

Tawfik A Khattab

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

3,153
citations

87723

38
h-index

182168

51
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90
all docs

90
docs citations

90
times ranked

1877
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Textile dyeing industry: environmental impacts and remediation. <i>Environmental Science and Pollution Research</i> , 2020, 27, 3803-3818. | 2.7 | 152 |
| 2 | Review of autoxidation and driers. <i>Progress in Organic Coatings</i> , 2012, 73, 435-454. | 1.9 | 146 |
| 3 | Recent Advances in Cellulose-Based Biosensors for Medical Diagnosis. <i>Biosensors</i> , 2020, 10, 67. | 2.3 | 102 |
| 4 | Smart textile framework: Photochromic and fluorescent cellulosic fabric printed by strontium aluminate pigment. <i>Carbohydrate Polymers</i> , 2018, 195, 143-152. | 5.1 | 96 |
| 5 | Novel solvatochromic and halochromic sulfahydrazone molecular switch. <i>Journal of Molecular Structure</i> , 2018, 1169, 96-102. | 1.8 | 69 |
| 6 | Effects of Technical Textiles and Synthetic Nanofibers on Environmental Pollution. <i>Polymers</i> , 2021, 13, 155. | 2.0 | 67 |
| 7 | Development of microporous cellulose-based smart xerogel reversible sensor via freeze drying for naked-eye detection of ammonia gas. <i>Carbohydrate Polymers</i> , 2019, 210, 196-203. | 5.1 | 65 |
| 8 | From chromic switchable hydrazones to smart materials. <i>Materials Chemistry and Physics</i> , 2020, 254, 123456. | 2.0 | 64 |
| 9 | Facile Development of Photoluminescent Textile Fabric via Spray Coating of Eu(II)-Doped Strontium Aluminate. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 11483-11492. | 1.8 | 62 |
| 10 | Development of Illuminant Glow-in-the-Dark Cotton Fabric Coated by Luminescent Composite with Antimicrobial Activity and Ultraviolet Protection. <i>Journal of Fluorescence</i> , 2019, 29, 703-710. | 1.3 | 61 |
| 11 | Colored, photocatalytic, antimicrobial and UV-protected viscose fibers decorated with Ag/Ag ₂ CO ₃ and Ag/Ag ₃ PO ₄ nanoparticles. <i>Cellulose</i> , 2019, 26, 5437-5453. | 2.4 | 59 |
| 12 | Development of Ag/AgX (X = Cl, I) nanoparticles toward antimicrobial, UV-protected and self-cleanable viscose fibers. <i>Carbohydrate Polymers</i> , 2018, 197, 227-236. | 5.1 | 58 |
| 13 | Green and Sustainable Encapsulation of Guava Leaf Extracts (<i>Psidium guajava</i> L.) into Alginate/Starch Microcapsules for Multifunctional Finish over Cotton Gauze. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18612-18623. | 3.2 | 58 |
| 14 | Development of multifunctional polyacrylonitrile/silver nanocomposite films: Antimicrobial activity, catalytic activity, electrical conductivity, UV protection and SERS-active sensor. <i>Journal of Materials Research and Technology</i> , 2020, 9, 9380-9394. | 2.6 | 55 |
| 15 | Photochromic and fluorescent ink using photoluminescent strontium aluminate pigment and screen printing towards anticounterfeiting documents. <i>Luminescence</i> , 2021, 36, 865-874. | 1.5 | 55 |
| 16 | Smart microfibrillated cellulose as swab sponge-like aerogel for real-time colorimetric naked-eye sweat monitoring. <i>Talanta</i> , 2019, 205, 120166. | 2.9 | 53 |
| 17 | Development of durable superhydrophobic cotton fabrics coated with silicone/stearic acid using different cross-linkers. <i>Materials Chemistry and Physics</i> , 2020, 249, 122981. | 2.0 | 53 |
| 18 | Plasma activation toward multi-stimuli responsive cotton fabric via in situ development of polyaniline derivatives and silver nanoparticles. <i>Cellulose</i> , 2020, 27, 2913-2926. | 2.4 | 51 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Development of electrically conductive nanocomposites from cellulose nanowhiskers, polypyrrole and silver nanoparticles assisted with Nickel(III) oxide nanoparticles. <i>Reactive and Functional Polymers</i> , 2020, 149, 104533. | 2.0 | 51 |
| 20 | Production of photochromic nanocomposite film via spray-coating of rare-earth strontium aluminate for anti-counterfeit applications. <i>Luminescence</i> , 2021, 36, 1933-1944. | 1.5 | 51 |
| 21 | Co-encapsulation of enzyme and tricyanofuran hydrazone into alginate microcapsules incorporated onto cotton fabric as a biosensor for colorimetric recognition of urea. <i>Reactive and Functional Polymers</i> , 2019, 142, 199-206. | 2.0 | 50 |
| 22 | Development of antimicrobial, UV blocked and photocatalytic self-cleanable cotton fibers decorated with silver nanoparticles using silver carbamate and plasma activation. <i>Cellulose</i> , 2021, 28, 1105-1121. | 2.4 | 50 |
| 23 | Recent advances in cellulose supported metal nanoparticles as green and sustainable catalysis for organic synthesis. <i>Cellulose</i> , 2021, 28, 4545-4574. | 2.4 | 50 |
| 24 | Development of Electrospun Nanofibrous-Walled Tubes for Potential Production of Photoluminescent Endoscopes. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10044-10055. | 1.8 | 48 |
| 25 | Development of mechanically durable hydrophobic lanolin/silicone rubber coating on viscose fibers. <i>Cellulose</i> , 2019, 26, 9361-9371. | 2.4 | 47 |
| 26 | Photoluminescent spray-coated paper sheet: Write-in-the-dark. <i>Carbohydrate Polymers</i> , 2018, 200, 154-161. | 5.1 | 45 |
| 27 | Development of One-Step Water-Repellent and Flame-Retardant Finishes for Cotton. <i>ChemistrySelect</i> , 2019, 4, 3811-3816. | 0.7 | 45 |
| 28 | Development of long-persistent photoluminescent epoxy resin immobilized with europium (II)-doped strontium aluminate. <i>Luminescence</i> , 2020, 35, 478-485. | 1.5 | 45 |
| 29 | Novel halochromic cellulose nanowhiskers from rice straw: Visual detection of urea. <i>Carbohydrate Polymers</i> , 2020, 231, 115740. | 5.1 | 45 |
| 30 | Development of colorimetric cotton swab using molecular switching hydrazone probe in calcium alginate. <i>Journal of Molecular Structure</i> , 2020, 1216, 128301. | 1.8 | 45 |
| 31 | Solvatochromic, thermochromic and pH-sensory DCDHF-hydrazone molecular switch: response to alkaline analytes. <i>RSC Advances</i> , 2016, 6, 102296-102305. | 1.7 | 44 |
| 32 | Fabrication of PAN-TCF-hydrazone nanofibers by solution blowing spinning technique: Naked-eye colorimetric sensor. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2515-2523. | 3.3 | 44 |
| 33 | pH triggered smart organogel from DCDHF-Hydrazone molecular switch. <i>Dyes and Pigments</i> , 2016, 130, 327-336. | 2.0 | 43 |
| 34 | Immobilization of anthocyanin extract from red-cabbage into electrospun polyvinyl alcohol nanofibers for colorimetric selective detection of ferric ions. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105072. | 3.3 | 43 |
| 35 | Facile development of photochromic cellulose acetate transparent nanocomposite film immobilized with lanthanide-doped pigment: ultraviolet blocking, superhydrophobic, and antimicrobial activity. <i>Luminescence</i> , 2021, 36, 543-555. | 1.5 | 42 |
| 36 | A bipyridinium-based polyhydrazone adsorbent that exhibits ultrahigh adsorption capacity for the anionic azo dye, direct blue 71. <i>Chemical Engineering Journal</i> , 2021, 409, 128195. | 6.6 | 42 |

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|----|---|-----|-----------|
| 37 | Luminescent plant root: A step toward electricity-free natural lighting plants. <i>Journal of Molecular Structure</i> , 2019, 1176, 249-253. | 1.8 | 41 |
| 38 | Development of highly photoluminescent electrospun nanofibers for dual-mode secure authentication. <i>Ceramics International</i> , 2022, 48, 3495-3503. | 2.3 | 40 |
| 39 | Electrospun Nanofibers from a Tricyanofuran-Based Molecular Switch for Colorimetric Recognition of Ammonia Gas. <i>Chemistry - A European Journal</i> , 2016, 22, 4157-4163. | 1.7 | 39 |
| 40 | Synthesis and application of novel tricyanofuran hydrazone dyes as sensors for detection of microbes. <i>Coloration Technology</i> , 2016, 132, 460-465. | 0.7 | 39 |
| 41 | Development of functional glow-in-the-dark photoluminescence linen fabrics with ultraviolet sensing and shielding. <i>Luminescence</i> , 2022, 37, 1376-1386. | 1.5 | 39 |
| 42 | Novel cellulose-based halochromic test strips for naked-eye detection of alkaline vapors and analytes. <i>Talanta</i> , 2017, 170, 137-145. | 2.9 | 38 |
| 43 | Optical Recognition of Ammonia and Amine Vapor Using "Turn-on" Fluorescent Chitosan Nanoparticles Imprinted on Cellulose Strips. <i>Journal of Fluorescence</i> , 2019, 29, 693-702. | 1.3 | 38 |
| 44 | Preparation of flame-retardant, hydrophobic, ultraviolet protective, and luminescent transparent wood. <i>Luminescence</i> , 2021, 36, 1922-1932. | 1.5 | 38 |
| 45 | Naked-eye facile colorimetric detection of alkylphenols using Fe(III)-impregnated silica-based strips. <i>Chemical Papers</i> , 2018, 72, 1553-1559. | 1.0 | 36 |
| 46 | Studies of Polylactic Acid and Metal Oxide Nanoparticles-Based Composites for Multifunctional Textile Prints. <i>Coatings</i> , 2020, 10, 58. | 1.2 | 36 |
| 47 | Facile development of microporous cellulose acetate xerogel immobilized with hydrazone probe for real time vapo-chromic detection of toxic ammonia. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104573. | 3.3 | 34 |
| 48 | Preparation of green and sustainable colorimetric cotton assay using natural anthocyanins for sweat sensing. <i>International Journal of Biological Macromolecules</i> , 2021, 190, 894-903. | 3.6 | 31 |
| 49 | Microwave-Assisted Synthesis of Arylazoaminopyrazoles as Disperse Dyes for Textile Printing. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016, 642, 766-772. | 0.6 | 30 |
| 50 | Electrospun PDA-CA Nanofibers toward Hydrophobic Coatings. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016, 642, 219-221. | 0.6 | 30 |
| 51 | Synthesis, Solvatochromism, Antibacterial Activity and Dyeing Performance of Tricyanofuran-Hydrazone Analogues. <i>ChemistrySelect</i> , 2016, 1, 6805-6809. | 0.7 | 30 |
| 52 | Development of Green and Sustainable Cellulose Acetate/Graphene Oxide Nanocomposite Films as Efficient Adsorbents for Wastewater Treatment. <i>Polymers</i> , 2020, 12, 2501. | 2.0 | 29 |
| 53 | Hydrazone-Based Supramolecular Organogel for Selective Chromogenic Detection of Organophosphorus Nerve Agent Mimic. <i>ChemistrySelect</i> , 2021, 6, 2002-2009. | 0.7 | 27 |
| 54 | Synthesis and Self-Assembly of Novel Tetrazine-Based Gelator. <i>Helvetica Chimica Acta</i> , 2018, 101, e1800009. | 1.0 | 26 |

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|----|---|-----|-----------|
| 55 | Development of a novel colorimetric thermometer based on poly(<i>N</i> -vinylcaprolactam) with push-pull tricyanofuran hydrazone anion dye. <i>New Journal of Chemistry</i> , 2021, 45, 5382-5390. | 1.4 | 26 |
| 56 | Selective Colorimetric Detection of Fe (III) Using Metallochromic Tannin-Impregnated Silica Strips. <i>ChemistrySelect</i> , 2018, 3, 12065-12071. | 0.7 | 22 |
| 57 | Synthesis, Solvatochromic Performance, pH Sensing, Dyeing Ability, and Antimicrobial Activity of Novel Hydrazone Dyestuffs. <i>Journal of Chemistry</i> , 2019, 2019, 1-10. | 0.9 | 22 |
| 58 | Polymerization products of lactic acid as synthetic thickening agents for textile printing. <i>Journal of Molecular Structure</i> , 2020, 1203, 127421. | 1.8 | 22 |
| 59 | From Smart Materials to Chromic Textiles. <i>Textile Science and Clothing Technology</i> , 2020, , 257-274. | 0.4 | 22 |
| 60 | Preparation of cellulose-based electrospun fluorescent nanofibres doped with perylene encapsulated in silica nanoparticles for potential flexible electronics. <i>Luminescence</i> , 2022, 37, 21-27. | 1.5 | 20 |
| 61 | Production of photoluminescent transparent poly(methyl methacrylate) for smart windows. <i>Luminescence</i> , 2022, 37, 97-107. | 1.5 | 20 |
| 62 | Photoluminescent and photochromic smart window from recycled polyester reinforced with cellulose nanocrystals. <i>Luminescence</i> , 2022, 37, 1575-1584. | 1.5 | 20 |
| 63 | Simple Development of Novel Reversible Colorimetric Thermometer Using Urea Organogel Embedded with Thermo-chromic Hydrazone Chromophore. <i>Chemosensors</i> , 2020, 8, 132. | 1.8 | 18 |
| 64 | Synthesis of lanthanide-doped strontium aluminate nanoparticles encapsulated in polyacrylonitrile nanofibres: photoluminescence properties for anticounterfeiting applications. <i>Luminescence</i> , 2022, 37, 40-50. | 1.5 | 18 |
| 65 | Advances in polysaccharide-based hydrogels: Self-healing and electrical conductivity. <i>Journal of Molecular Liquids</i> , 2022, 352, 118712. | 2.3 | 15 |
| 66 | Molecularly Imprinted Cellulose Sensor Strips for Selective Determination of Phenols in Aqueous Environment. <i>Fibers and Polymers</i> , 2020, 21, 2195-2203. | 1.1 | 14 |
| 67 | Preparation of biosensor based on triarylmethane loaded cellulose acetate xerogel for the detection of urea. <i>Materials Chemistry and Physics</i> , 2022, 276, 125377. | 2.0 | 14 |
| 68 | Green metallochromic cellulose dipstick for Fe(III) using chitosan nanoparticles and cyanidin-based natural anthocyanins red-cabbage extract. <i>International Journal of Biological Macromolecules</i> , 2022, 202, 269-277. | 3.6 | 13 |
| 69 | Facile production of smart superhydrophobic nanocomposite for wood coating towards long-lasting glow-in-the-dark photoluminescence. <i>Luminescence</i> , 2021, 36, 2004-2013. | 1.5 | 12 |
| 70 | Adsorption isotherms and kinetic studies for the removal of toxic reactive dyestuffs from contaminated water using a viologen-based covalent polymer. <i>New Journal of Chemistry</i> , 2021, 45, 18983-18993. | 1.4 | 12 |
| 71 | A review on synthesis of nitrogen-containing heterocyclic dyes for textile fibers - Part 2: Fused heterocycles. <i>Egyptian Journal of Chemistry</i> , 2018, . | 0.1 | 11 |
| 72 | Main-chain donor-acceptor polyhydrazone mediated adsorption of an anionic dye from contaminated water. <i>Reactive and Functional Polymers</i> , 2021, 158, 104795. | 2.0 | 9 |

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|----|--|-----|-----------|
| 73 | Hydrophobic and Flame-Retardant Foam Based on Cellulose. <i>Journal of Polymers and the Environment</i> , 2022, 30, 2366-2377. | 2.4 | 8 |
| 74 | Facile preparation strategy of photochromic dual-mode authentication nanofibers by solution blowing spinning of cellulose nanowhiskers-supported polyacrylonitrile. <i>Cellulose</i> , 2022, 29, 6181-6192. | 2.4 | 8 |
| 75 | Synthesis and spectral properties of symmetrical and asymmetrical 3-cyano-1,5-diarylformazan dyestuffs for dyeing polyester fabrics. <i>Egyptian Journal of Chemistry</i> , 2017, 60, 5-8. | 0.1 | 7 |
| 76 | Synthesis and characterization of some azo-heterocycles incorporating pyrazolopyridine moiety as disperse dyes. <i>Egyptian Journal of Chemistry</i> , 2017, 60, 3-4. | 0.1 | 6 |
| 77 | Synthesis of New Cyanopyridine Scaffolds and their Biological Activities. <i>Current Organic Synthesis</i> , 2020, 17, 567-575. | 0.7 | 6 |
| 78 | Preparation of epoxy resin/rare earth doped aluminate nanocomposite toward photoluminescent and superhydrophobic transparent woods. <i>Journal of Rare Earths</i> , 2023, 41, 397-405. | 2.5 | 6 |
| 79 | Preparation of Multifunctional Plasma Cured Cellulose Fibers Coated with Photo-Induced Nanocomposite toward Self-Cleaning and Antibacterial Textiles. <i>Polymers</i> , 2021, 13, 3664. | 2.0 | 5 |
| 80 | Novel fluorescent nanofibrous polyether template developed by SNAr polymerization of fluoroaryl-containing 1, 3, 4-oxadiazole: Photophysical properties, mesogenic phases and self-assembly. <i>European Polymer Journal</i> , 2022, 173, 111270. | 2.6 | 4 |
| 81 | Production of Smart Cotton-nickel Blend Fibers Using Functional Polymers Comprising Ammonium Polyphosphate and Silicone Rubber. <i>Fibers and Polymers</i> , 2022, 23, 1560-1571. | 1.1 | 3 |
| 82 | Multi-Technique Characterization and Conservation of an Ancient Egyptian Fabric from King Khufu First Solar Ship. <i>International Journal of Organic Chemistry</i> , 2021, 11, 128-143. | 0.3 | 2 |
| 83 | Recent trends in green colorants: chemistry and application. , 2021, , 301-314. | | 1 |
| 84 | A review on synthesis of nitrogen-containing heterocyclic dyes for textile fibers - Part 1: Five and six-membered heterocycles. <i>Egyptian Journal of Chemistry</i> , 2018, . | 0.1 | 1 |
| 85 | Synthesis, solvatochromic properties and pH sensory of novel symmetrical bis(tricyanofuran)hydrazone chromophore. <i>Egyptian Journal of Chemistry</i> , 2019, . | 0.1 | 1 |
| 86 | Fabrication, microstructure characterization, and degradation performance of electrospun mats based on poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/polyethylene glycol blend for potential tissue engineering. <i>Luminescence</i> , 2022, 37, 323-331. | 1.5 | 1 |