Tawfik A Khattab

List of Publications by Citations

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	Review of autoxidation and driers. *Progress in Organic Coatings*, **2012**, 73, 435-454	4.8	120
77	Smart textile framework: Photochromic and fluorescent cellulosic fabric printed by strontium aluminate pigment. *Carbohydrate Polymers*, **2018**, 195, 143-152	10.3	66
76	Textile dyeing industry: environmental impacts and remediation. *Environmental Science and Pollution Research*, **2020**, 27, 3803-3818	5.1	55
75	Recent Advances in Cellulose-Based Biosensors for Medical Diagnosis. *Biosensors*, **2020**, 10,	5.9	52
74	Facile Development of Photoluminescent Textile Fabric via Spray Coating of Eu(II)-Doped Strontium Aluminate. *Industrial & Engineering Chemistry Research*, **2018**, 57, 11483-11492	3.9	50
73	Development of microporous cellulose-based smart xerogel reversible sensor via freeze drying for naked-eye detection of ammonia gas. *Carbohydrate Polymers*, **2019**, 210, 196-203	10.3	50
72	Smart microfibrillated cellulose as swab sponge-like aerogel for real-time colorimetric naked-eye sweat monitoring. *Talanta*, **2019**, 205, 120166	6.2	45
71	From chromic switchable hydrazones to smart materials. *Materials Chemistry and Physics*, **2020**, 254, 123456	4.1	44
70	Development of Ag/AgX (X = Cl, I) nanoparticles toward antimicrobial, UV-protected and self-cleanable viscose fibers. *Carbohydrate Polymers*, **2018**, 197, 227-236	10.3	42
69	Colored, photocatalytic, antimicrobial and UV-protected viscose fibers decorated with Ag/Ag2CO3 and Ag/Ag3PO4 nanoparticles. *Cellulose*, **2019**, 26, 5437-5453	5.5	41
68	Co-encapsulation of enzyme and tricyanofuran hydrazone into alginate microcapsules incorporated onto cotton fabric as a biosensor for colorimetric recognition of urea. *Reactive and Functional Polymers*, **2019**, 142, 199-206	4.6	41
67	Novel solvatochromic and halochromic sulfahydrazone molecular switch. *Journal of Molecular Structure*, **2018**, 1169, 96-102	3.4	41
66	Development of Illuminant Glow-in-the-Dark Cotton Fabric Coated by Luminescent Composite with Antimicrobial Activity and Ultraviolet Protection. *Journal of Fluorescence*, **2019**, 29, 703-710	2.4	40
65	Solvatochromic, thermochromic and pH-sensory DCDHF-hydrazone molecular switch: response to alkaline analytes. *RSC Advances*, **2016**, 6, 102296-102305	3.7	37
64	Photoluminescent spray-coated paper sheet: Write-in-the-dark. *Carbohydrate Polymers*, **2018**, 200, 154-161	10.3	37
63	Novel halochromic cellulose nanowhiskers from rice straw: Visual detection of urea. *Carbohydrate Polymers*, **2020**, 231, 115740	10.3	37
62	Green and Sustainable Encapsulation of Guava Leaf Extracts (Psidium guajava L.) into Alginate/Starch Microcapsules for Multifunctional Finish over Cotton Gauze. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 18612-18623	8.3	36

61	Fabrication of PAN-TCF-hydrazone nanofibers by solution blowing spinning technique: Naked-eye colorimetric sensor. *Journal of Environmental Chemical Engineering*, **2017**, 5, 2515-2523	6.8	34
60	Electrospun Nanofibers from a Tricyanofuran-Based Molecular Switch for Colorimetric Recognition of Ammonia Gas. *Chemistry - A European Journal*, **2016**, 22, 4157-63	4.8	34
59	Novel cellulose-based halochromic test strips for naked-eye detection of alkaline vapors and analytes. *Talanta*, **2017**, 170, 137-145	6.2	33
58	pH triggered smart organogel from DCDHF-Hydrazone molecular switch. *Dyes and Pigments*, **2016**, 130, 327-336	4.6	33
57	Luminescent plant root: A step toward electricity-free natural lighting plants. *Journal of Molecular Structure*, **2019**, 1176, 249-253	3.4	33
56	Naked-eye facile colorimetric detection of alkylphenols using Fe(III)-impregnated silica-based strips. *Chemical Papers*, **2018**, 72, 1553-1559	1.9	32
55	Optical Recognition of Ammonia and Amine Vapor Using "Turn-on" Fluorescent Chitosan Nanoparticles Imprinted on Cellulose Strips. *Journal of Fluorescence*, **2019**, 29, 693-702	2.4	31
54	Development of One-Step Water-Repellent and Flame-Retardant Finishes for Cotton. *ChemistrySelect*, **2019**, 4, 3811-3816	1.8	31
53	Development of electrically conductive nanocomposites from cellulose nanowhiskers, polypyrrole and silver nanoparticles assisted with Nickel(III) oxide nanoparticles. *Reactive and Functional Polymers*, **2020**, 149, 104533	4.6	30
52	Development of long-persistent photoluminescent epoxy resin immobilized with europium (II)-doped strontium aluminate. *Luminescence*, **2020**, 35, 478-485	2.5	30
51	Photochromic and fluorescent ink using photoluminescent strontium aluminate pigment and screen printing towards anticounterfeiting documents. *Luminescence*, **2021**, 36, 865-874	2.5	30
50	Synthesis and application of novel tricyanofuran hydrazone dyes as sensors for detection of microbes. *Coloration Technology*, **2016**, 132, 460-465	2	29
49	Development of multifunctional polyacrylonitrile/silver nanocomposite films: Antimicrobial activity, catalytic activity, electrical conductivity, UV protection and SERS-active sensor. *Journal of Materials Research and Technology*, **2020**, 9, 9380-9394	5.5	28
48	Plasma activation toward multi-stimuli responsive cotton fabric via in situ development of polyaniline derivatives and silver nanoparticles. *Cellulose*, **2020**, 27, 2913-2926	5.5	28
47	Development of antimicrobial, UV blocked and photocatalytic self-cleanable cotton fibers decorated with silver nanoparticles using silver carbamate and plasma activation. *Cellulose*, **2021**, 28, 1105-1121	5.5	28
46	Development of durable superhydrophobic cotton fabrics coated with silicone/stearic acid using different cross-linkers. *Materials Chemistry and Physics*, **2020**, 249, 122981	4.4	25
45	Development of colorimetric cotton swab using molecular switching hydrazone probe in calcium alginate. *Journal of Molecular Structure*, **2020**, 1216, 128301	3.4	25
44	Development of mechanically durable hydrophobic lanolin/silicone rubber coating on viscose fibers. *Cellulose*, **2019**, 26, 9361-9371	5.5	24

43	Facile development of photochromic cellulose acetate transparent nanocomposite film immobilized with lanthanide-doped pigment: ultraviolet blocking, superhydrophobic, and antimicrobial activity. *Luminescence*, **2021**, 36, 543-555	2.5	24
42	Facile development of microporous cellulose acetate xerogel immobilized with hydrazone probe for real time vapochromic detection of toxic ammonia. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104573	6.8	23
41	Electrospun PDA-CA Nanofibers toward Hydrophobic Coatings. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2016**, 642, 219-221	1.3	23
40	A bipyridinium-based polyhydrazone adsorbent that exhibits ultrahigh adsorption capacity for the anionic azo dye, direct blue 71. *Chemical Engineering Journal*, **2021**, 409, 128195	14.7	22
39	Microwave-Assisted Synthesis of Arylazoaminopyrazoles as Disperse Dyes for Textile Printing. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2016**, 642, 766-772	1.3	22
38	Studies of Polylactic Acid and Metal Oxide Nanoparticles-Based Composites for Multifunctional Textile Prints. *Coatings*, **2020**, 10, 58	2.9	20
37	Synthesis, Solvatochromism, Antibacterial Activity and Dyeing Performance of Tricyanofuran-Hydrazone Analogues. *ChemistrySelect*, **2016**, 1, 6805-6809	1.8	20
36	Development of Electrospun Nanofibrous-Walled Tubes for Potential Production of Photoluminescent Endoscopes. *Industrial & Engineering Chemistry Research*, **2021**, 60, 10044-10055	3.9	20
35	Effects of Technical Textiles and Synthetic Nanofibers on Environmental Pollution. *Polymers*, **2021**, 13,	4.5	20
34	Immobilization of anthocyanin extract from red-cabbage into electrospun polyvinyl alcohol nanofibers for colorimetric selective detection of ferric ions. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105072	6.8	19
33	Synthesis and Self-Assembly of Novel s-Tetrazine-Based Gelator. *Helvetica Chimica Acta*, **2018**, 101, e1800009	2	16
32	Selective Colorimetric Detection of Fe (III) Using Metallochromic Tannin-Impregnated Silica Strips. *ChemistrySelect*, **2018**, 3, 12065-12071	1.8	16
31	Synthesis, Solvatochromic Performance, pH Sensing, Dyeing Ability, and Antimicrobial Activity of Novel Hydrazone Dyestuffs. *Journal of Chemistry*, **2019**, 2019, 1-10	2.3	15
30	Recent advances in cellulose supported metal nanoparticles as green and sustainable catalysis for organic synthesis. *Cellulose*, **2021**, 28, 4545-4574	5.5	15
29	Development of Green and Sustainable Cellulose Acetate/Graphene Oxide Nanocomposite Films as Efficient Adsorbents for Wastewater Treatment. *Polymers*, **2020**, 12,	4.5	13
28	Molecularly Imprinted Cellulose Sensor Strips for Selective Determination of Phenols in Aqueous Environment. *Fibers and Polymers*, **2020**, 21, 2195-2203	2	10
27	Simple Development of Novel Reversible Colorimetric Thermometer Using Urea Organogel Embedded with Thermochromic Hydrazone Chromophore. *Chemosensors*, **2020**, 8, 132	4	10
26	Hydrazone-Based Supramolecular Organogel for Selective Chromogenic Detection of Organophosphorus Nerve Agent Mimic. *ChemistrySelect*, **2021**, 6, 2002-2009	1.8	10

25	Polymerization products of lactic acid as synthetic thickening agents for textile printing. *Journal of Molecular Structure*, **2020**, 1203, 127421	3.4	9
24	Production of photochromic nanocomposite film via spray-coating of rare-earth strontium aluminate for anti-counterfeit applications. *Luminescence*, **2021**, 36, 1933-1944	2.5	8
23	Development of a novel colorimetric thermometer based on poly(N-vinylcaprolactam) with push–pull tricyanofuran hydrazone anion dye. *New Journal of Chemistry*, **2021**, 45, 5382-5390	3.6	8
22	Preparation of green and sustainable colorimetric cotton assay using natural anthocyanins for sweat sensing. *International Journal of Biological Macromolecules*, **2021**, 190, 894-903	7.9	7
21	Production of photoluminescent transparent poly(methyl methacrylate) for smart windows. *Luminescence*, **2021**,	2.5	5
20	Preparation of biosensor based on triarylmethane loaded cellulose acetate xerogel for the detection of urea. *Materials Chemistry and Physics*, **2022**, 276, 125377	4.4	5
19	Main-chain donor-acceptor polyhydrazone mediated adsorption of an anionic dye from contaminated water. *Reactive and Functional Polymers*, **2021**, 158, 104795	4.6	5
18	Preparation of flame-retardant, hydrophobic, ultraviolet protective, and luminescent transparent wood. *Luminescence*, **2021**, 36, 1922-1932	2.5	5
17	Adsorption isotherms and kinetic studies for the removal of toxic reactive dyestuffs from contaminated water using a viologen-based covalent polymer. *New Journal of Chemistry*,	3.6	5
16	Synthesis of New Cyanopyridine Scaffolds and their Biological Activities. *Current Organic Synthesis*, **2020**, 17, 567-575	1.9	4
15	A review on synthesis of nitrogen-containing heterocyclic dyes for textile fibers - Part 2: Fused heterocycles. *Egyptian Journal of Chemistry*, **2018**, 0-0	2	4
14	Synthesis and spectral properties of symmetrical and asymmetrical 3-cyano-1,5-diarylformazan dyestuffs for dyeing polyester fabrics. *Egyptian Journal of Chemistry*, **2017**, 60, 5-8	2	3
13	Development of highly photoluminescent electrospun nanofibers for dual-mode secure authentication. *Ceramics International*, **2021**,	5.1	3
12	Facile production of smart superhydrophobic nanocomposite for wood coating towards long-lasting glow-in-the-dark photoluminescence. *Luminescence*, **2021**, 36, 2004-2013	2.5	3
11	Synthesis of lanthanide-doped strontium aluminate nanoparticles encapsulated in polyacrylonitrile nanofibres: photoluminescence properties for anticounterfeiting applications. *Luminescence*, **2021**,	2.5	3
10	Industrial and Filtration Textiles **2019**, 215-237		2
9	Environmentally Sound Dyeing of Cellulose-Based Textiles **2019**, 79-99		2
8	From Smart Materials to Chromic Textiles **2020**, 257-274		2

7	Novel fluorescent nanofibrous polyether template developed by SNAr polymerization of fluoroaryl-containing 1, 3, 4-oxadiazole: Photophysical properties, mesogenic phases and self-assembly. *European Polymer Journal*, **2022**, 111270	5.2	2
6	Green metallochromic cellulose dipstick for Fe(III) using chitosan nanoparticles and cyanidin-based natural anthocyanins red-cabbage extract.. *International Journal of Biological Macromolecules*, **2022**, 202, 269-277	7.9	1
5	Multi-Technique Characterization and Conservation of an Ancient Egyptian Fabric from King Khufu First Solar Ship. *International Journal of Organic Chemistry*, **2021**, 11, 128-143	0.3	1
4	Hydrophobic and Flame-Retardant Foam Based on Cellulose. *Journal of Polymers and the Environment*,1	4.5	0
3	Advances in Polysaccharide-Based Hydrogels: Self-Healing and Electrical Conductivity. *Journal of Molecular Liquids*, **2022**, 352, 118712	6	0
2	Production of Smart Cotton-nickel Blend Fibers Using Functional Polymers Comprising Ammonium Polyphosphate and Silicone Rubber. *Fibers and Polymers*,1	2	0
1	Recent trends in green colorants: chemistry and application **2021**, 301-314		