

Murat SentÅærk

List of Publications by Year in descending order

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80
papers

3,224
citations

109137

35
h-index

155451

55
g-index

81
all docs

81
docs citations

81
times ranked

1962
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbonic anhydrase inhibitors. Inhibition of human erythrocyte isozymes I and II with a series of antioxidant phenols. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 3207-3211.	1.4	207
2	<i>In Vitro</i> Inhibition of Human Carbonic Anhydrase I and II Isozymes with Natural Phenolic Compounds. <i>Chemical Biology and Drug Design</i> , 2011, 77, 494-499.	1.5	170
3	In vitro inhibition of α -carbonic anhydrase isozymes by some phenolic compounds. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 4259-4262.	1.0	170
4	In vitro inhibition of salicylic acid derivatives on human cytosolic carbonic anhydrase isozymes I and II. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 9101-9105.	1.4	160
5	Carbonic anhydrase inhibitors: <i>in vitro</i> inhibition of α isoforms (hCA I, hCA II, bCA III, hCA IV) by flavonoids. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013, 28, 283-288.	2.5	102
6	Kinetic and docking studies of phenol-based inhibitors of carbonic anhydrase isoforms I, II, IX and XII evidence a new binding mode within the enzyme active site. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 1381-1389.	1.4	97
7	Salicylic acid derivatives: synthesis, features and usage as therapeutic tools. <i>Expert Opinion on Therapeutic Patents</i> , 2011, 21, 1831-1841.	2.4	77
8	Inhibition of acetylcholinesterase and butyrylcholinesterase with uracil derivatives: kinetic and computational studies. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 429-437.	2.5	76
9	Carbonic anhydrase inhibitors: inhibition of human and bovine isoenzymes by benzenesulphonamides, cyclitols and phenolic compounds. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012, 27, 845-848.	2.5	72
10	Purification and characterization of carbonic anhydrase from the teleost fish <i>Dicentrarchus labrax</i> (European seabass) liver and toxicological effects of metals on enzyme activity. <i>Environmental Toxicology and Pharmacology</i> , 2011, 32, 69-74.	2.0	71
11	Dantrolene Inhibits Human Erythrocyte Glutathione Reductase. <i>Biological and Pharmaceutical Bulletin</i> , 2008, 31, 2036-2039.	0.6	70
12	Synthesis and biological activity of novel thiourea derivatives as carbonic anhydrase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015, 30, 75-80.	2.5	69
13	A novel and one-pot synthesis of new 1-tosyl pyrrol-2-one derivatives and analysis of carbonic anhydrase inhibitory potencies. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 4468-4474.	1.4	68
14	α -Carbonic anhydroses are sulfatases with cyclic diol monosulfate esters. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012, 27, 148-154.	2.5	68
15	Characterization and anions inhibition studies of an α -carbonic anhydrase from the teleost fish <i>Dicentrarchus labrax</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 744-748.	1.4	63
16	NO-releasing esters show carbonic anhydrase inhibitory action against human isoforms I and II. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 3559-3563.	1.4	59
17	Synthesis and carbonic anhydrase inhibitory properties of novel bromophenols and their derivatives including natural products: Vidalol B. <i>European Journal of Medicinal Chemistry</i> , 2012, 54, 423-428.	2.6	58
18	Deltamethrin attenuates antioxidant defense system and induces the expression of heat shock protein 70 in rainbow trout. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2010, 152, 215-223.	1.3	55

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19	Simple methanesulfonates are hydrolyzed by the sulfatase carbonic anhydrase activity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012, 27, 880-885.	2.5	54
20	Structure-activity relationships for the interaction of 5,10-dihydroindeno[1,2-b]indole derivatives with human and bovine carbonic anhydrase isoforms I, II, III, IV and VI. <i>European Journal of Medicinal Chemistry</i> , 2012, 49, 68-73.	2.6	54
21	Sulfapyridine-like benzenesulfonamide derivatives as inhibitors of carbonic anhydrase isoenzymes I, II and VI. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012, 27, 818-824.	2.5	51
22	Design, synthesis and biological evaluation of novel nitroaromatic compounds as potent glutathione reductase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 5398-5402.	1.0	48
23	In vitro inhibition of human erythrocyte glutathione reductase by some new organic nitrates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 3661-3663.	1.0	47
24	Synthesis of 5-methyl-2,4-dihydro-3H-1,2,4-triazole-3-one's aryl Schiff base derivatives and investigation of carbonic anhydrase and cholinesterase (AChE, BuChE) inhibitory properties. <i>Bioorganic Chemistry</i> , 2019, 86, 705-713.	2.0	47
25	An Alternative Purification Method for Human Serum Paraoxonase 1 and its Interactions with Sulfonamides. <i>Chemical Biology and Drug Design</i> , 2010, 76, 552-558.	1.5	44
26	In vitro and in vivo effects of some pesticides on carbonic anhydrase enzyme from rainbow trout (<i>Oncorhynchus mykiss</i>) gills. <i>Pesticide Biochemistry and Physiology</i> , 2010, 97, 177-181.	1.6	43
27	Synthesis and carbonic anhydrase inhibitory properties of novel cyclohexanonyl bromophenol derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 1352-1357.	1.0	43
28	Chromone containing sulfonamides as potent carbonic anhydrase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012, 27, 744-747.	2.5	42
29	Interaction of carbonic anhydrase isozymes I, II, and IX with some pyridine and phenol hydrazinecarbothioamide derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 5636-5641.	1.0	41
30	Investigation of arenesulfonyl-2-imidazolidinones as potent carbonic anhydrase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015, 30, 81-84.	2.5	40
31	Synthesis and carbonic anhydrase inhibitory properties of novel chalcone substituted benzenesulfonamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 5867-5870.	1.0	40
32	Inhibition of human carbonic anhydrase isozymes I, II and VI with a series of bisphenol, methoxy and bromophenol compounds. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012, 27, 467-475.	2.5	39
33	Carbonic anhydrase inhibitors: Design, synthesis, kinetic, docking and molecular dynamics analysis of novel glycine and phenylalanine sulfonamide derivatives. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 7353-7358.	1.4	39
34	Purification and characterization of glutathione reductase from rainbow trout (<i>Oncorhynchus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 <i>Physiology Part - C: Toxicology and Pharmacology</i> , 2008, 148, 117-121.	1.3	38
35	Heavy metal ion inhibition studies of human, sheep and fish $\hat{\pm}$ -carbonic anhydrases. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013, 28, 278-282.	2.5	38
36	Design, synthesis and molecular modelling studies of some pyrazole derivatives as carbonic anhydrase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 289-297.	2.5	38

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37	In vitro and in vivo effects of some pesticides on glucose-6-phosphate dehydrogenase enzyme activity from rainbow trout (<i>Oncorhynchus mykiss</i>) erythrocytes. <i>Pesticide Biochemistry and Physiology</i> , 2009, 95, 95-99.	1.6	37
38	Pyridazinone substituted benzenesulfonamides as potent carbonic anhydrase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 1337-1341.	1.0	37
39	Carbonic anhydrase inhibitory properties of some uracil derivatives. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 74-77.	2.5	36
40	Purification and characterization of carbonic anhydrase from sheep kidney and effects of sulfonamides on enzyme activity. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 1522-1525.	1.4	35
41	Effects of Some Metal Ions on Human Erythrocyte Glutathione Reductase: An In Vitro Study. <i>Protein and Peptide Letters</i> , 2007, 14, 1027-1030.	0.4	34
42	The synthesis of axially disubstituted silicon phthalocyanines, their quaternized derivatives and first inhibitory effect on human cytosolic carbonic anhydrase isozymes hCA I and II. <i>RSC Advances</i> , 2018, 8, 10172-10178.	1.7	34
43	Effects of some antibiotics on human erythrocyte glutathione reductase: an <i>in vitro</i> study. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2008, 23, 144-148.	2.5	33
44	Effects of dopaminergic compounds on carbonic anhydrase isozymes I, II, and VI. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012, 27, 365-369.	2.5	33
45	Synthesis and Biological Evaluation of Novel Bischalcone Derivatives as Carbonic Anhydrase Inhibitors. <i>Archiv Der Pharmazie</i> , 2016, 349, 741-748.	2.1	33
46	Design, synthesis, characterization of peripherally tetra-pyridine-triazole-substituted phthalocyanines and their inhibitory effects on cholinesterases (AChE/BChE) and carbonic anhydrases (hCA I, II and IX). <i>Dalton Transactions</i> , 2020, 49, 203-209.	1.6	33
47	Synthesis and carbonic anhydrase inhibitory properties of novel uracil derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 3261-3263.	1.0	32
48	Triazole substituted metal-free, metallo-phthalocyanines and their water soluble derivatives as potential cholinesterases inhibitors: Design, synthesis and in vitro inhibition study. <i>Bioorganic Chemistry</i> , 2019, 90, 103100.	2.0	30
49	Effects of some analgesic anaesthetic drugs on human erythrocyte glutathione reductase: an <i>in vitro</i> study. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2009, 24, 420-424.	2.5	26
50	Determination of the inhibitory effects of N-methylpyrrole derivatives on glutathione reductase enzyme. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 51-54.	2.5	23
51	Synthesis of 3,4-dihydropyrrolidine-2,5-dione and 3,5-dihydroxybenzoic acid derivatives and evaluation of the carbonic anhydrase I and II inhibition. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015, 30, 896-900.	2.5	21
52	Inhibition of mammalian carbonic anhydrase isoforms I, II and VI with thiamine and thiamine-like molecules. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013, 28, 316-319.	2.5	20
53	Paraoxonase-1, an organophosphate detoxifier and cardioprotective enzyme, is inhibited by anesthetics: An in vitro and in vivo insight. <i>Pesticide Biochemistry and Physiology</i> , 2011, 101, 206-211.	1.6	19
54	Effects of aryl methanesulfonate derivatives on acetylcholinesterase and butyrylcholinesterase. <i>Journal of Biochemical and Molecular Toxicology</i> , 2018, 32, e22210.	1.4	19

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55	Synthesis and glutathione reductase inhibitory properties of 5- <i>methylen</i> -2,4-dihydro-1,2,4-triazol-3-one's aryl Schiff base derivatives. <i>Archiv Der Pharmazie</i> , 2018, 351, e1800086.	2.1	19
56	Synthesis, characterization, and biological evaluation of some novel Schiff bases as potential metabolic enzyme inhibitors. <i>Archiv Der Pharmazie</i> , 2022, 355, e2100430.	2.1	19
57	Carbonic anhydrase from <i>Apis mellifera</i> : purification and inhibition by pesticides. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017, 32, 47-50.	2.5	15
58	Kinetic and <i>in silico</i> studies of hydroxy-based inhibitors of carbonic anhydrase isoforms I and II. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 31-37.	2.5	14
59	Interaction of anions with a newly characterized alpha carbonic anhydrase from <i>Halomonas</i> sp. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 1119-1123.	2.5	13
60	Synthesis of N-phenylsulfonamide derivatives and investigation of some esterase enzymes inhibiting properties. <i>Bioorganic Chemistry</i> , 2020, 104, 104279.	2.0	11
61	<i>In vitro</i> and <i>in vivo</i> effects of some benzodiazepine drugs on human and rabbit erythrocyte carbonic anhydrase enzymes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012, 27, 680-684.	2.5	10
62	Discovering novel carbonic anhydrase type IX (CA IX) inhibitors from seven million compounds using virtual screening and <i>in vitro</i> analysis. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015, 31, 1-9.	2.5	10
63	Assesment of metal inhibition of antioxidant enzyme glutathione reductase from rainbow trout liver. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013, 28, 11-15.	2.5	9
64	Purification and Characterization of Carbonic Anhydrase from <i>Balkan Lake Trout Gill (Salmo Trutta) Overlock</i> 10 <i>Molecular Toxicology</i> , 2015, 29, 123-128.	1.4	9
65	Investigation of inhibition of human glucose 6-phosphate dehydrogenase by some ^{99m} Tc chelators by <i>in silico</i> and <i>in vitro</i> methods. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 141-147.	2.5	9
66	Investigation of pesticides on honey bee carbonic anhydrase inhibition. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 1923-1927.	2.5	9
67	The effects of chemical and radioactive properties of Tl-201 on human erythrocyte glucose 6-phosphate dehydrogenase activity. <i>Nuclear Medicine and Biology</i> , 2010, 37, 389-394.	0.3	8
68	<i>In vitro</i> enzymatic response of Turkish native chicken <i>Gerze</i> to heavy metal exposure. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013, 28, 52-57.	2.5	7
69	Comparison of blood carbonic anhydrase activity of athletes performing interval and continuous running exercise at high altitude. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019, 34, 218-223.	2.5	7
70	Integrated Binary QSAR-Driven Virtual Screening and <i>In Vitro</i> Studies for Finding Novel hMAO-B-Selective Inhibitors. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 4047-4055.	2.5	7
71	Synthesis and Determination of Some Biological Activities of Novel 2,4-Dinitrophenyl Derivatives. <i>Archiv Der Pharmazie</i> , 2015, 348, 214-220.	2.1	4
72	Kinetic and docking studies of cytosolic/tumor-associated carbonic anhydrase isozymes I, II and IX with some hydroxylic compounds. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 1214-1220.	2.5	4

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73	The effects of chemical and radioactive properties of Tl-201 on human erythrocyte glutathione reductase activity. Nuclear Medicine and Biology, 2012, 39, 161-165.	0.3	3
74	Inhibitory Effects and Kinetic-Docking Studies of Xanthohumol From <i>Humulus lupulus</i> Cones Against Carbonic Anhydrase, Acetylcholinesterase, and Butyrylcholinesterase. Natural Product Communications, 2019, 14, 1934578X1988150.	0.2	3
75	Biological evaluation of some uracil derivatives as potent glutathione reductase inhibitors. AIP Conference Proceedings, 2016, , .	0.3	1
76	Comparison of inhibition effects of some benzoic acid derivatives on sheep heart carbonic anhydrase. AIP Conference Proceedings, 2016, , .	0.3	0
77	The effect of sodium pertechnetate human carbonic anhydrase I and II. , 2017, , .		0
78	In vivo effects of radioactive properties of Tl-201 on human carbonic anhydrase activity. AIP Conference Proceedings, 2017, , .	0.3	0
79	In vitro effects of radioactive properties of ^{99m} Tc and ^{99m} Tc-MDP on human glucose 6-phosphate dehydrogenase activity. , 2017, , .		0
80	A new carbonic anhydrase identified in the Gram-negative bacterium (<i>Chromohalobacter</i> sp.) and the interaction of anions with the enzyme. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2022, 254, 109290.	1.3	0