

Bahaa A Hemdan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

549
citations

14
h-index

22
g-index

50
ext. papers

807
ext. citations

3.8
avg, IF

4.94
L-index

#	Paper	IF	Citations
42	Synthesis, molecular docking and antimicrobial activity of new fused pyrimidine and pyridine derivatives. <i>Bioorganic Chemistry</i> , 2020 , 96, 103516	5.1	47
41	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	5.1	45
40	Design, Synthesis, and Antimicrobial Activities of 1,2,3-Triazole Glycoside Clickamers. <i>Molecules</i> , 2020 , 25,	4.8	38
39	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	7.9	37
38	Thermosensitive chitosan/phosphate hydrogel-composites fortified with Ag versus Ag@Pd for biomedical applications. <i>Life Sciences</i> , 2018 , 194, 185-195	6.8	35
37	Assessment of in situ-Prepared Polyvinylpyrrolidone-Silver Nanocomposite for Antimicrobial Applications. <i>Acta Physica Polonica A</i> , 2017 , 131, 1554-1560	0.6	31
36	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	7.9	22
35	Survival of E. coli O157:H7, Salmonella 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	10.2	22
34	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	3.3	21
33	Biocompatibility enhancement of graphene oxide-silver nanocomposite by functionalisation with polyvinylpyrrolidone. <i>IET Nanobiotechnology</i> , 2019 , 13, 816-823	2	21
32	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	3.4	19
31	Microstructure and Antimicrobial Properties of Bioactive Cobalt Co-Doped Copper Aluminosilicate Nanocrystallines. <i>Silicon</i> , 2020 , 12, 2317-2327	2.4	19
30	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	3.3	17
29	Decontamination of ubiquitous harmful microbial lineages in water using an innovative ZnTiFeO nanostructure: dielectric and terahertz properties. <i>Heliyon</i> , 2019 , 5, e02501	3.6	16
28	Metagenomics analysis of bacterial structure communities within natural biofilm. <i>Heliyon</i> , 2019 , 5, e022716	3.1	14
27	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	5.1	12
26	Assessment of the antimicrobial activity of the lipoidal and pigment extracts of Punica granatum L. leaves. <i>Acta Ecologica Sinica</i> , 2019 , 39, 89-94	2.7	11

25	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	4.8	11
24	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	4.4	11
23	Antibacterial Activities and Molecular Docking of Novel Sulfone Biscompound Containing Bioactive 1,2,3-Triazole Moiety. <i>Molecules</i> , 2021 , 26,	4.8	10
22	Phenotyping using semi-automated BIOLOG and conventional PCR for identification of Bacillus isolated from biofilm of sink drainage pipes. <i>Acta Ecologica Sinica</i> , 2018 , 38, 334-338	2.7	9
21	Quantification of the Metabolic Activities of Natural Biofilm of Different Microenvironments. <i>Journal of Environmental Science and Technology</i> , 2017 , 10, 131-138	0.6	9
20	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	2.4	9
19	Prevalence of E. coli, Salmonella, and Listeria spp. as potential pathogens: A comparative study for biofilm of sink drain environment. <i>Journal of Food Safety</i> , 2020 , 40, e12816	2	8
18	Bioremediation of oil-contaminated water by bacterial consortium immobilized on environment-friendly biocarriers. <i>Journal of the Egyptian Public Health Association, The</i> , 2017 , 92, 44-51	2.2	8
17	The destruction of Escherichia coli adhered to pipe surfaces in a model drinking water distribution system via various antibiofilm agents. <i>Water Environment Research</i> , 2020 , 92, 2155-2167	2.8	6
16	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	0.6	5
15	Morphological, impedance and terahertz properties of zinc titanate/Fe ³⁺ nanocrystalline for suppression of Pseudomonas aeruginosa biofilm. <i>Nano Structures Nano Objects</i> , 2021 , 26, 100715	5.6	5
14	Synthesis and antibiofilm activity of 1,2,3-triazole-pyridine hybrids against methicillin-resistant Staphylococcus aureus (MRSA). <i>New Journal of Chemistry</i> , 2021 , 45, 10822-10830	3.6	5
13	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	3.3	4
12	Impact of Pipe Materials and Chlorination on Planktonic and Biofilm Cells of Listeria monocytogenes. <i>The Open Conference Proceedings Journal</i> , 2015 , 6, 41-50		4
11	Synthesis, in vitro antimicrobial evaluation, and molecular docking studies of new isatin-1,2,3-triazole hybrids. <i>Journal of Molecular Structure</i> , 2021 , 1250, 131855	3.4	3
10	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 ,	7.9	3
9	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	4.8	3
8	Bioelectrochemical systems-based metal recovery: Resource, conservation and recycling of metallic industrial effluents. <i>Environmental Research</i> , 2022 , 204, 112346	7.9	2

7	Structural and Opto-Magnetic Properties of Nickel Magnesium Copper Zircon Silicate Nano-Composite for Suppress the Spread of Foodborne Pathogenic bacteria. <i>Silicon</i> ,1	2.4	2
6	Bioremediation of oil-contaminated water by bacterial consortium immobilized on environment-friendly biocarriers. <i>Journal of the Egyptian Public Health Association, The</i> , 2017 , 92, 44-51	2.2	1
5	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	3.1	0
4	Spectroscopic and magnetic properties of $Co_{0.15}Al_{0.25-x}Ni_{0.6+x}Fe_2O_4$ nanocomposites aided by silica for prohibiting pathogenic bacteria during sewage handling. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2022 , 18, 100672	3.3	0
3	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	10.3	0
2	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	2	
1	Industrial Perspective of Microbial Application of Nanoparticles Synthesis 2021 , 155-190		