

Bahaa A Hemdan

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,149
citations

361296

20
h-index

434063

31
g-index

50
all docs

50
docs citations

50
times ranked

684
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, Synthesis, and Antimicrobial Activities of 1,2,3-Triazole Glycoside Clickamers. <i>Molecules</i> , 2020, 25, 790.	1.7	80
2	Green sol-gel synthesis of novel nanoporous copper aluminosilicate for the eradication of pathogenic microbes in drinking water and wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2019, 26, 9508-9523.	2.7	76
3	Synthesis, molecular docking and antimicrobial activity of new fused pyrimidine and pyridine derivatives. <i>Bioorganic Chemistry</i> , 2020, 96, 103516.	2.0	69
4	Assessment of in situ-Prepared Polyvinylpyrrolidone-Silver Nanocomposite for Antimicrobial Applications. <i>Acta Physica Polonica A</i> , 2017, 131, 1554-1560.	0.2	65
5	Synthesis of novel chitosan-PVC conjugates encompassing Ag nanoparticles as antibacterial polymers for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2019, 121, 707-717.	3.6	61
6	Thermosensitive chitosan/phosphate hydrogel-composites fortified with Ag versus Ag@Pd for biomedical applications. <i>Life Sciences</i> , 2018, 194, 185-195.	2.0	42
7	Biocompatibility enhancement of graphene oxide-silver nanocomposite by functionalisation with polyvinylpyrrolidone. <i>IET Nanobiotechnology</i> , 2019, 13, 816-823.	1.9	40
8	Facile synthesis and potential application of Ni _{0.6} Zn _{0.4} Fe ₂ O ₄ and Ni _{0.6} Zn _{0.2} Ce _{0.2} Fe ₂ O ₄ magnetic nanocubes as a new strategy in sewage treatment. <i>Journal of Environmental Management</i> , 2020, 270, 110816.	3.8	39
9	Identification of Fe ³⁺ co-doped zinc titanate mesostructures using dielectric and antimicrobial activities. <i>International Journal of Environmental Science and Technology</i> , 2020, 17, 4481-4494.	1.8	38
10	The role of biofilm in the development and dissemination of ubiquitous pathogens in drinking water distribution systems: an overview of surveillance, outbreaks, and prevention. <i>World Journal of Microbiology and Biotechnology</i> , 2021, 37, 36.	1.7	38
11	Microstructure and Antimicrobial Properties of Bioactive Cobalt Co-Doped Copper Aluminosilicate Nanocrystallines. <i>Silicon</i> , 2020, 12, 2317-2327.	1.8	36
12	Survival of <i>E. coli</i> O157:H7, <i>Salmonella</i> Typhimurium, HAdV2 and MNV-1 in river water under dark conditions and varying storage temperatures. <i>Science of the Total Environment</i> , 2019, 648, 1297-1304.	3.9	32
13	Integrated use of nickel cobalt aluminoferrite/Ni ²⁺ nano-crystallites supported with SiO ₂ for optomagnetic and biomedical applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 274, 115491.	1.7	28
14	Metagenomics analysis of bacterial structure communities within natural biofilm. <i>Heliyon</i> , 2019, 5, e02271.	1.4	26
15	Nanoceramics and novel functionalized silicate-based magnetic nanocomposites as substitutional disinfectants for water and wastewater purification. <i>Environmental Science and Pollution Research</i> , 2020, 27, 26668-26680.	2.7	26
16	High performance of talented copper/magneso-zinc titanate nanostructures as biocidal agents for inactivation of pathogens during wastewater disinfection. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3585-3601.	1.6	25
17	Synthesis, structural analysis, electrochemical and antimicrobial activities of copper magnesium zirconosilicate (Cu ₂₀ Mg ₁₀ Si ₄₀ Zr _(30-x) O _(x=0,5,7,10) Ni ²⁺) nanocrystals. <i>Microchemical Journal</i> , 2021, 163, 105881.	2.3	25
18	Utilization of food waste for bio-hydrogen and bio-methane production: influences of temperature, OLR, and in situ aeration. <i>Journal of Material Cycles and Waste Management</i> , 2020, 22, 1218-1226.	1.6	24

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19	Decontamination of ubiquitous harmful microbial lineages in water using an innovative Zn ₂ Ti _{0.8} Fe _{0.2} O ₄ nanostructure: dielectric and terahertz properties. <i>Heliyon</i> , 2019, 5, e02501.	1.4	23
20	Antibacterial Activities and Molecular Docking of Novel Sulfone Biscompound Containing Bioactive 1,2,3-Triazole Moiety. <i>Molecules</i> , 2021, 26, 4817.	1.7	23
21	Structural and Opto-Magnetic Properties of Nickel Magnesium Copper Zircon Silicate Nano-Composite for Suppress the Spread of Foodborne Pathogenic bacteria. <i>Silicon</i> , 2022, 14, 6645-6660.	1.8	23
22	The destruction of <i>Escherichia coli</i> adhered to pipe surfaces in a model drinking water distribution system via various antibiofilm agents. <i>Water Environment Research</i> , 2020, 92, 2155-2167.	1.3	21
23	Modern Template Design and Biological Evaluation of Cephadrine-loaded Magnesium Calcium Silicate Nanocomposites as an Inhibitor for Nosocomial Bacteria in Biomedical Applications. <i>Silicon</i> , 2021, 13, 2979-2991.	1.8	21
24	Talented Bi _{0.5} Na _{0.25} K _{0.25} TiO ₃ /oxidized cellulose films for optoelectronic and bioburden of pathogenic microbes. <i>Carbohydrate Polymers</i> , 2022, 291, 119656.	5.1	20
25	Synthesis and antibiofilm activity of 1,2,3-triazole-pyridine hybrids against methicillin-resistant <i>Staphylococcus aureus</i> (MRSA). <i>New Journal of Chemistry</i> , 2021, 45, 10822-10830.	1.4	19
26	Assessment of the antimicrobial activity of the lipoidal and pigment extracts of <i>Punica granatum</i> L. leaves. <i>Acta Ecologica Sinica</i> , 2019, 39, 89-94.	0.9	18
27	Bioelectrochemical systems-based metal recovery: Resource, conservation and recycling of metallic industrial effluents. <i>Environmental Research</i> , 2022, 204, 112346.	3.7	18
28	Bioactive tri-component nanofibers from cellulose acetate/lignin//N-vanillidene-phenylthiazole copper-(II) complex for potential diaper dermatitis control. <i>International Journal of Biological Macromolecules</i> , 2022, 205, 703-718.	3.6	18
29	Phenotyping using semi-automated BIOLOG and conventional PCR for identification of <i>Bacillus</i> isolated from biofilm of sink drainage pipes. <i>Acta Ecologica Sinica</i> , 2018, 38, 334-338.	0.9	17
30	Ecofriendly synthesis and characterization of Ni ²⁺ codoped silica magnesium zirconium copper nanoceramics for wastewater treatment applications. <i>Scientific Reports</i> , 2022, 12, .	1.6	17
31	Synthesis, in vitro antimicrobial evaluation, and molecular docking studies of new isatin-1,2,3-triazole hybrids. <i>Journal of Molecular Structure</i> , 2022, 1250, 131855.	1.8	15
32	Prevalence of <i>E. coli</i> , <i>Salmonella</i> , and <i>Listeria</i> spp. as potential pathogens: A comparative study for biofilm of sink drain environment. <i>Journal of Food Safety</i> , 2020, 40, e12816.	1.1	14
33	Quantification of the Metabolic Activities of Natural Biofilm of Different Microenvironments. <i>Journal of Environmental Science and Technology</i> , 2017, 10, 131-138.	0.3	14
34	Morphological, impedance and terahertz properties of zinc titanate/Fe ₃ O ₄ nanocrystalline for suppression of <i>Pseudomonas aeruginosa</i> biofilm. <i>Nano Structures Nano Objects</i> , 2021, 26, 100715.	1.9	13
35	Bioremediation of oil-contaminated water by bacterial consortium immobilized on environment-friendly biocarriers. <i>Journal of the Egyptian Public Health Association</i> , The, 2017, 92, 44-51.	1.0	12
36	Potential use of treated domestic sewage for cultivation of biofuel crops in Egypt. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 7433-7442.	1.8	10

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37	Novel Thiadiazole-Based Molecules as Promising Inhibitors of Black Fungi and Pathogenic Bacteria: In Vitro Antimicrobial Evaluation and Molecular Docking Studies. <i>Molecules</i> , 2022, 27, 3613.	1.7	10
38	Chitosan-PVC conjugates/metal nanoparticles for biomedical applications. <i>Polymers for Advanced Technologies</i> , 2022, 33, 514-523.	1.6	8
39	Spectroscopic and magnetic properties of Co _{0.15} Al _{0.25-x} Ni _{0.6+x} Fe ₂ O ₄ nanocomposites aided by silica for prohibiting pathogenic bacteria during sewage handling. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2022, 18, 100672.	1.7	8
40	Emerging Bioanalytical Devices and Platforms for Rapid Detection of Pathogens in Environmental Samples. <i>Micromachines</i> , 2022, 13, 1083.	1.4	8
41	Enhancing Biomass, Energy and Value Added Compounds Yield from Pilot Scale Pond System. <i>Journal of Environmental Science and Technology</i> , 2018, 11, 199-208.	0.3	6
42	Impact of Pipe Materials and Chlorination on Planktonic and Biofilm Cells of <i>Listeria monocytogenes</i> . <i>The Open Conference Proceedings Journal</i> , 2015, 6, 41-50.	0.6	5
43	Sol-gel preparation of bioactive nanoporous (Al ₂ O ₃ : CuO) Tj ETQq1 1 0.784314 rgBT /Overlock <i>Journal of Materials Engineering Innovation</i> , 2021, 12, 37.	0.2	4
44	A dual-functional sulfone biscompound containing 1,2,3-triazole moiety for decolorization and disinfection of contaminated water. <i>Environmental Science and Pollution Research</i> , 2022, 29, 77238-77252.	2.7	4
45	Assessment of biological augmentation technology of hazardous pollutants existing in drainage water in Bahr El-Baqar drain, Egypt. <i>Egyptian Journal of Chemistry</i> , 2019, .	0.1	2
46	Bioremediation of oil-contaminated water by bacterial consortium immobilized on environment-friendly biocarriers. <i>Journal of the Egyptian Public Health Association</i> , The, 2017, 92, 44-51.	1.0	2
47	Industrial Perspective of Microbial Application of Nanoparticles Synthesis. , 2021, , 155-190.		0
48	The Spectroscopic and Antimicrobial Yield of Sol-Gel Derived Zinc Copper Silicate/E102 Nanoclusters. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 013003.	0.9	0
49	Bioaugmentation and advanced oxidation process for organic and inorganic pollutants removal and pathogenic bacteria inactivation,s for El-Rahawy Drain, Egypt. <i>Egyptian Journal of Chemistry</i> , 2020, 63, 2-6.	0.1	0