

Matthias Rottmann

List of Publications by Year in descending order

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53
papers

4,404
citations

159585

30
h-index

155660

55
g-index

57
all docs

57
docs citations

57
times ranked

5666
citing authors

#	ARTICLE	IF	CITATIONS
1	Spiroindolones, a Potent Compound Class for the Treatment of Malaria. <i>Science</i> , 2010, 329, 1175-1180.	12.6	1,031
2	Spirotetrahydro \hat{I}^2 -Carbolines (Spiroindolones): A New Class of Potent and Orally Efficacious Compounds for the Treatment of Malaria. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 5155-5164.	6.4	381
3	Targeting Plasmodium PI(4)K to eliminate malaria. <i>Nature</i> , 2013, 504, 248-253.	27.8	377
4	Imaging of <i>Plasmodium</i> Liver Stages to Drive Next-Generation Antimalarial Drug Discovery. <i>Science</i> , 2011, 334, 1372-1377.	12.6	308
5	Heterochromatin Protein 1 Secures Survival and Transmission of Malaria Parasites. <i>Cell Host and Microbe</i> , 2014, 16, 165-176.	11.0	225
6	Differential Expression of var Gene Groups Is Associated with Morbidity Caused by <i>Plasmodium falciparum</i> Infection in Tanzanian Children. <i>Infection and Immunity</i> , 2006, 74, 3904-3911.	2.2	180
7	Lagunamides A and B: Cytotoxic and Antimalarial Cyclodepsipeptides from the Marine Cyanobacterium <i>Lyngbya majuscula</i> . <i>Journal of Natural Products</i> , 2010, 73, 1810-1814.	3.0	127
8	KAF156 Is an Antimalarial Clinical Candidate with Potential for Use in Prophylaxis, Treatment, and Prevention of Disease Transmission. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 5060-5067.	3.2	122
9	Lagunamide C, a cytotoxic cyclodepsipeptide from the marine cyanobacterium <i>Lyngbya majuscula</i> . <i>Phytochemistry</i> , 2011, 72, 2369-2375.	2.9	97
10	Lysyl-tRNA synthetase as a drug target in malaria and cryptosporidiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7015-7020.	7.1	94
11	Dual Plasmepsin-Targeting Antimalarial Agents Disrupt Multiple Stages of the Malaria Parasite Life Cycle. <i>Cell Host and Microbe</i> , 2020, 27, 642-658.e12.	11.0	94
12	Imidazolopiperazines: Hit to Lead Optimization of New Antimalarial Agents. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 5116-5130.	6.4	91
13	Imidazolopiperazines: Lead Optimization of the Second-Generation Antimalarial Agents. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 4244-4273.	6.4	83
14	Antiparasitic agents: new drugs on the horizon. <i>Current Opinion in Pharmacology</i> , 2012, 12, 562-566.	3.5	72
15	Use of poly(amidoamine) drug conjugates for the delivery of antimalarials to <i>Plasmodium</i> . <i>Journal of Controlled Release</i> , 2014, 177, 84-95.	9.9	66
16	Combining 4-Aminoquinoline- and Clotrimazole-Based Pharmacophores toward Innovative and Potent Hybrid Antimalarials. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 502-513.	6.4	55
17	Malaria-Infected Mice Are Cured by Oral Administration of New Artemisinin Derivatives. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 1035-1042.	6.4	54
18	Agrochemicals against Malaria, Sleeping Sickness, Leishmaniasis and Chagas Disease. <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1805.	3.0	54

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19	Pseudilins: Halogenated, Allosteric Inhibitors of the Non-Mevalonate Pathway Enzyme IspD. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2235-2239.	13.8	53
20	Antimalarial activities of ferroquine conjugates with either glutathione reductase inhibitors or glutathione depletors via a hydrolyzable amide linker. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 8048-8059.	3.0	52
21	Tuning and predicting biological affinity: aryl nitriles as cysteine protease inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 5764.	2.8	49
22	Inhibitors of Plasmodial Serine Hydroxymethyltransferase (SHMT): Cocrystal Structures of Pyrazolopyrans with Potent Blood- and Liver-Stage Activities. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 3117-3130.	6.4	46
23	Optimization of Triazine Nitriles as Rhodesain Inhibitors: Structure-Activity Relationships, Bioisosteric Imidazopyridine Nitriles, and X-ray Crystal Structure Analysis with Human Cathepsin...L. <i>ChemMedChem</i> , 2013, 8, 967-975.	3.2	45
24	Vertebrate-type and plant-type ferredoxins: crystal structure comparison and electron transfer pathway modelling. <i>Journal of Molecular Biology</i> , 1999, 294, 501-513.	4.2	44
25	Optimization of 4-Aminoquinoline/Clotrimazole-Based Hybrid Antimalarials: Further Structure-Activity Relationships, in Vivo Studies, and Preliminary Toxicity Profiling. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 6948-6967.	6.4	43
26	Gift from Nature: Cyclomarin...A Kills Mycobacteria and Malaria Parasites by Distinct Modes of Action. <i>ChemBioChem</i> , 2015, 16, 2433-2436.	2.6	40
27	Antimalarial Inhibitors Targeting Serine Hydroxymethyltransferase (SHMT) with in Vivo Efficacy and Analysis of their Binding Mode Based on X-ray Cocrystal Structures. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 4840-4860.	6.4	40
28	The Loop Region Covering the Iron-Sulfur Cluster in Bovine Adrenodoxin Comprises a New Interaction Site for Redox Partners. <i>Journal of Biological Chemistry</i> , 2001, 276, 1369-1375.	3.4	37
29	An amphiphilic graft copolymer-based nanoparticle platform for reduction-responsive anticancer and antimalarial drug delivery. <i>Nanoscale</i> , 2016, 8, 14858-14869.	5.6	33
30	Differential Gene Expression in Children with Malaria and Antidromic Effects on Host Gene Expression. <i>Journal of Infectious Diseases</i> , 2010, 202, 313-317.	4.0	30
31	Deorphaning Pyrrolopyrazines as Potent Multi-Target Antimalarial Agents. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7079-7084.	13.8	30
32	Preclinical Antimalarial Combination Study of M5717, a Plasmodium falciparum Elongation Factor 2 Inhibitor, and Pyronaridine, a Hemozoin Formation Inhibitor. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	30
33	Potent and Selective Inhibition of Cysteine Proteases from Plasmodium falciparum and Trypanosoma brucei. <i>ChemMedChem</i> , 2011, 6, 273-278.	3.2	29
34	Preclinical Evaluation of the Antifolate QN254, 5-Chloro-N-(2,5-Dimethoxy-Benzyl)-Quinazoline-2,4,6-Triamine, as an Antimalarial Drug Candidate. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 2603-2610.	3.2	25
35	Antimalarial Mannoxanes: Hybrid Antimalarial Drugs with Outstanding Oral Activity Profiles and A Potential Dual Mechanism of Action. <i>ChemMedChem</i> , 2011, 6, 1357-1361.	3.2	25
36	Flexible 3D Cell-Based Platforms for the Discovery and Profiling of Novel Drugs Targeting Plasmodium Hepatic Infection. <i>ACS Infectious Diseases</i> , 2019, 5, 1831-1842.	3.8	25

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37	Characterization of a Serine Hydrolase Targeted by Acyl-protein Thioesterase Inhibitors in <i>Toxoplasma gondii</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 27002-27018.	3.4	23
38	Potent Inhibitors of <i>Plasmodium</i> Serine Hydroxymethyltransferase (SHMT) Featuring a Spirocyclic Scaffold. <i>ChemMedChem</i> , 2018, 13, 931-943.	3.2	21
39	Conformational Aspects in the Design of Inhibitors for Serine Hydroxymethyltransferase (SHMT): Biphenyl, Aryl Sulfonamide, and Aryl Sulfone Motifs. <i>Chemistry - A European Journal</i> , 2017, 23, 14345-14357.	3.3	20
40	Polyamidoamine Nanoparticles for the Oral Administration of Antimalarial Drugs. <i>Pharmaceutics</i> , 2018, 10, 225.	4.5	17
41	Cell Penetration, Herbicidal Activity, and <i>In Vivo</i> Toxicity of Oligoarginine Derivatives and of Novel Guanidinium-Rich Compounds Derived from the Biopolymer Cyanophycin. <i>Helvetica Chimica Acta</i> , 2018, 101, e1800112.	1.6	17
42	Identification of 1,3-Diiminoindoline Carbohydrazides as Potential Antimalarial Candidates. <i>ChemMedChem</i> , 2012, 7, 151-158.	3.2	16
43	Pharmacokinetic-Pharmacodynamic Analysis of Spiroindolone Analogs and KAE609 in a Murine Malaria Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 1200-1210.	3.2	15
44	Genetic diversity of expressed <i>Plasmodium falciparum</i> var genes from Tanzanian children with severe malaria. <i>Malaria Journal</i> , 2012, 11, 230.	2.3	14
45	Potent Inhibitors of Malarial Aspartic Proteases, the Plasmepsins, by Hydroformylation of Substituted Azanorbornenes. <i>Chemistry - A European Journal</i> , 2013, 19, 155-164.	3.3	14
46	Machine learning prioritizes synthesis of primaquine ureidoamides with high antimalarial activity and attenuated cytotoxicity. <i>European Journal of Medicinal Chemistry</i> , 2018, 146, 651-667.	5.5	11
47	Ensemble modeling highlights importance of understanding parasite-host behavior in preclinical antimalarial drug development. <i>Scientific Reports</i> , 2020, 10, 4410.	3.3	10
48	Lerisetron Analogues with Antimalarial Properties: Synthesis, Structure-Activity Relationship Studies, and Biological Assessment. <i>ACS Omega</i> , 2020, 5, 6967-6982.	3.5	10
49	Assessment of the rules related to gaining activity against Gram-negative bacteria. <i>RSC Medicinal Chemistry</i> , 2021, 12, 593-601.	3.9	7
50	Targeting the IspD Enzyme in the MEP Pathway: Identification of a Novel Fragment Class. <i>ChemMedChem</i> , 2021, , e202100679.	3.2	4
51	Translation of liver stage activity of M5717, a <i>Plasmodium</i> Elongation factor 2 inhibitor: from bench to bedside. <i>Malaria Journal</i> , 2022, 21, 151.	2.3	3
52	Parasite Viability as a Measure of <i>In Vivo</i> Drug Activity in Preclinical and Early Clinical Antimalarial Drug Assessment. <i>Antimicrobial Agents and Chemotherapy</i> , 2022, 66, .	3.2	3
53	Search for the Active Ingredients from a Aminothiazole DMSO Stock Solution with Antimalarial Activity. <i>ChemMedChem</i> , 2021, 16, 2089-2093.	3.2	2