# Ahmed R Wassel

List of Publications by Year
in descending order



| 39 | 949 | 394421 19 | 454955 30 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 39 | 39 | 39 | 835 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Optimization of green biosynthesized visible light active CuO/ZnO nano-photocatalysts for the degradation of organic methylene blue dye. Heliyon, 2020, 6, e04896. | 3.2 | 131 |
| 2 | Synthesis, characterization and antimicrobial activity of Schiff bases from chitosan and salicylaldehyde/TiO2 nanocomposite membrane. International Journal of Biological Macromolecules, 2019, 124, 802-809. | 7.5 | 72 |
| 3 | Recent advances in polymer/metal/metal oxide hybrid nanostructures for catalytic applications: a review. Journal of Environmental Chemical Engineering, 2020, 8, 104175. | 6.7 | 64 |
| 4 | Antimicrobial and Antiviral Activities of Durable Cotton Fabrics Treated with Nanocomposite Based on Zinc Oxide Nanoparticles, Acyclovir, Nanochitosan, and Clove Oil. Applied Biochemistry and Biotechnology, 2022, 194, 783-800. | 2.9 | 51 |
| 5 | Investigating the effect of thickness on the structural, morphological, optical and electrical properties of AgBiSe2 thin films. Journal of Alloys and Compounds, 2019, 805, 1-11. | 5.5 | 45 |
| 6 | A novel nanoâ€size lanthanum metalâ€“organic framework based on 5â€aminoâ€isophthalic acid and phenylenediamine: Photoluminescence study and sensing applications. Applied Organometallic Chemistry, 2019, 33, e4777. | 3.5 | 43 |
| 7 | Immobilization of horseradish peroxidase on cationic microporous starch: Physico-bio-chemical characterization and removal of phenolic compounds. International Journal of Biological Macromolecules, 2021, 181, 734-742. | 7.5 | 34 |
| 8 | Encapsulation of extremely stable polyaniline onto Bio-MOF: Photo-activated antimicrobial and depletion of ciprofloxacin from aqueous solutions. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 400, 112703. | 3.9 | 33 |
| 9 | Synthesis and characterization of the chemically deposited SnS1â^'x Sex thin films: structural, linear and nonlinear optical properties. Applied Physics A: Materials Science and Processing, 2020, 126, 1. | 2.3 | 33 |
| 10 | Effect of Cu incorporation on morphology and optical band gap properties of nano-porous lithium magneso-silicate (LMS) thin films. Materials Research Express, 2019, 6, 016404. | 1.6 | 32 |
| 11 | Enhancement of organic/inorganic hybrid photodetector based on pentacene/n-Si by surface plasmonic effect of gold and silver nanoparticles: A comparative study. Optics and Laser Technology, 2020, 131, 106395. | 4.6 | 29 |
| 12 | Multifunctional 3D cationic starch/nanofibrillated cellulose/silver nanoparticles nanocomposite cryogel: Synthesis, adsorption, and antibacterial characteristics. International Journal of Biological Macromolecules, 2021, 189, 420-431. | 7.5 | 28 |
| 13 | Polyaniline/zinc/aluminum nanocomposites for multifunctional smart cotton fabrics. Materials Chemistry and Physics, 2020, 249, 123210. | 4.0 | 27 |
| 14 | Silver chromate doped Ti-based metal organic framework: synthesis, characterization, and electrochemical and selective photocatalytic reduction properties. New Journal of Chemistry, 2021, 45, 9526-9537. | 2.8 | 26 |
| 15 | Decontamination of ubiquitous harmful microbial lineages in water using an innovative Zn2Ti0.8Fe0.2O4 nanostructure: dielectric and terahertz properties. Heliyon, 2019, 5, e02501. | 3.2 | 23 |
| 16 | Physical and optoelectronic characteristics of novel low-cost synthesized coumarin dye-based metal-free thin films for light sensing applications. Materials Science in Semiconductor Processing, 2022, 137, 106225. | 4.0 | 22 |
| 17 | Enhancement the structural, optical and nonlinear optical properties of cadmium phosphate glasses by nickel ions. Journal of Materials Science: Materials in Electronics, 2019, 30, 18058-18064. | 2.2 | 21 |
| 18 | Structural, spectroscopic and electrical investigations of novel organic thin films bearing push-pull azo â€“ Phenol dye for UV photodetection applications. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 248, 119243. | 3.9 | 21 |

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|---|---|---|---|
| 19 | Structural, optical and photoelectrical characteristics of 4-methoxy-2-nitroaniline for optoelectronic applications. Materials Science in Semiconductor Processing, 2020, 116, 105124. | 4.0 | 20 |
| 20 | Enhancement of structure and optical dispersion properties of N,Nâ€²-Bis(3-methylphenyl)-N,Nâ€²-diphenylbenzidine thin films: Impact of UV irradiation. Optical Materials, 2021, 113, 110867. | 3.6 | 18 |
| 21 | Visible-light driven photocatalytic effectiveness for solid-state synthesis of ZnO/natural clay/TiO2 nanoarchitectures towards complete decolorization of methylene blue from aqueous solution. Environmental Nanotechnology, Monitoring and Management, 2021, 15, 100425. | 2.9 | 17 |
| 22 | Optical dispersion and photovoltaic performance of safranin thin films solar cells in hybrid organic-inorganic isotype heterojunction configuration. Materials Research Bulletin, 2022, 151, 111824. | 5.2 | 17 |
| 23 | Spectroscopic and Antimicrobial Activity of Hybrid Chitosan/Silica Membranes doped with Al2O3 Nanoparticles. Silicon, 2019, 11, 1677-1685. | 3.3 | 16 |
| 24 | Novel hyper branched polyaniline nanocomposites for gamma radiation dosimetry. Journal of Materials Science: Materials in Electronics, 2020, 31, 5914-5925. | 2.2 | 16 |
| 25 | Adjustment of morphological and dielectric properties of ZnTiO3 nanocrystalline using Al2O3 nanoparticles. Applied Physics A: Materials Science and Processing, 2019, 125, 1. | 2.3 | 14 |
| 26 | Compatibility and Bone Bonding Efficiency of Gamma Irradiated Henchâ€™s Bioglass. Silicon, 2018, 10, 1533-1541. | 3.3 | 13 |
| 27 | Influence of Al, Fe, and Cu on the microstructure, diffused reflectance, THz, and dielectric properties for ZnTiO<SUB align="right">3 nanocrystalline. International Journal of Materials Engineering Innovation, 2021, 12, 115. | 0.5 | 13 |
| 28 | Impact of copper oxide on the structural, optical, and dielectric properties of sodium borophosphate glass. Journal of Non-Crystalline Solids, 2021, 568, 120961. | 3.1 | 12 |
| 29 | Experimental and theoretical investigations on fouling resistant cellulose acetate/SiO2 NPs/PEDOT ultrafiltration nanocomposite membranes. Journal of Cleaner Production, 2021, 324, 129288. | 9.3 | 12 |
| 30 | Integration of biocompatible Coomassie Brilliant Blue dye on silicon in organic/Inorganic heterojunction for photodetection applications. Journal of Physics and Chemistry of Solids, 2022, 169, 110890. | 4.0 | 10 |
| 31 | Bone bonding augmentation and synergetic attitude of gamma-irradiated modified borate bioglass. Radiation Physics and Chemistry, 2020, 176, 109018. | 2.8 | 9 |
| 32 | Structural and optical characterizations of the thermally evaporated Pb Ga Se thin films. Optik, 2021, 238, 166610. | 2.9 | 7 |
| 33 | Characterization of CuZnO Nanocomposite Thin Films Prepared from CuOâ€“ZnO Sputtered Films. Journal of Electronic Materials, 2020, 49, 7179-7186. | 2.2 | 6 |
| 34 | Emphasis of some physical and dynamical properties of inverted barium phosphate base glass. Journal of Materials Research and Technology, 2021, 15, 4813-4825. | 5.8 | 4 |
| 35 | Processing of electric ceramic insulators from slate rocks and MgO. Materials and Manufacturing Processes, 2020, 35, 893-900. | 4.7 | 3 |
| 36 | Multi-functional platform based on amorphous Ge2Sb2Te5 thin films for photo/thermodetection and non-volatile memory applications. Materials Science in Semiconductor Processing, 2022, 149, 106856. | 4.0 | 3 |

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|---|---|---|---|
| 37 | On the optoelectronic performance of solution-processable N-(4-methoxy-2-nitrophenyl) acetamide microrods thin films for efficient light detection applications. Surfaces and Interfaces, 2022, 30, 101953. | 3.0 | 2 |
| 38 | Investigate the structure, mechanical, and optical properties of a novel cadmium phosphate glass containing vanadium oxide. Optik, 2022, 261, 169214. | 2.9 | 2 |
| 39 | Influence of Al, Fe, and Cu on the microstructure, diffused reflectance, THz, and dielectric properties for ZnTiO<SUB align="right">3 nanocrystalline. International Journal of Materials Engineering Innovation, 2021, 12, 115. | 0.5 | 0 |