

Saleh A Ahmed

List of Publications by Year in descending order

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100
papers

1,646
citations

331538

21
h-index

414303

32
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102
all docs

102
docs citations

102
times ranked

1436
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural and synthetic flavonoid derivatives as new potential tyrosinase inhibitors: a systematic review. <i>RSC Advances</i> , 2021, 11, 22159-22198.	1.7	87
2	Enhanced Water Stability and Photoresponsivity in Metal-Organic Framework (MOF): A Potential Tool to Combat Drug-resistant Bacteria. <i>Scientific Reports</i> , 2019, 9, 19372.	1.6	76
3	Recent advances in combretastatin based derivatives and prodrugs as antimitotic agents. <i>MedChemComm</i> , 2017, 8, 1592-1603.	3.5	63
4	Journey of anthraquinones as anticancer agents – a systematic review of recent literature. <i>RSC Advances</i> , 2021, 11, 35806-35827.	1.7	55
5	Application of triazoles as bioisosteres and linkers in the development of microtubule targeting agents. <i>RSC Medicinal Chemistry</i> , 2020, 11, 327-348.	1.7	51
6	DDQ as a versatile and easily recyclable oxidant: a systematic review. <i>RSC Advances</i> , 2021, 11, 29826-29858.	1.7	44
7	Preparation and characterization of Pd doped ceria–ZnO nanocomposite catalyst for methyl tert-butyl ether (MTBE) photodegradation. <i>Journal of Hazardous Materials</i> , 2014, 264, 71-78.	6.5	43
8	Scholl reaction as a powerful tool for the synthesis of nanographenes: a systematic review. <i>RSC Advances</i> , 2021, 11, 32158-32202.	1.7	42
9	Facile synthesis of light harvesting semiconductor bismuth oxychloride nano photo-catalysts for efficient removal of hazardous organic pollutants. <i>PLoS ONE</i> , 2017, 12, e0172218.	1.1	41
10	Inhibitory potential of nitrogen, oxygen and sulfur containing heterocyclic scaffolds against acetylcholinesterase and butyrylcholinesterase. <i>RSC Advances</i> , 2022, 12, 19764-19855.	1.7	41
11	Pharmacological significance of nitrogen-containing five and six-membered heterocyclic scaffolds as potent cholinesterase inhibitors for drug discovery. <i>Process Biochemistry</i> , 2022, 120, 250-259.	1.8	40
12	Fabrication of gold/graphene nanostructures modified ITO electrode as highly sensitive electrochemical detection of Aflatoxin B1. <i>PLoS ONE</i> , 2019, 14, e0210652.	1.1	38
13	Photo-triggered destabilization of nanoscopic vehicles by dihydroindolizine for enhanced anticancer drug delivery in cervical carcinoma. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 162, 202-211.	2.5	31
14	Design, synthesis, and biological evaluation of novel N4-substituted sulfonamides: acetamides derivatives as dihydrofolate reductase (DHFR) inhibitors. <i>BMC Chemistry</i> , 2019, 13, 91.	1.6	29
15	Nano-MOFs as targeted drug delivery agents to combat antibiotic-resistant bacterial infections. <i>Royal Society Open Science</i> , 2020, 7, 200959.	1.1	29
16	Ultrafast dynamics at the zinc phthalocyanine/zinc oxide nanohybrid interface for efficient solar light harvesting in the near red region. <i>Solar Energy Materials and Solar Cells</i> , 2015, 143, 63-71.	3.0	28
17	Combating Essential Metal Toxicity: Key Information from Optical Spectroscopy. <i>ACS Omega</i> , 2020, 5, 15666-15672.	1.6	25
18	Synthesis and Evaluation of 1,3,5-Triaryl-2-Pyrazoline Derivatives as Potent Dual Inhibitors of Urease and α -Glucosidase Together with Their Cytotoxic, Molecular Modeling and Drug-Likeness Studies. <i>ACS Omega</i> , 2022, 7, 3775-3795.	1.6	25

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19	Allosteric Inhibitory Molecular Recognition of a Photochromic Dye by a Digestive Enzyme: Dihydroindolizine makes $\hat{I}\pm$ -chymotrypsin Photo-responsive. <i>Scientific Reports</i> , 2016, 6, 34399.	1.6	24
20	Low Temperature CO Oxidation Over Highly Active Gold Nanoparticles Supported on Reduced Graphene Oxide@Mg-BTC Nanocomposite. <i>Catalysis Letters</i> , 2023, 153, 876-886.	1.4	24
21	Photochromism of Dihydroindolizines. Part III [1]. Synthesis and Photochromic Behavior of Novel Photochromic Dihydroindolizines Incorporating a Cholesteryl Moiety. <i>Monatshefte FÃ¼r Chemie</i> , 2004, 135, 1173.	0.9	23
22	Nanoparticles TiO ₂ -photocatalyzed oxidation of selected cyclohexyl alcohols. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 200, 209-215.	2.0	23
23	Photochromism of dihydroindolizines. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 200, 50-56.	2.0	22
24	Redox nanomedicine ameliorates chronic kidney disease (CKD) by mitochondrial reconditioning in mice. <i>Communications Biology</i> , 2021, 4, 1013.	2.0	22
25	Photochromic Spirotetrahydroazafluorenes: Part V. Why Photochromic Molecules with Rigid Region B Exhibiting Extremely Fast Bleaching Process?. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 431, 575-580.	0.4	21
26	Multicomponent access to novel proline/cyclized cysteine tethered monastrol conjugates as potential anticancer agents. <i>Journal of Saudi Chemical Society</i> , 2019, 23, 503-513.	2.4	21
27	Colorimetric aflatoxins immunoassay by using silica nanoparticles decorated with gold nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 246, 118999.	2.0	21
28	Structure-based designing and synthesis of 2-phenylchromone derivatives as potent tyrosinase inhibitors: In vitro and in silico studies. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 35, 116057.	1.4	21
29	Polymer-supported triphenylphosphine: application in organic synthesis and organometallic reactions. <i>RSC Advances</i> , 2019, 9, 35217-35272.	1.7	20
30	Oral drug delivery using a polymeric nanocarrier: chitosan nanoparticles in the delivery of rifampicin. <i>Materials Advances</i> , 2022, 3, 4622-4628.	2.6	20
31	Tetracycline Encapsulated in Au Nanoparticle-Decorated ZnO Nanohybrids for Enhanced Antibacterial Activity. <i>ACS Applied Nano Materials</i> , 2022, 5, 4484-4492.	2.4	19
32	Novel one pot synthesis and spectroscopic characterization of a folate-Mn ₃ O ₄ nanohybrid for potential photodynamic therapeutic application. <i>RSC Advances</i> , 2019, 9, 30216-30225.	1.7	18
33	Bioactive fluorenes. part I. Synthesis, pharmacological study and molecular docking of novel dihydrofolate reductase inhibitors based-2,7-dichlorofluorene. <i>Heliyon</i> , 2019, 5, e01982.	1.4	17
34	2-Benzylidenebenzofuran-3(2 <i>H</i>)-ones as a new class of alkaline phosphatase inhibitors: synthesis, SAR analysis, enzyme inhibitory kinetics and computational studies. <i>RSC Advances</i> , 2021, 11, 35077-35092.	1.7	17
35	Carbonate Doping in TiO ₂ Microsphere: The Key Parameter Influencing Others for Efficient Dye Sensitized Solar Cell. <i>Scientific Reports</i> , 2016, 6, 23209.	1.6	16
36	A Smart Nanotherapeutic Agent for inâ€¦vivo and inâ€¦vivo Reversal of Heavyâ€¦Metalâ€¦Induced Causality: Key Information from Optical Spectroscopy. <i>ChemMedChem</i> , 2020, 15, 420-429.	1.6	16

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37	Highly efficient, recyclable cerium-phosphate solid acid catalysts for the synthesis of tetrahydrocarbazole derivatives by Borsche's Drechsel cyclization. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2021, 134, 143-161.	0.8	16
38	Design, Synthesis, and Structural Characterization of Thioflavones and Thioflavonols as Potential Tyrosinase Inhibitors: In Vitro and In Silico Studies. <i>ACS Omega</i> , 2022, 7, 17444-17461.	1.6	16
39	Ag-doped TiO ₂ enhanced photocatalytic oxidation of 1,2-cyclohexanediol. <i>Journal of Physical Organic Chemistry</i> , 2012, 25, 1418-1421.	0.9	15
40	Facile access to regio- and stereoselective synthesis of highly functionalized spiro[indoline-3,2-pyrrolidines] incorporating a pyrene moiety: experimental, photophysical and theoretical approach. <i>RSC Advances</i> , 2018, 8, 24116-24127.	1.7	14
41	Preparation and biological assessment of some aromatic hydrazones derived from hydrazides of phenolic acids and aromatic aldehydes. <i>Heliyon</i> , 2020, 6, e05019.	1.4	14
42	Bioactive fluorenes. Part III: 2,7-dichloro-9H-fluorene-based thiazolidinone and azetidinone analogues as anticancer and antimicrobial against multidrug resistant strains agents. <i>BMC Chemistry</i> , 2020, 14, 42.	1.6	14
43	External electric field effects on the σ -hole and lone-pair hole interactions of group V elements: a comparative investigation. <i>RSC Advances</i> , 2021, 11, 4022-4034.	1.7	14
44	Novel linezolid-based oxazolidinones as potent anticandidiasis and antitubercular agents. <i>Bioorganic Chemistry</i> , 2022, 126, 105869.	2.0	14
45	Nanoparticles-Photocatalytic Oxidation of Selected Cycloalkanols. <i>International Journal of Photoenergy</i> , 2008, 2008, 1-11.	1.4	13
46	Photochromism of tetrahydroindolizines. Part XIV: synthesis of cis-fixed conjugated photochromic pyridazinopyrrolo[1,2-b]isoquinolines incorporating carbon-rich linkers. <i>Tetrahedron Letters</i> , 2014, 55, 2190-2196.	0.7	13
47	A convenient regioselective synthesis of spirooxindolinopyrrolizidines incorporating the pyrene moiety through a [3 + 2]-cycloaddition reaction. <i>Heterocyclic Communications</i> , 2017, 23, 379-384.	0.6	13
48	Unprecedented green chemistry approach: tungstophosphoric acid encapsulated in MOF 199 as competent acid catalyst for some significant organic transformations. <i>Journal of Porous Materials</i> , 2021, 28, 129-142.	1.3	13
49	High-Efficacy Hierarchical Dy ₂ O ₃ /TiO ₂ Nanoflower toward Wastewater Reclamation: A Combined Photoelectrochemical and Photocatalytic Strategy. <i>ACS Omega</i> , 2022, 7, 17223-17233.	1.6	13
50	Probing relaxation dynamics of a cationic lipid based non-viral carrier: a time-resolved fluorescence study. <i>RSC Advances</i> , 2019, 9, 35549-35558.	1.7	12
51	σ -Hole Interactions: A Comparative Investigation Based on Boron-Containing Molecules. <i>ChemistrySelect</i> , 2020, 5, 13223-13231.	0.7	12
52	Highly Sensitive Optical Sensor for Selective Detection of Fluoride Level in Drinking Water: Methodology to Fabrication of Prototype Device. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 7160-7170.	3.2	12
53	Experimental and theoretical insights into the photophysical and electrochemical properties of flavone-based hydrazones. <i>Journal of Molecular Structure</i> , 2021, 1244, 130965.	1.8	12
54	Synthesis of Some New Thiazole, Oxazole, Pyrimidine and Pyridazine Derivatives from 2-cyano-N-octadecylacetamide as Antimicrobial and Surface Active Agents. <i>Journal of Heterocyclic Chemistry</i> , 2016, 53, 121-128.	1.4	11

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55	1,3-Dipolar cycloaddition approach to novel dispiro[pyrazolidine-4,3- π^2 -pyrrolizidine-2- π^2 ,3- π^3 -indoline]-2- π^3 ,3,5-triones. <i>Journal of Chemical Research</i> , 2017, 41, 346-351.		11
56	Unprecedented Regio- and Stereoselective Synthesis of Pyrene-Grafted Dispiro[indoline-3,2- π^2 -pyrrolidine-3- π^2 ,3- π^3 -indolines]: Expedient Experimental and Theoretical Insights into Polar [3 + 2] Cycloaddition. <i>ACS Omega</i> , 2020, 5, 24081-24094.	1.6	11
57	Bioactive fluorenes. Part IV: Design, synthesis, and a combined in vitro, in silico anticancer and antibacterial evaluation of new fluorene-heterocyclic sulfonamide conjugates. <i>Journal of Molecular Structure</i> , 2021, 1246, 131232.	1.8	11
58	New Imidazole-Based N-Phenylbenzamide Derivatives as Potential Anticancer Agents: Key Computational Insights. <i>Frontiers in Chemistry</i> , 2021, 9, 808556.	1.8	11
59	Photochromism of dihydroindolizines Part XIX. Efficient one-pot solid-state synthesis, kinetic, and computational studies based on dihydroindolizine photochromes. <i>Journal of Physical Organic Chemistry</i> , 2017, 30, e3614.	0.9	10
60	Novel Pyran-Linked Phthalazinone-Pyrazole Hybrids: Synthesis, Cytotoxicity Evaluation, Molecular Modeling, and Descriptor Studies. <i>Frontiers in Chemistry</i> , 2021, 9, 666573.	1.8	10
61	An efficient and green synthesis of polyfunctionalized spirothiazolidin-4-ones using sulfonated mesoporous silica as a reusable catalyst. <i>Chemistry of Heterocyclic Compounds</i> , 2017, 53, 1148-1155.	0.6	9
62	Wide bandgap semiconductor-based novel nanohybrid for potential antibacterial activity: ultrafast spectroscopy and computational studies. <i>RSC Advances</i> , 2020, 10, 38890-38899.	1.7	9
63	Rational Design and Synthesis of Naphthalene Diimide Linked Bis-Naphthalimides as DNA Interactive Agents. <i>Frontiers in Chemistry</i> , 2021, 9, 630357.	1.8	9
64	Photochromism of dihydroindolizines part X. Photoresponsive self-assembling organogelators based on photochromic dihydroindolizines and 11-aminoundecanoic acid (AUDA). <i>Journal of Physical Organic Chemistry</i> , 2009, 22, 593-606.	0.9	8
65	Exclusive regioselective 1,3-dipolar cycloaddition of 9-diazo-9H-fluorene and diphenyldiazomethane to 2-arylideneindane-1,3-diones: new approach toward effective synthesis of novel spiropyrazole derivatives. <i>Monatshefte für Chemie</i> , 2018, 149, 2021-2030.	0.9	8
66	Large scale validation of a new non-invasive and non-contact bilirubinometer in neonates with risk factors. <i>Scientific Reports</i> , 2020, 10, 11149.	1.6	8
67	Spectroscopic Studies on the Biomolecular Recognition of Toluidine Blue: Key Information Towards Development of a Non-Contact, Non-Invasive Device for Oral Cancer Detection. <i>Frontiers in Oncology</i> , 2020, 10, 529132.	1.3	8
68	Tailoring of novel biologically active molecules based on N-substituted sulfonamides bearing thiazole moiety exhibiting unique multi-addressable biological potentials. <i>Arabian Journal of Chemistry</i> , 2020, 13, 5345-5362.	2.3	8
69	Synthesis, Spectroscopic characterization of Co(II), Ni(II) and Cu(II) complexes with 2-mercapto-5-(2,4-dinitrophenyl)-1,3,4-oxadiazole or 2-mercapto-5-((4-(dimethylamino)benzylidene)amino)-1,3,4-thiadiazole ligands. <i>Oriental Journal of Chemistry</i> , 2018, 34, 1787-1794.	0.1	7
70	Development a spectrofluorometric micellar supported encapsulated method for micro determination of silver ion using new 2,6-disubstituted pyridine derivatives. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 242, 118711.	2.0	7
71	A combined spectroscopic and ab initio study of the transmetalation of a polyphenol as a potential purification strategy for food additives. <i>RSC Advances</i> , 2020, 10, 5636-5647.	1.7	7
72	Bioactive Fluorenes. Part II. Unprecedented biologically active thiazole derivatives based-2,7-dichlorofluorene as competent DHFR inhibitors: Design, synthesis, and molecular docking approaches. <i>Arabian Journal of Chemistry</i> , 2020, 13, 5451-5462.	2.3	7

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73	MCM-SO ₃ H catalyzed synthesis of environment-sensitive fluorophores incorporating pyrene moiety: Optimization, fluorescence emission and theoretical studies. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 371, 306-314.	2.0	6
74	Nanoparticle-based "turn-on" scattering and post-sample fluorescence for ultrasensitive detection of water pollution in wider window. <i>PLoS ONE</i> , 2020, 15, e0227584.	1.1	6
75	Distinctive tunable photophysical properties of versatile environmentally-sensitive tribranched cyanopyridine fluorophores. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 248, 119169.	2.0	6
76	A highly efficient photochemical bromination as a new method for preparation of mono, bis and fused pyrazole derivatives. <i>Photochemical and Photobiological Sciences</i> , 2002, 1, 84-86.	1.6	5
77	Synthesis, Spectral Characteristics and DFT Studies of the New Dye 2,7-diacetyl-9-((dimethylamino)methylene)-9H-fluorene (DMMF) in Different Solvents. <i>Journal of Fluorescence</i> , 2015, 25, 1303-1314.	1.3	5
78	Exploiting a multicomponent domino reaction strategy for the tailoring of versatile environmentally sensitive fluorophore-based nicotinonitriles incorporating pyrene and fluorene moieties. <i>RSC Advances</i> , 2019, 9, 40118-40130.	1.7	5
79	Iodine-DMSO mediated conversion of <i>N</i> -arylcyanothioformamides to <i>N</i> -arylcyanoforamides and the unexpected formation of 2-cyanobenzothiazoles. <i>RSC Advances</i> , 2022, 12, 6133-6148.	1.7	5
80	Recent advancements on the synthesis and biological significance of pipercolic acid and its derivatives. <i>Journal of Molecular Structure</i> , 2022, 1268, 133719.	1.8	5
81	Utility of Octadecyl Amine in the Synthesis of Various Nitrogen Heterocycles: A Preliminary Investigation on Their Surface and Biological Activities. <i>Journal of Heterocyclic Chemistry</i> , 2016, 53, 1183-1193.	1.4	4
82	Heterodimerization at the dye sensitized TiO ₂ surface: an efficient strategy toward quick removal of water contaminants. <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 920-927.	1.6	4
83	Nucleophilicity and solvent effects on the kinetics of 4-(pyren-1-yl)thiazol-2-amine interaction with 4,6-dinitrobenzofuroxan. <i>Arabian Journal of Chemistry</i> , 2020, 13, 3702-3713.	2.3	4
84	Host assisted molecular recognition by human serum albumin: Study of molecular recognition controlled protein/drug mimic binding in a microfluidic channel. <i>International Journal of Biological Macromolecules</i> , 2021, 176, 137-144.	3.6	4
85	Synthesis and photophysical properties of benzimidazoles grafted pyrazole-containing pyrene or fluorene moiety: A combined spectroscopic and computational study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 419, 113465.	2.0	4
86	Effect of sulfur content on improving physical properties of new sprayed Cu ₂ MgSnS ₄ thin films compound for optoelectronic applications. <i>European Physical Journal Plus</i> , 2022, 137, 1.	1.2	4
87	Multicomponent synthesis, cytotoxicity, and computational studies of novel imidazopyridazine-based <i>N</i> -phenylbenzamides. <i>Journal of Saudi Chemical Society</i> , 2022, 26, 101449.	2.4	4
88	Fluorene Derivatives with Multi-addressable Properties: Synthesis, Characterization, and Reactivity. <i>Journal of Surfactants and Detergents</i> , 2017, 20, 933-945.	1.0	3
89	Molecular modelling assisted design of naphthalimide-dihydropyrimidinone conjugates as potential cytotoxic agents. <i>Journal of Saudi Chemical Society</i> , 2021, 25, 101226.	2.4	3
90	Paper-based plasmonic nanosensor monitors environmental lead pollution in real field. <i>New Journal of Chemistry</i> , 2022, 46, 8177-8184.	1.4	3

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91	Photolysis of Some N-Arylbenzamidoximes in Acetonitrile. Journal of the Chinese Chemical Society, 2014, 61, 1147-1153.	0.8	2
92	Photocatalytic degradation of <i>tert</i> -butyl alcohol and <i>tert</i> -butyl formate using palladium-doped zinc oxide nanoparticles with UV irradiation. Desalination and Water Treatment, 0, , 1-10.	1.0	2
93	Kinetics and Mechanistic Study of Permanganate Oxidation of Fluorenone Hydrazone in Alkaline Medium. Advances in Physical Chemistry, 2016, 2016, 1-9.	2.0	2
94	Spectroscopic, computational and mechanistic studies on regio- and stereoselectivity of the 1,3-dipolar cycloaddition reaction in the synthesis of dispiro[indoline-3,2-pyrrolidine-3,3'-indolines] festooned with pyrene moiety. Journal of Molecular Structure, 2022, , 133283.	1.8	2
95	Sensitive Spectrofluorimetric Study of the Interaction between Europium(III) and 1,2-Phenylenebis(azan-1-yl-1-ylidene) bis(methan-1-yl-1-ylidene)diphenol Schiff Base. Journal of Fluorescence, 2016, 26, 2087-2093.	1.3	1
96	Combating fuel-driven aqua-pollution using benzomagnets. RSC Advances, 2017, 7, 12277-12282.	1.7	1
97	Synthesis of some new pyrimidine selanyl derivatives. Phosphorus, Sulfur and Silicon and the Related Elements, 2018, 193, 345-349.	0.8	1
98	Regio- and stereoselectivity of the 1,3-dipolar cycloaddition of azomethine ylides to (E)-3-(2-oxo-2-(pyren-1-yl)ethylidene)indolin-2-ones: A combined experimental and theoretical study. Arabian Journal of Chemistry, 2022, 15, 103855.	2.3	1
99	Development of a smart active respirator for comfortable and hygienic breathing. Physics of Fluids, 2022, 34, 051901.	1.6	1
100	10.1063/5.0091456.1., 2022, , .		0