Silvia Bua

List of Publications by Year
in descending order

87 papers	2,285 citations	172443 29 h-index	289230 40 g-index
87 all docs	87 docs citations	87 times ranked	1775 citing authors

#	Article	IF	Citations
1	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.	5.2	19
2	Calixarenes Incorporating Sulfonamide Moieties: Versatile Ligands for Carbonic Anhydrases Inhibition. Chemistry - A European Journal, 2022, 28, .	3.3	3
3	Investigation of carbonic anhydrase inhibitory effects and cytotoxicities of pyrazole-based hybrids carrying hydrazone and zinc-binding benzenesulfonamide pharmacophores. Bioorganic Chemistry, 2022, 127, 105969.	4.1	10
4	Biological evaluation, radiosensitizing activity and structural insights of novel halogenated quinazoline-sulfonamide conjugates as selective human carbonic anhydrases IX/XII inhibitors. Bioorganic Chemistry, 2021, 107, 104618.	4.1	11
5	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.	6.4	17
6	Benzyl alcohol inhibits carbonic anhydrases by anchoring to the zinc coordinated water molecule. Biochemical and Biophysical Research Communications, 2021, 548, 217-221.	2.1	5
7	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.	5.5	30
8	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.	4.1	15
9	Discovery of potent nucleotide pyrophosphatase/phosphodiesterase3 (NPP3) inhibitors with ancillary carbonic anhydrase inhibition for cancer (immuno)therapy. RSC Medicinal Chemistry, 2021, 12, 1187-1206.	3.9	5
10	Synthesis, biological and molecular dynamics investigations with a series of triazolopyrimidine/triazole-based benzenesulfonamides as novel carbonic anhydrase inhibitors. European Journal of Medicinal Chemistry, 2020, 185, 111843.	5.5	38
11	Bioisosteric Development of Multitarget Nonsteroidal Anti-Inflammatory Drugâ€“Carbonic Anhydrases Inhibitor Hybrids for the Management of Rheumatoid Arthritis. Journal of Medicinal Chemistry, 2020, 63, 2325-2342.	6.4	26
12	Synthesis and selective inhibitory effects of some 2-oxindole benzenesulfonamide conjugates on human carbonic anhydrase isoforms CA I, CA II, CA IX and CAXII. Bioorganic Chemistry, 2020, 95, 103514.	4.1	16
13	Pyrrolo and pyrrolopyrimidine sulfonamides act as cytotoxic agents in hypoxia via inhibition of transmembrane carbonic anhydrases. European Journal of Medicinal Chemistry, 2020, 188, 112021.	5.5	23
14	â€œA Sweet Combinationâ€: Developing Saccharin and Acesulfame K Structures for Selectively Targeting the Tumor-Associated Carbonic Anhydrases IX and XII. Journal of Medicinal Chemistry, 2020, 63, 321-333.	6.4	27
15	Toxicity evaluation of sulfamides and coumarins that efficiently inhibit human carbonic anhydrases. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1765-1772.	5.2	10
16	Iodoquinazolinones bearing benzenesulfonamide as human carbonic anhydrase I, II, IX and XII inhibitors: Synthesis, biological evaluation and radiosensitizing activity. European Journal of Medicinal Chemistry, 2020, 200, 112449.	5.5	11
17	Sulfonamide Inhibitors of Human Carbonic Anhydrases Designed through a Three-Tails Approach: Improving Ligand/Isoform Matching and Selectivity of Action. Journal of Medicinal Chemistry, 2020, 63, 7422-7444.	6.4	75
18	S-substituted 2-mercaptoquinazolin-4(3H)-one and 4-ethylbenzensulfonamides act as potent and selective human carbonic anhydrase IX and XII inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 733-743.	5.2	20

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19	Discovery of Potent Dual-Tailed Benzenesulfonamide Inhibitors of Human Carbonic Anhydrases Implicated in Glaucoma and in Vivo Profiling of Their Intraocular Pressure-Lowering Action. Journal of Medicinal Chemistry, 2020, 63, 3317-3326.	6.4	33
20	Synthesis of some N-aroyl-2-oxindole benzenesulfonamide conjugates with carbonic anhydrase inhibitory activity. Bioorganic Chemistry, 2020, 96, 103635.	4.1	15
21	Dual P-Glycoprotein and CA XII Inhibitors: A New Strategy to Reverse the P-gp Mediated Multidrug Resistance (MDR) in Cancer Cells. Molecules, 2020, 25, 1748.	3.8	30
22	Carbonic anhydrase inhibitors based on sorafenib scaffold: Design, synthesis, crystallographic investigation and effects on primary breast cancer cells. European Journal of Medicinal Chemistry, 2019, 182, 111600.	5.5	33
23	Synthesis and biological evaluation of novel 3-(quinolin-4-ylamino)benzenesulfonamides as carbonic anhydrase isoforms I and II inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1457-1464.	5.2	24
24	Carbonic anhydrase inhibitors as diuretics. , 2019, , 287-309.		0
25	New anthranilic acid-incorporating N-benzenesulfonamidophthalimides as potent inhibitors of carbonic anhydrases I, II, IX, and XII: Synthesis, inÂvitro testing, and in silico assessment. European Journal of Medicinal Chemistry, 2019, 181, 111573.	5.5	14
26	Sulfonamides incorporating piperazine bioisosteres as potent human carbonic anhydrase I, II, IV and IX inhibitors. Bioorganic Chemistry, 2019, 91, 103130.	4.1	12
27	Synthesis, biological evaluation and in silico studies with 4-benzylidene-2-phenyl-5(4H)-imidazolone-based benzenesulfonamides as novel selective carbonic anhydrase IX inhibitors endowed with anticancer activity. Bioorganic Chemistry, 2019, 90, 103102.	4.1	21
28	3-Hydrazinoisatin-based benzenesulfonamides as novel carbonic anhydrase inhibitors endowed with anticancer activity: Synthesis, inÂvitro biological evaluation and in silico insights. European Journal of Medicinal Chemistry, 2019, 184, 111768.	5.5	49
29	Extending the Inhibition Profiles of Coumarin-Based Compounds Against Human Carbonic Anhydrases: Synthesis, Biological, and In Silico Evaluation. Molecules, 2019, 24, 3580.	3.8	6
30	Biochemical and Structural Insights into Carbonic Anhydrase XII/Fab6A10 Complex. Journal of Molecular Biology, 2019, 431, 4910-4921.	4.2	23
31	Synthesis and comparative carbonic anhydrase inhibition of new Schiffâ€™s bases incorporating benzenesulfonamide, methanesulfonamide, and methylsulfonylbenzene scaffolds. Bioorganic Chemistry, 2019, 92, 103225.	4.1	15
32	Synthesis, biological evaluation and in silico modelling studies of 1,3,5-trisubstituted pyrazoles carrying benzenesulfonamide as potential anticancer agents and selective cancer-associated hCA IX isoenzyme inhibitors. Bioorganic Chemistry, 2019, 92, 103222.	4.1	34
33	Novel 2-substituted-benzimidazole-6-sulfonamides as carbonic anhydrase inhibitors: synthesis, biological evaluation against isoforms I, II, IX and XII and molecular docking studies. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1697-1710.	5.2	28
34	Continued exploration and tail approach synthesis of benzenesulfonamides containing triazole and dual triazole moieties as carbonic anhydrase I, II, IV and IX inhibitors. European Journal of Medicinal Chemistry, 2019, 183, 111698.	5.5	38
35	Diagnostic markers for glaucoma: a patent and literature review (2013-2019). Expert Opinion on Therapeutic Patents, 2019, 29, 829-839.	5.0	18
36	Î±-Carbonic anhydrases are strongly activated by spinaceamine derivatives. Bioorganic and Medicinal Chemistry, 2019, 27, 800-804.	3.0	23

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37	Click-tailed benzenesulfonamides as potent bacterial carbonic anhydrase inhibitors for targeting Mycobacterium tuberculosis and Vibrio cholerae. Bioorganic Chemistry, 2019, 86, 183-186.	4.1	15
38	Benzenesulfonamides incorporating nitrogenous bases show effective inhibition of Î²-carbonic anhydrases from the pathogenic fungi Cryptococcus neoformans, Candida glabrata and Malassezia globosa. Bioorganic Chemistry, 2019, 86, 39-43.	4.1	8
39	Novel Diamide-Based Benzenesulfonamides as Selective Carbonic Anhydrase IX Inhibitors Endowed with Antitumor Activity: Synthesis, Biological Evaluation and In Silico Insights. International Journal of Molecular Sciences, 2019, 20, 2484.	4.1	21
40	Activation of human Î±-carbonic anhydrase isoforms I, II, IV and VII with bis-histamine schiff bases and bis-spinaceamine substituted derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 1193-1198.	5.2	22
41	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.	4.1	22
42	Design, synthesis, and carbonic anhydrase inhibition activity of benzenesulfonamide-linked novel pyrazoline derivatives. Bioorganic Chemistry, 2019, 87, 425-431.	4.1	31
43	Comparison of the Sulfonamide Inhibition Profiles of the Î±-Carbonic Anhydrase Isoforms (SpiCA1,) Tj ETQq1 1 0.784314 rgBT /Overlo Drugs, 2019, 17, 146.	4.6	5
44	Novel 8-Substituted Coumarins That Selectively Inhibit Human Carbonic Anhydrase IX and XII. International Journal of Molecular Sciences, 2019, 20, 1208.	4.1	23
45	Novel synthesized SLC-0111 thiazole and thiadiazole analogues: Determination of their carbonic anhydrase inhibitory activity and molecular modeling studies. Bioorganic Chemistry, 2019, 87, 794-802.	4.1	46
46	Activation Studies of the Î²-Carbonic Anhydrase from the Pathogenic Protozoan Entamoeba histolytica with Amino Acids and Amines. Metabolites, 2019, 9, 26.	2.9	9
47	Discovery of new ureido benzenesulfonamides incorporating 1,3,5-triazine moieties as carbonic anhydrase I, II, IX and XII inhibitors. Bioorganic and Medicinal Chemistry, 2019, 27, 1588-1594.	3.0	47
48	Synthesis of novel benzenesulfonamide bearing 1,2,3-triazole linked hydroxy-trifluoromethylpyrazolines and hydrazones as selective carbonic anhydrase isoforms IX and XII inhibitors. Bioorganic Chemistry, 2019, 85, 198-208.	4.1	36
49	Enhancement of the tail hydrophobic interactions within the carbonic anhydrase IX active site via structural extension: Design and synthesis of novel N-substituted isatins-SLC-0111 hybrids as carbonic anhydrase inhibitors and antitumor agents. European Journal of Medicinal Chemistry, 2019, 162, 147-160.	5.5	81
50	Design, synthesis and biological evaluation of novel ureido benzenesulfonamides incorporating 1,3,5-triazine moieties as potent carbonic anhydrase IX inhibitors. Bioorganic Chemistry, 2019, 82, 117-122.	4.1	44
51	Synthesis, structure and bioactivity of primary sulfamate-containing natural products. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 3009-3013.	2.2	14
52	Natural Polyphenols Selectively Inhibit Î²â€Carbonic Anhydrase from the Dandruffâ€Producing Fungus Malassezia globosa: Activity and Modeling Studies. ChemMedChem, 2018, 13, 816-823.	3.2	32
53	2-Benzylpiperazine: A new scaffold for potent human carbonic anhydrase inhibitors. Synthesis, enzyme inhibition, enantioselectivity, computational and crystallographic studies and inÂvivo activity for a new class of intraocular pressure lowering agents. European Journal of Medicinal Chemistry, 2018, 151, 363-375.	5.5	29
54	Design and synthesis of novel 1,3-diaryltriazene-substituted sulfonamides as potent and selective carbonic anhydrase II inhibitors. Bioorganic Chemistry, 2018, 77, 542-547.	4.1	50

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55	Synthesis and biological evaluation of novel N,Nâ€²-diaryl cyanoguanidines acting as potent and selective carbonic anhydrase II inhibitors. Bioorganic Chemistry, 2018, 77, 245-251.	4.1	34
56	Anticancer effects of new dibenzenesulfonamides by inducing apoptosis and autophagy pathways and their carbonic anhydrase inhibitory effects on hCA I, hCA II, hCA IX, hCA XII isoenzymes. Bioorganic Chemistry, 2018, 78, 290-297.	4.1	44
57	Inhibition studies on a panel of human carbonic anhydrases withN1-substituted secondary sulfonamides incorporating thiazolinone or imidazolone-indole tails. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 629-638.	5.2	37
58	Mono- and di-thiocarbamate inhibition studies of the Î´-carbonic anhydrase TweCAÎ´ from the marine diatomThalassiosira weissflogii. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 707-713.	5.2	17
59	Discovery of Benzenesulfonamide Derivatives as Carbonic Anhydrase Inhibitors with Effective Anticonvulsant Action: Design, Synthesis, and Pharmacological Evaluation. Journal of Medicinal Chemistry, 2018, 61, 3151-3165.	6.4	27
60	Resolution of co-eluting isomers of anti-inflammatory drugs conjugated to carbonic anhydrase inhibitors from plasma in liquid chromatography by energy-resolved tandem mass spectrometry. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 671-679.	5.2	21
61	Improving the carbonic anhydrase inhibition profile of the sulfamoylphenyl pharmacophore by attachment of carbohydrate moieties. Bioorganic Chemistry, 2018, 76, 61-66.	4.1	10
62	Sulfonamide Inhibition Studies of a New Î²-Carbonic Anhydrase from the Pathogenic Protozoan Entamoeba histolytica. International Journal of Molecular Sciences, 2018, 19, 3946.	4.1	9
63	Cloning, Characterization and Anion Inhibition Studies of a Î²-Carbonic Anhydrase from the Pathogenic Protozoan Entamoeba histolytica. Molecules, 2018, 23, 3112.	3.8	9
64	Discovery of novel 1,3-diaryltriazene sulfonamides as carbonic anhydrase I, II, VII, and IX inhibitors. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1575-1580.	5.2	41
65	Evaluation of sulphonamide derivatives acting as inhibitors of human carbonic anhydrase isoforms I, II andMycobacterium tuberculosisÎ²-class enzyme Rv3273. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 962-971.	5.2	26
66	Discovery of Î²-Adrenergic Receptors Blockerâ€“Carbonic Anhydrase Inhibitor Hybrids for Multitargeted Antiglaucoma Therapy. Journal of Medicinal Chemistry, 2018, 61, 5380-5394.	6.4	53
67	Comparison of the Anion Inhibition Profiles of the Î±-CA Isoforms (SpiCA1, SpiCA2 and SpiCA3) from the Scleractinian Coral Stylophora pistillata. International Journal of Molecular Sciences, 2018, 19, 2128.	4.1	10
68	Novel hydrazido benzenesulfonamides-isatin conjugates: Synthesis, carbonic anhydrase inhibitory activity and molecular modeling studies. European Journal of Medicinal Chemistry, 2018, 157, 28-36.	5.5	51
69	Synthesis, X-ray structure, in silico calculation, and carbonic anhydrase inhibitory properties of benzylimidazole metal complexes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1150-1159.	5.2	6
70	Novel 6- and 7-Substituted Coumarins with Inhibitory Action against Lipoxygenase and Tumor-Associated Carbonic Anhydrase IX. Molecules, 2018, 23, 153.	3.8	27
71	Discovery of potent anti-convulsant carbonic anhydrase inhibitors: Design, synthesis, inÂvitro and inÂvivo appraisal. European Journal of Medicinal Chemistry, 2018, 156, 430-443.	5.5	17
72	Synthesis of novel benzenesulfamide derivatives with inhibitory activity against human cytosolic carbonic anhydrase I and II andVibrio choleraeÎ±- and Î²-class enzymes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1125-1136.	5.2	14

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73	Synthesis of novel dipeptide sulfonamide conjugates with effective carbonic anhydrase I, II, IX, and XII inhibitory properties. Bioorganic Chemistry, 2018, 81, 311-318.	4.1	17
74	Novel sulfonamides incorporating 1,3,5-triazine and amino acid structural motifs as inhibitors of the physiological carbonic anhydrase isozymes I, II and IV and tumor-associated isozyme IX. Bioorganic Chemistry, 2018, 81, 241-252.	4.1	19
75	Design and synthesis of novel benzenesulfonamide containing 1,2,3-triazoles as potent human carbonic anhydrase isoforms I, II, IV and IX inhibitors. European Journal of Medicinal Chemistry, 2018, 155, 545-551.	5.5	46
76	Novel indolin-2-one-based sulfonamides as carbonic anhydrase inhibitors: Synthesis, inÂvitro biological evaluation against carbonic anhydrases isoforms I, II, IV and VII and molecular docking studies. European Journal of Medicinal Chemistry, 2017, 127, 521-530.	5.5	56
77	Design and Synthesis of Novel Nonsteroidal Anti-Inflammatory Drugs and Carbonic Anhydrase Inhibitors Hybrids (NSAIDsâ€“CAIs) for the Treatment of Rheumatoid Arthritis. Journal of Medicinal Chemistry, 2017, 60, 1159-1170.	6.4	104
78	Investigating the antiplasmodial activity of primary sulfonamide compounds identified in open source malaria data. International Journal for Parasitology: Drugs and Drug Resistance, 2017, 7, 61-70.	3.4	13
79	Synthesis and human/bacterial carbonic anhydrase inhibition with a series of sulfonamides incorporating phthalimido moieties. Bioorganic and Medicinal Chemistry, 2017, 25, 2524-2529.	3.0	25
80	Advances in new psychoactive substances identification: the U.R.I.To.N. Consortium. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 841-849.	5.2	18
81	Inhibition of Malassezia globosa carbonic anhydrase with phenols. Bioorganic and Medicinal Chemistry, 2017, 25, 2577-2582.	3.0	41
82	Benzenesulfonamide bearing imidazothiadiazole and thiazolotriazole scaffolds as potent tumor associated human carbonic anhydrase IX and XII inhibitors. Bioorganic and Medicinal Chemistry, 2017, 25, 1286-1293.	3.0	36
83	Synthesis and biological evaluation of benzenesulphonamide-bearing 1,4,5-trisubstituted-1,2,3-triazoles possessing human carbonic anhydrase I, II, IV, and IX inhibitory activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 1187-1194.	5.2	42
84	Discovery of New Sulfonamide Carbonic Anhydrase IX Inhibitors Incorporating Nitrogenous Bases. ACS Medicinal Chemistry Letters, 2017, 8, 1314-1319.	2.8	61
85	Carbonic anhydrase I, II, IV and IX inhibition with a series of 7-amino-3,4-dihydroquinolin-2(1H)-one derivatives. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 885-892.	5.2	10
86	Novel Sulfamide-Containing Compounds as Selective Carbonic Anhydrase I Inhibitors. Molecules, 2017, 22, 1049.	3.8	24
87	Synthesis and carbonic anhydrase inhibitory effects of new N-glycosylsulfonamides incorporating the phenol moiety. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 3892-3895.	2.2	8