Hany A Omar

List of Publications by Year in descending order

113 papers	3,137 citations	136740 32 h-index	189595 50 g-index
117 all docs	117 docs citations	117 times ranked	4882 citing authors

#	Article	IF	Citations
1	BACE1 inhibitors: Current status and future directions in treating Alzheimer's disease. Medicinal Research Reviews, 2020, 40, 339-384.	5.0	177
2	Diosmin Protects against Ethanol-Induced Gastric Injury in Rats: Novel Anti-Ulcer Actions. PLoS ONE, 2015, 10, e0122417.	1.1	174
3	Tangeretin Alleviates Cisplatin-Induced Acute Hepatic Injury in Rats: Targeting MAPKs and Apoptosis. PLoS ONE, 2016, 11, e0151649.	1.1	102
4	Caffeic Acid Phenethyl Ester: A Review of Its Antioxidant Activity, Protective Effects against Ischemia-reperfusion Injury and Drug Adverse Reactions. Critical Reviews in Food Science and Nutrition, 2016, 56, 2183-2190.	5.4	84
5	Camelâ€™s milk ameliorates TNBS-induced colitis in rats via downregulation of inflammatory cytokines and oxidative stress. Food and Chemical Toxicology, 2014, 69, 294-302.	1.8	82
6	Design, synthesis and biological evaluation of some novel benzothiazole/benzoxazole and/or benzimidazole derivatives incorporating a pyrazole scaffold as antiproliferative agents. Bioorganic Chemistry, 2017, 74, 82-90.	2.0	79
7	A neuroprotective role of kaempferol against chlorpyrifos-induced oxidative stress and memory deficits in rats via GSK3Î²-Nrf2 signaling pathway. Pesticide Biochemistry and Physiology, 2018, 152, 29-37.	1.6	79
8	Bee Pollen: Current Status and Therapeutic Potential. Nutrients, 2021, 13, 1876.	1.7	77
9	Ferroptosis: An emerging approach for targeting cancer stem cells and drug resistance. Critical Reviews in Oncology/Hematology, 2020, 155, 103095.	2.0	73
10	Hesperidin alleviates cisplatin-induced hepatotoxicity in rats without inhibiting its antitumor activity. Pharmacological Reports, 2016, 68, 349-356.	1.5	70
11	Novel pyrazolopyrimidine derivatives targeting COXs and iNOS enzymes; design, synthesis and biological evaluation as potential anti-inflammatory agents. European Journal of Pharmaceutical Sciences, 2014, 62, 197-211.	1.9	66
12	Tackling the cytokine storm in COVID-19, challenges and hopes. Life Sciences, 2020, 257, 118054.	2.0	64
13	3-Methyl-2-phenyl-1-substituted-indole derivatives as indomethacin analogs: design, synthesis and biological evaluation as potential anti-inflammatory and analgesic agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 318-324.	2.5	63
14	Camptothecin's journey from discovery to WHO Essential Medicine: Fifty years of promise. European Journal of Medicinal Chemistry, 2021, 223, 113639.	2.6	63
15	The dynamic association between COVID-19 and chronic disorders: An updated insight into prevalence, mechanisms and therapeutic modalities. Infection, Genetics and Evolution, 2021, 87, 104647.	1.0	60
16	Immunomodulatory MicroRNAs in cancer: targeting immune checkpoints and the tumor microenvironment. FEBS Journal, 2019, 286, 3540-3557.	2.2	59
17	Targeting of the Akt-Nuclear Factor-Î°B Signaling Network by [1-(4-Chloro-3-nitrobenzenesulfonyl)-1H-indol-3-yl]-methanol (OSU-A9), a Novel Indole-3-Carbinol Derivative, in a Mouse Model of Hepatocellular Carcinoma. Molecular Pharmacology, 2009, 76, 957-968.	1.0	57
18	Reactive oxygen species mediate Terbufos-induced apoptosis in mouse testicular cell lines via the modulation of cell cycle and pro-apoptotic proteins. Environmental Toxicology, 2016, 31, 1888-1898.	2.1	57

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19	Tackling Cancer Resistance by Immunotherapy: Updated Clinical Impact and Safety of PD-1/PD-L1 Inhibitors. Cancers, 2018, 10, 32.	1.7	54
20	Recent advances with alkaline phosphatase isoenzymes and their inhibitors. Archiv Der Pharmazie, 2020, 353, e2000011.	2.1	48
21	Design, synthesis and pharmacological evaluation of omeprazole-like agents with anti-inflammatory activity. Bioorganic and Medicinal Chemistry, 2013, 21, 1661-1670.	1.4	46
22	Caffeic acid phenethyl ester protects against glucocorticoid-induced osteoporosis in vivo : Impact on oxidative stress and RANKL/OPG signals. Toxicology and Applied Pharmacology, 2017, 324, 26-35.	1.3	43
23	Immunotherapy, an evolving approach for the management of triple negative breast cancer: Converting non-responders to responders. Critical Reviews in Oncology/Hematology, 2018, 122, 202-207.	2.0	43
24	Camel Milk Attenuates Rheumatoid Arthritis Via Inhibition of Mitogen Activated Protein Kinase Pathway. Cellular Physiology and Biochemistry, 2017, 43, 540-552.	1.1	41
25	Novel diphenylthiazole derivatives with multi-target mechanism: Synthesis, docking study, anticancer and anti-inflammatory activities. Bioorganic Chemistry, 2017, 75, 127-138.	2.0	41
26	OSU-A9 inhibits angiogenesis in human umbilical vein endothelial cells via disrupting Aktâ€“NF-ÎºB and MAPK signaling pathways. Toxicology and Applied Pharmacology, 2013, 272, 616-624.	1.3	40
27	Design, synthesis and anticancer evaluation of novel spirobenzo[h]chromene and spirochromane derivatives with dual EGFR and B-RAF inhibitory activities. European Journal of Medicinal Chemistry, 2018, 150, 567-578.	2.6	40
28	Nuclear factor-ÎºB signaling inhibitors revert multidrug-resistance in breast cancer cells. Chemico-Biological Interactions, 2021, 340, 109450.	1.7	36
29	Design, synthesis and biological evaluation of new 4-(4-substituted-anilino)quinoline derivatives as anticancer agents. Medicinal Chemistry Research, 2017, 26, 929-939.	1.1	35
30	Design, synthesis and analgesic/anti-inflammatory evaluation of novel diarylthiazole and diarylimidazole derivatives towards selective COX-1 inhibitors with better gastric profile. Bioorganic and Medicinal Chemistry, 2017, 25, 665-676.	1.4	35
31	Thiohydantoin derivatives incorporating a pyrazole core: Design, synthesis and biological evaluation as dual inhibitors of topoisomerase-I and cycloxygenase-2 with anti-cancer and anti-inflammatory activities. Bioorganic Chemistry, 2019, 91, 103132.	2.0	35
32	Synthesis, Antiâ€‹scp›B‹/scp›reast Cancer Activity, and Molecular Modeling of Some Benzothiazole and Benzoxazole Derivatives. Archiv Der Pharmazie, 2013, 346, 534-541.	2.1	33
33	OSU-CG5, a novel energy restriction mimetic agent, targets human colorectal cancer cells in vitro. Acta Pharmacologica Sinica, 2014, 35, 394-400.	2.8	33
34	Glutamyl cysteine dipeptide suppresses ferritin expression and alleviates liver injury in iron-overload rat model. Biochimie, 2015, 115, 203-211.	1.3	33
35	6-Shogaol induces cell cycle arrest and apoptosis in human hepatoma cells through pleiotropic mechanisms. European Journal of Pharmacology, 2015, 762, 449-458.	1.7	32
36	L-carnitine mitigates UVA-induced skin tissue injury in rats through downregulation of oxidative stress, p38/c-Fos signaling, and the proinflammatory cytokines. Chemico-Biological Interactions, 2018, 285, 40-47.	1.7	32

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37	Multidirectional desymmetrization of pluripotent building block en route to diastereoselective synthesis of complex nature-inspired scaffolds. Nature Communications, 2018, 9, 4989.	5.8	32
38	Design, synthesis and biological evaluation of novel diphenylthiazole-based cyclooxygenase inhibitors as potential anticancer agents. Bioorganic Chemistry, 2014, 57, 132-141.	2.0	31
39	OSU-A9, a potent indole-3-carbinol derivative, suppresses breast tumor growth by targeting the Akt-NF-ÂB pathway and stress response signaling. Carcinogenesis, 2009, 30, 1702-1709.	1.3	30
40	Antitumor effects of (S)-HDAC42, a phenylbutyrate-derived histone deacetylase inhibitor, in multiple myeloma cells. Cancer Chemotherapy and Pharmacology, 2011, 68, 489-496.	1.1	29
41	Nicotine Mediates Hypochlorous Acid-Induced Nuclear Protein Damage in Mammalian Cells. Inflammation, 2014, 37, 785-792.	1.7	29
42	Sensitization of Hepatocellular Carcinoma Cells to <scp>A</scp>po2<scp>L</scp>/<scp>TRAIL</scp> by a Novel Akt/<scp>NF</scp>â€ºº<scp>B</scp> Signalling Inhibitor. Basic and Clinical Pharmacology and Toxicology, 2014, 114, 464-471.	1.2	29
43	OSU-2S/Sorafenib Synergistic Antitumor Combination against Hepatocellular Carcinoma: The Role of PKCÎ´/p53. Frontiers in Pharmacology, 2016, 7, 463.	1.6	29
44	Synthesis, characterization and biological evaluation of novel 4â€²-fluoro-2â€²-hydroxy-chalcone derivatives as antioxidant, anti-inflammatory and analgesic agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 484-491.	2.5	28
45	Iron supplementation at high altitudes induces inflammation and oxidative injury to lung tissues in rats. Toxicology and Applied Pharmacology, 2014, 274, 1-6.	1.3	26
46	Pharmacological Exploitation of Indole-3-Carbinol to Develop Potent Antitumor Agents. Mini-Reviews in Medicinal Chemistry, 2010, 10, 398-404.	1.1	24
47	Synthesis, biological evaluation, and docking studies of new raloxifene sulfonate or sulfamate derivatives as inhibitors of nucleotide pyrophosphatase/phosphodiesterase. European Journal of Medicinal Chemistry, 2019, 181, 111560.	2.6	24
48	Mechanical and phytochemical protection mechanisms of Calligonum comosum in arid deserts. PLoS ONE, 2018, 13, e0192576.	1.1	23
49	Sequencing [4 + 1]-Cycloaddition and Aza-Michael Addition Reactions: A Diastereoselective Cascade for the Rapid Access of Pyrido[2â€²,1â€²:2,3]/Thiazolo[2â€²,3â€²:2,3]imidazo[1,5-a]quinolone Scaffolds as Potential Antibacterial and Anticancer Motifs. Journal of Organic Chemistry, 2019, 84, 14476-14486.	1.7	23
50	Tackling molecular targets beyond PD-1/PD-L1: Novel approaches to boost patientsâ€™ response to cancer immunotherapy. Critical Reviews in Oncology/Hematology, 2019, 135, 21-29.	2.0	23
51	Synthesis, biological evaluation and kinase profiling of novel S-benzo[4,5]thiazolo[2,3-c][1,2,4]triazole derivatives as cytotoxic agents with apoptosis-inducing activity. Journal of Molecular Structure, 2020, 1219, 128567.	1.8	23
52	A novel indole-3-carbinol derivative inhibits the growth of human oral squamous cell carcinoma in vitro. Oral Oncology, 2010, 46, 748-754.	0.8	22
53	CCDC167 as a potential therapeutic target and regulator of cell cycle-related networks in breast cancer. Aging, 2021, 13, 4157-4181.	1.4	22
54	Pyrrolizines: Design, synthesis, anticancer evaluation and investigation of the potential mechanism of action. Bioorganic and Medicinal Chemistry, 2017, 25, 5637-5651.	1.4	21

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55	Enhancing the Anticancer Activity of Antrodia cinnamomea in Hepatocellular Carcinoma Cells via Cocultivation With Ginger: The Impact on Cancer Cell Survival Pathways. Frontiers in Pharmacology, 2018, 9, 780.	1.6	20
56	Modulating NFâ€ºB, MAPK, and PI3K/AKT signaling by ergothioneine attenuates iron overloadâ€induced hepatocellular injury in rats. Journal of Biochemical and Molecular Toxicology, 2021, 35, e22729.	1.4	20
57	Design, synthesis and biological evaluation of new pyrrolidine carboxamide analogues as potential chemotherapeutic agents for hepatocellular carcinoma. European Journal of Medicinal Chemistry, 2017, 139, 804-814.	2.6	18
58	Gliclazide attenuates acetic acid-induced colitis via the modulation of PPARÎ³, NF-Îºb and MAPK signaling pathways. Toxicology and Applied Pharmacology, 2020, 391, 114919.	1.3	17
59	Design, synthesis and biological evaluation of novel triaryl (Z)-olefins as tamoxifen analogues. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 4960-4963.	1.0	16
60	PRMT5 Selective Inhibitor Enhances Therapeutic Efficacy of Cisplatin in Lung Cancer Cells. International Journal of Molecular Sciences, 2021, 22, 6131.	1.8	16
61	Energy restriction as an antitumor target. Future Oncology, 2010, 6, 1675-1679.	1.1	15
62	Design and synthesis of new energy restriction mimetic agents: Potent anti-tumor activities of hybrid motifs of aminothiazoles and coumarins. Scientific Reports, 2020, 10, 2893.	1.6	15
63	Effective targeting of breast cancer cells (MCF7) via novel biogenic synthesis of gold nanoparticles using cancer-derived metabolites. PLoS ONE, 2020, 15, e0240156.	1.1	15
64	Antrodia cinnamomea boosts the anti-tumor activity of sorafenib in xenograft models of human hepatocellular carcinoma. Scientific Reports, 2018, 8, 12914.	1.6	14
65	The impact of Catechol-O-methyl transferase knockdown on the cell proliferation of hormone-responsive cancers. Molecular and Cellular Endocrinology, 2019, 488, 79-88.	1.6	14
66	Design, synthesis, biological evaluation, and modeling studies of novel conformationally-restricted analogues of sorafenib as selective kinase-inhibitory antiproliferative agents against hepatocellular carcinoma cells. European Journal of Medicinal Chemistry, 2021, 210, 113081.	2.6	13
67	Antitumor effects of energy restriction-mimetic agents: thiazolidinediones. Biological Chemistry, 2013, 394, 865-870.	1.2	12
68	Tangeretin boosts the anticancer activity of metformin in breast cancer cells via curbing the energy production. Phytomedicine, 2021, 83, 153470.	2.3	12
69	Discovery of Novel Small-Molecule Inhibitors of SARS-CoV-2 Main Protease as Potential Leads for COVID-19 Treatment. Journal of Chemical Information and Modeling, 2021, 61, 4745-4757.	2.5	12
70	Antibacterial Activity of Small Molecules Which Eradicate Methicillin-Resistant Staphylococcus aureus Persisters. Frontiers in Microbiology, 2022, 13, 823394.	1.5	12
71	Energy restriction: stepping stones towards cancer therapy. Future Oncology, 2012, 8, 1503-1506.	1.1	11
72	The use of new quinazolinone derivative and doxorubicin loaded solid lipid nanoparticles in reversing drug resistance in experimental cancer cell lines: A systematic study. Journal of Drug Delivery Science and Technology, 2020, 56, 101569.	1.4	11

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73	Bis-(5-substituted-2-thiono-1,3,5-thiadiazinan-3-yl) butane as a scaffold of anti-proliferative activity, blended by a multicomponent process. Medicinal Chemistry Research, 2018, 27, 1103-1110.	1.1	10
74	Potential targeting of Hep3B liver cancer cells by lupeol isolated from Avicennia marina. Archiv Der Pharmazie, 2021, 354, e2100120.	2.1	10
75	Caffeic acid phenethyl ester guards against benign prostate hypertrophy in rats: Role of IGFâ€1R/protein kinaseâ€B (Akt)/Î²â€catenin signaling. IUBMB Life, 2018, 70, 519-528.	1.5	9
76	Modulation of Cyclins, p53 and Mitogen-Activated Protein Kinases Signaling in Breast Cancer Cell Lines by 4-(3,4,5-Trimethoxyphenoxy)benzoic Acid. International Journal of Molecular Sciences, 2014, 15, 743-757.	1.8	8
77	Comparative sphingolipidomic analysis reveals significant differences between doxorubicin-sensitive and -resistance MCF-7 cells. PLoS ONE, 2021, 16, e0258363.	1.1	8
78	Rosuvastatin and ellagic acid protect against isoproterenol-induced myocardial infarction in hyperlipidemic rats. Beni-Suef University Journal of Basic and Applied Sciences, 2014, 3, 239-246.	0.8	7
79	The Protective Role of Etoricoxib Against Diethylnitrosamine/2-acetylaminofluorene- Induced Hepatocarcinogenesis in Wistar Rats: The Impact of NF-ÎºB/COX-2/PGE2 Signaling. Current Molecular Pharmacology, 2021, 15, 252-262.	0.7	7
80	Optimum inhibition of MCF-7 breast cancer cells by efficient targeting of the macropinocytosis using optimized paclitaxel-loaded nanoparticles. Life Sciences, 2022, 305, 120778.	2.0	7
81	Nebivolol and chrysin protect the liver against ischemia/reperfusion-induced injury in rats. Beni-Suef University Journal of Basic and Applied Sciences, 2015, 4, 86-92.	0.8	6
82	Novel Thymohydroquinone Derivatives as Potential Anticancer Agents: Design, Synthesis, and Biological Screening. Australian Journal of Chemistry, 2016, 69, 1277.	0.5	6
83	Antiproliferative activity of cycloalkanecarboxamide derivatives possessing sulfonate or sulfamate moiety. Bioorganic Chemistry, 2020, 97, 103677.	2.0	6
84	Impact of the ACE2 activator xanthenone on tacrolimus nephrotoxicity: Modulation of uric acid/ERK/p38 MAPK and Nrf2/SOD3/GCLC signaling pathways. Life Sciences, 2022, 288, 120154.	2.0	6
85	Cancer immunotherapy resistance: The impact of microbiome-derived short-chain fatty acids and other emerging metabolites. Life Sciences, 2022, 300, 120573.	2.0	6
86	LRWD1 expression is regulated through DNA methylation in human testicular embryonal carcinoma cells. Basic and Clinical Andrology, 2021, 31, 12.	0.8	5
87	Potential targets of energy restriction mimetic agents in cancer cells. Future Oncology, 2014, 10, 2547-2550.	1.1	4
88	Different Protective Effects of Trimetazidine against Renal Ischemia/Reperfusion Injury in Rats. British Journal of Pharmacology and Toxicology, 2015, 6, 64-69.	0.3	4
89	Nuclear factor erythroid-2-related factor regulates LRWD1 expression and cellular adaptation to oxidative stress in human embryonal carcinoma cells. Biochimie, 2018, 148, 99-106.	1.3	4
90	Tangeretin as an adjuvant and chemotherapeutic sensitizer against various types of cancers: a comparative overview. Journal of Pharmacy and Pharmacology, 2021, 73, 601-610.	1.2	4

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91	Renoprotective effect of vinpocetine against ischemia/reperfusion injury: Modulation of NADPH oxidase/Nrf2, IKKÎ²/NFâ€ºB p65, and cleaved caspaseâ€3 expressions. Journal of Biochemical and Molecular Toxicology, 2022, 36, e23046.	1.4	4
92	The inhibition of autophagy by spautin boosts the anticancer activity of fingolimod in multidrug-resistant hepatocellular carcinoma. Life Sciences, 2022, 304, 120699.	2.0	4
93	Identification of SEPTIN12 as a novel target of the androgen and estrogen receptors in human testicular cells. Biochimie, 2019, 158, 1-9.	1.3	3
94	Design and synthesis of nature-inspired chromenopyrroles as potential modulators of mitochondrial metabolism. Medicinal Chemistry Research, 2021, 30, 635-646.	1.1	3
95	A Novel Benzopyrane Derivative Targeting Cancer Cell Metabolic and Survival Pathways. Cancers, 2021, 13, 2840.	1.7	3
96	Differential expression of pyruvate dehydrogenase E1A and its inactive phosphorylated form among breast cancer subtypes. Life Sciences, 2021, 284, 119885.	2.0	2
97	Iron supplementation at high altitude induces inflammation and oxidative injury to lung tissues in rats (708.7). FASEB Journal, 2014, 28, 708.7.	0.2	2
98	Design, synthesis, and biological evaluation of novel pyrido-dipyrimidines as dual topoisomerase II/FLT3 inhibitors in leukemia cells. Bioorganic Chemistry, 2022, 122, 105752.	2.0	2
99	Upadacitinib protects against cisplatin-induced renal and hepatic dysfunction without impairing its anticancer activity. European Journal of Pharmaceutical Sciences, 2022, 172, 106149.	1.9	2
100	Design, synthesis, and biological evaluation of a new series of pyrazole derivatives: Discovery of potent and selective JNK3 kinase inhibitors. Bioorganic and Medicinal Chemistry, 2022, 69, 116894.	1.4	2
101	Energy restriction as a novel approach targeting breast cancer stem cells multi-drug resistance. Annals of Oncology, 2018, 29, iii20-iii21.	0.6	1
102	PO-453 Effect of GLP-1 on proliferation and migration in pheochromocytoma and colorectal cancer cells. ESMO Open, 2018, 3, A199-A200.	2.0	1
103	Lipoic Acid and Coenzyme Q10 Protect Against Lead-induced Toxicity in Rats with Metabolic Syndrome. International Journal of Pharmacology, 2016, 12, 146-153.	0.1	1
104	Disrupting cancer dynamics by a novel pleiotropic benzopyrane derivative. European Journal of Cancer, 2020, 138, S38.	1.3	0
105	Abstract 1244: Discovery of a novel anticancer benzopyrane derivative with an effective multitarget mechanism of action. , 2021, , .		0
106	Abstract B48: Sensitization of Hepatocellular Carcinoma Cells to TRAIL by a Novel AÎºt/NF-kappaB Signaling Inhibitor. Clinical Cancer Research, 2012, 18, B48-B48.	3.2	0
107	Protective effects of camelâ€™s milk in triâ€nitrobenzensulfonic acidâ€induced colitis in rats: modulation of inflammatory cytokines and oxidative stress (134.6). FASEB Journal, 2014, 28, 134.6.	0.2	0
108	Abstract 4505: Activity and avascular penetration of FTY720 (fingolimod) and its non-immune suppressant analogue (OSU2S) within three dimensional tissue culture model of colorectal cancer. , 2015, , .		0

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109	Abstract A23: Novel approach for targeting hepatocellular carcinoma cell survival: OSU-2S/Sorafenib combination. , 2017, , .		0
110	Abstract B45: Insights into the anti-prostate cancer activity of pterostilbene. , 2017, , .		0
111	Abstract 4174: The impact of catechol estrogen metabolism on the proliferation rate and Docetaxel (DOC) resistance in hormone-responsive cancers. , 2017, , .		0
112	Constraining Multiâ€Ðrug Resistance in Breast Cancer Cells by Energy Restriction. FASEB Journal, 2019, 33, 675.18.	0.2	0
113	Abstract 4107: The impact of NF-Î²B inhibition on the sensitivity of breast cancer cells to chemotherapy-induced apoptosis. , 2020, , .		0