

Tawfik A Khattab

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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.

78
papers

1,785
citations

29
h-index

37
g-index

90
ext. papers

2,479
ext. citations

4.1
avg, IF

6.22
L-index

#	Paper	IF	Citations
78	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	7.9	1
77	Advances in Polysaccharide-Based Hydrogels: Self-Healing and Electrical Conductivity. <i>Journal of Molecular Liquids</i> , 2022 , 352, 118712	6	0
76	Preparation of biosensor based on triarylmethane loaded cellulose acetate xerogel for the detection of urea. <i>Materials Chemistry and Physics</i> , 2022 , 276, 125377	4.4	5
75	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 , 111270	5.2	2
74	Development of highly photoluminescent electrospun nanofibers for dual-mode secure authentication. <i>Ceramics International</i> , 2021 ,	5.1	3
73	Production of photoluminescent transparent poly(methyl methacrylate) for smart windows. <i>Luminescence</i> , 2021 ,	2.5	5
72	Recent advances in cellulose supported metal nanoparticles as green and sustainable catalysis for organic synthesis. <i>Cellulose</i> , 2021 , 28, 4545-4574	5.5	15
71	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	6.8	19
70	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	14.7	22
69	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	5.5	28
68	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	2.5	24
67	Main-chain donor-acceptor polyhydrazone mediated adsorption of an anionic dye from contaminated water. <i>Reactive and Functional Polymers</i> , 2021 , 158, 104795	4.6	5
66	Photochromic and fluorescent ink using photoluminescent strontium aluminate pigment and screen printing towards anticounterfeiting documents. <i>Luminescence</i> , 2021 , 36, 865-874	2.5	30
65	Recent trends in green colorants: chemistry and application 2021 , 301-314		
64	Hydrazone-Based Supramolecular Organogel for Selective Chromogenic Detection of Organophosphorus Nerve Agent Mimic. <i>ChemistrySelect</i> , 2021 , 6, 2002-2009	1.8	10
63	Development of Electrospun Nanofibrous-Walled Tubes for Potential Production of Photoluminescent Endoscopes. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 10044-10055	3.9	20
62	Production of photochromic nanocomposite film via spray-coating of rare-earth strontium aluminate for anti-counterfeit applications. <i>Luminescence</i> , 2021 , 36, 1933-1944	2.5	8

61	Preparation of flame-retardant, hydrophobic, ultraviolet protective, and luminescent transparent wood. <i>Luminescence</i> , 2021 , 36, 1922-1932	2.5	5
60	Facile production of smart superhydrophobic nanocomposite for wood coating towards long-lasting glow-in-the-dark photoluminescence. <i>Luminescence</i> , 2021 , 36, 2004-2013	2.5	3
59	Synthesis of lanthanide-doped strontium aluminate nanoparticles encapsulated in polyacrylonitrile nanofibres: photoluminescence properties for anticounterfeiting applications. <i>Luminescence</i> , 2021 ,	2.5	3
58	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	7.9	7
57	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	1
56	Development of a novel colorimetric thermometer based on poly(N-vinylcaprolactam) with push-pull tricyanofuran hydrazone anion dye. <i>New Journal of Chemistry</i> , 2021 , 45, 5382-5390	3.6	8
55	Effects of Technical Textiles and Synthetic Nanofibers on Environmental Pollution. <i>Polymers</i> , 2021 , 13,	4.5	20
54	Molecularly Imprinted Cellulose Sensor Strips for Selective Determination of Phenols in Aqueous Environment. <i>Fibers and Polymers</i> , 2020 , 21, 2195-2203	2	10
53	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	5.5	28
52	Recent Advances in Cellulose-Based Biosensors for Medical Diagnosis. <i>Biosensors</i> , 2020 , 10,	5.9	52
51	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	4.6	30
50	Studies of Polylactic Acid and Metal Oxide Nanoparticles-Based Composites for Multifunctional Textile Prints. <i>Coatings</i> , 2020 , 10, 58	2.9	20
49	Development of durable superhydrophobic cotton fabrics coated with silicone/stearic acid using different cross-linkers. <i>Materials Chemistry and Physics</i> , 2020 , 249, 122981	4.4	25
48	Development of colorimetric cotton swab using molecular switching hydrazone probe in calcium alginate. <i>Journal of Molecular Structure</i> , 2020 , 1216, 128301	3.4	25
47	Synthesis of New Cyanopyridine Scaffolds and their Biological Activities. <i>Current Organic Synthesis</i> , 2020 , 17, 567-575	1.9	4
46	From Smart Materials to Chromic Textiles 2020 , 257-274		2
45	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	5.5	28
44	Development of long-persistent photoluminescent epoxy resin immobilized with europium (II)-doped strontium aluminate. <i>Luminescence</i> , 2020 , 35, 478-485	2.5	30

43	Polymerization products of lactic acid as synthetic thickening agents for textile printing. <i>Journal of Molecular Structure</i> , 2020 , 1203, 127421	3-4	9
42	Textile dyeing industry: environmental impacts and remediation. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 3803-3818	5-1	55
41	Novel halochromic cellulose nanowhiskers from rice straw: Visual detection of urea. <i>Carbohydrate Polymers</i> , 2020 , 231, 115740	10-3	37
40	From chromic switchable hydrazones to smart materials. <i>Materials Chemistry and Physics</i> , 2020 , 254, 123456	4-1	44
39	Development of Green and Sustainable Cellulose Acetate/Graphene Oxide Nanocomposite Films as Efficient Adsorbents for Wastewater Treatment. <i>Polymers</i> , 2020 , 12,	4-5	13
38	Facile development of microporous cellulose acetate xerogel immobilized with hydrazone probe for real time vapochromic detection of toxic ammonia. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104573	6-8	23
37	Simple Development of Novel Reversible Colorimetric Thermometer Using Urea Organogel Embedded with Thermochromic Hydrazone Chromophore. <i>Chemosensors</i> , 2020 , 8, 132	4	10
36	Development of mechanically durable hydrophobic lanolin/silicone rubber coating on viscose fibers. <i>Cellulose</i> , 2019 , 26, 9361-9371	5-5	24
35	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	2-4	31
34	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	5-5	41
33	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	2-4	40
32	Industrial and Filtration Textiles 2019 , 215-237		2
31	Development of One-Step Water-Repellent and Flame-Retardant Finishes for Cotton. <i>ChemistrySelect</i> , 2019 , 4, 3811-3816	1-8	31
30	Synthesis, Solvatochromic Performance, pH Sensing, Dyeing Ability, and Antimicrobial Activity of Novel Hydrazone Dyestuffs. <i>Journal of Chemistry</i> , 2019 , 2019, 1-10	2-3	15
29	Environmentally Sound Dyeing of Cellulose-Based Textiles 2019 , 79-99		2
28	Smart microfibrillated cellulose as swab sponge-like aerogel for real-time colorimetric naked-eye sweat monitoring. <i>Talanta</i> , 2019 , 205, 120166	6-2	45
27	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	4-6	41
26	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	8-3	36

25	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	10.3	50
24	Luminescent plant root: A step toward electricity-free natural lighting plants. <i>Journal of Molecular Structure</i> , 2019 , 1176, 249-253	3.4	33
23	Synthesis and Self-Assembly of Novel s-Tetrazine-Based Gelator. <i>Helvetica Chimica Acta</i> , 2018 , 101, e1800009	10.3	16
22	Smart textile framework: Photochromic and fluorescent cellulosic fabric printed by strontium aluminate pigment. <i>Carbohydrate Polymers</i> , 2018 , 195, 143-152	10.3	66
21	Naked-eye facile colorimetric detection of alkylphenols using Fe(III)-impregnated silica-based strips. <i>Chemical Papers</i> , 2018 , 72, 1553-1559	1.9	32
20	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	3.9	50
19	Photoluminescent spray-coated paper sheet: Write-in-the-dark. <i>Carbohydrate Polymers</i> , 2018 , 200, 154-161	6.3	37
18	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	10.3	42
17	A review on synthesis of nitrogen-containing heterocyclic dyes for textile fibers - Part 2: Fused heterocycles. <i>Egyptian Journal of Chemistry</i> , 2018 , 0-0	2	4
16	Selective Colorimetric Detection of Fe (III) Using Metallochromic Tannin-Impregnated Silica Strips. <i>ChemistrySelect</i> , 2018 , 3, 12065-12071	1.8	16
15	Novel solvatochromic and halochromic sulfahydrazone molecular switch. <i>Journal of Molecular Structure</i> , 2018 , 1169, 96-102	3.4	41
14	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	6.8	34
13	Novel cellulose-based halochromic test strips for naked-eye detection of alkaline vapors and analytes. <i>Talanta</i> , 2017 , 170, 137-145	6.2	33
12	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	2	3
11	Solvatochromic, thermochromic and pH-sensory DCDHF-hydrazone molecular switch: response to alkaline analytes. <i>RSC Advances</i> , 2016 , 6, 102296-102305	3.7	37
10	Microwave-Assisted Synthesis of Arylazoaminopyrazoles as Disperse Dyes for Textile Printing. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016 , 642, 766-772	1.3	22
9	Electrospun PDA-CA Nanofibers toward Hydrophobic Coatings. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016 , 642, 219-221	1.3	23
8	Electrospun Nanofibers from a Tricyanofuran-Based Molecular Switch for Colorimetric Recognition of Ammonia Gas. <i>Chemistry - A European Journal</i> , 2016 , 22, 4157-63	4.8	34

7	Synthesis, Solvatochromism, Antibacterial Activity and Dyeing Performance of Tricyanofuran-Hydrazone Analogues. <i>ChemistrySelect</i> , 2016 , 1, 6805-6809	1.8	20
6	pH triggered smart organogel from DCDHF-Hydrazone molecular switch. <i>Dyes and Pigments</i> , 2016 , 130, 327-336	4.6	33
5	Synthesis and application of novel tricyanofuran hydrazone dyes as sensors for detection of microbes. <i>Coloration Technology</i> , 2016 , 132, 460-465	2	29
4	Review of autoxidation and driers. <i>Progress in Organic Coatings</i> , 2012 , 73, 435-454	4.8	120
3	Hydrophobic and Flame-Retardant Foam Based on Cellulose. <i>Journal of Polymers and the Environment</i> ,1	4.5	0
2	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> ,	3.6	5
1	Production of Smart Cotton-nickel Blend Fibers Using Functional Polymers Comprising Ammonium Polyphosphate and Silicone Rubber. <i>Fibers and Polymers</i> ,1	2	0