

# Abdelsattar M E Omar

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

541  
citations

623188

14  
h-index

713013

21  
g-index

43  
all docs

43  
docs citations

43  
times ranked

618  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel scaffold hopping of potent benzothiazole and isatin analogues linked to 1,2,3-triazole fragment that mimic quinazoline epidermal growth factor receptor inhibitors: Synthesis, antitumor and mechanistic analyses. <i>Bioorganic Chemistry</i> , 2020, 103, 104133.	2.0	53
2	Design, synthesis, molecular docking of new lipophilic acetamide derivatives affording potential anticancer and antimicrobial agents. <i>Bioorganic Chemistry</i> , 2018, 76, 332-342.	2.0	38
3	Design, Synthesis and in Vivo Anti-inflammatory Activities of 2,4-Diaryl-5-4H-imidazolone Derivatives. <i>Molecules</i> , 2012, 17, 12262-12275.	1.7	37
4	The rational design, synthesis, and antimicrobial investigation of 2-Amino-4-Methylthiazole analogues inhibitors of GlcN-6-P synthase. <i>Bioorganic Chemistry</i> , 2020, 99, 103781.	2.0	31
5	Crystal structure of carbonmonoxy sickle hemoglobin in R-state conformation. <i>Journal of Structural Biology</i> , 2016, 194, 446-450.	1.3	30
6	Novel molecular discovery of promising amidine-based thiazole analogues as potent dual Matrix Metalloproteinase-2 and 9 inhibitors: Anticancer activity data with prominent cell cycle arrest and DNA fragmentation analysis effects. <i>Bioorganic Chemistry</i> , 2020, 101, 103992.	2.0	26
7	Design, synthesis, and biological evaluation studies of novel quinazolinone derivatives as anticonvulsant agents. <i>Medicinal Chemistry Research</i> , 2013, 22, 5823-5831.	1.1	25
8	Molecular Mimics of Classic P-Glycoprotein Inhibitors as Multidrug Resistance Suppressors and Their Synergistic Effect on Paclitaxel. <i>PLoS ONE</i> , 2017, 12, e0168938.	1.1	22
9	Antimicrobial screening and pharmacokinetic profiling of novel phenyl-[1,2,4]triazolo[4,3-a]quinoxaline analogues targeting DHFR and E. coli DNA gyrase B. <i>Bioorganic Chemistry</i> , 2020, 96, 103656.	2.0	22
10	Synthesis, Modelling, and Anticonvulsant Studies of New Quinazolines Showing Three Highly Active Compounds with Low Toxicity and High Affinity to the GABA-A Receptor. <i>Molecules</i> , 2017, 22, 188.	1.7	19
11	Thiophenesâ€”Naturally Occurring Plant Metabolites: Biological Activities and In Silico Evaluation of Their Potential as Cathepsin D Inhibitors. <i>Plants</i> , 2022, 11, 539.	1.6	19
12	Synthesis and screening of some new fluorinated quinazolinoneâ€”sulphonamide hybrids as anticancer agents. <i>Journal of Taibah University Medical Sciences</i> , 2015, 10, 333-339.	0.5	17
13	Identification of a novel class of covalent modifiers of hemoglobin as potential antisickling agents. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 6353-6370.	1.5	16
14	Inborn errors in the vitamin B6 salvage enzymes associated with neonatal epileptic encephalopathy and other pathologies. <i>Biochimie</i> , 2021, 183, 18-29.	1.3	16
15	Discovery of novel quinoline-based analogues of combretastatin A-4 as tubulin polymerisation inhibitors with apoptosis inducing activity and potent anticancer effect. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 802-818.	2.5	15
16	VZHE-039, a novel antisickling agent that prevents erythrocyte sickling under both hypoxic and anoxic conditions. <i>Scientific Reports</i> , 2020, 10, 20277.	1.6	14
17	Chaetomugilins and Chaetoviridinsâ€”Promising Natural Metabolites: Structures, Separation, Characterization, Biosynthesis, Bioactivities, Molecular Docking, and Molecular Dynamics. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 127.	1.5	14
18	Potent Quinoline-Containing Combretastatin A-4 Analogues: Design, Synthesis, Antiproliferative, and Anti-Tubulin Activity. <i>Pharmaceuticals</i> , 2020, 13, 393.	1.7	12

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19	Targeted potent antimicrobial benzochromene-based analogues: Synthesis, computational studies, and inhibitory effect against 14 $\alpha$ -Demethylase and DNA Gyrase. <i>Bioorganic Chemistry</i> , 2020, 105, 104387.	2.0	10
20	Design, Synthesis, and Investigation of Novel Nitric Oxide (NO)-Releasing Prodrugs as Drug Candidates for the Treatment of Ischemic Disorders: Insights into NO-Releasing Prodrug Biotransformation and Hemoglobin $\alpha$ -NO. <i>Biochemistry</i> , 2015, 54, 7178-7192.	1.2	9
21	Phytoconstituents, In Vitro Anti-Infective Activity of <i>Buddleja indica</i> Lam., and In Silico Evaluation of its SARS-CoV-2 Inhibitory Potential. <i>Frontiers in Pharmacology</i> , 2021, 12, 619373.	1.6	9
22	Modulating hemoglobin allostery for treatment of sickle cell disease: current progress and intellectual property. <i>Expert Opinion on Therapeutic Patents</i> , 2022, 32, 115-130.	2.4	9
23	Design, Synthesis and Antiproliferative Activities of Oxidative Stress Inducers Based on 2-Styryl-3,5-dihydro-4H-imidazol-4-one Scaffold. <i>Chemical and Pharmaceutical Bulletin</i> , 2018, 66, 967-975.	0.6	8
24	Discovery and SAR of Novel Disubstituted Quinazolines as Dual PI3K $\alpha$ /mTOR Inhibitors Targeting Breast Cancer. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 2156-2164.	1.3	8
25	Zein-alpha lipoic acid-loaded nanoparticles to enhance the oral bioavailability of dapoxetine: optimization and clinical pharmacokinetic evaluation. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 7461-7473.	3.3	7
26	Exploring the Activity of Fungal Phenalenone Derivatives as Potential CK2 Inhibitors Using Computational Methods. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 443.	1.5	7
27	Structural modification of azolylacryloyl derivatives yields a novel class of covalent modifiers of hemoglobin as potential antisickling agents. <i>MedChemComm</i> , 2019, 10, 1900-1906.	3.5	6
28	An Investigation of Structure-Activity Relationships of Azolylacryloyl Derivatives Yielded Potent and Long-Acting Hemoglobin Modulators for Reversing Erythrocyte Sickling. <i>Biomolecules</i> , 2020, 10, 1508.	1.8	6
29	1H-Imidazole-2,5-Dicarboxamides as NS4A Peptidomimetics: Identification of a New Approach to Inhibit HCV-NS3 Protease. <i>Biomolecules</i> , 2020, 10, 479.	1.8	5
30	Aryloxyalkanoic Acids as Non-Covalent Modifiers of the Allosteric Properties of Hemoglobin. <i>Molecules</i> , 2016, 21, 1057.	1.7	4
31	Introducing of potent cytotoxic novel 2-(aroylamino)cinnamamide derivatives against colon cancer mediated by dual apoptotic signal activation and oxidative stress. <i>Bioorganic Chemistry</i> , 2020, 101, 103953.	2.0	4
32	Improving the Solubility and Oral Bioavailability of a Novel Aromatic Aldehyde Antisickling Agent (PP10) for the Treatment of Sickle Cell Disease. <i>Pharmaceutics</i> , 2021, 13, 1148.	2.0	4
33	Molecular insight into 2-phosphoglycolate activation of the phosphatase activity of bisphosphoglycerate mutase. <i>Acta Crystallographica Section D: Structural Biology</i> , 2022, 78, 472-482.	1.1	4
34	Pairing 3D-Printing with Nanotechnology to Manage Metabolic Syndrome. <i>International Journal of Nanomedicine</i> , 2022, Volume 17, 1783-1801.	3.3	4
35	Synthetic bulky NS4A peptide variants bind to and inhibit HCV NS3 protease. <i>Journal of Advanced Research</i> , 2020, 24, 251-259.	4.4	3
36	Insights on Cancer Cell Inhibition, Subcellular Activities, and Kinase Profile of Phenylacetamides Pending 1H-Imidazol-5-One Variants. <i>Frontiers in Pharmacology</i> , 2021, 12, 794325.	1.6	3

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37	Clinical Pharmacokinetic Evaluation of Optimized Liquisolid Tablets as a Potential Therapy for Male Sexual Dysfunction. <i>Pharmaceutics</i> , 2020, 12, 1187.	2.0	2
38	A <sc>single</sc> step synthesis of 1,3,4,6-tetraaryl-5-aryliminopiperazine. <i>Journal of Heterocyclic Chemistry</i> , 2021, 58, 442-449.	1.4	2
39	Reexamining Povarov Reaction's Scope and Limitation in the Generation of HCV-NS4A Peptidomimetics. <i>Heteroatom Chemistry</i> , 2022, 2022, 1-12.	0.4	0