Murat Sentrk

List of Publications by Year in Descending Order

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	Synthesis, characterization, and biological evaluation of some novel Schiff bases as potential metabolic enzyme inhibitors.. *Archiv Der Pharmazie*, **2022**, e2100430	4.3	4
74	A new carbonic anhydrase identified in the Gram-negative bacterium (Chromohalobacter sp.) and the interaction of anions with the enzyme.. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2022**, 254, 109290	3.2	
73	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). *Dalton Transactions*, **2020**, 49, 203-209	4.3	19
72	Design, synthesis and molecular modelling studies of some pyrazole derivatives as carbonic anhydrase inhibitors. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2020**, 35, 289-297	5.6	23
71	Synthesis of N-phenylsulfonamide derivatives and investigation of some esterase enzymes inhibiting properties. *Bioorganic Chemistry*, **2020**, 104, 104279	5.1	10
70	Integrated Binary QSAR-Driven Virtual Screening and In Vitro Studies for Finding Novel hMAO-B-Selective Inhibitors. *Journal of Chemical Information and Modeling*, **2020**, 60, 4047-4055	6.1	3
69	Investigation of pesticides on honey bee carbonic anhydrase inhibition. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2020**, 35, 1923-1927	5.6	3
68	Inhibition of acetylcholinesterase and butyrylcholinesterase with uracil derivatives: kinetic and computational studies. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2019**, 34, 429-437	5.6	41
67	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. *Bioorganic Chemistry*, **2019**, 86, 705-713	5.1	26
66	Triazole substituted metal-free, metallo-phthalocyanines and their water soluble derivatives as potential cholinesterases inhibitors: Design, synthesis and in vitro inhibition study. *Bioorganic Chemistry*, **2019**, 90, 103100	5.1	15
65	Inhibitory Effects and Kinetic-Docking Studies of Xanthohumol From Humulus lupulus Cones Against Carbonic Anhydrase, Acetylcholinesterase, and Butyrylcholinesterase. *Natural Product Communications*, **2019**, 14, 1934578X1988150	0.9	3
64	Comparison of blood carbonic anhydrase activity of athletes performing interval and continuous running exercise at high altitude. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2019**, 34, 218-224	5.6	6
63	Determination of the inhibitory effects of N-methylpyrrole derivatives on glutathione reductase enzyme. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2019**, 34, 51-54	5.6	8
62	The synthesis of axially disubstituted silicon phthalocyanines, their quaternized derivatives and first inhibitory effect on human cytosolic carbonic anhydrase isozymes hCA I and II.. *RSC Advances*, **2018**, 8, 10172-10178	3.7	29
61	Effects of aryl methanesulfonate derivatives on acetylcholinesterase and butyrylcholinesterase. *Journal of Biochemical and Molecular Toxicology*, **2018**, 32, e22210	3.4	10
60	Synthesis and glutathione reductase inhibitory properties of 5-methyl-2,4-dihydro-3H-1,2,4-triazol-3-one's aryl Schiff base derivatives. *Archiv Der Pharmazie*, **2018**, 351, e1800086	4.3	9
59	Carbonic anhydrase inhibitory properties of some uracil derivatives. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2017**, 32, 74-77	5.6	26

58	Carbonic anhydrase from Apis mellifera: purification and inhibition by pesticides. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2017**, 32, 47-50	5.6	10
57	Discovering novel carbonic anhydrase type IX (CA IX) inhibitors from seven million compounds using virtual screening and in vitro analysis. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 425-33	5.6	10
56	Synthesis and Biological Evaluation of Novel Bischalcone Derivatives as Carbonic Anhydrase Inhibitors. *Archiv Der Pharmazie*, **2016**, 349, 741-8	4.3	23
55	Synthesis and carbonic anhydrase inhibitory properties of novel chalcone substituted benzenesulfonamides. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 5867-5870	2.9	32
54	Kinetic and in silico studies of hydroxy-based inhibitors of carbonic anhydrase isoforms I and II. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 31-7	5.6	10
53	Pyridazinone substituted benzenesulfonamides as potent carbonic anhydrase inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 1337-41	2.9	32
52	Kinetic and docking studies of cytosolic/tumor-associated carbonic anhydrase isozymes I, II and IX with some hydroxylic compounds. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 1214-20	5.6	2
51	Interaction of anions with a newly characterized alpha carbonic anhydrase from Halomonas sp. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 1119-23	5.6	10
50	Investigation of inhibition of human glucose 6-phosphate dehydrogenase by some 99mTc chelators by in silico and in vitro methods. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 141-147	5.6	6
49	Investigation of arenesulfonyl-2-imidazolidinones as potent carbonic anhydrase inhibitors. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2015**, 30, 81-4	5.6	36
48	Synthesis of 3,4-dihydroxypyrrolidine-2,5-dione and 3,5-dihydroxybenzoic acid derivatives and evaluation of the carbonic anhydrase I and II inhibition. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2015**, 30, 896-900	5.6	17
47	Carbonic anhydrase inhibitors: Design, synthesis, kinetic, docking and molecular dynamics analysis of novel glycine and phenylalanine sulfonamide derivatives. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 7353-8	3.4	33
46	Interaction of carbonic anhydrase isozymes I, II, and IX with some pyridine and phenol hydrazinecarbothioamide derivatives. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 5636-41	2.9	34
45	Purification and characterization of carbonic anhydrase from A□Ba□ Lake trout gill (Salmo trutta labrax) and effects of sulfonamides on enzyme activity. *Journal of Biochemical and Molecular Toxicology*, **2015**, 29, 123-8	3.4	6
44	Synthesis and biological activity of novel thiourea derivatives as carbonic anhydrase inhibitors. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2015**, 30, 75-80	5.6	57
43	Synthesis and determination of some biological activities of novel 2,4-dinitrophenyl derivatives. *Archiv Der Pharmazie*, **2015**, 348, 214-20	4.3	4
42	Synthesis and carbonic anhydrase inhibitory properties of novel uracil derivatives. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 3261-3	2.9	24
41	Purification and characterization of carbonic anhydrase from sheep kidney and effects of sulfonamides on enzyme activity. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 1522-5	3.4	28

40	Assesment of metal inhibition of antioxidant enzyme glutathione reductase from rainbow trout liver. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2013**, 28, 11-5	5.6	6
39	In vitro enzymatic response of Turkish native chicken "Gerze" to heavy metal exposure. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2013**, 28, 52-7	5.6	5
38	Heavy metal ion inhibition studies of human, sheep and fish carbonic anhydrases. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2013**, 28, 278-82	5.6	35
37	Carbonic anhydrase inhibitors: in vitro inhibition of isoforms (hCA I, hCA II, bCA III, hCA IV) by flavonoids. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2013**, 28, 283-8	5.6	94
36	Inhibition of mammalian carbonic anhydrase isoforms I, II and VI with thiamine and thiamine-like molecules. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2013**, 28, 316-9	5.6	13
35	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. *European Journal of Medicinal Chemistry*, **2012**, 49, 68-73	6.8	49
34	Synthesis and carbonic anhydrase inhibitory properties of novel cyclohexanonyl bromophenol derivatives. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 1352-7	2.9	35
33	Chromone containing sulfonamides as potent carbonic anhydrase inhibitors. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2012**, 27, 744-7	5.6	36
32	Inhibition of human carbonic anhydrase isozymes I, II and VI with a series of bisphenol, methoxy and bromophenol compounds. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2012**, 27, 467-75	5.6	32
31	Carbonic anhydrases are sulfatases with cyclic diol monosulfate esters. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2012**, 27, 148-54	5.6	63
30	Effects of dopaminergic compounds on carbonic anhydrase isozymes I, II, and VI. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2012**, 27, 365-9	5.6	27
29	The effects of chemical and radioactive properties of Tl-201 on human erythrocyte glutathione reductase activity. *Nuclear Medicine and Biology*, **2012**, 39, 161-5	2.1	3
28	Synthesis and carbonic anhydrase inhibitory properties of novel bromophenols and their derivatives including natural products: vidalol B. *European Journal of Medicinal Chemistry*, **2012**, 54, 423-8	6.8	48
27	Simple methanesulfonates are hydrolyzed by the sulfatase carbonic anhydrase activity. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2012**, 27, 880-5	5.6	50
26	Sulfapyridine-like benzenesulfonamide derivatives as inhibitors of carbonic anhydrase isoenzymes I, II and VI. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2012**, 27, 818-24	5.6	45
25	Carbonic anhydrase inhibitors: inhibition of human and bovine isoenzymes by benzenesulphonamides, cyclitols and phenolic compounds. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2012**, 27, 845-8	5.6	67
24	In vitro and in vivo effects of some benzodiazepine drugs on human and rabbit erythrocyte carbonic anhydrase enzymes. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2012**, 27, 680-4	5.6	10
23	Purification and characterization of carbonic anhydrase from the teleost fish Dicentrarchus labrax (European seabass) liver and toxicological effects of metals on enzyme activity. *Environmental Toxicology and Pharmacology*, **2011**, 32, 69-74	5.8	60

22	Salicylic acid derivatives: synthesis, features and usage as therapeutic tools. *Expert Opinion on Therapeutic Patents*, **2011**, 21, 1831-41	6.8	53
21	In Vitro inhibition of human carbonic anhydrase I and II isozymes with natural phenolic compounds. *Chemical Biology and Drug Design*, **2011**, 77, 494-9	2.9	154
20	Paraoxonase-1, an organophosphate detoxifier and cardioprotective enzyme, is inhibited by anesthetics: An in vitro and in vivo insight. *Pesticide Biochemistry and Physiology*, **2011**, 101, 206-211	4.9	15
19	Design, synthesis and biological evaluation of novel nitroaromatic compounds as potent glutathione reductase inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 5398-402	2.9	41
18	Characterization and anions inhibition studies of an □carbonic anhydrase from the teleost fish Dicentrarchus labrax. *Bioorganic and Medicinal Chemistry*, **2011**, 19, 744-8	3.4	55
17	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. *Bioorganic and Medicinal Chemistry*, **2011**, 19, 1381-9	3.4	89
16	In vitro inhibition of □carbonic anhydrase isozymes by some phenolic compounds. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 4259-62	2.9	158
15	An alternative purification method for human serum paraoxonase 1 and its interactions with sulfonamides. *Chemical Biology and Drug Design*, **2010**, 76, 552-8	2.9	42
14	The effects of chemical and radioactive properties of Tl-201 on human erythrocyte glucose 6-phosphate dehydrogenase activity. *Nuclear Medicine and Biology*, **2010**, 37, 389-94	2.1	7
13	NO-releasing esters show carbonic anhydrase inhibitory action against human isoforms I and II. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 3559-63	3.4	57
12	In vitro and in vivo effects of some pesticides on carbonic anhydrase enzyme from rainbow trout (Oncorhynchus mykiss) gills. *Pesticide Biochemistry and Physiology*, **2010**, 97, 177-181	4.9	39
11	Deltamethrin attenuates antioxidant defense system and induces the expression of heat shock protein 70 in rainbow trout. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2010**, 152, 215-23	3.2	46
10	A novel and one-pot synthesis of new 1-tosyl pyrrol-2-one derivatives and analysis of carbonic anhydrase inhibitory potencies. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 4468-74	3.4	61
9	In vitro and in vivo effects of some pesticides on glucose-6-phosphate dehydrogenase enzyme activity from rainbow trout (Oncorhynchus mykiss) erythrocytes. *Pesticide Biochemistry and Physiology*, **2009**, 95, 95-99	4.9	28
8	In vitro inhibition of human erythrocyte glutathione reductase by some new organic nitrates. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 3661-3	2.9	39
7	Carbonic anhydrase inhibitors. Inhibition of human erythrocyte isozymes I and II with a series of antioxidant phenols. *Bioorganic and Medicinal Chemistry*, **2009**, 17, 3207-11	3.4	194
6	Effects of some analgesic anaesthetic drugs on human erythrocyte glutathione reductase: an in vitro study. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2009**, 24, 420-4	5.6	22
5	Effects of some antibiotics on human erythrocyte glutathione reductase: an in vitro study. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2008**, 23, 144-8	5.6	25

4	Dantrolene inhibits human erythrocyte glutathione reductase. *Biological and Pharmaceutical Bulletin*, **2008**, 31, 2036-9	2.3	65
3	In vitro inhibition of salicylic acid derivatives on human cytosolic carbonic anhydrase isozymes I and II. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 9101-5	3.4	142
2	Purification and characterization of glutathione reductase from rainbow trout (Oncorhynchus mykiss) liver and inhibition effects of metal ions on enzyme activity. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2008**, 148, 117-21	3.2	16
1	Effects of some metal ions on human erythrocyte glutathione reductase: an in vitro study. *Protein and Peptide Letters*, **2007**, 14, 1027-30	1.9	28