

Reda M El-Shishtawy

List of Publications by Year in Descending Order

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Version: 2024-04-20

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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.

121
papers

2,889
citations

32
h-index

47
g-index

129
ext. papers

3,504
ext. citations

3.8
avg, IF

5.79
L-index

#	Paper	IF	Citations
121	Synthesis and optical properties of novel key electron donors-based pinacol boronate ester derived from phenothiazine, phenoxazine and carbazole. <i>Journal of Organometallic Chemistry</i> , 2022 , 970-971, 122373	2.3	0
120	Phenothiazine-based dyes containing imidazole with linkers of benzene, furan and thiophene: Synthesis, photophysical, electrochemical and computational investigation. <i>Journal of Molecular Structure</i> , 2021 , 131959	3.4	2
119	Photovoltaic performance and power conversion efficiency prediction of double fence porphyrins. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 27042-27058	3.6	2
118	Immobilization of Catalase on Chitosan/ZnO and Chitosan/ZnO/Fe ₂ O ₃ Nanocomposites: A Comparative Study. <i>Catalysts</i> , 2021 , 11, 820	4	12
117	Immobilization of Camel Liver Catalase on Nanosilver-Coated Cotton Fabric. <i>Catalysts</i> , 2021 , 11, 900	4	3
116	Ultra-Thin 2D CuO Nanosheet for HRP Immobilization Supported by Encapsulation in a Polymer Matrix: Characterization and Dye Degradation. <i>Catalysis Letters</i> , 2021 , 151, 232-246	2.8	17
115	Orthogonal hydrogen and halogen bonding facilitate intermolecular charge transfer between barbuturic acid and molecular halogens over g-C ₃ N ₄ nanosheet: A comparative experimental and DFT calculations. <i>Journal of Molecular Structure</i> , 2021 , 1223, 129211	3.4	3
114	Preparation of novel magnetic chemically modified chitin nanocomposites and their application for environmental remediation of cadmium ions in model and real water samples. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 148, 109748	3.9	1
113	Hydroxyapatite-decorated ZrO for α -amylase immobilization: Toward the enhancement of enzyme stability and reusability. <i>International Journal of Biological Macromolecules</i> , 2021 , 167, 299-308	7.9	21
112	Removal of Toxic Dye-stuffs from Aqueous Solution by Amphoteric Bioadsorbent. <i>Current Analytical Chemistry</i> , 2021 , 17, 957-974	1.7	2
111	Recent progress in organic hole transport materials for energy applications. <i>Dyes and Pigments</i> , 2021 , 193, 109465	4.6	6
110	Advances in phenothiazine and phenoxazine-based electron donors for organic dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2021 , 194, 109638	4.6	7
109	Synthesis, photophysical properties, and density functional theory studies of phenothiazine festooned vinylcyclohexenyl-malononitrile. <i>Luminescence</i> , 2020 , 35, 998-1009	2.5	6
108	A New Cr Electrochemical Sensor Based on ATNA/Nafion/Glassy Carbon Electrode. <i>Materials</i> , 2020 , 13,	3.5	6
107	Encapsulation of HRP Enzyme onto a Magnetic Fe ₃ O ₄ NpBMMA Film via Casting with Sustainable Biocatalytic Activity. <i>Catalysts</i> , 2020 , 10, 181	4	21
106	Synthesis of hemicyanine-based chitosan ligands in dye-affinity chromatography for the purification of chewing stick peroxidase. <i>International Journal of Biological Macromolecules</i> , 2020 , 148, 401-414	7.9	7
105	Synthesis and photophysical studies on a new fluorescent phenothiazine-based derivative. <i>Luminescence</i> , 2020 , 35, 608-617	2.5	4

104	A new phenothiazine-based selective visual and fluorescent sensor for cyanide. <i>BMC Chemistry</i> , 2020 , 14, 2	3.7	10
103	Photocatalytic decolourization of a new water-insoluble organic dye based on phenothiazine by ZnO and TiO ₂ nanoparticles. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 3633-3638	5.9	19
102	New two rings Schiff base liquid crystals; ball mill synthesis, mesomorphic, Hammett and DFT studies. <i>Journal of Molecular Liquids</i> , 2020 , 299, 112161	6	35
101	Nanoporous colorant sensors and captors for simultaneous recognition and recovery of gold from E-wastes. <i>Waste Management</i> , 2020 , 116, 166-178	8.6	9
100	Synthesis of Novel Chalcone-Based Phenothiazine Derivatives as Antioxidant and Anticancer Agents. <i>Molecules</i> , 2020 , 25,	4.8	9
99	Recent developments of gallic acid derivatives and their hybrids in medicinal chemistry: A review. <i>European Journal of Medicinal Chemistry</i> , 2020 , 204, 112609	6.8	45
98	A novel CuO/Cu ₂ O/Ag ₃ PO ₄ nanocomposite: Synthesis, characterization, and its application for 2-chlorophenol decontamination under visible light. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020 , 115, 208-217	5.3	3
97	Dual immobilization of α -amylase and horseradish peroxidase via electrospinning: A proof of concept study. <i>International Journal of Biological Macromolecules</i> , 2020 , 163, 1353-1360	7.9	12
96	Experimental and computational investigations of a novel quinoline derivative as a corrosion inhibitor for mild steel in salty water. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 607, 125454	5.1	10
95	Synthesis of new symmetric cyclic and acyclic halocurcumin analogues typical precursors for hybridization. <i>Research on Chemical Intermediates</i> , 2020 , 46, 5307-5323	2.8	1
94	The Synthesis of New Thermal Stable Schiff Base/Ester Liquid Crystals: A Computational, Mesomorphic, and Optical Study. <i>Molecules</i> , 2019 , 24,	4.8	33
93	CoFe ₂ O ₄ /MWCNTs nano-composites structural, thermal, magnetic, electrical properties and dye removal capability. <i>Materials Research Express</i> , 2019 , 6, 105059	1.7	5
92	Immobilisation of α -amylase on activated amidrazone acrylic fabric: a new approach for the enhancement of enzyme stability and reusability. <i>Scientific Reports</i> , 2019 , 9, 12672	4.9	21
91	Curcumin analogues and their hybrid molecules as multifunctional drugs. <i>European Journal of Medicinal Chemistry</i> , 2019 , 182, 111631	6.8	54
90	Amidrazone modified acrylic fabric activated with cyanuric chloride: A novel and efficient support for horseradish peroxidase immobilization and phenol removal. <i>International Journal of Biological Macromolecules</i> , 2019 , 140, 949-958	7.9	27
89	Synthesis and characterization of new squaraine dyes with bis-pendent carboxylic groups for dye-sensitized solar cells. <i>Journal of Molecular Structure</i> , 2019 , 1195, 850-858	3.4	12
88	Indoline and benzothiazole-based squaraine dye-sensitized solar cells containing bis-pendent sulfonate groups: Synthesis, characterization and solar cell performance. <i>Journal of Molecular Structure</i> , 2019 , 1195, 591-597	3.4	7
87	The preparation of carbon nanofillers and their role on the performance of variable polymer nanocomposites. <i>Designed Monomers and Polymers</i> , 2019 , 22, 8-53	3.1	62

86	Kinetics and mechanism of the oxidative decolorization of direct violet 31 in the presence of peroxodisulfate-silver(I) as a redox system. <i>Transition Metal Chemistry</i> , 2019 , 44, 57-64	2.1	7
85	Fabrication of selective and sensitive Pb ²⁺ detection by 2,2'-(1,2-phenylenebis(azanelylidene))bis(methaneylylidene)diphenol by electrochemical approach for environmental remediation. <i>Journal of Molecular Liquids</i> , 2019 , 281, 401-406	6	15
84	Nanocomposite Containing Cross-linked Poly(Methyl-Methacrylate)/Multiwall Carbon Nanotube as a Selective Y ³⁺ Sensor Probe. <i>Polymer Composites</i> , 2019 , 40, E1673-E1684	3	12
83	Efficient water disinfection using hybrid polyaniline/graphene/carbon nanotube nanocomposites. <i>Environmental Technology (United Kingdom)</i> , 2019 , 40, 2813-2824	2.6	18
82	Influence of redox electrolyte on the device performance of phenothiazine based dye sensitized solar cells. <i>New Journal of Chemistry</i> , 2018 , 42, 9045-9050	3.6	18
81	DFT and TDDFT calculations of the electronic structures and photophysical properties of newly designed pyrene-core arylamine derivatives as hole-transporting materials for perovskite solar cells. <i>Theoretical Chemistry Accounts</i> , 2018 , 137, 1	1.9	34
80	Quantum transfer energy in the framework of time-dependent dipole-dipole interaction. <i>Results in Physics</i> , 2018 , 8, 89-92	3.7	
79	Experimental and theoretical study of donor-acceptor compounds based on malononitrile. <i>Chemistry Central Journal</i> , 2018 , 12, 26		7
78	Immobilization of Trichoderma harzianum α -amylase on PPyAgNp/FeO-nanocomposite: chemical and physical properties. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, 201-206	6.1	24
77	Influence of Single-Walled Carbon Nanotubes on the Performance of Poly(Azomethine-Ether) Composite Materials. <i>Polymer-Plastics Technology and Engineering</i> , 2018 , 57, 1150-1163		10
76	Facile Immobilization of Enzyme via Co-Electrospinning: A Simple Method for Enhancing Enzyme Reusability and Monitoring an Activity-Based Organic Semiconductor. <i>ACS Omega</i> , 2018 , 3, 6346-6350	3.9	12
75	Cross-linked PMMA-based bifunctional amino derivatives. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 134, 1715-1728	4.1	4
74	Immobilization of horseradish peroxidase on PMMA nanofibers incorporated with nanodiamond. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, S973-S981	6.1	29
73	Fabrication of Sb sensor based on 1,1'-[naphthalene-2,3-diylbis(azanelylidene))bis(methaneylylidene))bis(naphthalen-2-yl)/nafion/glassy carbon electrode assembly by electrochemical approach.. <i>RSC Advances</i> , 2018 , 8, 19754-19764	3.7	10
72	Development of Cd ²⁺ sensor based on BZNA/Nafion/Glassy carbon electrode by electrochemical approach. <i>Chemical Engineering Journal</i> , 2018 , 352, 225-231	14.7	38
71	Cross-linked poly(methyl methacrylate)/multiwall carbon nanotube nanocomposites for environmental treatment. <i>Advances in Polymer Technology</i> , 2018 , 37, 3240-3251	1.9	8
70	Chemical modification of curcumin: Solubility and antioxidant capacity. <i>International Journal of Food Properties</i> , 2017 , 20, 718-724	3	15
69	Postharvest chitosan, gallic acid and chitosan gallate treatments effects on shelf life quality, antioxidant compounds, free radical scavenging capacity and enzymes activities of QukkariQ bananas. <i>Journal of Food Science and Technology</i> , 2017 , 54, 447-457	3.3	18

68	The impact of graphene nano-plates on the behavior of novel conducting polyazomethine nanocomposites. <i>RSC Advances</i> , 2017 , 7, 9998-10008	3.7	25
67	Quantum Transfer Energy and Nonlocal Correlation in a Dimer with Time-Dependent Coupling Effect. <i>International Journal of Theoretical Physics</i> , 2017 , 56, 1417-1428	1.1	
66	Immobilization of horseradish peroxidase on Fe ₃ O ₄ magnetic nanoparticles. <i>Electronic Journal of Biotechnology</i> , 2017 , 27, 84-90	3.1	75
65	Synthesis of nanocomposites of polypyrrole/carbon nanotubes/silver nano particles and their application in water disinfection. <i>RSC Advances</i> , 2017 , 7, 16878-16884	3.7	32
64	Quality and biochemical changes of Qindi-BesennaraQ mangoes during shelf life as affected by chitosan, gallic acid and chitosan gallate. <i>Journal of Food Science and Technology</i> , 2017 , 54, 4139-4148	3.3	9
63	Synthesis of a new fluorescent cyanide chemosensor based on phenothiazine derivative. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 288-296	8.5	51
62	Immobilization of horseradish peroxidase on amidoximated acrylic polymer activated by cyanuric chloride. <i>International Journal of Biological Macromolecules</i> , 2016 , 91, 663-70	7.9	33
61	The impact of cross-linking degree on the thermal and texture behavior of poly(methyl methacrylate). <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 124, 709-717	4.1	18
60	Synthesis and structural properties of 2-((10-alkyl-10H-phenothiazin-3-yl)methylene)malononitrile derivatives; a combined experimental and theoretical insight. <i>Chemistry Central Journal</i> , 2016 , 10, 13		10
59	Realistic Quantum Control of Energy Transfer in Photosynthetic Processes. <i>Energies</i> , 2016 , 9, 1063	3.1	3
58	Synthesis and Characterization of Ag-Ag ₂ O/TiO ₂ @polypyrrole Heterojunction for Enhanced Photocatalytic Degradation of Methylene Blue. <i>Catalysts</i> , 2016 , 6, 76	4	47
57	Optical Absorption Spectra and Electronic Properties of Symmetric and Asymmetric Squaraine Dyes for Use in DSSC Solar Cells: DFT and TD-DFT Studies. <i>International Journal of Molecular Sciences</i> , 2016 , 17, 487	6.3	16
56	Synthesis, linear and nonlinear optical properties of a new dimethine cyanine dye derived from phenothiazine. <i>RSC Advances</i> , 2016 , 6, 91546-91556	3.7	37
55	Experimental and theoretical study of o-substituent effect on the fluorescence of 8-hydroxyquinoline. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 3804-19	6.3	3
54	Saccharification and hydrolytic enzyme production of alkali pre-treated wheat bran by <i>Trichoderma virens</i> under solid state fermentation. <i>BMC Biotechnology</i> , 2015 , 15, 37	3.5	32
53	Synthesis of magnetic multi-walled carbon nanotubes/magnetite/chitin magnetic nanocomposite for the removal of Rose Bengal from real and model solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 3559-3567	6.3	54
52	Synthesis and optophysical properties of dimeric aza-BODIPY dyes with a push-pull benzodipyrrolidone core. <i>Chemical Communications</i> , 2014 , 50, 11540-2	5.8	37
51	Solid fermentation of wheat bran for hydrolytic enzymes production and saccharification content by a local isolate <i>Bacillus megatherium</i> . <i>BMC Biotechnology</i> , 2014 , 14, 29	3.5	44

50	Chromophoric thin film based on cellulose triacetate blends for sensing metal ions. <i>Comptes Rendus Chimie</i> , 2014 , 17, 557-562	2.7	5
49	Molecular design of donor-acceptor dyes for efficient dye-sensitized solar cells I: a DFT study. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2241	2	28
48	Nucleophilic addition of reactive dyes on amidoximated acrylic fabrics. <i>Scientific World Journal, The</i> , 2014 , 2014, 305930	2.2	4
47	Immobilization of <i>Trichoderma harzianum</i> α -amylase on treated wool: optimization and characterization. <i>Molecules</i> , 2014 , 19, 8027-38	4.8	25
46	An electro-optical and electron injection study of benzothiazole-based squaraine dyes as efficient dye-sensitized solar cell materials: a first principles study. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2517 ²		7
45	Steric and Solvent Effect in Dye-Sensitized Solar Cells Utilizing Phenothiazine-Based Dyes. <i>International Journal of Photoenergy</i> , 2014 , 2014, 1-9	2.1	19
44	Pyran-Squaraine as Photosensitizers for Dye-Sensitized Solar Cells: DFT/TDDFT Study of the Electronic Structures and Absorption Properties. <i>International Journal of Photoenergy</i> , 2014 , 2014, 1-11	2.1	6
43	Horseradish peroxidase and chitosan: activation, immobilization and comparative results. <i>International Journal of Biological Macromolecules</i> , 2013 , 60, 295-300	7.9	42
42	Immobilization of horseradish peroxidase on activated wool. <i>Process Biochemistry</i> , 2013 , 48, 649-655	4.8	35
41	Photophysical studies of a new water soluble indocarbocyanine dye adsorbed onto microcrystalline cellulose and β -cyclodextrin. <i>Molecules</i> , 2013 , 18, 5648-68	4.8	7
40	Thiazole azo dyes with lateral donor branch: Synthesis, structure and second order NLO properties. <i>Dyes and Pigments</i> , 2013 , 96, 45-51	4.6	70
39	Synthesis and Antimicrobial Activity of Aluminium(III), Nickel(II) and Zinc(II) Schiff base Complexes Derived from o-Phenylenediamine and Salicylaldehyde. <i>Asian Journal of Chemistry</i> , 2013 , 25, 2719-2721	0.4	7
38	Structural and magnetic properties of nano-crystalline Ni ₂ Zn ferrites synthesized using egg-white precursor. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 2258-2264	2.8	143
37	Preparation, characterization and electromagnetic properties of polyaniline/carbon nanotubes/nickel ferrite nanocomposites. <i>Polymer Composites</i> , 2012 , 33, 532-539	3	19
36	One-bath union dyeing of a modified wool/acrylic blend with acid and reactive dyes. <i>Coloration Technology</i> , 2011 , 127, 28-38	2	15
35	In situ production of silver nanoparticle on cotton fabric and its antimicrobial evaluation. <i>Cellulose</i> , 2011 , 18, 75-82	5.5	149
34	Influence of the protonation, deprotonation and transition metal ions on the fluorescence of 8-hydroxyquinoline: a computational study. <i>Molecular Simulation</i> , 2011 , 37, 940-952	2	6
33	Synthesis and spectroscopic studies of stable aqueous dispersion of silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 79, 1505-10	4.4	38

32	The use of new technologies in coloration of textile fibers. <i>Journal of Materials Science</i> , 2010 , 45, 1143-1153	89
31	Synthesis of a new beta-naphthothiazole monomethine cyanine dye for the detection of DNA in aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 75, 1605-1614	21
30	Functional Dyes, and Some Hi-Tech Applications. <i>International Journal of Photoenergy</i> , 2009 , 2009, 1-21	50
29	Dyeing of modified acrylic fibers with curcumin and madder natural dyes. <i>Fibers and Polymers</i> , 2009 , 10, 617-624	34
28	Alkaline dyeing of polyester and polyester/cotton blend fabrics using sodium edetate. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 342-350	22
27	2-Nitrosobenzothiazoles: useful synthons for new azobenzothiazole dyes. <i>Tetrahedron Letters</i> , 2008 , 49, 6907-6909	23
26	New amino and acetamido monomethine cyanine dyes for the detection of DNA in agarose gels. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 5537-42	14
25	The use of sodium edate in dyeing: II. Union dyeing of cotton/wool blend with hetero bi-functional reactive dyes. <i>Dyes and Pigments</i> , 2007 , 72, 57-65	35
24	Ultrasonic assisted dyeing. IV. Dyeing of cationised cotton with lac natural dye. <i>Dyes and Pigments</i> , 2007 , 73, 279-284	93
23	Anionic colouration of acrylic fibre. Part II: Printing with reactive, acid and direct dyes. <i>Dyes and Pigments</i> , 2007 , 74, 215-222	11
22	Synthesis and characterization of novel mono- and dicarboxyalkylthiacarbocyanines and their ester derivatives. <i>Dyes and Pigments</i> , 2007 , 73, 195-205	16
21	Ultrasound assisted pre-treatment and dyeing of linen fibres with reactive dyes. <i>Pigment and Resin Technology</i> , 2007 , 36, 363-372	13
20	Methoxyperylene bisimides and perylene lactame imides: novel, red fluorescent dyes. <i>Chemistry - A European Journal</i> , 2006 , 12, 4642-5	8
19	Urea/alkali-free printing of cotton with reactive dyes. <i>Coloration Technology</i> , 2006 , 122, 324-328	18
18	Rhodamine B as ligand for affinity chromatography. Fixation studies onto cellulose by a curing method. <i>European Polymer Journal</i> , 2006 , 42, 2270-2282	26
17	A new Vilsmeier-type reaction for one-pot synthesis of pH sensitive fluorescent cyanine dyes. <i>Tetrahedron</i> , 2006 , 62, 7793-7798	28
16	Ultrasonic assisted dyeing. <i>Dyes and Pigments</i> , 2005 , 65, 103-110	192
15	Anionic coloration of acrylic fibre. Part 1: Efficient pretreatment and dyeing with acid dyes. <i>Coloration Technology</i> , 2005 , 121, 139-146	33

14	Acid dyeing isotherms of cotton fabrics pretreated with mixtures of reactive cationic agents. <i>Coloration Technology</i> , 2004 , 120, 195-200	2	16
13	Ultrasonic-assisted dyeing: I. Nylon dyeability with reactive dyes. <i>Polymer International</i> , 2003 , 52, 373-388	3.3	49
12	Ultrasonic-assisted dyeing: II. Nylon fibre structure and comparative dyeing rate with reactive dyes. <i>Polymer International</i> , 2003 , 52, 381-388	3.3	28
11	Iron Complexed Acid Mordant Dyes and Their Application on Nylon 6 and Wool. <i>Chemical Engineering and Technology</i> , 2002 , 25, 849	2	8
10	Cationic pretreatment of cotton fabric for anionic dye and pigment printing with better fastness properties. <i>Coloration Technology</i> , 2002 , 118, 115-120	2	36
9	Bypass Kiln Dust as Adsorbent for Anionic Dye and Heavy Metal Ions Removal from Aqueous Solution. <i>Toxicological and Environmental Chemistry</i> , 2002 , 82, 1-10	1.4	4
8	Geochemistry and Utilization of Montmorillonitic Soil for Cationic Dye Removal. <i>Adsorption Science and Technology</i> , 2001 , 19, 609-620	3.6	7
7	Preparation and Characterization of Cationized Cellulose for the Removal of Anionic Dyes. <i>Adsorption Science and Technology</i> , 2001 , 19, 197-210	3.6	37
6	Improving nylon dyeability by using redox systems. <i>Advances in Polymer Technology</i> , 2001 , 20, 237-247	1.9	5
5	Biological H ₂ production using a novel light-induced and diffused photoreactor. <i>Biotechnology Letters</i> , 1997 , 11, 403-407		27
4	Synthesis and photoreaction of 4,5,7-tri- <i>t</i> -butyl benzo[<i>c</i>]thiophene: A novel benzo[<i>c</i>]thiophene derivative and its Dewar isomer. <i>Tetrahedron Letters</i> , 1995 , 36, 3177-3180	2	8
3	Synthesis of Long Chain Malachite Green Leuco Base (LMGH) and Its Spectroscopic Study in Organic Solvents and Ionic Micellar Solutions. <i>Bulletin of the Chemical Society of Japan</i> , 1995 , 68, 929-934	5.1	4
2	Facile Synthesis of Novel Polysubstituted Isobenzofuranones. <i>Synthesis</i> , 1994 , 1994, 1411-1412	2.9	3
1	Efficient Synthesis of Formyl Boronate Esters Derived from Carbazole and Phenoxazine as Key Electron Donors. <i>Polycyclic Aromatic Compounds</i> , 1-9	1.3	1