Matthias Rottmann

List of Publications by Year
in descending order

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Version: 2024-02-01

53	4,404	159585 30	155660 55
papers	citations	h-index	g-index

57	57	57	5666
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Translation of liver stage activity of M5717, a PlasmodiumÂelongation factor 2 inhibitor: from bench to bedside. Malaria Journal, 2022, 21, 151.	2.3	3
2	Parasite Viability as a Measure of In Vivo Drug Activity in Preclinical and Early Clinical Antimalarial Drug Assessment. Antimicrobial Agents and Chemotherapy, 2022, 66, .	3.2	3
3	Search for the Active Ingredients from a 2â€Aminothiazole DMSO Stock Solution with Antimalarial Activity. ChemMedChem, 2021, 16, 2089-2093.	3.2	2
4	Assessment of the rules related to gaining activity against Gram-negative bacteria. RSC Medicinal Chemistry, 2021, 12, 593-601.	3.9	7
5	Targeting the IspD Enzyme in the MEP Pathway: Identification of a Novel Fragment Class. ChemMedChem, 2021, , e202100679.	3.2	4
6	Ensemble modeling highlights importance of understanding parasite-host behavior in preclinical antimalarial drug development. Scientific Reports, 2020, 10, 4410.	3.3	10
7	Lerisetron Analogues with Antimalarial Properties: Synthesis, Structureâ€“Activity Relationship Studies, and Biological Assessment. ACS Omega, 2020, 5, 6967-6982.	3.5	10
8	Dual Plasmepsin-Targeting Antimalarial Agents Disrupt Multiple Stages of the Malaria Parasite Life Cycle. Cell Host and Microbe, 2020, 27, 642-658.e12.	11.0	94
9	Preclinical Antimalarial Combination Study of M5717, a Plasmodium falciparum Elongation Factor 2 Inhibitor, and Pyronaridine, a Hemozoin Formation Inhibitor. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	30
10	Flexible 3D Cell-Based Platforms for the Discovery and Profiling of Novel Drugs Targeting Plasmodium Hepatic Infection. ACS Infectious Diseases, 2019, 5, 1831-1842.	3.8	25
11	Lysyl-tRNA synthetase as a drug target in malaria and cryptosporidiosis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7015-7020.	7.1	94
12	Potent Inhibitors of Plasmodial Serine Hydroxymethyltransferase (SHMT) Featuring a Spirocyclic Scaffold. ChemMedChem, 2018, 13, 931-943.	3.2	21
13	Machine learning prioritizes synthesis of primaquine ureidoamides with high antimalarial activity and attenuated cytotoxicity. European Journal of Medicinal Chemistry, 2018, 146, 651-667.	5.5	11
14	Polyamidoamine Nanoparticles for the Oral Administration of Antimalarial Drugs. Pharmaceutics, 2018, 10, 225.	4.5	17
15	Cell Penetration, Herbicidal Activity, and inâ€vivoâ€Toxicity of Oligoâ€Arginine Derivatives and of Novel Guanidiniumâ€Rich Compounds Derived from the Biopolymer Cyanophycin. Helvetica Chimica Acta, 2018, 101, e1800112.	1.6	17
16	Antimalarial Inhibitors Targeting Serine Hydroxymethyltransferase (SHMT) with in Vivo Efficacy and Analysis of their Binding Mode Based on X-ray Cocrystal Structures. Journal of Medicinal Chemistry, 2017, 60, 4840-4860.	6.4	40
17	Conformational Aspects in the Design of Inhibitors for Serine Hydroxymethyltransferase (SHMT): Biphenyl, Aryl Sulfonamide, and Aryl Sulfone Motifs. Chemistry - A European Journal, 2017, 23, 14345-14357.	3.3	20
18	An amphiphilic graft copolymer-based nanoparticle platform for reduction-responsive anticancer and antimalarial drug delivery. Nanoscale, 2016, 8, 14858-14869.	5.6	33

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19	Gift from Nature: Cyclomarinâ€…A Kills Mycobacteria and Malaria Parasites by Distinct Modes of Action. ChemBioChem, 2015, 16, 2433-2436.	2.6	40
20	Pharmacokinetic-Pharmacodynamic Analysis of Spiroindolone Analogs and KAE609 in a Murine Malaria Model. Antimicrobial Agents and Chemotherapy, 2015, 59, 1200-1210.	3.2	15
21	Inhibitors of Plasmodial Serine Hydroxymethyltransferase (SHMT): Cocrystal Structures of Pyrazolopyrans with Potent Blood- and Liver-Stage Activities. Journal of Medicinal Chemistry, 2015, 58, 3117-3130.	6.4	46
22	KAF156 Is an Antimalarial Clinical Candidate with Potential for Use in Prophylaxis, Treatment, and Prevention of Disease Transmission. Antimicrobial Agents and Chemotherapy, 2014, 58, 5060-5067.	3.2	122
23	Pseudilins: Halogenated, Allosteric Inhibitors of the Nonâ€Mevalonate Pathway Enzyme IspD. Angewandte Chemie - International Edition, 2014, 53, 2235-2239.	13.8	53
24	Use of poly(amidoamine) drug conjugates for the delivery of antimalarials to Plasmodium. Journal of Controlled Release, 2014, 177, 84-95.	9.9	66
25	Heterochromatin Protein 1 Secures Survival and Transmission of Malaria Parasites. Cell Host and Microbe, 2014, 16, 165-176.	11.0	225
26	Deorphaning Pyrrolopyrazines as Potent Multiâ€Target Antimalarial Agents. Angewandte Chemie - International Edition, 2014, 53, 7079-7084.	13.8	30
27	Characterization of a Serine Hydrolase Targeted by Acyl-protein Thioesterase Inhibitors in Toxoplasma gondii. Journal of Biological Chemistry, 2013, 288, 27002-27018.	3.4	23
28	Targeting Plasmodium PI(4)K to eliminate malaria. Nature, 2013, 504, 248-253.	27.8	377
29	Potent Inhibitors of Malarial Aspartic Proteases, the Plasmepsins, by Hydroformylation of Substituted 7â€Azanorbornenes. Chemistry - A European Journal, 2013, 19, 155-164.	3.3	14
30	Optimization of Triazine Nitriles as Rhodesain Inhibitors: Structureâ€“Activity Relationships, Bioisosteric Imidazopyridine Nitriles, and Xâ€ray Crystal Structure Analysis with Human Cathepsinâ€…L. ChemMedChem, 2013, 8, 967-975.	3.2	45
31	Agrochemicals against Malaria, Sleeping Sickness, Leishmaniasis and Chagas Disease. PLoS Neglected Tropical Diseases, 2012, 6, e1805.	3.0	54
32	Tuning and predicting biological affinity: aryl nitriles as cysteine protease inhibitors. Organic and Biomolecular Chemistry, 2012, 10, 5764.	2.8	49
33	Antiparasitic agents: new drugs on the horizon. Current Opinion in Pharmacology, 2012, 12, 562-566.	3.5	72
34	Genetic diversity of expressed Plasmodium falciparum var genes from Tanzanian children with severe malaria. Malaria Journal, 2012, 11, 230.	2.3	14
35	Optimization of 4-Aminoquinoline/Clotrimazole-Based Hybrid Antimalarials: Further Structureâ€“Activity Relationships, in Vivo Studies, and Preliminary Toxicity Profiling. Journal of Medicinal Chemistry, 2012, 55, 6948-6967.	6.4	43
36	Imidazolopiperazines: Lead Optimization of the Second-Generation Antimalarial Agents. Journal of Medicinal Chemistry, 2012, 55, 4244-4273.	6.4	83

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37	Identification of 1,3â€Ðiiminoisoindoline Carbohydrazides as Potential Antimalarial Candidates. ChemMedChem, 2012, 7, 151-158.	3.2	16
38	Imaging of Plasmodium Liver Stages to Drive Next-Generation Antimalarial Drug Discovery. Science, 2011, 334, 1372-1377.	12.6	308
39	Lagunamide C, a cytotoxic cyclodepsipeptide from the marine cyanobacterium Lyngbya majuscula. Phytochemistry, 2011, 72, 2369-2375.	2.9	97
40	Imidazolopiperazines: Hit to Lead Optimization of New Antimalarial Agents. Journal of Medicinal Chemistry, 2011, 54, 5116-5130.	6.4	91
41	Potent and Selective Inhibition of Cysteine Proteases from Plasmodium falciparum and Trypanosoma brucei. ChemMedChem, 2011, 6, 273-278.	3.2	29
42	Antimalarial Mannoxanes: Hybrid Antimalarial Drugs with Outstanding Oral Activity Profiles and A Potential Dual Mechanism of Action. ChemMedChem, 2011, 6, 1357-1361.	3.2	25
43	Preclinical Evaluation of the Antifolate QN254, 5-Chloro-Nâ€²6â€²-(2,5-Dimethoxy-Benzyl)-Quinazoline-2,4,6-Triamine, as an Antimalarial Drug Candidate. Antimicrobial Agents and Chemotherapy, 2010, 54, 2603-2610.	3.2	25
44	Spiroindolones, a Potent Compound Class for the Treatment of Malaria. Science, 2010, 329, 1175-1180.	12.6	1,031
45	DifferentialvarGene Expression in Children with Malaria and Antidromic Effects on Host Gene Expression. Journal of Infectious Diseases, 2010, 202, 313-317.	4.0	30
46	Lagunamides A and B: Cytotoxic and Antimalarial Cyclodepsipeptides from the Marine Cyanobacterium Lyngbya majuscula. Journal of Natural Products, 2010, 73, 1810-1814.	3.0	127
47	Spirotetrahydro Î²-Carbolines (Spiroindolones): A New Class of Potent and Orally Efficacious Compounds for the Treatment of Malaria. Journal of Medicinal Chemistry, 2010, 53, 5155-5164.	6.4	381
48	Antimalarial activities of ferroquine conjugates with either glutathione reductase inhibitors or glutathione depletors via a hydrolyzable amide linker. Bioorganic and Medicinal Chemistry, 2009, 17, 8048-8059.	3.0	52
49	Combining 4-Aminoquinoline- and Clotrimazole-Based Pharmacophores toward Innovative and Potent Hybrid Antimalarials. Journal of Medicinal Chemistry, 2009, 52, 502-513.	6.4	55
50	Malaria-Infected Mice Are Cured by Oral Administration of New Artemisinin Derivatives. Journal of Medicinal Chemistry, 2008, 51, 1035-1042.	6.4	54
51	Differential Expression of var Gene Groups Is Associated with Morbidity Caused by Plasmodium falciparum Infection in Tanzanian Children. Infection and Immunity, 2006, 74, 3904-3911.	2.2	180
52	The Loop Region Covering the Iron-Sulfur Cluster in Bovine Adrenodoxin Comprises a New Interaction Site for Redox Partners. Journal of Biological Chemistry, 2001, 276, 1369-1375.	3.4	37
53	Vertebrate-type and plant-type ferredoxins: crystal structure comparison and electron transfer pathway modelling. Journal of Molecular Biology, 1999, 294, 501-513.	4.2	44