography and trace elements in nail of residents of Addis Ababa: It is shaped by interactions between different social factors. Toxicology Reports, 2022, 9, 1777-1787.	3.3	2
45	Green Synthesis of Metal Oxide Nanoparticles and Gamma Rays for Water Remediation., 2022, , 1-17.		0
46	Antimicrobial, Antiviral, and In-Vitro Cytotoxicity and Mosquitocidal Activities of Portulaca oleracea-Based Green Synthesis of Selenium Nanoparticles. Journal of Functional Biomaterials, 2022, 13, 157.	4.4	31
47	Nano-bioremediation of textile industry wastewater using immobilized CuO-NPs myco-synthesized by a novel Cu-resistant Fusarium oxysporum OSF18. Environmental Science and Pollution Research, 2023, 30, 16694-16706.	5.3	15
48	Application of Algal Nanotechnology for Leather Wastewater Treatment and Heavy Metal Removal Efficiency. Sustainability, 2022, 14, 13940.	3.2	13
49	Insights into the recent advances in nano-bioremediation of pesticides from the contaminated soil. Frontiers in Microbiology, 0, 13 , .	3.5	12
50	Current developments in nanostructurally engineered metal oxide for removal of contaminants in water. Ceramics International, 2023, 49, 7308-7321.	4.8	17
51	A comprehensive review on biosynthesis of magnesium oxide nanoparticles, and their antimicrobial, anticancer, antioxidant activities as well as toxicity study. Inorganic Chemistry Communication, 2022, 146, 110156.	3.9	12
52	Magnetic properties, phase evolution, hollow structure and biomedical application of hematite (α-Fe2O3) and QUAIPH. Advanced Powder Technology, 2022, 33, 103847.	4.1	12
53	Synthesis, Characterization, and Evaluation of <i>Artemisia afra</i> -Mediated Iron Nanoparticles as a Potential Nano-Priming Agent for Seed Germination. ACS Agricultural Science and Technology, 2022, 2, 1218-1229.	2.3	2
54	Abatement of a complex mixture of dyes in the presence of chlorides by electrocoagulation and active chlorine-based photoelectro-Fenton-like processes. Chemical Engineering Research and Design, 2023, 169, 579-591.	5.6	4

#	Article	IF	CITATIONS
55	Heterostructures of Ag2FeSnS4 chalcogenide nanoparticles as potential photocatalysts. Scientific African, 2023, 19, e01509.	1.5	O
56	Green and Eco-Friendly Treatment of Textile Wastewater by Using Azadirachta indica Leaf Extract Combined with a Silver Nitrate Solution. Sustainability, 2023, 15, 81.	3.2	4
57	Green Synthesis of Magnesium Oxide Nanoparticles and Nanocomposites for Photocatalytic Antimicrobial, Antibiofilm and Antifungal Applications. Catalysts, 2023, 13, 642.	3.5	41
58	Green Synthesis of Zinc Oxide Nanoparticles Using an Aqueous Extract of Punica granatum for Antimicrobial and Catalytic Activity. Journal of Functional Biomaterials, 2023, 14, 205.	4.4	12
59	Efficient detoxification of textile wastewater by applying Chenopodium album nanoparticles and its application in simulated metal-bearing effluents removal. Environmental Science and Pollution Research, 2023, 30, 60890-60906.	5.3	4
60	Treatment of real tannery wastewater using facile synthesized magnesium oxide nanoparticles: Experimental results and geochemical modeling. Water Resources and Industry, 2023, 29, 100205.	3.9	2
61	Magnesium ferrite/titanium dioxide/reduced graphene oxide composite photocatalyst for degradation of crystal violet under ultraviolet irradiation. Materials Chemistry and Physics, 2023, 301, 127661.	4.0	3
62	Zero waste discharge in tannery industries – An achievable reality? A recent review. Journal of Environmental Management, 2023, 335, 117508.	7.8	9
63	Biosynthesis of Metal and Metal Oxide Nanoparticles Using Microbial Cultures: Mechanisms, Antimicrobial Activity and Applications to Cultural Heritage. Microorganisms, 2023, 11, 378.	3.6	13
64	Plant-Based Copper Oxide Nanoparticles; Biosynthesis, Characterization, Antibacterial Activity, Tanning Wastewater Treatment, and Heavy Metals Sorption. Catalysts, 2023, 13, 348.	3.5	23
65	A critical analysis of the nanotechnology-based approach in textile wastewater treatment. Nanotechnology for Environmental Engineering, 0, , .	3.3	0
66	Bio-synthesis of Fe-nanocomplex using leaves Ocimum basilicum L. as a promising tool for tanning effluent treatment. Biomass Conversion and Biorefinery, 0, , .	4.6	0
67	Green Synthesis of Metal Oxide Nanoparticles and Gamma Rays for Water Remediation., 2023,, 203-219.		0
68	Biological approaches to the purification of textile wastewater. E3S Web of Conferences, 2023, 389, 04001.	0.5	1
69	Fabrication of Novel Hemp Charcoal Nanofiber Membrane for Effectual Adsorption of Heavy Metal lons from Wastewater. Sustainability, 2023, 15, 9365.	3.2	1
70	Pd-Based Nanoparticles as Catalysts for Improved Removal of Florfenicol via Heterogeneous Fenton and Photo-Fenton(-like) Processes. ACS Applied Nano Materials, 2023, 6, 12177-12189.	5.0	2
72	Water Adsorption on MgO Surfaces: A Vibrational Analysis. Crystals, 2023, 13, 1153.	2.2	1
73	Synthesis of Datura inoxia-added iron nanoparticle adsorbent for malachite green dye removal. International Journal of Environmental Science and Technology, 0, , .	3.5	1

#	Article	IF	CITATIONS
74	Green nanomaterials: Synthesis and applications in wastewater treatment. Inorganic Chemistry Communication, 2023, 158, 111584.	3.9	0
75	Experimental studies of tannery wastewater treatment by combined electrocoagulation and ultrasonication processes using response surface methodology optimization. International Journal of Environmental Science and Technology, 0, , .	3.5	0
76	Effective Removal of Anthracene from Seawater Samples Using a Thermo-Sensitive Polymer Based on Magnetic Graphene Oxide: Fabrication and Characterization. Water, Air, and Soil Pollution, 2023, 234, .	2.4	0
77	Magnesium oxide synthesized with <i>Alpinia zerumbet</i> leaf extracts as a sustainable alternative to zinc oxide in nitrile rubber compounds: A comparative vulcanization kinetics investigation. Journal of Applied Polymer Science, 0, , .	2.6	0
78	\hat{l}_{\pm} -Fe2O3/ZnO nanocomposite as an efficient photocatalyst for wastewater treatment and flexible electronic device applications. Ionics, 2024, 30, 1137-1150.	2.4	0
79	Unlocking the potential of MgONPs for effective domestic wastewater treatment. Journal of the Taiwan Institute of Chemical Engineers, 2023, , 105255.	5.3	0
80	Synthesis of Nanoparticles by Microbes. , 2023, , 629-640.		0
81	Chitosan anchored nZVI bionanocomposites for treatment of textile wastewater: Optimization, mechanism, and phytotoxic assessment. Environmental Research, 2024, 245, 118041.	7.5	1
82	Emerging trends and promising prospects in nanotechnology for improved remediation of wastewater contaminants: Present and future outlooks. Environmental Nanotechnology, Monitoring and Management, 2024, 21, 100913.	2.9	0
83	Penicillium oxalicum-mediated the green synthesis of silica nanoparticles: characterization and environmental applications. Biomass Conversion and Biorefinery, 0, , .	4.6	0
84	Larvicidal activity of CuO and ZnO nanoparticles against Aedes aegypti and Anopheles stephensi mosquito vectors-a greener approach by Phaseolus vulgaris L. aqueous extract as bio-reductant. Results in Chemistry, 2024, 7, 101408.	2.0	0
85	Removal of fluoride ions from water using MgO-based materials with special emphasis on MgO/PPy nanocomposites: A review. Journal of Molecular Liquids, 2024, 399, 124473.	4.9	O