

Mohammed F Hamza

List of Publications by Year in descending order

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104
papers

5,973
citations

61945

43
h-index

82499

72
g-index

104
all docs

104
docs citations

104
times ranked

2916
citing authors

#	ARTICLE	IF	CITATIONS
1	Green Synthesis of Metallic Nanoparticles and Their Prospective Biotechnological Applications: an Overview. <i>Biological Trace Element Research</i> , 2021, 199, 344-370.	1.9	606
2	Endophytic actinomycetes <i>Streptomyces</i> spp mediated biosynthesis of copper oxide nanoparticles as a promising tool for biotechnological applications. <i>Journal of Biological Inorganic Chemistry</i> , 2019, 24, 377-393.	1.1	236
3	Fungal strain impacts the shape, bioactivity and multifunctional properties of green synthesized zinc oxide nanoparticles. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 19, 101103.	1.5	173
4	Green Synthesis of Zinc Oxide Nanoparticles (ZnO-NPs) Using <i>Arthrospira platensis</i> (Class:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 To	1.9	165
5	New approach for antimicrobial activity and bio-control of various pathogens by biosynthesized copper nanoparticles using endophytic actinomycetes. <i>Journal of Radiation Research and Applied Sciences</i> , 2018, 11, 262-270.	0.7	149
6	Bactericidal and In-Vitro Cytotoxic Efficacy of Silver Nanoparticles (Ag-NPs) Fabricated by Endophytic Actinomycetes and Their Use as Coating for the Textile Fabrics. <i>Nanomaterials</i> , 2020, 10, 2082.	1.9	148
7	Photocatalytic degradation of real textile and tannery effluent using biosynthesized magnesium oxide nanoparticles (MgO-NPs), heavy metal adsorption, phytotoxicity, and antimicrobial activity. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105346.	3.3	144
8	Optimization of green biosynthesized visible light active CuO/ZnO nano-photocatalysts for the degradation of organic methylene blue dye. <i>Heliyon</i> , 2020, 6, e04896.	1.4	131
9	Antibacterial, Cytotoxicity and Larvicidal Activity of Green Synthesized Selenium Nanoparticles Using <i>Penicillium corylophilum</i> . <i>Journal of Cluster Science</i> , 2021, 32, 351-361.	1.7	131
10	Antimicrobial, Antioxidant and Larvicidal Activities of Spherical Silver Nanoparticles Synthesized by Endophytic <i>Streptomyces</i> spp.. <i>Biological Trace Element Research</i> , 2020, 195, 707-724.	1.9	125
11	Endophytic <i>Streptomyces laurentii</i> Mediated Green Synthesis of Ag-NPs with Antibacterial and Anticancer Properties for Developing Functional Textile Fabric Properties. <i>Antibiotics</i> , 2020, 9, 641.	1.5	120
12	Multifunctional cellulose nanocrystal /metal oxide hybrid, photo-degradation, antibacterial and larvicidal activities. <i>Carbohydrate Polymers</i> , 2020, 230, 115711.	5.1	115
13	Uranium and europium sorption on amidoxime-functionalized magnetic chitosan micro-particles. <i>Chemical Engineering Journal</i> , 2018, 344, 124-137.	6.6	113
14	Efficacy Assessment of Biosynthesized Copper Oxide Nanoparticles (CuO-NPs) on Stored Grain Insects and Their Impacts on Morphological and Physiological Traits of Wheat (<i>Triticum aestivum</i> L.) Plant. <i>Biology</i> , 2021, 10, 233.	1.3	109
15	Integration of Cotton Fabrics with Biosynthesized CuO Nanoparticles for Bactericidal Activity in the Terms of Their Cytotoxicity Assessment. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 1553-1563.	1.8	107
16	Isolation and Characterization of Plant Growth Promoting Endophytic Bacteria from Desert Plants and Their Application as Bioinoculants for Sustainable Agriculture. <i>Agronomy</i> , 2020, 10, 1325.	1.3	105
17	Multifunctional properties of spherical silver nanoparticles fabricated by different microbial taxa. <i>Heliyon</i> , 2020, 6, e03943.	1.4	104
18	Harnessing Bacterial Endophytes for Promotion of Plant Growth and Biotechnological Applications: An Overview. <i>Plants</i> , 2021, 10, 935.	1.6	100

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19	Rhizopus oryzae-Mediated Green Synthesis of Magnesium Oxide Nanoparticles (MgO-NPs): A Promising Tool for Antimicrobial, Mosquitocidal Action, and Tanning Effluent Treatment. <i>Journal of Fungi</i> (Basel, Switzerland), 2021, 7, 372.	1.5	100
20	Synthesis and adsorption characteristics of grafted hydrazinyl amine magnetite-chitosan for Ni(II) and Pb(II) recovery. <i>Chemical Engineering Journal</i> , 2019, 362, 310-324.	6.6	97
21	Eco-friendly approach utilizing green synthesized nanoparticles for paper conservation against microbes involved in biodeterioration of archaeological manuscript. <i>International Biodeterioration and Biodegradation</i> , 2019, 142, 160-169.	1.9	96
22	A Review: Studies on Uranium Removal Using Different Techniques. Overview. <i>Journal of Dispersion Science and Technology</i> , 2013, 34, 182-213.	1.3	93
23	An eco-friendly approach to textile and tannery wastewater treatment using maghemite nanoparticles (γ -Fe ₂ O ₃ -NPs) fabricated by <i>Penicillium expansum</i> strain (K-w). <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104693.	3.3	92
24	The Catalytic Activity of Biosynthesized Magnesium Oxide Nanoparticles (MgO-NPs) for Inhibiting the Growth of Pathogenic Microbes, Tanning Effluent Treatment, and Chromium Ion Removal. <i>Catalysts</i> , 2021, 11, 821.	1.6	88
25	Isolation and Characterization of Fungal Endophytes Isolated from Medicinal Plant <i>Ephedra pachyclada</i> as Plant Growth-Promoting. <i>Biomolecules</i> , 2021, 11, 140.	1.8	87
26	Plant Growth-Promoting Endophytic Bacterial Community Inhabiting the Leaves of <i>Pulicaria incisa</i> (Lam.) DC Inherent to Arid Regions. <i>Plants</i> , 2021, 10, 76.	1.6	76
27	Green Approach to Overcome the Resistance Pattern of <i>Candida</i> spp. Using Biosynthesized Silver Nanoparticles Fabricated by <i>Penicillium chrysogenum</i> F9. <i>Biological Trace Element Research</i> , 2021, 199, 800-811.	1.9	70
28	Antimicrobial and In Vitro Cytotoxic Efficacy of Biogenic Silver Nanoparticles (Ag-NPs) Fabricated by Callus Extract of <i>Solanum incanum</i> L.. <i>Biomolecules</i> , 2021, 11, 341.	1.8	68
29	Phosphorylation of Guar Gum/Magnetite/Chitosan Nanocomposites for Uranium (VI) Sorption and Antibacterial Applications. <i>Molecules</i> , 2021, 26, 1920.	1.7	68
30	Green approach for one-pot synthesis of silver nanorod using cellulose nanocrystal and their cytotoxicity and antibacterial assessment. <i>International Journal of Biological Macromolecules</i> , 2018, 106, 784-792.	3.6	66
31	Amidoxime functionalization of a poly(acrylonitrile)/silica composite for the sorption of Ga(III) \hat{a} €“ Application to the treatment of Bayer liquor. <i>Chemical Engineering Journal</i> , 2019, 368, 459-473.	6.6	65
32	Sulfonic-functionalized algal/PEI beads for scandium, cerium and holmium sorption from aqueous solutions (synthetic and industrial samples). <i>Chemical Engineering Journal</i> , 2021, 403, 126399.	6.6	63
33	Monitoring the effect of biosynthesized nanoparticles against biodeterioration of cellulose-based materials by <i>Aspergillus niger</i> . <i>Cellulose</i> , 2019, 26, 6583-6597.	2.4	61
34	Comparative Study between Exogenously Applied Plant Growth Hormones versus Metabolites of Microbial Endophytes as Plant Growth-Promoting for <i>Phaseolus vulgaris</i> L.. <i>Cells</i> , 2021, 10, 1059.	1.8	61
35	Functionalization of magnetic chitosan microparticles for high-performance removal of chromate from aqueous solutions and tannery effluent. <i>Chemical Engineering Journal</i> , 2022, 428, 131775.	6.6	60
36	Enhanced Antimicrobial, Cytotoxicity, Larvicidal, and Repellence Activities of Brown Algae, <i>Cystoseira crinita</i> -Mediated Green Synthesis of Magnesium Oxide Nanoparticles. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 849921.	2.0	59

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37	Recent advances in greenly synthesized nanoengineered materials for water/wastewater remediation: an overview. <i>Nanotechnology for Environmental Engineering</i> , 2021, 6, 1.	2.0	57
38	Biological Treatment of Real Textile Effluent Using <i>Aspergillus flavus</i> and <i>Fusarium oxysporium</i> and Their Consortium along with the Evaluation of Their Phytotoxicity. <i>Journal of Fungi (Basel)</i> , Tj ETQq0 0 0 rgBT /Overlook 10 Tf50 697 Td		
39	An Eco-Friendly Approach to the Control of Pathogenic Microbes and <i>Anopheles stephensi</i> Malarial Vector Using Magnesium Oxide Nanoparticles (Mg-NPs) Fabricated by <i>Penicillium chrysogenum</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 5096.	1.8	54
40	Effect of agitation mode (mechanical, ultrasound and microwave) on uranium sorption using amine- and dithizone-functionalized magnetic chitosan hybrid materials. <i>Chemical Engineering Journal</i> , 2021, 411, 128553.	6.6	53
41	Synthesis of Eco-Friendly Biopolymer, Alginate-Chitosan Composite to Adsorb the Heavy Metals, Cd(II) and Pb(II) from Contaminated Effluents. <i>Materials</i> , 2021, 14, 2189.	1.3	52
42	Efficient removal of uranium, cadmium and mercury from aqueous solutions using grafted hydrazide-micro-magnetite chitosan derivative. <i>Journal of Materials Science</i> , 2020, 55, 4193-4212.	1.7	49
43	Development of phosphoryl-functionalized algal-PEI beads for the sorption of Nd(III) and Mo(VI) from aqueous solutions – Application for rare earth recovery from acid leachates. <i>Chemical Engineering Journal</i> , 2021, 412, 127399.	6.6	47
44	Light enhanced the antimicrobial, anticancer, and catalytic activities of selenium nanoparticles fabricated by endophytic fungal strain, <i>Penicillium crustosum</i> EP-1. <i>Scientific Reports</i> , 2022, 12, .	1.6	46
45	Functionalization of Magnetic Chitosan Particles for the Sorption of U(VI), Cu(II) and Zn(II) – Hydrazide Derivative of Glycine-Grafted Chitosan. <i>Materials</i> , 2017, 10, 539.	1.3	45
46	As(V) sorption from aqueous solutions using quaternized algal/polyethyleneimine composite beads. <i>Science of the Total Environment</i> , 2020, 719, 137396.	3.9	44
47	Green Synthesis of Zinc Oxide Nanoparticles (ZnO-NPs) by <i>Pseudomonas aeruginosa</i> and Their Activity against Pathogenic Microbes and Common House Mosquito, <i>Culex pipiens</i> . <i>Materials</i> , 2021, 14, 6983.	1.3	44
48	Recovery of Heavy Metal Ions Using Magnetic Glycine-Modified Chitosan – Application to Aqueous Solutions and Tailing Leachate. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8377.	1.3	41
49	Amidoxime Functionalization of Algal/Polyethyleneimine Beads for the Sorption of Sr(II) from Aqueous Solutions. <i>Molecules</i> , 2019, 24, 3893.	1.7	40
50	2-Mercaptobenzimidazole-functionalized chitosan for enhanced removal of methylene blue: Batch and column studies. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105609.	3.3	40
51	The Potency of Fungal-Fabricated Selenium Nanoparticles to Improve the Growth Performance of <i>Helianthus annuus</i> L. and Control of Cutworm <i>Agrotis ipsilon</i> . <i>Catalysts</i> , 2021, 11, 1551.	1.6	40
52	Quaternization of algal/PEI beads (a new sorbent): Characterization and application to scandium sorption from aqueous solutions. <i>Chemical Engineering Journal</i> , 2020, 383, 123210.	6.6	38
53	U(VI) and Th(IV) recovery using silica beads functionalized with urea- or thiourea-based polymers – Application to ore leachate. <i>Science of the Total Environment</i> , 2022, 821, 153184.	3.9	37
54	Adsorption Properties of Uranium (VI) Ions on Reactive Crosslinked Acrylamidoxime and Acrylic Acid Copolymer Resins. <i>Journal of Dispersion Science and Technology</i> , 2010, 32, 84-94.	1.3	36

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55	Uranium(VI) and zirconium(IV) sorption on magnetic chitosan derivatives—Effect of different functional groups on separation properties. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 3866-3882.	1.6	35
56	Biotechnological application of plant growth-promoting endophytic bacteria isolated from halophytic plants to ameliorate salinity tolerance of <i>Vicia faba</i> L.. <i>Plant Biotechnology Reports</i> , 2021, 15, 819-843.	0.9	34
57	Functionalized biobased composite for metal decontamination — Insight on uranium and application to water samples collected from wells in mining areas (Sinai, Egypt). <i>Chemical Engineering Journal</i> , 2022, 431, 133967.	6.6	34
58	Multiple Applications of CdS/TiO ₂ Nanocomposites Synthesized via Microwave-Assisted Sol-Gel. <i>Journal of Cluster Science</i> , 2022, 33, 1119-1128.	1.7	33
59	<i>Aspergillus flavus</i> -Mediated Green Synthesis of Silver Nanoparticles and Evaluation of Their Antibacterial, Anti-Candida, Acaricides, and Photocatalytic Activities. <i>Catalysts</i> , 2022, 12, 462.	1.6	32
60	Integrated treatment of tailing material for the selective recovery of uranium, rare earth elements and heavy metals. <i>Minerals Engineering</i> , 2019, 133, 138-148.	1.8	31
61	Quaternization of Composite Algal/PEI Beads for Enhanced Uranium Sorption—Application to Ore Acidic Leachate. <i>Gels</i> , 2020, 6, 12.	2.1	30
62	Application of Magnetic and Dielectric Nanofluids for Electromagnetic-Assistance Enhanced Oil Recovery: A Review. <i>Crystals</i> , 2021, 11, 106.	1.0	29
63	Selective adsorption and recovery of scandium from red mud leachate by using phosphoric acid pre-treated pitaya peel biochar. <i>Separation and Purification Technology</i> , 2022, 292, 121043.	3.9	29
64	Magnetic glutamine-grafted polymer for the sorption of U(VI), Nd(III) and Dy(III). <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 1790-1806.	1.6	26
65	Efficient Recovery of Rare Earth Elements (Pr(III) and Tm(III)) From Mining Residues Using a New Phosphorylated Hydrogel (Algal Biomass/PEI). <i>Metals</i> , 2021, 11, 294.	1.0	26
66	Metal valorization from the waste produced in the manufacturing of Co/Mo catalysts: leaching and selective precipitation. <i>Journal of Material Cycles and Waste Management</i> , 2019, 21, 525-538.	1.6	25
67	The Efficacy of Silver Nitrate (AgNO ₃) as a Coating Agent to Protect Paper against High Deteriorating Microbes. <i>Catalysts</i> , 2021, 11, 310.	1.6	23
68	Mycosynthesis, Characterization, and Mosquitocidal Activity of Silver Nanoparticles Fabricated by <i>Aspergillus niger</i> Strain. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 396.	1.5	22
69	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. <i>Catalysts</i> , 2022, 12, 678.	1.6	22
70	Studies on the Uptake of Rare Earth Elements on Polyacrylamidoxime Resins from Natural Concentrate Leachate Solutions. <i>Journal of Dispersion Science and Technology</i> , 2010, 31, 1128-1135.	1.3	20
71	Extraction Studies of Some Hazardous Metal Ions Using Magnetic Peptide Resins. <i>Journal of Dispersion Science and Technology</i> , 2015, 36, 411-422.	1.3	20
72	Praseodymium sorption on <i>Laminaria digitata</i> algal beads and foams. <i>Journal of Colloid and Interface Science</i> , 2017, 504, 780-789.	5.0	20

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73	Controlled bi-functionalization of silica microbeads through grafting of amidoxime/methacrylic acid for Sr(II) enhanced sorption. <i>Chemical Engineering Journal</i> , 2020, 402, 125220.	6.6	19
74	Adsorption of Uranium (VI) Ions on Hydrazinyl Amine and 1,3,4-Thiadiazol-2(3H)-thion Chelating Resins. <i>Journal of Dispersion Science and Technology</i> , 2012, 33, 1544-1551.	1.3	18
75	Synthesis of a New Phosphonate-Based Sorbent and Characterization of Its Interactions with Lanthanum (III) and Terbium (III). <i>Polymers</i> , 2021, 13, 1513.	2.0	18
76	Grafting of Thiazole Derivative on Chitosan Magnetite Nanoparticles for Cadmium Removal—Application for Groundwater Treatment. <i>Polymers</i> , 2022, 14, 1240.	2.0	18
77	Sulfonation of chitosan for enhanced sorption of Li(I) from acidic solutions – Application to metal recovery from waste Li-ion mobile battery. <i>Chemical Engineering Journal</i> , 2022, 441, 135941.	6.6	18
78	Synthesis and Characterization of Functionalized Chitosan Nanoparticles with Pyrimidine Derivative for Enhancing Ion Sorption and Application for Removal of Contaminants. <i>Materials</i> , 2022, 15, 4676.	1.3	17
79	Studies on the Uptake of Uranium(VI) Ions on Polyacrylamidoxime Resins Synthesized by Free Radical Polymerization with Different Crosslinking Ratios and Pore Solvents. <i>Journal of Dispersion Science and Technology</i> , 2011, 32, 224-234.	1.3	16
80	Evaluating the Effect of Lignocellulose-Derived Microbial Inhibitors on the Growth and Lactic Acid Production by <i>Bacillus coagulans</i> Azu-10. <i>Fermentation</i> , 2021, 7, 17.	1.4	16
81	Grafting of quaternary ammonium groups for uranium(VI) recovery: application on natural acidic leaching liquor. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 322, 519-532.	0.7	15
82	Use of Corn-Steep Water Effluent as a Promising Substrate for Lactic Acid Production by <i>Enterococcus faecium</i> Strain WH51-1. <i>Fermentation</i> , 2021, 7, 111.	1.4	15
83	Effect of bi-functionalization of algal/polyethyleneimine composite beads on the enhancement of tungstate sorption: Application to metal recovery from ore leachate. <i>Separation and Purification Technology</i> , 2022, 290, 120893.	3.9	15
84	Functionalization of magnetic chitosan microparticles – Comparison of trione and trithione grafting for enhanced silver sorption and application to metal recovery from waste X-ray photographic films. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107939.	3.3	15
85	Recent advancement of hybrid materials used in chemical enhanced oil recovery (CEOR): A review. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 206, 012007.	0.3	14
86	Uranium recovery from concentrated chloride solution produced from direct acid leaching of calcareous shale, Allouga ore materials, southwestern Sinai, Egypt. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 315, 613-626.	0.7	13
87	Nd(III) and Gd(III) Sorption on Mesoporous Amine-Functionalized Polymer/SiO ₂ Composite. <i>Molecules</i> , 2021, 26, 1049.	1.7	13
88	Recovery of magnesium from ferronickel slag to prepare hydrated magnesium sulfate by hydrometallurgy method. <i>Journal of Cleaner Production</i> , 2021, 303, 127049.	4.6	13
89	Evaluate the Toxicity of Pyrethroid Insecticide Cypermethrin before and after Biodegradation by <i>Lysinibacillus cresolivorans</i> Strain HIS7. <i>Plants</i> , 2021, 10, 1903.	1.6	13
90	Novel phosphonate-functionalized composite sorbent for the recovery of lanthanum(III) and terbium(III) from synthetic solutions and ore leachate. <i>Chemical Engineering Journal</i> , 2021, 424, 130500.	6.6	13

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91	Groundwater Purification in a Polymetallic Mining Area (SW Sinai, Egypt) Using Functionalized Magnetic Chitosan Particles. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	1.1	12
92	Synthesis and characterization of the novel pyrimidineâ€™s derivatives, as a promising tool for antimicrobial agent and in-vitro cytotoxicity. <i>Journal of the Iranian Chemical Society</i> , 2022, 19, 2279-2296.	1.2	12
93	High-Performance Hydrogel Based on Modified Chitosan for Removal of Heavy Metal Ions in Borehole: A Case Study from the Bahariya Oasis, Egypt. <i>Catalysts</i> , 2022, 12, 721.	1.6	12
94	Separation of Uranium and Rare Earth Elements with High Purity from Low-Grade Gibbsite-Bearing Shale Ore by Different Chelating Resins. <i>Journal of Dispersion Science and Technology</i> , 2012, 33, 482-489.	1.3	11
95	Solid phase extraction of uranium removal from underground water, Wadi Naseib, Southwestern Sinai, Egypt. <i>Desalination and Water Treatment</i> , 2014, 52, 331-338.	1.0	11
96	Removal of uranium (VI) from liquid waste of calcareous shale, Allouga, southwestern Sinai, Egypt. <i>Desalination and Water Treatment</i> , 2015, 54, 2530-2540.	1.0	11
97	Enhancement of photocatalytic and biological activities of chitosan/activated carbon incorporated with TiO ₂ nanoparticles. <i>Environmental Science and Pollution Research</i> , 2022, 29, 18189-18201.	2.7	11
98	Effect of Crosslinker Chemical Structure and Monomer Compositions on Adsorption of Uranium (VI) Ions Based on Reactive Crosslinked Acrylamidoxime Acrylic Acid Resins. <i>Journal of Dispersion Science and Technology</i> , 2012, 33, 490-496.	1.3	10
99	Biological decolorization of azo dyes from textile wastewater effluent by <i>Aspergillus niger</i> . <i>Egyptian Journal of Chemistry</i> , 2019, .	0.1	10
100	Photocatalytic Efficacy of Heterocyclic Base Grafted Chitosan Magnetite Nanoparticles on Sorption of Pb(II); Application on Mining Effluent. <i>Catalysts</i> , 2022, 12, 330.	1.6	10
101	Geological and radioactivity studies accompanied by uranium recovery: Um Bogma Formation, southwestern Sinai, Egypt. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 324, 1039-1051.	0.7	8
102	Effect of bi-functionalization silica micro beads on uranium adsorption from synthetic and washing pregnant uranyl solutions. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021, 330, 191-206.	0.7	6
103	Tuning the sorption properties of amidoxime-functionalized algal/polyethyleneimine beads for La(III) and Dy(III) using EDTA: Impact of metal speciation on selective separation. <i>Chemical Engineering Journal</i> , 2022, 431, 133214.	6.6	6
104	Removal of Banana Tree Fungi Using Green Tuff Rock Powder Waste Containing Zeolite. <i>Catalysts</i> , 2019, 9, 1049.	1.6	3