Clemente Capasso

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

1,363 papers	71,124 citations	126 h-index	197 g-index
1,403 ext. papers	77,848 ext. citations	5.2 avg, IF	8.87 L-index

#	Paper	IF	Citations
1363	Discovery of 2,4-thiazolidinedione-tethered coumarins as novel selective inhibitors for carbonic anhydrase IX and XII isoforms.. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 531-541	5.6	8
1362	Coumarins effectively inhibit bacterial β-carbonic anhydrases.. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 333-338	5.6	6
1361	2-(2-Hydroxyethyl)piperazine derivatives as potent human carbonic anhydrase inhibitors: Synthesis, enzyme inhibition, computational studies and antiglaucoma activity.. *European Journal of Medicinal Chemistry*, **2022**, 228, 114026	6.8	
1360	The Role of Selenium in Pathologies: An Updated Review.. *Antioxidants*, **2022**, 11,	7.1	14
1359	Chagas Disease: Drug Development and Parasite Targets. *Topics in Medicinal Chemistry*, **2022**, 1	0.4	3
1358	Discovery of new carbonic anhydrase IX inhibitors as anticancer agents by toning the hydrophobic and hydrophilic rims of the active site to encounter the dual-tail approach.. *European Journal of Medicinal Chemistry*, **2022**, 232, 114190	6.8	7
1357	Inhibition studies of bacterial β-carbonic anhydrases with phenols.. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 666-671	5.6	3
1356	Coumarins inhibit β-class carbonic anhydrase from .. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 680-685	5.6	1
1355	Repurposing FDA-approved sulphonamide carbonic anhydrase inhibitors for treatment of .. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 51-61	5.6	6
1354	2-Aminobenzoxazole-appended coumarins as potent and selective inhibitors of tumour-associated carbonic anhydrases.. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 168-177	5.6	3
1353	Antiproliferative effects of sulphonamide carbonic anhydrase inhibitors C18, SLC-0111 and acetazolamide on bladder, glioblastoma and pancreatic cancer cell lines.. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 280-286	5.6	9
1352	Synthesis, molecular modelling and QSAR study of new phenylacetamide-2-oxoindole benzensulfonamide conjugates as carbonic anhydrase inhibitors with antiproliferative activity.. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 701-717	5.6	2
1351	Isocoumarins: a new class of selective carbonic anhydrase IX and XII inhibitors.. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 743-748	5.6	5
1350	Inhibition of Schistosoma mansoni carbonic anhydrase by the antiparasitic drug clorsulon: X-ray crystallographic and in vitro studies.. *Acta Crystallographica Section D: Structural Biology*, **2022**, 78, 321-327	5.5	3
1349	Diversely substituted sulfamides for fragment-based drug discovery of carbonic anhydrase inhibitors: synthesis and inhibitory profile.. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 857-865	5.6	
1348	Biological investigation of -methyl thiosemicarbazones as antimicrobial agents and bacterial carbonic anhydrases inhibitors.. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 986-993	5.6	1
1347	5-(Sulfamoyl)thien-2-yl 1,3-oxazole inhibitors of carbonic anhydrase II with hydrophilic periphery.. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 1005-1011	5.6	1

1346	Perspectives on the design and discovery of α-ketoamide inhibitors for the treatment of novel coronavirus: where do we stand and where do we go?. *Expert Opinion on Drug Discovery*, **2022**, 1-11	6.2	1
1345	The three-tails approach as a new strategy to improve selectivity of action of sulphonamide inhibitors against tumour-associated carbonic anhydrase IX and XII.. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 930-939	5.6	6
1344	Perfusion-Based Bioreactor Culture and Isothermal Microcalorimetry for Preclinical Drug Testing with the Carbonic Anhydrase Inhibitor SLC-0111 in Patient-Derived Neuroblastoma.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	3
1343	4-Anilinoquinazoline-based benzenesulfonamides as nanomolar inhibitors of carbonic anhydrase isoforms I, II, IX, and XII: design, synthesis, , and biological studies.. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 994-1004	5.6	5
1342	Exploration of 2-phenylquinoline-4-carboxamide linked benzene sulfonamide derivatives as isoform selective inhibitors of transmembrane human carbonic anhydrases.. *European Journal of Medicinal Chemistry*, **2022**, 234, 114247	6.8	1
1341	Benzoselenoates: A novel class of carbonic anhydrase inhibitors.. *Bioorganic Chemistry*, **2022**, 122, 105754	5.1	0
1340	Tail-approach based design and synthesis of Arylthiazolylhydrazono-1,2,3-triazoles incorporating sulfanilamide and metanilamide as human carbonic anhydrase I, II, IV and IX inhibitors.. *Bioorganic Chemistry*, **2022**, 123, 105764	5.1	1
1339	Heterobimetallic complexes containing organometallic acylhydrazone ligands as potential inhibitors of human carbonic anhydrases.. *Journal of Inorganic Biochemistry*, **2022**, 232, 111814	4.2	0
1338	Dithiocarbamates effectively inhibit the β-carbonic anhydrase from .. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 1-8	5.6	2
1337	Heterologous expression and biochemical characterisation of the recombinant β-carbonic anhydrase (MpaCA) from the warm-blooded vertebrate pathogen .. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 62-68	5.6	2
1336	Novel 3-(6-methylpyridin-2-yl)coumarin-based chalcones as selective inhibitors of cancer-related carbonic anhydrases IX and XII endowed with anti-proliferative activity.. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 1043-1052	5.6	5
1335	New 1H-indole-2,3-dione 3-thiosemicarbazones with 3-sulfamoylphenyl moiety as selective carbonic anhydrase inhibitors.. *Archiv Der Pharmazie*, **2022**, e2200023	4.3	0
1334	The inhibitory effect of boric acid on hypoxia-regulated tumour-associated carbonic anhydrase IX.. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 1340-1345	5.6	2
1333	4-(3-Alkyl/benzyl-guanidino)benzenesulfonamides as selective carbonic anhydrase VII inhibitors. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 1568-1576	5.6	7
1332	Cloning, purification, kinetic and anion inhibition studies of a recombinant β-carbonic anhydrase from the Atlantic salmon parasite platyhelminth Gyrodactylus salaris. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 1577-1586	5.6	4
1331	Selective inhibition of carbonic anhydrase IX by sulphonylated 1,2,3-triazole incorporated benzenesulphonamides capable of inducing apoptosis. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 1454-1463	5.6	2
1330	Development of Praziquantel sulphonamide derivatives as antischistosomal drugs. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 1479-1494	5.6	1
1329	A decade of tail-approach based design of selective as well as potent tumor associated carbonic anhydrase inhibitors. *Bioorganic Chemistry*, **2022**, 126, 105920	5.1	5

1328	Insights into the effect of elaborating coumarin-based aryl enaminones with sulfonamide or carboxylic acid functionality on carbonic anhydrase inhibitory potency and selectivity. *Bioorganic Chemistry*, **2022**, 126, 105888	5.1	3
1327	Beta-Carbonic Anhydrase 1 from Trichomonas Vaginalis as New Antiprotozoan Drug Target. *Topics in Medicinal Chemistry*, **2021**, 1	0.4	
1326	Class Carbonic Anhydrases as Antiplasmodial Drug Targets: Current State of the Art and Hurdles to Develop New Antimalarials. *Topics in Medicinal Chemistry*, **2021**, 1	0.4	
1325	Targeting Carbonic Anhydrases from Trypanosoma cruzi and Leishmania spp. as a Therapeutic Strategy to Obtain New Antiprotozoal Drugs. *Topics in Medicinal Chemistry*, **2021**, 1	0.4	1
1324	Post-translational modifications in tumor-associated carbonic anhydrases. *Amino Acids*, **2021**,	3.5	5
1323	Amine- and Amino Acid-Based Compounds as Carbonic Anhydrase Activators. *Molecules*, **2021**, 26,	4.8	5
1322	Carbonic anhydrase inhibitors: an update on experimental agents for the treatment and imaging of hypoxic tumors. *Expert Opinion on Investigational Drugs*, **2021**,	5.9	21
1321	Natural inspired ligustrazine-based SLC-0111 analogues as novel carbonic anhydrase inhibitors. *European Journal of Medicinal Chemistry*, **2021**, 228, 114008	6.8	4
1320	Application of the dual-tail approach for the design and synthesis of novel Thiopyrimidine-Benzenesulfonamide hybrids as selective carbonic anhydrase inhibitors. *European Journal of Medicinal Chemistry*, **2021**, 228, 114004	6.8	3
1319	Carbonic Anhydrase Inhibition with Sulfonamides Incorporating Pyrazole- and Pyridazinecarboxamide Moieties Provides Examples of Isoform-Selective Inhibitors. *Molecules*, **2021**, 26,	4.8	1
1318	Glyco-Coated CdSe/ZnS Quantum Dots as Nanoprobes for Carbonic Anhydrase IX Imaging in Cancer Cells.. *ACS Applied Nano Materials*, **2021**, 4, 14153-14160	5.6	2
1317	Synthesis and Applications of Organic Selenols. *Advanced Synthesis and Catalysis*, **2021**, 363, 5360	5.6	6
1316	Synthesis, biological evaluation, and in silico studies of potential activators of apoptosis and carbonic anhydrase inhibitors on isatin-5-sulfonamide scaffold.. *European Journal of Medicinal Chemistry*, **2021**, 228, 113997	6.8	3
1315	Microbiota, Bacterial Carbonic Anhydrases, and Modulators of Their Activity: Links to Human Diseases?. *Mediators of Inflammation*, **2021**, 2021, 6926082	4.3	5
1314	Carbonic Anhydrase Inhibitors: Designing Isozyme-Specific Inhibitors as Therapeutic Agents. *Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques*, **2021**, 221-235		
1313	Vanillin enones as selective inhibitors of the cancer associated carbonic anhydrase isoforms IX and XII. The out of the active site pocket for the design of selective inhibitors?. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 2118-2127	5.6	
1312	Biochemical and structural characterization of beta-carbonic anhydrase from the parasite Trichomonas vaginalis. *Journal of Molecular Medicine*, **2021**, 1	5.5	1
1311	Design and development of novel series of indole-3-sulfonamide ureido derivatives as selective carbonic anhydrase II inhibitors. *Archiv Der Pharmazie*, **2021**, e2100333	4.3	1

1310	Novel benzenesulfonamide-bearing pyrazoles and 1,2,4-thiadiazoles as selective carbonic anhydrase inhibitors. *Archiv Der Pharmazie*, **2021**, e2100241	4.3	1
1309	Development of Novel Quinoline-Based Sulfonamides as Selective Cancer-Associated Carbonic Anhydrase Isoform IX Inhibitors. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	10
1308	Selective Inhibition of Carbonic Anhydrases by Carvacrol and Thymol Could Impair Biofilm Production and the Release of Outer Membrane Vesicles. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	10
1307	Inhibition of the β-carbonic anhydrase from the protozoan pathogen with sulphonamides. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 329-334	5.6	3
1306	Discovery of a novel series of indolylchalcone-benzenesulfonamide hybrids acting as selective carbonic anhydrase II inhibitors. *Bioorganic Chemistry*, **2021**, 108, 104647	5.1	8
1305	Multitargeting application of proline-derived peptidomimetics addressing cancer-related human matrix metalloproteinase 9 and carbonic anhydrase II. *European Journal of Medicinal Chemistry*, **2021**, 214, 113260	6.8	2
1304	Structure-Activity Relationship Studies of Acetazolamide-Based Carbonic Anhydrase Inhibitors with Activity against. *ACS Infectious Diseases*, **2021**, 7, 1969-1984	5.5	23
1303	Discovery of Potent Carbonic Anhydrase Inhibitors as Effective Anticonvulsant Agents: Drug Design, Synthesis, and In Vitro and In Vivo Investigations. *Journal of Medicinal Chemistry*, **2021**, 64, 3100-3114	8.3	10
1302	Coronaviruses. *Expert Opinion on Therapeutic Patents*, **2021**, 31, 291-294	6.8	4
1301	Development of novel benzofuran-based SLC-0111 analogs as selective cancer-associated carbonic anhydrase isoform IX inhibitors. *European Journal of Medicinal Chemistry*, **2021**, 216, 113283	6.8	20
1300	Benzyl alcohol inhibits carbonic anhydrases by anchoring to the zinc coordinated water molecule. *Biochemical and Biophysical Research Communications*, **2021**, 548, 217-221	3.4	4
1299	Synthesis and Biological Evaluation of Coumarin-Linked 4-Anilinomethyl-1,2,3-Triazoles as Potent Inhibitors of Carbonic Anhydrases IX and XIII Involved in Tumorigenesis. *Metabolites*, **2021**, 11,	5.6	2
1298	A Highlight on the Inhibition of Fungal Carbonic Anhydrases as Drug Targets for the Antifungal Armamentarium. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	5
1297	Role of Carbonic Anhydrase in Cerebral Ischemia and Carbonic Anhydrase Inhibitors as Putative Protective Agents. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
1296	Advances in the discovery of novel agents for the treatment of glaucoma. *Expert Opinion on Drug Discovery*, **2021**, 16, 1209-1225	6.2	8
1295	Emerging role of carbonic anhydrase inhibitors. *Clinical Science*, **2021**, 135, 1233-1249	6.5	41
1294	Chromene-Containing Aromatic Sulfonamides with Carbonic Anhydrase Inhibitory Properties. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
1293	Synthesis of Azasugar-Sulfonamide conjugates and their Evaluation as Inhibitors of Carbonic Anhydrases: the Azasugar Approach to Selectivity. *European Journal of Organic Chemistry*, **2021**, 2021, 2604-2614	3.2	1

1292	Small-molecule CD73 inhibitors for the immunotherapy of cancer: a patent and literature review (2017-present). *Expert Opinion on Therapeutic Patents*, **2021**, 31, 867-876	6.8	4
1291	Comprehensive study on potent and selective carbonic anhydrase inhibitors: Synthesis, bioactivities and molecular modelling studies of 4-(3-(2-arylidenehydrazine-1-carbonyl)-5-(thiophen-2-yl)-1H-pyrazole-1-yl) benzenesulfonamides. *European Journal of Medicinal Chemistry*, **2021**, 217, 113351	6.8	13
1290	Quinoline-sulfamoyl carbamates/sulfamide derivatives: Synthesis, cytotoxicity, carbonic anhydrase activity, and molecular modelling studies. *Bioorganic Chemistry*, **2021**, 110, 104778	5.1	6
1289	Inhibition of Carbonic Anhydrase IX Promotes Apoptosis through Intracellular pH Level Alterations in Cervical Cancer Cells. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	6
1288	Identification of N-phenyl-2-(phenylsulfonyl)acetamides/propanamides as new SLC-0111 analogues: Synthesis and evaluation of the carbonic anhydrase inhibitory activities. *European Journal of Medicinal Chemistry*, **2021**, 218, 113360	6.8	13
1287	Insertion of metal carbenes into the anilinic N-H bond of unprotected aminobenzenesulfonamides delivers low nanomolar inhibitors of human carbonic anhydrase IX and XII isoforms. *European Journal of Medicinal Chemistry*, **2021**, 218, 113352	6.8	3
1286	Taurultams incorporating arylsulfonamide: First in vitro inhibition studies of β and ζ class Carbonic Anhydrases from Vibrio cholerae and Burkholderia pseudomallei. *European Journal of Medicinal Chemistry*, **2021**, 219, 113444	6.8	2
1285	Synthesis and Human Carbonic Anhydrase I, II, IX, and XII Inhibition Studies of Sulphonamides Incorporating Mono-, Bi- and Tricyclic Imide Moieties. *Pharmaceuticals*, **2021**, 14,	5.2	1
1284	Structural Insights into Carbonic Anhydrase (SmCA) Inhibition by Selenoureido-Substituted Benzenesulfonamides. *Journal of Medicinal Chemistry*, **2021**, 64, 10418-10428	8.3	3
1283	Novel 3-substituted coumarins as selective human carbonic anhydrase IX and XII inhibitors: Synthesis, biological and molecular dynamics analysis. *European Journal of Medicinal Chemistry*, **2021**, 209, 112897	6.8	19
1282	Ninhydrins inhibit carbonic anhydrases directly binding to the metal ion. *European Journal of Medicinal Chemistry*, **2021**, 209, 112875	6.8	11
1281	Radiotracers for positron emission tomography (PET) targeting tumour-associated carbonic anhydrase isoforms. *European Journal of Medicinal Chemistry*, **2021**, 213, 113046	6.8	6
1280	Protease inhibitors targeting the main protease and papain-like protease of coronaviruses. *Expert Opinion on Therapeutic Patents*, **2021**, 31, 309-324	6.8	13
1279	Activation of carbonic anhydrases from human brain by amino alcohol oxime ethers: towards human carbonic anhydrase VII selective activators. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 48-57	5.6	5
1278	Activation of the β carbonic anhydrase from the protozoan pathogen with amines and amino acids. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 758-763	5.6	3
1277	Anion inhibition studies of the β carbonic anhydrases from. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 1061-1066	5.6	6
1276	PEG Linker Length Strongly Affects Tumor Cell Killing by PEGylated Carbonic Anhydrase Inhibitors in Hypoxic Carcinomas Expressing Carbonic Anhydrase IX. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
1275	Anti-breast cancer action of carbonic anhydrase IX inhibitor 4-[4-(4-Benzo[1,3]dioxol-5-ylmethyl-piperazin-1-yl)-benzylidene-hydrazinocarbonyl]-benzenesulfonamide (BSM-0004): and studies. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 954-963	5.6	4

1274	Zeta-carbonic anhydrases show CS hydrolase activity: A new metabolic carbon acquisition pathway in diatoms?. *Computational and Structural Biotechnology Journal*, **2021**, 19, 3427-3436	6.8	4
1273	Biochemical profiling of anti-HIV prodrug Elsulfavirine (Elpida) and its active form VM1500A against a panel of twelve human carbonic anhydrase isoforms. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 1056-1060	5.6	1
1272	Anion inhibition studies of the Zn(II)-bound -carbonic anhydrase from the Gram-negative bacterium. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 372-376	5.6	13
1271	A Story on Carbon Dioxide and Its Hydration **2021**, 115-131		
1270	Effect of Sulfonamides and Their Structurally Related Derivatives on the Activity of -Carbonic Anhydrase from. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	10
1269	Tetrahydroquinazole-based secondary sulphonamides as carbonic anhydrase inhibitors: synthesis, biological evaluation against isoforms I, II, IV, and IX, and computational studies. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 1874-1883	5.6	2
1268	Multitargeting approaches involving carbonic anhydrase inhibitors: hybrid drugs against a variety of disorders. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 1702-1714	5.6	14
1267	Effect of amino acids and amines on the activity of the recombinant -carbonic anhydrase from the Gram-negative bacterium. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 1000-1006	5.6	3
1266	An anion and small molecule inhibition study of the -carbonic anhydrase from. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 1088-1092	5.6	5
1265	Is carbonic anhydrase inhibition useful as a complementary therapy of Covid-19 infection?. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 1230-1235	5.6	9
1264	Handling drug-target selectivity: A study on ureido containing Carbonic Anhydrase inhibitors. *European Journal of Medicinal Chemistry*, **2021**, 212, 113035	6.8	8
1263	Phenols from L. and L. and their activity against carbonic anhydrase. *Natural Product Research*, **2021** , 1-7	2.3	7
1262	Design and synthesis of benzenesulfonamide-linked imidazo[2,1-b][1,3,4]thiadiazole derivatives as carbonic anhydrase I and II inhibitors. *Archiv Der Pharmazie*, **2021**, 354, e2100028	4.3	2
1261	Carbonic Anhydrases: New Perspectives on Protein Functional Role and Inhibition in. *Frontiers in Microbiology*, **2021**, 12, 629163	5.7	18
1260	Synthesis of new 7-amino-3,4-dihydroquinolin-2(1H)-one-peptide derivatives and their carbonic anhydrase enzyme inhibition, antioxidant, and cytotoxic activities. *Archiv Der Pharmazie*, **2021**, 354, e2100122	4.3	2
1259	Design, synthesis and biochemical evaluation of novel carbonic anhydrase inhibitors triggered by structural knowledge on hCA VII. *Bioorganic and Medicinal Chemistry*, **2021**, 44, 116279	3.4	0
1258	Modulating the Efficacy of Carbonic Anhydrase Inhibitors through Fluorine Substitution. *Angewandte Chemie - International Edition*, **2021**, 60, 23068-23082	16.4	4
1257	New Sulfanilamide Derivatives Incorporating Heterocyclic Carboxamide Moieties as Carbonic Anhydrase Inhibitors. *Pharmaceuticals*, **2021**, 14,	5.2	3

1256	Genome-wide synthetic lethal screen unveils novel CAIX-NFS1/xCT axis as a targetable vulnerability in hypoxic solid tumors. *Science Advances*, **2021**, 7,	14.3	29
1255	Quantum mechanical study on the activation mechanism of human carbonic anhydrase VII cluster model with bis-histamine schiff bases and bis-spinaceamine derivatives. *Bioorganic and Medicinal Chemistry*, **2021**, 44, 116276	3.4	3
1254	Binding site comparison for coumarin inhibitors and amine/amino acid activators of human carbonic anhydrases. *European Journal of Medicinal Chemistry*, **2021**, 226, 113875	6.8	7
1253	Determination of intracellular protein-ligand binding affinity by competition binding in-cell NMR. *Acta Crystallographica Section D: Structural Biology*, **2021**, 77, 1270-1281	5.5	4
1252	Synthesis, Crystal Structure, Inhibitory Activity and Molecular Docking of Coumarins/Sulfonamides Containing Triazolyl Pyridine Moiety as Potent Selective Carbonic Anhydrase IX and XII Inhibitors. *Crystals*, **2021**, 11, 1076	2.3	4
1251	Novel triazole-sulfonamide bearing pyrimidine moieties with carbonic anhydrase inhibitory action: Design, synthesis, computational and enzyme inhibition studies. *Bioorganic and Medicinal Chemistry Letters*, **2021**, 48, 128249	2.9	7
1250	Carbonic Anhydrase IV Selective Inhibitors Counteract the Development of Colitis-Associated Visceral Pain in Rats. *Cells*, **2021**, 10,	7.9	1
1249	QM and QM/MM study on inhibition mechanism of polyphenolic compounds as non-classical inhibitors of human carbonic anhydrase (II). *Theoretical Chemistry Accounts*, **2021**, 140, 1	1.9	0
1248	Deciphering the key heterocyclic scaffolds in targeting microtubules, kinases and carbonic anhydrases for cancer drug development. *Pharmacology & Therapeutics*, **2021**, 225, 107860	13.9	9
1247	Novel benzenesulfonamides aryl and arylsulfone conjugates adopting tail/dual tail approaches: Synthesis, carbonic anhydrase inhibitory activity and molecular modeling studies. *European Journal of Medicinal Chemistry*, **2021**, 221, 113486	6.8	11
1246	Bacterial carbonic anhydrases: underexploited antibacterial therapeutic targets. *Future Medicinal Chemistry*, **2021**, 13, 1619-1622	4.1	5
1245	Investigation of 3-sulfamoyl coumarins against cancer-related IX and XII isoforms of human carbonic anhydrase as well as cancer cells leads to the discovery of 2-oxo-2H-benzo[h]chromene-3-sulfonamide - A new caspase-activating proapoptotic agent.	6.8	10
1244	Exploring of tumor-associated carbonic anhydrase isoenzyme IX and XII inhibitory effects and cytotoxicities of the novel N-aryl-1-(4-sulfamoylphenyl)-5-(thiophen-2-yl)-1H-pyrazole-3-carboxamides. *Bioorganic Chemistry*, **2021**, 115, 105194	5.1	6
1243	Natural inspired piperine-based sulfonamides and carboxylic acids as carbonic anhydrase inhibitors: Design, synthesis and biological evaluation. *European Journal of Medicinal Chemistry*, **2021**, 225, 113800	6.8	6
1242	Evaluating the efficiency of enzyme accelerated CO capture: chemical kinetics modelling for interpreting measurement results. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 394-401	5.6	2
1241	Selective inhibition of carbonic anhydrase IX and XII by coumarin and psoralen derivatives. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 685-692	5.6	8
1240	Inhibition of and carbonic anhydrases from the pathogenic bacterium with aromatic sulphonamides and clinically licenced drugs - a joint docking/molecular dynamics study. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 469-479	5.6	7
1239	Natural products in drug discovery: advances and opportunities. *Nature Reviews Drug Discovery*, **2021**, 20, 200-216	64.1	522

1238	Activation of carbonic anhydrase isoforms involved in modulation of emotional memory and cognitive disorders with histamine agonists, antagonists and derivatives. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 719-726	5.6	8
1237	Protective effects of carbonic anhydrase inhibition in brain ischaemia and models. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 964-976	5.6	4
1236	An overview on the recently discovered iota-carbonic anhydrases. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 1988-1995	5.6	17
1235	Reconsidering anion inhibitors in the general context of drug design studies of modulators of activity of the classical enzyme carbonic anhydrase. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 561-580	5.6	51
1234	Challenges and Promises for Obtaining New Antiprotozoal Drugs: What Going Wrong?. *Topics in Medicinal Chemistry*, **2021**, 1	0.4	2
1233	Aromatic Sulfonamides including a Sulfonic Acid Tail: New Membrane Impermeant Carbonic Anhydrase Inhibitors for Targeting Selectively the Cancer-Associated Isoforms.. *International Journal of Molecular Sciences*, **2021**, 23,	6.3	4
1232	Novel 1,3,5-Triazinyl Aminobenzenesulfonamides Incorporating Aminoalcohol, Aminochalcone and Aminostilbene Structural Motifs as Potent Anti-VRE Agents, and Carbonic Anhydrases I, II, VII, IX, and XII Inhibitors.. *International Journal of Molecular Sciences*, **2021**, 23,	6.3	3
1231	One-Pot Procedure for the Synthesis of Asymmetric Substituted Ureido Benzene Sulfonamides as Effective Inhibitors of Carbonic Anhydrase Enzymes.. *Journal of Medicinal Chemistry*, **2021**,	8.3	1
1230	Ureidosulfocoumarin Derivatives As Selective and Potent Carbonic Anhydrase IX and XII Inhibitors.. *ChemMedChem*, **2021**, e202100725	3.7	1
1229	Carbonic Anhydrases: Versatile and Useful Biocatalysts in Chemistry and Biochemistry. *Catalysts*, **2020**, 10, 1008	4	13
1228	Bacterial carbonic anhydrase: a new active class of carbonic anhydrase identified in the genome of the Gram-negative bacterium. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2020**, 35, 1060-1068	5.6	54
1227	Use of an immobilised thermostable -CA (SspCA) for enhancing the metabolic efficiency of the freshwater green microalga. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2020**, 35, 913-920	5.6	8
1226	The Carbonic Anhydrase IX inhibitor SLC-0111 as emerging agent against the mesenchymal stem cell-derived pro-survival effects on melanoma cells. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2020**, 35, 1185-1193	5.6	15
1225	Effect of Carbonic Anhydrase IX inhibitors on human endothelial cell survival. *Pharmacological Research*, **2020**, 159, 104964	10.2	4
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