

Conor R Caffrey

List of Publications by Year in descending order

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86
papers

3,564
citations

159525

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155592

55
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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. | 2.8 | 251 |
| 2 | Open Source Drug Discovery with the Malaria Box Compound Collection for Neglected Diseases and Beyond. <i>PLoS Pathogens</i> , 2016, 12, e1005763. | 2.1 | 244 |
| 3 | Schistosomiasis Mansoni: Novel Chemotherapy Using a Cysteine Protease Inhibitor. <i>PLoS Medicine</i> , 2007, 4, e14. | 3.9 | 229 |
| 4 | A Multienzyme Network Functions in Intestinal Protein Digestion by a Platyhelminth Parasite. <i>Journal of Biological Chemistry</i> , 2006, 281, 39316-39329. | 1.6 | 214 |
| 5 | <i>Caenorhabditis elegans</i> is a useful model for anthelmintic discovery. <i>Nature Communications</i> , 2015, 6, 7485. | 5.8 | 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. | 0.5 | 147 |
| 7 | Blood α -guts: an update on schistosome digestive peptidases. <i>Trends in Parasitology</i> , 2004, 20, 241-248. | 1.5 | 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. | 6.0 | 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. | 1.3 | 107 |
| 10 | Differential use of protease families for invasion by schistosome cercariae. <i>Biochimie</i> , 2008, 90, 345-358. | 1.3 | 100 |
| 11 | Cysteine proteases as digestive enzymes in parasitic helminths. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0005840. | 1.3 | 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. | 1.3 | 73 |
| 13 | Chapter 4 Peptidases of Trematodes. <i>Advances in Parasitology</i> , 2009, 69, 205-297. | 1.4 | 70 |
| 14 | SmCB2, a novel tegumental cathepsin B from adult <i>Schistosoma mansoni</i> . <i>Molecular and Biochemical Parasitology</i> , 2002, 121, 49-61. | 0.5 | 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. | 1.3 | 64 |
| 16 | Sertraline, Paroxetine, and Chlorpromazine Are Rapidly Acting Anthelmintic Drugs Capable of Clinical Repurposing. <i>Scientific Reports</i> , 2018, 8, 975. | 1.6 | 64 |
| 17 | Chemical and Genetic Validation of the Statin Drug Target to Treat the Helminth Disease, Schistosomiasis. <i>PLoS ONE</i> , 2014, 9, e87594. | 1.1 | 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. | 1.6 | 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. | 1.4 | 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. | 1.3 | 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. | 1.3 | 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. | 1.3 | 50 |
| 23 | SmCL3, a Gastrodermal Cysteine Protease of the Human Blood Fluke Schistosoma mansoni. PLoS Neglected Tropical Diseases, 2009, 3, e449. | 1.3 | 45 |
| 24 | Targeting proteasomes in infectious organisms to combat disease. FEBS Journal, 2017, 284, 1503-1517. | 2.2 | 40 |
| 25 | High Throughput and Computational Repurposing for Neglected Diseases. Pharmaceutical Research, 2019, 36, 27. | 1.7 | 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. | 1.3 | 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. | 1.6 | 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. | 1.4 | 34 |
| 29 | Activation Route of the Schistosoma mansoni Cathepsin B1 Drug Target: Structural Map with a Glycosaminoglycan Switch. Structure, 2014, 22, 1786-1798. | 1.6 | 34 |
| 30 | Prolyl Oligopeptidase from the Blood Fluke Schistosoma mansoni: From Functional Analysis to Anti-schistosomal Inhibitors. PLoS Neglected Tropical Diseases, 2015, 9, e0003827. | 1.3 | 34 |
| 31 | Trypsin- and Chymotrypsin-Like Serine Proteases in Schistosoma mansoni â€” The Undiscovered Countryâ€™. PLoS Neglected Tropical Diseases, 2014, 8, e2766. | 1.3 | 31 |
| 32 | Excretion/secretion products from Schistosoma mansoni adults, eggs and schistosomula have unique peptidase specificity profiles. Biochimie, 2016, 122, 99-109. | 1.3 | 31 |
| 33 | Screening of acyl hydrazide proteinase inhibitors for antiparasitic activity against Trypanosoma brucei. International Journal of Antimicrobial Agents, 2002, 19, 227-231. | 1.1 | 30 |
| 34 | Cure of Hookworm Infection with a Cysteine Protease Inhibitor. PLoS Neglected Tropical Diseases, 2012, 6, e1680. | 1.3 | 28 |
| 35 | Cysteine proteases during larval migration and development of helminths in their final host. PLoS Neglected Tropical Diseases, 2018, 12, e0005919. | 1.3 | 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. | 1.3 | 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. | 1.8 | 25 |
| 38 | The QDREC web server: determining dose-response characteristics of complex macroparasites in phenotypic drug screens. Bioinformatics, 2015, 31, 1515-1518. | 1.8 | 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. | 1.3 | 20 |
| 40 | Multi-center screening of the Pathogen Box collection for schistosomiasis drug discovery. Parasites and Vectors, 2019, 12, 493. | 1.0 | 20 |
| 41 | Identification of anisomycin, prodigiosin and obatoclax as compounds with broad-spectrum anti-parasitic activity. PLoS Neglected Tropical Diseases, 2020, 14, e0008150. | 1.3 | 20 |
| 42 | Brain-penetrant Triazolopyrimidine and Phenylpyrimidine Microtubule Stabilizers as Potential Leads to Treat Human African Trypanosomiasis. ChemMedChem, 2018, 13, 1751-1754. | 1.6 | 19 |
| 43 | Discovery and characterization of trypanocidal cysteine protease inhibitors from the "malaria box"™. European Journal of Medicinal Chemistry, 2019, 179, 765-778. | 2.6 | 19 |
| 44 | Structure-Based Optimization of Quinazolines as Cruzain and <i>Tbr</i> CATL Inhibitors. Journal of Medicinal Chemistry, 2021, 64, 13054-13071. | 2.9 | 19 |
| 45 | Cruzain Inhibitory Activity of Leaf Essential Oils of Neotropical Lauraceae and Essential Oil Components. Natural Product Communications, 2007, 2, 1934578X0700201. | 0.2 | 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. | 1.3 | 18 |
| 47 | A Machine Learning Strategy for Drug Discovery Identifies Anti-Schistosomal Small Molecules. ACS Infectious Diseases, 2021, 7, 406-420. | 1.8 | 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. | 1.1 | 16 |
| 49 | A multi-dimensional, time-lapse, high content screening platform applied to schistosomiasis drug discovery. Communications Biology, 2020, 3, 747. | 2.0 | 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. | 1.4 | 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. | 0.5 | 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. | 1.0 | 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. | 1.5 | 13 |
| 54 | Antiparasitic Properties of Propolis Extracts and Their Compounds. Chemistry and Biodiversity, 2021, 18, e2100310. | 1.0 | 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. | 1.8 | 12 |
| 56 | Novel and selective inactivators of Triosephosphate isomerase with anti-trematode activity. <i>Scientific Reports</i> , 2020, 10, 2587. | 1.6 | 12 |
| 57 | Hit-to-Lead Optimization of Benzoxazepinoindazoles As Human African Trypanosomiasis Therapeutics. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 2527-2546. | 2.9 | 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. | 1.6 | 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. | 2.9 | 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. | 1.7 | 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. | 1.8 | 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. | 1.8 | 9 |
| 63 | Should the enzyme name "rhodesain" be discontinued?. <i>Molecular and Biochemical Parasitology</i> , 2021, 245, 111395. | 0.5 | 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. | 2.6 | 8 |
| 65 | Odanacatib, a Cathepsin K Cysteine Protease Inhibitor, Kills Hookworm In Vivo. <i>Pharmaceuticals</i> , 2016, 9, 39. | 1.7 | 7 |
| 66 | Benzimidazole inhibitors of the major cysteine protease of <i>Trypanosoma brucei</i> . <i>Future Medicinal Chemistry</i> , 2019, 11, 1537-1551. | 1.1 | 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. | 1.0 | 7 |
| 68 | 3-O-(3-Hydroxytetradecanoyl)lupeol from <i>Sorocea trophoides</i> Inhibits Cruzain. <i>Natural Product Communications</i> , 2007, 2, 1934578X0700200. | 0.2 | 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, . | 1.2 | 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. | 2.5 | 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. | 1.8 | 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. | 2.9 | 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. | 0.2 | 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. | 0.2 | 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. | 1.3 | 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. | 1.0 | 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. | 1.8 | 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. | 1.3 | 3 |
| 79 | Biomechanical interactions of <i>Schistosoma mansoni</i> eggs with vascular endothelial cells facilitate egg extravasation. <i>PLoS Pathogens</i> , 2022, 18, e1010309. | 2.1 | 3 |
| 80 | Structure–Bioactivity Relationships of Lapatinib Derived Analogs against <i>Schistosoma mansoni</i> . <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 258-265. | 1.3 | 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. | 0.6 | 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, . | 1.6 | 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 |