Atilla Akdemir

List of Publications by Year
in descending order

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Version: 2024-02-01

51	1,363	377584	388640
papers	citations	21 h-index	36 g-index

53	53	53	1773
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The neutralization effect of montelukast on SARS-CoV-2 is shown by multiscale in silico simulations and combined inÂvitro studies. Molecular Therapy, 2022, 30, 963-974.	3.7	21
2	New Pyridinium Salt Derivatives of 2-(Hydrazinocarbonyl)-3-phenyl-1H-indole-5- sulfonamide as Selective Inhibitors of Tumour-Related Human Carbonic Anhydrase Isoforms IX and XII. Anti-Cancer Agents in Medicinal Chemistry, 2022, 22, 2637-2646.	0.9	6
3	Synthesis, antiâ€TB activities, and molecular docking studies of 4â€(1,2,3â€triazoyl)arylmethanone derivatives. Journal of Biochemical and Molecular Toxicology, 2022, 36, e22998.	1.4	2
4	Mandelic acid-based spirothiazolidinones targeting M. tuberculosis: Synthesis, in vitro and in silico investigations. Bioorganic Chemistry, 2022, 121, 105688.	2.0	6
5	New 1Hâ€indoleâ€2,3â€dione 3â€thiosemicarbazones with 3â€sulfamoylphenyl moiety as selective carbonic anhydrase inhibitors. Archiv Der Pharmazie, 2022, 355, e2200023.	2.1	3
6	New azolyl-derivatives as multitargeting agents against breast cancer and fungal infections: synthesis, biological evaluation and docking study. Journal of Enzyme Inhibition and Medicinal Chemistry, 2021, 36, 1631-1644.	2.5	9
7	Synthesis of new 1,2,4â€triazoleâ€“(thio)semicarbazide hybrid molecules: Their tyrosinase inhibitor activities and molecular docking analysis. Archiv Der Pharmazie, 2021, 354, e2100058.	2.1	7
8	Quinoline-sulfamoyl carbamates/sulfamide derivatives: Synthesis, cytotoxicity, carbonic anhydrase activity, and molecular modelling studies. Bioorganic Chemistry, 2021, 110, 104778.	2.0	6
9	Synthesis and biological evaluation of new chloro/acetoxy substituted isoindole analogues as new tyrosine kinase inhibitors. Bioorganic Chemistry, 2020, 94, 103421.	2.0	12
10	racâ€and mesoâ€Cyclohexanoids: Their Î±â€, Î²â€glycosidases, antibacterial, antifungal activities, and molecular docking studies. Archiv Der Pharmazie, 2020, 353, e1900267.	2.1	3
11	Carbonic Anhydrase Inhibitors Targeting Metabolism and Tumor Microenvironment. Metabolites, 2020, 10, 412.	1.3	116
12	Novel Indole-Based Hydrazones as Potent Inhibitors of the Î±-class Carbonic Anhydrase from Pathogenic Bacterium Vibrio cholerae. International Journal of Molecular Sciences, 2020, 21, 3131.	1.8	3
13	Development of Thiazolidinones as Fungal Carbonic Anhydrase Inhibitors. International Journal of Molecular Sciences, 2020, 21, 2960.	1.8	15
14	Anticholinesterase and Antioxidant Activities of Natural Abietane Diterpenoids with Molecular Docking Studies. Current Alzheimer Research, 2020, 17, 269-284.	0.7	8
15	The Synthesis, Anticancer Activity, Structure-Activity Relationships and Molecular Modelling Studies of Novel Isoindole-1,3(2H)-dione Compounds Containing Different Functional Groups. Anti-Cancer Agents in Medicinal Chemistry, 2020, 20, 1368-1378.	0.9	8
16	Aromatase inhibition by 2-methyl indole hydrazone derivatives evaluated via molecular docking and in vitro activity studies. Xenobiotica, 2019, 49, 549-556.	0.5	16
17	Design, synthesis and biological activity of selective hCAs inhibitors based on 2-(benzylsulfinyl)benzoic acid scaffold. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1400-1413.	2.5	24
18	Synthesis of coumarin-sulfonamide derivatives and determination of their cytotoxicity, carbonic anhydrase inhibitory and molecular docking studies. European Journal of Medicinal Chemistry, 2019, 183, 111702.	2.6	59

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19	Indole-Based Hydrazones Containing A Sulfonamide Moiety as Selective Inhibitors of Tumor-Associated Human Carbonic Anhydrase Isoforms IX and XII. International Journal of Molecular Sciences, 2019, 20, 2354.	1.8	22
20	Fibrate-basedN-acylsulphonamides targeting carbonic anhydrases: synthesis, biochemical evaluation, and docking studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1051-1061.	2.5	13
21	Novel 2-indolinones containing a sulfonamide moiety as selective inhibitors of candida Î²-carbonic anhydrase enzyme. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 528-531.	2.5	13
22	Novel thiazolidinone-containing compounds, without the well-known sulphonamide zinc-binding group acting as human carbonic anhydrase IX inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1299-1308.	2.5	19
23	A Study On Synthesis, Biological Activities and Molecular Modelling of Some Novel Trisubstituted 1,2,4â€Triazole Derivatives. ChemistrySelect, 2018, 3, 8813-8818.	0.7	11
24	Novel sulfonamide-containing 2-indolinones that selectively inhibit tumor-associated alpha carbonic anhydrases. Bioorganic and Medicinal Chemistry, 2017, 25, 3714-3718.	1.4	25
25	Synthesis and Functional Investigations of Computer Designed Novel Cladribineâ€Like Compounds for the Treatment of Multiple Sclerosis. Archiv Der Pharmazie, 2017, 350, 1700185.	2.1	5
26	Computer design, synthesis, and bioactivity analyses of drugs like fingolimod used in the treatment of multiple sclerosis. Bioorganic and Medicinal Chemistry, 2017, 25, 483-495.	1.4	8
27	Open saccharin-based secondary sulfonamides as potent and selective inhibitors of cancer-related carbonic anhydrase IX and XII isoforms. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 51-59.	2.5	46
28	Five- and Six-Membered Nitrogen-Containing Compounds as Selective Carbonic Anhydrase Activators. Molecules, 2017, 22, 2178.	1.7	17
29	Target Recognition Molecules and Molecular Modeling Studies. Current Topics in Medicinal Chemistry, 2017, 17, 1580-1587.	1.0	2
30	A Divalent PAMAMâ€Based Matrix Metalloproteinase/Carbonic Anhydrase Inhibitor for the Treatment of Dry Eye Syndrome. Chemistry - A European Journal, 2016, 22, 1714-1721.	1.7	17
31	A novel library of saccharin and acesulfame derivatives as potent and selective inhibitors of carbonic anhydrase IX and XII isoforms. Bioorganic and Medicinal Chemistry, 2016, 24, 1095-1105.	1.4	55
32	Anti-Candida activity and cytotoxicity of a large library of new N-substituted-1,3-thiazolidin-4-one derivatives. European Journal of Medicinal Chemistry, 2016, 107, 82-96.	2.6	49
33	Isatin analogs as novel inhibitors of Candida spp. Î²-carbonic anhydrase enzymes. Bioorganic and Medicinal Chemistry, 2016, 24, 1648-1652.	1.4	23
34	The Structure, Physiological Role, and Potential Medicinal Applications of Carbonic Anhydrase V. , 2015, , 125-138.		2
35	Computational investigation of the selectivity of salen and tetrahydrosalen compounds towards the tumor-associated hCA XII isozyme. Journal of Enzyme Inhibition and Medicinal Chemistry, 2015, 30, 114-118.	2.5	40
36	Synthesis of a new series of dithiocarbamates with effective human carbonic anhydrase inhibitory activity and antiglaucoma action. Bioorganic and Medicinal Chemistry, 2015, 23, 2368-2376.	1.4	40

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37	Discovery of novel isatin-based sulfonamides with potent and selective inhibition of the tumor-associated carbonic anhydrase isoforms IX and XII. Organic and Biomolecular Chemistry, 2015, 13, 6493-6499.	1.5	55
38	New amide derivatives of Probenecid as selective inhibitors of carbonic anhydrase IX and XII: Biological evaluation and molecular modelling studies. Bioorganic and Medicinal Chemistry, 2015, 23, 2975-2981.	1.4	32
39	Exploring new Probenecid-based carbonic anhydrase inhibitors: Synthesis, biological evaluation and docking studies. Bioorganic and Medicinal Chemistry, 2015, 23, 5311-5318.	1.4	45
40	Selective inhibition of human carbonic anhydrases by novel amide derivatives of probenecid: Synthesis, biological evaluation and molecular modelling studies. Bioorganic and Medicinal Chemistry, 2014, 22, 3982-3988.	1.4	38
41	A Class of Sulfonamides with Strong Inhibitory Action against the Î±-Carbonic Anhydrase from Trypanosoma cruzi. Journal of Medicinal Chemistry, 2013, 56, 5773-5781.	2.9	56
42	The extremo-Î±-carbonic anhydrase (CA) from Sulfurihydrogenibium azorense, the fastest CA known, is highly activated by amino acids and amines. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 1087-1090.	1.0	55
43	o-Benzenedisulfonimidoâ€“sulfonamides are potent inhibitors of the tumor-associated carbonic anhydrase isoforms CA IX and CA XII. Bioorganic and Medicinal Chemistry, 2013, 21, 1386-1391.	1.4	20
44	Inhibition of tumor-associated human carbonic anhydrase isozymes IX and XII by a new class of substituted-phenylacetamido aromatic sulfonamides. Bioorganic and Medicinal Chemistry, 2013, 21, 5228-5232.	1.4	20
45	Xanthates and Trithiocarbonates Strongly Inhibit Carbonic Anhydrases and Show Antiglaucoma Effects in Vivo. Journal of Medicinal Chemistry, 2013, 56, 4691-4700.	2.9	91
46	Identification of novel Î±7 nicotinic receptor ligands by in silico screening against the crystal structure of a chimeric Î±7 receptor ligand binding domain. Bioorganic and Medicinal Chemistry, 2012, 20, 5992-6002.	1.4	11
47	Structure-based design, synthesis and structureâ€“activity relationships of dibenzosuberyl- and benzoate-substituted tropines as ligands for acetylcholine-binding protein. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 1448-1454.	1.0	3
48	Fragment Growing Induces Conformational Changes in Acetylcholine-Binding Protein: A Structural and Thermodynamic Analysis. Journal of the American Chemical Society, 2011, 133, 5363-5371.	6.6	72
49	Acetylcholine binding protein (AChBP) as template for hierarchical in silico screening procedures to identify structurally novel ligands for the nicotinic receptors. Bioorganic and Medicinal Chemistry, 2011, 19, 6107-6119.	1.4	29
50	Use of Acetylcholine Binding Protein in the Search for Novel Î±7 Nicotinic Receptor Ligands. In Silico Docking, Pharmacological Screening, and X-ray Analysis. Journal of Medicinal Chemistry, 2009, 52, 2372-2383.	2.9	78
51	A Gq/11-coupled Mutant Histamine H1 Receptor F435A Activated Solely by Synthetic Ligands (RASSL). Journal of Biological Chemistry, 2005, 280, 34741-34746.	1.6	27