

Bahaa A Hemdan

List of Publications by Year in Descending Order

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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 | Bioelectrochemical systems-based metal recovery: Resource, conservation and recycling of metallic industrial effluents. <i>Environmental Research</i> , 2022 , 204, 112346 | 7.9 | 2 |
| 41 | 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 | |
| 40 | 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 |
| 39 | Spectroscopic and magnetic properties of Co _{0.15} Al _{0.25} -xNi _{0.6} +xFe ₂ O 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 32 | Modern Template Design and Biological Evaluation of Cephradine-loaded Magnesium Calcium Silicate Nanocomposites as an Inhibitor for Nosocomial Bacteria in Biomedical Applications. <i>Silicon</i> , 2021 , 13, 2979-2991 | 2.4 | 9 |
| 31 | 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 |
| 30 | Industrial Perspective of Microbial Application of Nanoparticles Synthesis 2021 , 155-190 | | |
| 29 | 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 |
| 28 | Antibacterial Activities and Molecular Docking of Novel Sulfone Biscompound Containing Bioactive 1,2,3-Triazole Moiety. <i>Molecules</i> , 2021 , 26, | 4.8 | 10 |
| 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 | 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 |

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| 25 | 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 |
| 24 | 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 |
| 23 | Design, Synthesis, and Antimicrobial Activities of 1,2,3-Triazole Glycoside Clickamers. <i>Molecules</i> , 2020 , 25, | 4.8 | 38 |
| 22 | 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 |
| 21 | 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 |
| 20 | Synthesis, molecular docking and antimicrobial activity of new fused pyrimidine and pyridine derivatives. <i>Bioorganic Chemistry</i> , 2020 , 96, 103516 | 5.1 | 47 |
| 19 | Microstructure and Antimicrobial Properties of Bioactive Cobalt Co-Doped Copper Aluminosilicate Nanocrystallines. <i>Silicon</i> , 2020 , 12, 2317-2327 | 2.4 | 19 |
| 18 | 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 |
| 17 | Metagenomics analysis of bacterial structure communities within natural biofilm. <i>Heliyon</i> , 2019 , 5, e0227316 | 3.1 | 14 |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 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 | 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 |
| 11 | Biocompatibility enhancement of graphene oxide-silver nanocomposite by functionalisation with polyvinylpyrrolidone. <i>IET Nanobiotechnology</i> , 2019 , 13, 816-823 | 2 | 21 |
| 10 | 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 |
| 9 | 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 |
| 8 | 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 |

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| 7 | 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 |
| 6 | Assessment of in situ-Prepared Polyvinylpyrrolidone-Silver Nanocomposite for Antimicrobial Applications. <i>Acta Physica Polonica A</i> , 2017 , 131, 1554-1560 | 0.6 | 31 |
| 5 | 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 |
| 4 | 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 |
| 3 | 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 |
| 2 | 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 | | 4 |
| 1 | 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 |