

Conor R Caffrey

List of Publications by Year in descending order

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86
papers

3,564
citations

159585

30
h-index

155660

55
g-index

124
all docs

124
docs citations

124
times ranked

3566
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemotherapy of schistosomiasis: present and future. <i>Current Opinion in Chemical Biology</i> , 2007, 11, 433-439.	6.1	251
2	Open Source Drug Discovery with the Malaria Box Compound Collection for Neglected Diseases and Beyond. <i>PLoS Pathogens</i> , 2016, 12, e1005763.	4.7	244
3	Schistosomiasis Mansoni: Novel Chemotherapy Using a Cysteine Protease Inhibitor. <i>PLoS Medicine</i> , 2007, 4, e14.	8.4	229
4	A Multienzyme Network Functions in Intestinal Protein Digestion by a Platyhelminth Parasite. <i>Journal of Biological Chemistry</i> , 2006, 281, 39316-39329.	3.4	214
5	<i>Caenorhabditis elegans</i> is a useful model for anthelmintic discovery. <i>Nature Communications</i> , 2015, 6, 7485.	12.8	163
6	Functional expression and characterization of <i>Schistosoma mansoni</i> cathepsin B and its trans-activation by an endogenous asparaginyl endopeptidase. <i>Molecular and Biochemical Parasitology</i> , 2003, 131, 65-75.	1.1	147
7	Blood α -guts: an update on schistosome digestive peptidases. <i>Trends in Parasitology</i> , 2004, 20, 241-248.	3.3	147
8	A single-cell RNA-seq atlas of <i>Schistosoma mansoni</i> identifies a key regulator of blood feeding. <i>Science</i> , 2020, 369, 1644-1649.	12.6	108
9	RNA Interference in <i>Schistosoma mansoni</i> Schistosomula: Selectivity, Sensitivity and Operation for Larger-Scale Screening. <i>PLoS Neglected Tropical Diseases</i> , 2010, 4, e850.	3.0	107
10	Differential use of protease families for invasion by schistosome cercariae. <i>Biochimie</i> , 2008, 90, 345-358.	2.6	100
11	Cysteine proteases as digestive enzymes in parasitic helminths. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0005840.	3.0	82
12	Regulation of <i>Schistosoma mansoni</i> Development and Reproduction by the Mitogen-Activated Protein Kinase Signaling Pathway. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2949.	3.0	73
13	Chapter 4 Peptidases of Trematodes. <i>Advances in Parasitology</i> , 2009, 69, 205-297.	3.2	70
14	SmCB2, a novel tegumental cathepsin B from adult <i>Schistosoma mansoni</i> . <i>Molecular and Biochemical Parasitology</i> , 2002, 121, 49-61.	1.1	69
15	Identification of a cDNA encoding an active asparaginyl endopeptidase of <i>Schistosoma mansoni</i> and its expression in <i>Pichia pastoris</i> . <i>FEBS Letters</i> , 2000, 466, 244-248.	2.8	64
16	Sertraline, Paroxetine, and Chlorpromazine Are Rapidly Acting Anthelmintic Drugs Capable of Clinical Repurposing. <i>Scientific Reports</i> , 2018, 8, 975.	3.3	64
17	Chemical and Genetic Validation of the Statin Drug Target to Treat the Helminth Disease, Schistosomiasis. <i>PLoS ONE</i> , 2014, 9, e87594.	2.5	62
18	Structural Basis for Inhibition of Cathepsin B Drug Target from the Human Blood Fluke, <i>Schistosoma mansoni</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 35770-35781.	3.4	60

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19	Synthesis of a Sugar-Based Thiosemicarbazone Series and Structure-Activity Relationship versus the Parasite Cysteine Proteases Rhodesain, Cruzain, and Schistosoma mansoni Cathepsin B1. Antimicrobial Agents and Chemotherapy, 2015, 59, 2666-2677.	3.2	57
20	Sex-Biased Transcriptome of Schistosoma mansoni: Host-Parasite Interaction, Genetic Determinants and Epigenetic Regulators Are Associated with Sexual Differentiation. PLoS Neglected Tropical Diseases, 2016, 10, e0004930.	3.0	57
21	Structure-Bioactivity Relationship for Benzimidazole Thiophene Inhibitors of Polo-Like Kinase 1 (PLK1), a Potential Drug Target in Schistosoma mansoni. PLoS Neglected Tropical Diseases, 2016, 10, e0004356.	3.0	56
22	Multiple cathepsin B isoforms in schistosomula of Trichobilharzia regenti: identification, characterisation and putative role in migration and nutrition. International Journal for Parasitology, 2005, 35, 895-910.	3.1	50
23	SmCL3, a Gastrodermal Cysteine Protease of the Human Blood Fluke Schistosoma mansoni. PLoS Neglected Tropical Diseases, 2009, 3, e449.	3.0	45
24	Targeting proteasomes in infectious organisms to combat disease. FEBS Journal, 2017, 284, 1503-1517.	4.7	40
25	High Throughput and Computational Repurposing for Neglected Diseases. Pharmaceutical Research, 2019, 36, 27.	3.5	37
26	Phenotypic, chemical and functional characterization of cyclic nucleotide phosphodiesterase 4 (PDE4) as a potential anthelmintic drug target. PLoS Neglected Tropical Diseases, 2017, 11, e0005680.	3.0	36
27	Mapping the Pro-Peptide of the Schistosoma mansoni Cathepsin B1 Drug Target: Modulation of Inhibition by Heparin and Design of Mimetic Inhibitors. ACS Chemical Biology, 2011, 6, 609-617.	3.4	34
28	Serum albumin and Î±-1 acid glycoprotein impede the killing of Schistosoma mansoni by the tyrosine kinase inhibitor Imatinib. International Journal for Parasitology: Drugs and Drug Resistance, 2014, 4, 287-295.	3.4	34
29	Activation Route of the Schistosoma mansoni Cathepsin B1 Drug Target: Structural Map with a Glycosaminoglycan Switch. Structure, 2014, 22, 1786-1798.	3.3	34
30	Prolyl Oligopeptidase from the Blood Fluke Schistosoma mansoni: From Functional Analysis to Anti-schistosomal Inhibitors. PLoS Neglected Tropical Diseases, 2015, 9, e0003827.	3.0	34
31	Trypsin- and Chymotrypsin-Like Serine Proteases in Schistosoma mansoni â€” The Undiscovered Countryâ€™. PLoS Neglected Tropical Diseases, 2014, 8, e2766.	3.0	31
32	Excretion/secretion products from Schistosoma mansoni adults, eggs and schistosomula have unique peptidase specificity profiles. Biochimie, 2016, 122, 99-109.	2.6	31
33	Screening of acyl hydrazide proteinase inhibitors for antiparasitic activity against Trypanosoma brucei. International Journal of Antimicrobial Agents, 2002, 19, 227-231.	2.5	30
34	Cure of Hookworm Infection with a Cysteine Protease Inhibitor. PLoS Neglected Tropical Diseases, 2012, 6, e1680.	3.0	28
35	Cysteine proteases during larval migration and development of helminths in their final host. PLoS Neglected Tropical Diseases, 2018, 12, e0005919.	3.0	27
36	SmSP2: A serine protease secreted by the blood fluke pathogen Schistosoma mansoni with anti-hemostatic properties. PLoS Neglected Tropical Diseases, 2018, 12, e0006446.	3.0	26

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37	The Proteasome as a Drug Target in the Metazoan Pathogen, <i>Schistosoma mansoni</i> . ACS Infectious Diseases, 2019, 5, 1802-1812.	3.8	25
38	The QDREC web server: determining dose-response characteristics of complex macroparasites in phenotypic drug screens. Bioinformatics, 2015, 31, 1515-1518.	4.1	21
39	A secreted schistosome cathepsin B1 cysteine protease and acute schistosome infection induce a transient T helper 17 response. PLoS Neglected Tropical Diseases, 2019, 13, e0007070.	3.0	20
40	Multi-center screening of the Pathogen Box collection for schistosomiasis drug discovery. Parasites and Vectors, 2019, 12, 493.	2.5	20
41	Identification of anisomycin, prodigiosin and obatoclax as compounds with broad-spectrum anti-parasitic activity. PLoS Neglected Tropical Diseases, 2020, 14, e0008150.	3.0	20
42	Brain-penetrant Triazolopyrimidine and Phenylpyrimidine Microtubule Stabilizers as Potential Leads to Treat Human African Trypanosomiasis. ChemMedChem, 2018, 13, 1751-1754.	3.2	19
43	Discovery and characterization of trypanocidal cysteine protease inhibitors from the "malaria box"™. European Journal of Medicinal Chemistry, 2019, 179, 765-778.	5.5	19
44	Structure-Based Optimization of Quinazolines as Cruzain and <i>Tbr</i> CATL Inhibitors. Journal of Medicinal Chemistry, 2021, 64, 13054-13071.	6.4	19
45	Cruzain Inhibitory Activity of Leaf Essential Oils of Neotropical Lauraceae and Essential Oil Components. Natural Product Communications, 2007, 2, 1934578X0700201.	0.5	18
46	Evaluation of the CCA Immuno-Chromatographic Test to Diagnose <i>Schistosoma mansoni</i> in Minas Gerais State, Brazil. PLoS Neglected Tropical Diseases, 2016, 10, e0004357.	3.0	18
47	A Machine Learning Strategy for Drug Discovery Identifies Anti-Schistosomal Small Molecules. ACS Infectious Diseases, 2021, 7, 406-420.	3.8	18
48	Development and optimization of a high-throughput screening method utilizing <i>Ancylostoma ceylanicum</i> egg hatching to identify novel anthelmintics. PLoS ONE, 2019, 14, e0217019.	2.5	16
49	A multi-dimensional, time-lapse, high content screening platform applied to schistosomiasis drug discovery. Communications Biology, 2020, 3, 747.	4.4	16
50	TPT sulfonate, a single, oral dose schistosomicidal prodrug: In vivo efficacy, disposition and metabolic profiling. International Journal for Parasitology: Drugs and Drug Resistance, 2018, 8, 571-586.	3.4	13
51	Effect of Phenotypic Screening of Extracts and Fractions of <i>Erythrophleum ivorense</i> Leaf and Stem Bark on Immature and Adult Stages of <i>Schistosoma mansoni</i> . Journal of Parasitology Research, 2018, 2018, 1-7.	1.2	13
52	Molecular characterization and functional analysis of the <i>Schistosoma mekongi</i> Ca ²⁺ -dependent cysteine protease (calpain). Parasites and Vectors, 2019, 12, 383.	2.5	13
53	Quantifying the mechanics of locomotion of the schistosome pathogen with respect to changes in its physical environment. Journal of the Royal Society Interface, 2019, 16, 20180675.	3.4	13
54	Antiparasitic Properties of Propolis Extracts and Their Compounds. Chemistry and Biodiversity, 2021, 18, e2100310.	2.1	13

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55	Bioactivity of Farnesyltransferase Inhibitors Against <i>Entamoeba histolytica</i> and <i>Schistosoma mansoni</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 180.	3.9	12
56	Novel and selective inactivators of Triosephosphate isomerase with anti-trematode activity. <i>Scientific Reports</i> , 2020, 10, 2587.	3.3	12
57	Hit-to-Lead Optimization of Benzoxazepinoindazoles As Human African Trypanosomiasis Therapeutics. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 2527-2546.	6.4	11
58	Substrate Specificity of Cysteine Proteases Beyond the S2 Pocket: Mutagenesis and Molecular Dynamics Investigation of <i>Fasciola hepatica</i> Cathepsins L. <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 40.	3.5	10
59	Selectivity and Physicochemical Optimization of Repurposed Pyrazolo[1,5- <i>b</i>]pyridazines for the Treatment of Human African Trypanosomiasis. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 756-783.	6.4	10
60	Synthesis and Bioactivity of Phthalimide Analogs as Potential Drugs to Treat Schistosomiasis, a Neglected Disease of Poverty. <i>Pharmaceuticals</i> , 2020, 13, 25.	3.8	9
61	Druggable Hot Spots in the Schistosomiasis Cathepsin B1 Target Identified by Functional and Binding Mode Analysis of Potent Vinyl Sulfone Inhibitors. <i>ACS Infectious Diseases</i> , 2021, 7, 1077-1088.	3.8	9
62	Azanitrile Inhibitors of the SmCB1 Protease Target Are Lethal to <i>Schistosoma mansoni</i> : Structural and Mechanistic Insights into Chemotype Reactivity. <i>ACS Infectious Diseases</i> , 2021, 7, 189-201.	3.8	9
63	Should the enzyme name <i>rhodesain</i> ™ be discontinued?. <i>Molecular and Biochemical Parasitology</i> , 2021, 245, 111395.	1.1	8
64	Anti-schistosomal activities of quinoxaline-containing compounds: From hit identification to lead optimisation. <i>European Journal of Medicinal Chemistry</i> , 2021, 226, 113823.	5.5	8
65	Odanacatib, a Cathepsin K Cysteine Protease Inhibitor, Kills Hookworm In Vivo. <i>Pharmaceuticals</i> , 2016, 9, 39.	3.8	7
66	Benzimidazole inhibitors of the major cysteine protease of <i>Trypanosoma brucei</i> . <i>Future Medicinal Chemistry</i> , 2019, 11, 1537-1551.	2.3	7
67	Understanding the key processes of excellence as a prerequisite to establishing academic centres of excellence in Africa. <i>BMC Medical Education</i> , 2021, 21, 36.	2.4	7
68	3-O-(3-Hydroxytetradecanoyl)lupeol from <i>Sorocea trophoides</i> Inhibits Cruzain. <i>Natural Product Communications</i> , 2007, 2, 1934578X0700200.	0.5	6
69	Octopamine-signaling in the metazoan pathogen, <i>Schistosoma mansoni</i> : localization, small-molecule screening and opportunities for drug development. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	2.4	6
70	Design, synthesis, and <i>in vitro</i> evaluation of aza-peptide aldehydes and ketones as novel and selective protease inhibitors. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 1387-1402.	5.2	6
71	Congeners Derived from Microtubule-Active Phenylpyrimidines Produce a Potent and Long-Lasting Paralysis of <i>Schistosoma mansoni</i> In Vitro. <i>ACS Infectious Diseases</i> , 2021, 7, 1089-1103.	3.8	6
72	Lead Optimization of 3,5-Disubstituted-7-Azaindoles for the Treatment of Human African Trypanosomiasis. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 9404-9430.	6.4	6

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73	Inhibition of Cruzain by Triterpenoids Isolated from a Salacia Species from Monteverde, Costa Rica. <i>Natural Product Communications</i> , 2007, 2, 1934578X0700201.	0.5	5
74	Chemical Composition and Cruzain Inhibitory Activity of <i>Croton draco</i> Bark Essential Oil from Monteverde, Costa Rica. <i>Natural Product Communications</i> , 2007, 2, 1934578X0700200.	0.5	4
75	Evaluation of a class of isatinoids identified from a high-throughput screen of human kinase inhibitors as anti-Sleeping Sickness agents. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007129.	3.0	4
76	Uncovering Biological Application of Brazilian Green Propolis: A Phenotypic Screening against <i>Schistosoma mansoni</i> . <i>Chemistry and Biodiversity</i> , 2020, 17, e2000277.	2.1	3
77	Isoforms of Cathepsin B1 in Neurotropic Schistosomula of <i>Trichobilharzia regenti</i> Differ in Substrate Preferences and a Highly Expressed Catalytically Inactive Paralog Binds Cystatin. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 66.	3.9	3
78	Efficacy, metabolism and pharmacokinetics of Ro 15-5458, a forgotten schistosomicidal 9-acridanone hydrazone. <i>Journal of Antimicrobial Chemotherapy</i> , 2020, 75, 2925-2932.	3.0	3
79	Biomechanical interactions of <i>Schistosoma mansoni</i> eggs with vascular endothelial cells facilitate egg extravasation. <i>PLoS Pathogens</i> , 2022, 18, e1010309.	4.7	3
80	Structure–Bioactivity Relationships of Lapatinib Derived Analogs against <i>Schistosoma mansoni</i> . <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 258-265.	2.8	2
81	Brazilian green propolis reduces worm burden and hepatic granuloma formation in a <i>Schistosoma mansoni</i> experimental murine model. <i>Parasitology Research</i> , 2022, 121, 775-780.	1.6	2
82	Discovery of pH-Selective Marine and Plant Natural Product Inhibitors of Cathepsin B Revealed by Screening at Acidic and Neutral pH Conditions. <i>ACS Omega</i> , 0, .	3.5	2
83	Title is missing!. , 2020, 14, e0008150.		0
84	Title is missing!. , 2020, 14, e0008150.		0
85	Title is missing!. , 2020, 14, e0008150.		0
86	Title is missing!. , 2020, 14, e0008150.		0