

Ahmed R Wassel

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Antimicrobial and Antiviral Activities of Durable Cotton Fabrics Treated with Nanocomposite Based on Zinc Oxide Nanoparticles, Acyclovir, Nanochitosan, and Clove Oil. <i>Applied Biochemistry and Biotechnology</i> , 2022, 194, 783-800.	2.9	51
2	Physical and optoelectronic characteristics of novel low-cost synthesized coumarin dye-based metal-free thin films for light sensing applications. <i>Materials Science in Semiconductor Processing</i> , 2022, 137, 106225.	4.0	22
3	On the optoelectronic performance of solution-processable N-(4-methoxy-2-nitrophenyl) acetamide microrods thin films for efficient light detection applications. <i>Surfaces and Interfaces</i> , 2022, 30, 101953.	3.0	2
4	Optical dispersion and photovoltaic performance of safranin thin films solar cells in hybrid organic-inorganic isotype heterojunction configuration. <i>Materials Research Bulletin</i> , 2022, 151, 111824.	5.2	17
5	Investigate the structure, mechanical, and optical properties of a novel cadmium phosphate glass containing vanadium oxide. <i>Optik</i> , 2022, 261, 169214.	2.9	2
6	Multi-functional platform based on amorphous Ge ₂ Sb ₂ Te ₅ thin films for photo/thermodetection and non-volatile memory applications. <i>Materials Science in Semiconductor Processing</i> , 2022, 149, 106856.	4.0	3
7	Integration of biocompatible Coomassie Brilliant Blue dye on silicon in organic/Inorganic heterojunction for photodetection applications. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 169, 110890.	4.0	10
8	Structural, spectroscopic and electrical investigations of novel organic thin films bearing push-pull azo Phenol dye for UV photodetection applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 248, 119243.	3.9	21
9	Silver chromate doped Ti-based metal organic framework: synthesis, characterization, and electrochemical and selective photocatalytic reduction properties. <i>New Journal of Chemistry</i> , 2021, 45, 9526-9537.	2.8	26
10	Influence of Al, Fe, and Cu on the microstructure, diffused reflectance, THz, and dielectric properties for ZnTiO ₃ nanocrystalline. <i>International Journal of Materials Engineering Innovation</i> , 2021, 12, 115.	0.5	13
11	Influence of Al, Fe, and Cu on the microstructure, diffused reflectance, THz, and dielectric properties for ZnTiO ₃ nanocrystalline. <i>International Journal of Materials Engineering Innovation</i> , 2021, 12, 115.	0.5	0
12	Enhancement of structure and optical dispersion properties of N,N'-Bis(3-methylphenyl)-N,N'-diphenylbenzidine thin films: Impact of UV irradiation. <i>Optical Materials</i> , 2021, 113, 110867.	3.6	18
13	Visible-light driven photocatalytic effectiveness for solid-state synthesis of ZnO/natural clay/TiO ₂ nanoarchitectures towards complete decolorization of methylene blue from aqueous solution. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021, 15, 100425.	2.9	17
14	Immobilization of horseradish peroxidase on cationic microporous starch: Physico-bio-chemical characterization and removal of phenolic compounds. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 734-742.	7.5	34
15	Structural and optical characterizations of the thermally evaporated Pb Ga Se thin films. <i>Optik</i> , 2021, 238, 166610.	2.9	7
16	Impact of copper oxide on the structural, optical, and dielectric properties of sodium borophosphate glass. <i>Journal of Non-Crystalline Solids</i> , 2021, 568, 120961.	3.1	12
17	Multifunctional 3D cationic starch/nanofibrillated cellulose/silver nanoparticles nanocomposite cryogel: Synthesis, adsorption, and antibacterial characteristics. <i>International Journal of Biological Macromolecules</i> , 2021, 189, 420-431.	7.5	28
18	Experimental and theoretical investigations on fouling resistant cellulose acetate/SiO ₂ NPs/PEDOT ultrafiltration nanocomposite membranes. <i>Journal of Cleaner Production</i> , 2021, 324, 129288.	9.3	12

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19	Emphasis of some physical and dynamical properties of inverted barium phosphate base glass. <i>Journal of Materials Research and Technology</i> , 2021, 15, 4813-4825.	5.8	4
20	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.	3.2	131
21	Characterization of CuZnO Nanocomposite Thin Films Prepared from CuO/ZnO Sputtered Films. <i>Journal of Electronic Materials</i> , 2020, 49, 7179-7186.	2.2	6
22	Polyaniline/zinc/aluminum nanocomposites for multifunctional smart cotton fabrics. <i>Materials Chemistry and Physics</i> , 2020, 249, 123210.	4.0	27
23	Encapsulation of extremely stable polyaniline onto Bio-MOF: Photo-activated antimicrobial and depletion of ciprofloxacin from aqueous solutions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 400, 112703.	3.9	33
24	Bone bonding augmentation and synergetic attitude of gamma-irradiated modified borate bioglass. <i>Radiation Physics and Chemistry</i> , 2020, 176, 109018.	2.8	9
25	Enhancement of organic/inorganic hybrid photodetector based on pentacene/n-Si by surface plasmonic effect of gold and silver nanoparticles: A comparative study. <i>Optics and Laser Technology</i> , 2020, 131, 106395.	4.6	29
26	Recent advances in polymer/metal/metal oxide hybrid nanostructures for catalytic applications: a review. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104175.	6.7	64
27	Synthesis and characterization of the chemically deposited SnS _{1-x} Se _x thin films: structural, linear and nonlinear optical properties. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	33
28	Novel hyper branched polyaniline nanocomposites for gamma radiation dosimetry. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 5914-5925.	2.2	16
29	Processing of electric ceramic insulators from slate rocks and MgO. <i>Materials and Manufacturing Processes</i> , 2020, 35, 893-900.	4.7	3
30	Structural, optical and photoelectrical characteristics of 4-methoxy-2-nitroaniline for optoelectronic applications. <i>Materials Science in Semiconductor Processing</i> , 2020, 116, 105124.	4.0	20
31	Investigating the effect of thickness on the structural, morphological, optical and electrical properties of AgBiSe ₂ thin films. <i>Journal of Alloys and Compounds</i> , 2019, 805, 1-11.	5.5	45
32	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.	3.2	23
33	Enhancement the structural, optical and nonlinear optical properties of cadmium phosphate glasses by nickel ions. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 18058-18064.	2.2	21
34	A novel nano-size lanthanum metal-organic framework based on 5-aminoisophthalic acid and phenylenediamine: Photoluminescence study and sensing applications. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4777.	3.5	43
35	Adjustment of morphological and dielectric properties of ZnTiO ₃ nanocrystalline using Al ₂ O ₃ nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	14
36	Synthesis, characterization and antimicrobial activity of Schiff bases from chitosan and salicylaldehyde/TiO ₂ nanocomposite membrane. <i>International Journal of Biological Macromolecules</i> , 2019, 124, 802-809.	7.5	72

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37	Spectroscopic and Antimicrobial Activity of Hybrid Chitosan/Silica Membranes doped with Al ₂ O ₃ Nanoparticles. <i>Silicon</i> , 2019, 11, 1677-1685.	3.3	16
38	Effect of Cu incorporation on morphology and optical band gap properties of nano-porous lithium magnesio-silicate (LMS) thin films. <i>Materials Research Express</i> , 2019, 6, 016404.	1.6	32
39	Compatibility and Bone Bonding Efficiency of Gamma Irradiated Hench™s Bioglass. <i>Silicon</i> , 2018, 10, 1533-1541.	3.3	13