Sally-Ann Poulsen

List of Publications by Citations

100	4,298	37	64
papers	citations	h-index	g-index
116	4,624	5.2	5.38
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
100	Non-zinc mediated inhibition of carbonic anhydrases: coumarins are a new class of suicide inhibitors. *Journal of the American Chemical Society*, **2009**, 131, 3057-62	16.4	400
99	Discovery of a new family of carbonic anhydrases in the malaria pathogen Plasmodium falciparum--the ⊟carbonic anhydrases. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 4389-4396	2.9	258
98	Adenosine receptors: new opportunities for future drugs. *Bioorganic and Medicinal Chemistry*, **1998**, 6, 619-41	3.4	258
97	Carbonic anhydrase inhibitors: inhibition of isozymes I, II, and IX with triazole-linked O-glycosides of benzene sulfonamides. *Journal of Medicinal Chemistry*, **2007**, 50, 1651-7	8.3	169
96	Open Source Drug Discovery with the Malaria Box Compound Collection for Neglected Diseases and Beyond. *PLoS Pathogens*, **2016**, 12, e1005763	7.6	167
95	A novel class of carbonic anhydrase inhibitors: glycoconjugate benzene sulfonamides prepared by "click-tailing". *Journal of Medicinal Chemistry*, **2006**, 49, 6539-48	8.3	153
94	Molecular evolution: dynamic combinatorial libraries, autocatalytic networks and the quest for molecular function. *Current Opinion in Chemical Biology*, **2000**, 4, 270-9	9.7	140
93	Synthetic utility of glycosyl triazoles in carbohydrate chemistry. *Tetrahedron*, **2006**, 62, 8115-8125	2.4	105
92	Targeting hypoxic tumor cell viability with carbohydrate-based carbonic anhydrase IX and XII inhibitors. *Journal of Medicinal Chemistry*, **2011**, 54, 6905-18	8.3	104
91	Therapeutic applications of glycosidic carbonic anhydrase inhibitors. *Medicinal Research Reviews*, **2009**, 29, 419-35	14.4	96
90	Dynamic combinatorial libraries of pseudo-peptide hydrazone macrocycles. *Chemical Communications*, **1999**, 1575-1576	5.8	92
89	Natural product-based phenols as novel probes for mycobacterial and fungal carbonic anhydrases. *Journal of Medicinal Chemistry*, **2011**, 54, 1682-92	8.3	85
88	Natural product coumarins that inhibit human carbonic anhydrases. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 1539-43	3.4	82
87	Cyclic secondary sulfonamides: unusually good inhibitors of cancer-related carbonic anhydrase enzymes. *Journal of Medicinal Chemistry*, **2014**, 57, 3522-31	8.3	74
86	Inhibition of carbonic anhydrases with glycosyltriazole benzene sulfonamides. *Journal of Medicinal Chemistry*, **2008**, 51, 1945-53	8.3	70
85	Screening the Medicines for Malaria Venture Pathogen Box across Multiple Pathogens Reclassifies Starting Points for Open-Source Drug Discovery. *Antimicrobial Agents and Chemotherapy*, **2017**, 61,	5.9	69
84	Carbonic anhydrase inhibitors with dual-tail moieties to match the hydrophobic and hydrophilic halves of the carbonic anhydrase active site. *Journal of Medicinal Chemistry*, **2015**, 58, 1494-501	8.3	69

83	Metallocene-based inhibitors of cancer-associated carbonic anhydrase enzymes IX and XII. *Journal of Medicinal Chemistry*, **2012**, 55, 5506-17	8.3	68
82	Direct screening of a dynamic combinatorial library using mass spectrometry. *Journal of the American Society for Mass Spectrometry*, **2006**, 17, 1074-1080	3.5	66
81	Microwave-accelerated Fischer glycosylation. *Tetrahedron Letters*, **2005**, 46, 3485-3488	2	64
80	Carbonic anhydrase inhibitors. Identification of selective inhibitors of the human mitochondrial isozymes VA and VB over the cytosolic isozymes I and II from a natural product-based phenolic library. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 14-8	3.4	63
79	Saccharin: a lead compound for structure-based drug design of carbonic anhydrase IX inhibitors. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 849-54	3.4	58
78	Inhibition of membrane-associated carbonic anhydrase isozymes IX, XII and XIV with a library of glycoconjugate benzenesulfonamides. *Bioorganic and Medicinal Chemistry Letters*, **2007**, 17, 987-92	2.9	57
77	Fragment-based drug discovery of carbonic anhydrase II inhibitors by dynamic combinatorial chemistry utilizing alkene cross metathesis. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 3275-84	3.4	57
76	Sulfonamide linked neoglycoconjugates--a new class of inhibitors for cancer-associated carbonic anhydrases. *Journal of Medicinal Chemistry*, **2010**, 53, 2913-26	8.3	55
75	Sulfonamide inhibition studies of the □-class carbonic anhydrase from the malaria pathogen Plasmodium falciparum. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 526-31	3.4	48
74	Structural insights into carbonic anhydrase IX isoform specificity of carbohydrate-based sulfamates. *Journal of Medicinal Chemistry*, **2014**, 57, 8635-45	8.3	47
73	A prodrug approach toward cancer-related carbonic anhydrase inhibition. *Journal of Medicinal Chemistry*, **2013**, 56, 9623-34	8.3	46
72	S-glycosyl primary sulfonamides--a new structural class for selective inhibition of cancer-associated carbonic anhydrases. *Journal of Medicinal Chemistry*, **2009**, 52, 6421-32	8.3	45
71	Pharmacological inhibition of carbonic anhydrase XII interferes with cell proliferation and induces cell apoptosis in T-cell lymphomas. *Cancer Letters*, **2013**, 333, 76-88	9.9	44
70	Electrospray ionisation Fourier-transform ion cyclotron resonance mass spectrometry of dynamic combinatorial libraries. *Rapid Communications in Mass Spectrometry*, **2000**, 14, 44-8	2.2	44
69	Carbonic anhydrase inhibition as a cancer therapy: a review of patent literature, 2007 - 2009. *Expert Opinion on Therapeutic Patents*, **2010**, 20, 795-806	6.8	42
68	Inhibition of carbonic anhydrase isozymes I, II and IX with benzenesulfonamides containing an organometallic moiety. *Bioorganic and Medicinal Chemistry Letters*, **2007**, 17, 5032-5	2.9	39
67	Protein crystal structures with ferrocene and ruthenocene-based enzyme inhibitors. *Chemical Communications*, **2012**, 48, 2328-30	5.8	38
66	Carbonic anhydrase inhibitors developed through □click tailing□ *Current Pharmaceutical Design*, **2010**, 16, 3277-87	3.3	38

65	Inhibition of human mitochondrial carbonic anhydrases VA and VB with para-(4-phenyltriazole-1-yl)-benzenesulfonamide derivatives. *Bioorganic and Medicinal Chemistry Letters*, **2008**, 18, 4624-7	2.9	38
64	Natural Product Primary Sulfonamides and Primary Sulfamates. *Journal of Natural Products*, **2015**, 78, 1470-7	4.9	37
63	Promiscuity of carbonic anhydrase II. Unexpected ester hydrolysis of carbohydrate-based sulfamate inhibitors. *Journal of the American Chemical Society*, **2011**, 133, 18452-62	16.4	37
62	Synthesis of S-glycosyl primary sulfonamides. *Journal of Organic Chemistry*, **2009**, 74, 2811-6	4.2	36
61	Native State Mass Spectrometry, Surface Plasmon Resonance, and X-ray Crystallography Correlate Strongly as a Fragment Screening Combination. *Journal of Medicinal Chemistry*, **2016**, 59, 2192-204	8.3	35
60	Fragment-based screening by X-ray crystallography, MS and isothermal titration calorimetry to identify PNMT (phenylethanolamine N-methyltransferase) inhibitors. *Biochemical Journal*, **2010**, 431, 51-61	3.8	35
59	Inhibition of carbonic anhydrase isozymes with benzene sulfonamides incorporating thio, sulfinyl and sulfonyl glycoside moieties. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 2273-6	2.9	35
58	Synthesis and in Vivo Biological Evaluation of (68)Ga-Labeled Carbonic Anhydrase IX Targeting Small Molecules for Positron Emission Tomography. *Journal of Medicinal Chemistry*, **2016**, 59, 6431-43	8.3	31
57	Design, synthesis, and biological evaluation of novel carbohydrate-based sulfamates as carbonic anhydrase inhibitors. *Journal of Medicinal Chemistry*, **2011**, 54, 1481-9	8.3	31
56	Anti-mycobacterial activity of a bis-sulfonamide. *Bioorganic and Medicinal Chemistry Letters*, **2007**, 17, 1355-7	2.9	31
55	Screening a natural product-based combinatorial library using FTICR mass spectrometry. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 510-5	3.4	31
54	Synthesis of cyclic oligomers of a modified sugar amino acid utilising dynamic combinatorial chemistry. *Tetrahedron Letters*, **2004**, 45, 9281-9284	2	31
53	Solution structures in aqueous SDS micelles of two amyloid beta peptides of A beta(1-28) mutated at the alpha-secretase cleavage site (K16E, K16F). *Journal of Structural Biology*, **2000**, 130, 142-52	3.4	31
52	Synthesis and structure-activity relationship of pyrazolo[3,4-d]pyrimidines: potent and selective adenosine A1 receptor antagonists. *Journal of Medicinal Chemistry*, **1996**, 39, 4156-61	8.3	29
51	An Unusual Natural Product Primary Sulfonamide: Synthesis, Carbonic Anhydrase Inhibition, and Protein X-ray Structures of Psammaplin C. *Journal of Medicinal Chemistry*, **2016**, 59, 5462-70	8.3	29
50	Novel organometallic cationic ruthenium(II) pentamethylcyclopentadienyl benzenesulfonamide complexes targeted to inhibit carbonic anhydrase. *Journal of Biological Inorganic Chemistry*, **2009**, 14, 935-45	3.7	27
49	Carbonic Anhydrase XII Inhibitors Overcome P-Glycoprotein-Mediated Resistance to Temozolomide in Glioblastoma. *Molecular Cancer Therapeutics*, **2018**, 17, 2598-2609	6.1	26
48	Antimalarial activity of compounds comprising a primary benzene sulfonamide fragment. *Bioorganic and Medicinal Chemistry Letters*, **2013**, 23, 6114-7	2.9	25

47	P-glycoprotein-mediated chemoresistance is reversed by carbonic anhydrase XII inhibitors. *Oncotarget*, **2016**, 7, 85861-85875	3.3	24
46	Design and synthesis of thiourea compounds that inhibit transmembrane anchored carbonic anhydrases. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 2392-404	3.4	23
45	Mapping Selective Inhibition of the Cancer-Related Carbonic Anhydrase IX Using Structure-Activity Relationships of Glucosyl-Based Sulfamates. *Journal of Medicinal Chemistry*, **2015**, 58, 6630-8	8.3	22
44	Synthesis of glycoconjugate carbonic anhydrase inhibitors by ruthenium-catalysed azide-alkyne 1,3-dipolar cycloaddition. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 6058-61	2.9	22
43	Carbonic Anhydrase XII Inhibitors Overcome Temozolomide Resistance in Glioblastoma. *Journal of Medicinal Chemistry*, **2019**, 62, 4174-4192	8.3	20
42	Synthesis of acylated glycoconjugates as templates to investigate in vitro biopharmaceutical properties. *Bioorganic and Medicinal Chemistry Letters*, **2013**, 23, 455-9	2.9	20
41	Isoform-selective inhibitory profile of 2-imidazoline-substituted benzene sulfonamides against a panel of human carbonic anhydrases. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 197-202	5.6	19
40	Natural product polyamines that inhibit human carbonic anhydrases. *BioMed Research International*, **2014**, 2014, 374079	3	18
39	Fragment Screening by Native State Mass Spectrometry. *Australian Journal of Chemistry*, **2013**, 66, 1495	1.2	17
38	Synthesis and evaluation of antimalarial properties of novel 4-aminoquinoline hybrid compounds. *Chemical Biology and Drug Design*, **2014**, 84, 462-72	2.9	17
37	An overview of AustraliaЋs compound management facility: the Queensland Compound Library. *ACS Chemical Biology*, **2014**, 9, 28-33	4.9	15
36	Synthesis and structure-activity relationships of novel benzene sulfonamides with potent binding affinity for bovine carbonic anhydrase II. *Bioorganic and Medicinal Chemistry Letters*, **2005**, 15, 5429-33	2.9	15
35	Synthesis, structure and bioactivity of primary sulfamate-containing natural products. *Bioorganic and Medicinal Chemistry Letters*, **2018**, 28, 3009-3013	2.9	13
34	Agents described in the Molecular Imaging and Contrast Agent Database for imaging carbonic anhydrase IX expression. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2014**, 29, 753-63	5.6	13
33	Microwave-accelerated cross-metathesis reactions of N-allyl amino acid substrates. *Tetrahedron Letters*, **2005**, 46, 7389-7392	2	13
32	Synthesis of sulfonamide-bridged glycomimetics. *Journal of Organic Chemistry*, **2011**, 76, 2965-75	4.2	12
31	Pyrazolo[3,4-d]pyrimidines: C4, C6 substitution leads to adenosine A1 receptor selectivity. *Bioorganic and Medicinal Chemistry Letters*, **1996**, 6, 357-360	2.9	12
30	High-pressure synthesis of enantiomerically pure C-6 substituted pyrazol. *Bioorganic and Medicinal Chemistry Letters*, **2001**, 11, 191-3	2.9	11

29	Synthesis of N-Propargyl Iminosugar Scaffolds for Compound Library Generation using Click Chemistry. *Australian Journal of Chemistry*, **2010**, 63, 821	1.2	10
28	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	4	9
27	Phosphate Chemical Probes Designed for Location Specific Inhibition of Intracellular Carbonic Anhydrases. *Journal of Medicinal Chemistry*, **2015**, 58, 7580-90	8.3	9
26	Recent developments of small molecule chemical probes for fluorescence-based detection of human carbonic anhydrase II and IX. *MedChemComm*, **2016**, 7, 2045-2062	5	9
25	Investigation of pyrimidine nucleoside analogues as chemical probes to assess compound effects on the proliferation of Trypanosoma cruzi intracellular parasites. *PLoS Neglected Tropical Diseases*, **2020**, 14, e0008068	4.8	6
24	Labeling of Cellular DNA with a Cyclosal Phosphotriester Pronucleotide Analog of 5-ethynyl-2′-deoxyuridine. *Chemical Biology and Drug Design*, **2015**, 86, 400-9	2.9	6
23	Stereoselective Synthesis of Highly Functionalized Arabinosyl Nucleosides through Application of an N-Nitro Protecting Group. *Journal of Organic Chemistry*, **2018**, 83, 11944-11955	4.2	6
22	Development of ethynyl-2′-deoxyuridine chemical probes for cell proliferation. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 4272-4280	3.4	5
21	Identification of a New Zinc Binding Chemotype by Fragment Screening. *Journal of Medicinal Chemistry*, **2017**, 60, 7333-7349	8.3	5
20	Natural products that inhibit carbonic anhydrase. *Sub-Cellular Biochemistry*, **2014**, 75, 325-47	5.5	5
19	Characterisation of Photoaffinity-Based Chemical Probes by Fluorescence Imaging and Native-State Mass Spectrometry. *ChemBioChem*, **2017**, 18, 739-754	3.8	4
18	Synthesis of sulfonamide-conjugated glycosyl-amino acid building blocks. *Carbohydrate Research*, **2014**, 386, 78-85	2.9	4
17	Oxazole-Benzenesulfonamide Derivatives Inhibit HIV-1 Reverse Transcriptase Interaction with Cellular eEF1A and Reduce Viral Replication. *Journal of Virology*, **2019**, 93,	6.6	3
16	4-Hydroxymethyl-1-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)-1,2,3-triazole. *Acta Crystallographica Section E: Structure Reports Online*, **2006**, 62, o5065-o5067		3
15	The Key Glycolytic Enzyme Phosphofructokinase Is Involved in Resistance to Antiplasmodial Glycosides. *MBio*, **2020**, 11,	7.8	2
14	In Situ Fragment-Based Medicinal Chemistry: Screening by Mass Spectrometry159-198		2
13	N-Cinnamoyl-L-valine methyl ester. *Acta Crystallographica Section E: Structure Reports Online*, **2007**, 63, o44-o46		2
12	(η⁵-Penta-methyl-cyclo-penta-dien-yl)(η⁶-toluene-sulfonamide)ruthenium(II) tetra-phenyl-borate. *Acta Crystallographica Section E: Structure Reports Online*, **2008**, 64, m1568		2

List of Publications

11	Carbonic anhydrase XII inhibition overcomes P-glycoprotein-mediated drug resistance: a potential new combination therapy in cancer. **2021**, 4, 343-355		2
10	Bifunctional copper(II) chelators from the coupling of the encapsulating ligand 1-methyl-8-amino-3,13,16-trithia-6,10,19-triazabicyclo[6.6.6]icosane (AMN3S3sar) with carboxylic acids; applications of the coupling agent DMT-MM. *Polyhedron*, **2015**, 85, 627-634	2.7	1
9	Synthesis of Novel Saccharin Derivatives. *Molecules*, **2017**, 22,	4.8	1
8	N-{2-[4-(Aminosulfonyl)phenyl]ethyl}-2-(4-hydroxyphenyl)acetamide. *Acta Crystallographica Section E: Structure Reports Online*, **2007**, 63, o96-o97		1
7	N-(2-Nitrophenylsulfonyl)glycine methyl ester. *Acta Crystallographica Section E: Structure Reports Online*, **2005**, 61, o323-o325		1
6	Methyl 2,3,4-tri-O-acetyl-1-azido-1-deoxy-β-D-glucopyranuronate at room temperature. *Acta Crystallographica Section E: Structure Reports Online*, **2005**, 61, o738-o740		1
5	N-(2-Nitrobenzenesulfonyl)-L-alanine methyl ester. *Acta Crystallographica Section E: Structure Reports Online*, **2005**, 61, o1665-o1667		1
4	Synthesis of 5-Alkynyl Substituted 2′-Arabinosyl 2′-Halogenated Uridine Nucleosides. *Current Protocols in Nucleic Acid Chemistry*, **2019**, 77, e86	0.5	
3	Coumarins that inhibit carbonic anhydrase **2014**, 98-112		
2	Dynamic Combinatorial Chemistry and Mass Spectrometry: A Combined Strategy for High Performance Lead Discovery201-228		
1	N-Cinnamoyl-l-phenyl-alanine methyl ester. *Acta Crystallographica Section E: Structure Reports Online*, **2007**, 64, o139		