

Murat Sentrk

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75
papers

2,663
citations

32
h-index

50
g-index

81
ext. papers

2,918
ext. citations

4.3
avg, IF

5.14
L-index

#	Paper	IF	Citations
75	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, 3207-11	3.4	194
74	In vitro inhibition of carbonic anhydrase isozymes by some phenolic compounds. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 4259-62	2.9	158
73	In Vitro inhibition of human carbonic anhydrase I and II isozymes with natural phenolic compounds. <i>Chemical Biology and Drug Design</i> , 2011 , 77, 494-9	2.9	154
72	In vitro inhibition of salicylic acid derivatives on human cytosolic carbonic anhydrase isozymes I and II. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 9101-5	3.4	142
71	Carbonic anhydrase inhibitors: in vitro inhibition of isoforms (hCA I, hCA II, bCA III, hCA IV) by flavonoids. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013 , 28, 283-8	5.6	94
70	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, 1381-9	3.4	89
69	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, 845-8	5.6	67
68	Dantrolene inhibits human erythrocyte glutathione reductase. <i>Biological and Pharmaceutical Bulletin</i> , 2008 , 31, 2036-9	2.3	65
67	Carbonic anhydrases are sulfatases with cyclic diol monosulfate esters. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012 , 27, 148-54	5.6	63
66	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, 4468-74	3.4	61
65	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	5.8	60
64	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	5.6	57
63	NO-releasing esters show carbonic anhydrase inhibitory action against human isoforms I and II. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 3559-63	3.4	57
62	Characterization and anions inhibition studies of an carbonic anhydrase from the teleost fish <i>Dicentrarchus labrax</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 744-8	3.4	55
61	Salicylic acid derivatives: synthesis, features and usage as therapeutic tools. <i>Expert Opinion on Therapeutic Patents</i> , 2011 , 21, 1831-41	6.8	53
60	Simple methanesulfonates are hydrolyzed by the sulfatase carbonic anhydrase activity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012 , 27, 880-5	5.6	50
59	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	6.8	49

58	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, 423-8	6.8	48
57	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, 215-23	3.2	46
56	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, 818-24	5.6	45
55	An alternative purification method for human serum paraoxonase 1 and its interactions with sulfonamides. <i>Chemical Biology and Drug Design</i> , 2010 , 76, 552-8	2.9	42
54	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	5.6	41
53	Design, synthesis and biological evaluation of novel nitroaromatic compounds as potent glutathione reductase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 5398-402	2.9	41
52	In vitro inhibition of human erythrocyte glutathione reductase by some new organic nitrates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 3661-3	2.9	39
51	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	4.9	39
50	Investigation of arenesulfonyl-2-imidazolidinones as potent carbonic anhydrase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015 , 30, 81-4	5.6	36
49	Chromone containing sulfonamides as potent carbonic anhydrase inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012 , 27, 744-7	5.6	36
48	Synthesis and carbonic anhydrase inhibitory properties of novel cyclohexanonyl bromophenol derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 1352-7	2.9	35
47	Heavy metal ion inhibition studies of human, sheep and fish α -carbonic anhydrases. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013 , 28, 278-82	5.6	35
46	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, 5636-41	2.9	34
45	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, 7353-8	3.4	33
44	Synthesis and carbonic anhydrase inhibitory properties of novel chalcone substituted benzenesulfonamides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 5867-5870	2.9	32
43	Pyridazinone substituted benzenesulfonamides as potent carbonic anhydrase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 1337-41	2.9	32
42	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, 467-75	5.6	32
41	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	3.7	29

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, 1522-5	3.4	28
39	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	4.9	28
38	Effects of some metal ions on human erythrocyte glutathione reductase: an in vitro study. <i>Protein and Peptide Letters</i> , 2007 , 14, 1027-30	1.9	28
37	Effects of dopaminergic compounds on carbonic anhydrase isozymes I, II, and VI. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012 , 27, 365-9	5.6	27
36	Carbonic anhydrase inhibitory properties of some uracil derivatives. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017 , 32, 74-77	5.6	26
35	Synthesis of 5-methyl-2,4-dihydro-3H-1,2,4-triazole-3-one π aryl Schiff base derivatives and investigation of carbonic anhydrase and cholinesterase (AChE, BuChE) inhibitory properties. <i>Bioorganic Chemistry</i> , 2019 , 86, 705-713	5.1	26
34	Effects of some antibiotics on human erythrocyte glutathione reductase: an in vitro study. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2008 , 23, 144-8	5.6	25
33	Synthesis and carbonic anhydrase inhibitory properties of novel uracil derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 3261-3	2.9	24
32	Synthesis and Biological Evaluation of Novel Bischalcone Derivatives as Carbonic Anhydrase Inhibitors. <i>Archiv Der Pharmazie</i> , 2016 , 349, 741-8	4.3	23
31	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	5.6	23
30	Effects of some analgesic anaesthetic drugs on human erythrocyte glutathione reductase: an in vitro study. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2009 , 24, 420-4	5.6	22
29	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	4.3	19
28	Synthesis of 3,4-dihydropyrrrolidine-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	5.6	17
27	Purification and characterization of glutathione reductase from rainbow trout (<i>Oncorhynchus mykiss</i>) liver and inhibition effects of metal ions on enzyme activity. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2008 , 148, 117-21	3.2	16
26	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	5.1	15
25	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	4.9	15
24	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, 316-9	5.6	13
23	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	5.6	10

22	Discovering novel carbonic anhydrase type IX (CA IX) inhibitors from seven million compounds using virtual screening and in vitro analysis. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 425-33	5.6	10
21	Kinetic and in silico studies of hydroxy-based inhibitors of carbonic anhydrase isoforms I and II. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 31-7	5.6	10
20	Interaction of anions with a newly characterized alpha carbonic anhydrase from Halomonas sp. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 1119-23	5.6	10
19	Effects of aryl methanesulfonate derivatives on acetylcholinesterase and butyrylcholinesterase. <i>Journal of Biochemical and Molecular Toxicology</i> , 2018 , 32, e22210	3.4	10
18	In vitro and in vivo effects of some benzodiazepine drugs on human and rabbit erythrocyte carbonic anhydrase enzymes. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012 , 27, 680-4	5.6	10
17	Synthesis of N-phenylsulfonamide derivatives and investigation of some esterase enzymes inhibiting properties. <i>Bioorganic Chemistry</i> , 2020 , 104, 104279	5.1	10
16	Synthesis and glutathione reductase inhibitory properties of 5-methyl-2,4-dihydro-3H-1,2,4-triazol-3-one π aryl Schiff base derivatives. <i>Archiv Der Pharmazie</i> , 2018 , 351, e1800086	4.3	9
15	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	5.6	8
14	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, 389-94	2.1	7
13	Purification and characterization of carbonic anhydrase from AFBal Lake trout gill (<i>Salmo trutta labrax</i>) and effects of sulfonamides on enzyme activity. <i>Journal of Biochemical and Molecular Toxicology</i> , 2015 , 29, 123-8	3.4	6
12	Assesment of metal inhibition of antioxidant enzyme glutathione reductase from rainbow trout liver. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013 , 28, 11-5	5.6	6
11	Investigation of inhibition of human glucose 6-phosphate dehydrogenase by some ^{99m} Tc chelators by in silico and in vitro methods. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 141-147	5.6	6
10	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, 218-224	5.6	6
9	In vitro enzymatic response of Turkish native chicken "Gerze" to heavy metal exposure. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013 , 28, 52-7	5.6	5
8	Synthesis and determination of some biological activities of novel 2,4-dinitrophenyl derivatives. <i>Archiv Der Pharmazie</i> , 2015 , 348, 214-20	4.3	4
7	Synthesis, characterization, and biological evaluation of some novel Schiff bases as potential metabolic enzyme inhibitors.. <i>Archiv Der Pharmazie</i> , 2022 , e2100430	4.3	4
6	Inhibitory Effects and Kinetic-Docking Studies of Xanthohumol From <i>Humulus lupulus</i> Cones Against Carbonic Anhydrase, Acetylcholinesterase, and Butyrylcholinesterase. <i>Natural Product Communications</i> , 2019 , 14, 1934578X1988150	0.9	3
5	The effects of chemical and radioactive properties of Tl-201 on human erythrocyte glutathione reductase activity. <i>Nuclear Medicine and Biology</i> , 2012 , 39, 161-5	2.1	3

4	Integrated Binary QSAR-Driven Virtual Screening and In Vitro Studies for Finding Novel hMAO-B-Selective Inhibitors. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 4047-4055	6.1	3
3	Investigation of pesticides on honey bee carbonic anhydrase inhibition. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020 , 35, 1923-1927	5.6	3
2	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, 1214-20	5.6	2
1	A new carbonic anhydrase identified in the Gram-negative bacterium (<i>Chromohalobacter</i> sp.) and the interaction of anions with the enzyme.. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2022 , 254, 109290	3.2	