Maria Belen Cassera

List of Publications by Year
in descending order

77 papers	2,125 citations	236925 25 h-index	265206 42 g-index
81 all docs	81 docs citations	81 times ranked	3172 citing authors

#	Article	IF	Citations
1	Open Source Drug Discovery with the Malaria Box Compound Collection for Neglected Diseases and Beyond. PLoS Pathogens, 2016, 12, e1005763.	4.7	244
2	Purine and Pyrimidine Pathways as Targets in Plasmodium falciparum. Current Topics in Medicinal Chemistry, 2011, 11, 2103-2115.	2.1	121
3	The Methylerythritol Phosphate Pathway Is Functionally Active in All Intraerythrocytic Stages of Plasmodium falciparum. Journal of Biological Chemistry, 2004, 279, 51749-51759.	3.4	116
4	Antiapicoplast and Gametocytocidal Screening To Identify the Mechanisms of Action of Compounds within the Malaria Box. Antimicrobial Agents and Chemotherapy, 2014, 58, 811-819.	3.2	91
5	Cyclic di-GMP Modulates Gene Expression in Lyme Disease Spirochetes at the Tick-Mammal Interface To Promote Spirochete Survival during the Blood Meal and Tick-to-Mammal Transmission. Infection and Immunity, 2015, 83, 3043-3060.	2.2	86
6	Nanomolar Antimalarial Agents against Chloroquine-Resistant Plasmodium falciparum from Medicinal Plants and Their Structureâ€“Activity Relationships. Journal of Natural Products, 2017, 80, 96-107.	3.0	77
7	Growth and Metastases of Human Lung Cancer Are Inhibited in Mouse Xenografts by a Transition State Analogue of 5â€²-Methylthioadenosine Phosphorylase. Journal of Biological Chemistry, 2011, 286, 4902-4911.	3.4	60
8	Acyclic Immucillin Phosphonates: Second-Generation Inhibitors of Plasmodium falciparum Hypoxanthine- Guanine-Xanthine Phosphoribosyltransferase. Chemistry and Biology, 2012, 19, 721-730.	6.0	59
9	Plasmodium falciparum Parasites Are Killed by a Transition State Analogue of Purine Nucleoside Phosphorylase in a Primate Animal Model. PLoS ONE, 2011, 6, e26916.	2.5	58
10	Fortunoids Aâ€“C, Three Sesquiterpenoid Dimers with Different Carbon Skeletons from Chloranthus fortunei. Organic Letters, 2017, 19, 734-737.	4.6	58
11	Metabolomic profiling reveals a finely tuned, starvation-induced metabolic switch in Trypanosoma cruzi epimastigotes. Journal of Biological Chemistry, 2017, 292, 8964-8977.	3.4	58
12	Euphorbesulins Aâ€“P, Structurally Diverse Diterpenoids from Euphorbia esula. Journal of Natural Products, 2016, 79, 1952-1961.	3.0	45
13	Antimalarial 5,6-Dihydro-Î±-pyrones from Cryptocarya rigidifolia: Related Bicyclic Tetrahydro-Î±-Pyrones Are Artifacts1. Journal of Natural Products, 2015, 78, 1330-1338.	3.0	44
14	Antiproliferative and Antiplasmodial Dimeric Phloroglucinols from Mallotus oppositifolius from the Madagascar Dry Forest. Journal of Natural Products, 2013, 76, 388-393.	3.0	43
15	Aphadilactones Aâ€“D, Four Diterpenoid Dimers with DGAT Inhibitory and Antimalarial Activities from a Meliaceae Plant. Journal of Organic Chemistry, 2014, 79, 599-607.	3.2	43
16	Erythrocytic Adenosine Monophosphate as an Alternative Purine Source in Plasmodium falciparum. Journal of Biological Chemistry, 2008, 283, 32889-32899.	3.4	40
17	Isoprenoid Precursor Biosynthesis Is the Essential Metabolic Role of the Apicoplast during Gametocytogenesis in Plasmodium falciparum. Eukaryotic Cell, 2015, 14, 128-139.	3.4	39
18	A Solanesyl-diphosphate Synthase Localizes in Glycosomes of Trypanosoma cruzi. Journal of Biological Chemistry, 2006, 281, 39339-39348.	3.4	35

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19	Biological Studies and Target Engagement of the 2-C-Methyl-<scp>d</scp>-Erythritol 4-Phosphate Cytidylyltransferase (IspD)-Targeting Antimalarial Agent (1R,3S)-MMV008138 and Analogs. ACS Infectious Diseases, 2018, 4, 549-559.	3.8	33
20	Transport of purines and purine salvage pathway inhibitors by the Plasmodium falciparum equilibrative nucleoside transporter PfENT1. Molecular and Biochemical Parasitology, 2010, 169, 40-49.	1.1	31
21	Isolation of antiplasmodial anthraquinones from Kniphofia ensifolia, and synthesis and structureâ€“activity relationships of related compounds. Bioorganic and Medicinal Chemistry, 2014, 22, 269-276.	3.0	30
22	Trichloranoids Aâ€“D, antimalarial sesquiterpenoid trimers from Chloranthus spicatus. Organic Chemistry Frontiers, 2021, 8, 1795-1801.	4.5	29
23	Effect of fosmidomycin on metabolic and transcript profiles of the methylerythritol phosphate pathway in Plasmodium falciparum. Memorias Do Instituto Oswaldo Cruz, 2007, 102, 377-384.	1.6	28
24	Generating S-Nitrosothiols from Hemoglobin. Journal of Biological Chemistry, 2013, 288, 22408-22425.	3.4	28
25	Antiplasmodial alkaloids from bulbs of Amaryllis belladonna Steud.. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 40-42.	2.2	27
26	Determination of the active stereoisomer of the MEP pathway-targeting antimalarial agent MMV008138, and initial structureâ€“activity studies. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 1515-1519.	2.2	24
27	Picomolar antimalarial agent from a Chinese medicinal plant. Science China Chemistry, 2022, 65, 82-86.	8.2	24
28	Luciferase-Based Assay for Adenosine: Application toS-Adenosyl-l-homocysteine Hydrolase. Analytical Chemistry, 2012, 84, 3593-3598.	6.5	23
29	Comprehensive quantitative analysis of purines and pyrimidines in the human malaria parasite using ion-pairing ultra-performance liquid chromatographyâ€“mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 967, 127-133.	2.3	23
30	Antiproliferative and antiplasmodial compounds from selected Streptomyces species. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 5646-5649.	2.2	23
31	Antiplasmodial Sesquiterpenoid Lactones from Trichospira verticillata: Structure Elucidation by Spectroscopic Methods and Comparison of Experimental and Calculated ECD Data. Journal of Natural Products, 2017, 80, 1639-1647.	3.0	23
32	Neolignans and Other Metabolites from Ocotea cymosa from the Madagascar Rain Forest and Their Biological Activities. Journal of Natural Products, 2015, 78, 431-440.	3.0	22
33	Antimalarial diterpenoid dimers of a new carbon skeleton from Aphanamixis grandifolia. Organic and Biomolecular Chemistry, 2016, 14, 957-962.	2.8	20
34	<scp>Cephalotaneâ€Type</scp> Norditerpenoids from Cephalotaxus fortunei var. alpina. Chinese Journal of Chemistry, 2022, 40, 1177-1184.	4.9	20
35	Antiproliferative Compounds from Cleistanthus boivinianus from the Madagascar Dry Forest1. Journal of Natural Products, 2015, 78, 1543-1547.	3.0	19
36	A role for adenine nucleotides in the sensing mechanism to purine starvation in Leishmania donovani. Molecular Microbiology, 2016, 101, 299-313.	2.5	19

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37	Transition State Analogues of Plasmodium falciparum and Human Orotate Phosphoribosyltransferases. Journal of Biological Chemistry, 2013, 288, 34746-34754.	3.4	18
38	Transition-State Analysis of Trypanosoma cruzi Uridine Phosphorylase-Catalyzed Arsenolysis of Uridine. Journal of the American Chemical Society, 2011, 133, 9923-9931.	13.7	17
39	Lysosomal cholesterol accumulation contributes to the movement phenotypes associated with NUS1 haploinsufficiency. Genetics in Medicine, 2021, 23, 1305-1314.	2.4	17
40	Inhibition and Structure of Toxoplasma gondii Purine Nucleoside Phosphorylase. Eukaryotic Cell, 2014, 13, 572-579.	3.4	16
41	Phloroglucinols from the Roots of Garcinia dauphinensis and Their Antiproliferative and Antiplasmodial Activities. Journal of Natural Products, 2019, 82, 431-439.	3.0	16
42	Metabolomics profiling reveals new aspects of dolichol biosynthesis in Plasmodium falciparum. Scientific Reports, 2020, 10, 13264.	3.3	16
43	Antiplasmodial Chromanes and Chromenes from the Monotypic Plant Species Koeberlinia spinosa. Journal of Natural Products, 2018, 81, 475-483.	3.0	15
44	Isolation, structure elucidation, and synthesis of antiplasmodial quinolones from Crinum firmifolium. Bioorganic and Medicinal Chemistry, 2017, 25, 4203-4211.	3.0	14
45	Limonoids from Cipadessa baccifera. Journal of Natural Products, 2020, 83, 1751-1765.	3.0	13
46	A High-Affinity Adenosine Kinase from Anopheles gambiae. Biochemistry, 2011, 50, 1885-1893.	2.5	12
47	Furoquinoline Alkaloids and Methoxyflavones from the Stem Bark of Melicope madagascariensis (Baker) T.G. Hartley. Natural Products and Bioprospecting, 2016, 6, 261-265.	4.3	12
48	Antiplasmodial phloroglucinol derivatives from Syncarpia glomulifera. Bioorganic and Medicinal Chemistry, 2016, 24, 2544-2548.	3.0	11
49	Antimalarial activity of the isolates from the marine sponge Hyrtios erectus against the chloroquine-resistant Dd2 strain of Plasmodium falciparum. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2018, 73, 397-400.	1.4	11
50	Resistance to Some But Not Other Dimeric Lindenane Sesquiterpenoid Esters Is Mediated by Mutations in a Plasmodium falciparum Esterase. ACS Infectious Diseases, 2020, 6, 2994-3003.	3.8	11
51	Bioactive Neolignans and Other Compounds from Magnolia grandiflora L.: Isolation and Antiplasmodial Activity. Chemistry and Biodiversity, 2017, 14, e1700209.	2.1	10
52	Antimalarial Natural Products. Progress in the Chemistry of Organic Natural Products, 2022, 117, 1-106.	1.1	10
53	Isolation of the New Antiplasmodial Butanolide, Malleastrumolide A, from Malleastrum sp. (Meliaceae) from Madagascar. Chemistry and Biodiversity, 2017, 14, e1700331.	2.1	9
54	Cipaferoids Aâ€“C, Three Limonoids Represent Two Different Scaffolds from Cipadessa baccifera. Chinese Journal of Chemistry, 2018, 36, 124-128.	4.9	9

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55	Bioactive compounds from Stuhlmannia moavi from the Madagascar dry forest. Bioorganic and Medicinal Chemistry, 2013, 21, 7591-7594.	3.0	8
56	Plasmodium vivax malaria elimination: should innovative ideas from the past be revisited?. Memorias Do Instituto Oswaldo Cruz, 2014, 109, 522-524.	1.6	8
57	New Bioactive Lupane Triterpene Coumaroyl Esters Isolated from Buxus cochinchinensis. Planta Medica, 2015, 81, 1133-1140.	1.3	8
58	Antiplasmodial flavanones and a stilbene from Carpha glomerata. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 3368-3371.	2.2	8
59	Metabolic dependency of chorismate in Plasmodium falciparum suggests an alternative source for the ubiquinone biosynthesis precursor. Scientific Reports, 2019, 9, 13936.	3.3	8
60	Quantification of nerolidol in mouse plasma using gas chromatographyâ€“mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2015, 111, 100-103.	2.8	7
61	Antiplasmodial Isoflavanes and Pterocarpans from Apoplanesia paniculata. Planta Medica, 2015, 81, 1128-1132.	1.3	7
62	Anibamine and Its Analogues: Potent Antiplasmodial Agents from Aniba citrifolia. Journal of Natural Products, 2020, 83, 569-577.	3.0	7
63	Antimalarial diterpenoids from Vitex rotundifolia: Isolation, structure elucidation, and in vitro antiplasmodial activity. Bioorganic Chemistry, 2020, 100, 103925.	4.1	7
64	Structurally Interesting Diarymethane Derivatives from Securidaca inappendiculata. Chinese Journal of Chemistry, 2020, 38, 812-816.	4.9	7
65	Probing the B- & C-rings of the antimalarial tetrahydro-Î²-carboline MMV008138 for steric and conformational constraints. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127520.	2.2	6
66	Malaria Box-Inspired Discovery of N-Aminoalkyl-Î²-carboline-3-carboxamides, a Novel Orally Active Class of Antimalarials. ACS Medicinal Chemistry Letters, 2022, 13, 365-370.	2.8	6
67	Alkyne modified purines for assessment of activation of Plasmodium vivax hypnozoites and growth of pre-erythrocytic and erythrocytic stages in Plasmodium spp. International Journal for Parasitology, 2022, , .	3.1	6
68	Galtonosides Aâ€“E: Antiproliferative and Antiplasmodial Cholestane Glycosides from Galtonia regalis. Journal of Natural Products, 2020, 83, 1043-1050.	3.0	5
69	Flavanones from the Twigs and Barks of <i>Artocarpus lakoocha</i> Having Antiplasmodial and Anti-TB Activities. Chemical and Pharmaceutical Bulletin, 2020, 68, 671-674.	1.3	5
70	Enantiopure Benzofuran-2-carboxamides of 1-Aryltetrahydro-Î²-carbolines Are Potent Antimalarials In Vitro. ACS Medicinal Chemistry Letters, 2022, 13, 371-376.	2.8	5
71	Antiproliferative and Antimalarial Sesquiterpene Lactones from Piptocoma antillana from Puerto Rico [1]. Natural Product Communications, 2014, 9, 1934578X1400901.	0.5	4
72	Antiplasmodial Diterpenoids and a Benzotropolone from Petradoria pumila. Journal of Natural Products, 2018, 81, 1260-1265.	3.0	4

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73	Isolation and characterization of antiplasmodial constituents from the marine sponge Coscinoderma sp.. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2019, 74, 313-318.	1.4	4
74	A New Bioactive Diterpene Glycoside from Molinaea Retusa from the Madagascar Dry Forest. Natural Product Communications, 2013, 8, 1934578X1300800.	0.5	2
75	New Antiplasmodial Diterpenes from Gutierrezia sarothrae. Natural Product Communications, 2016, 11, 719-21.	0.5	2
76	New Antiplasmodial Diterpenes from Gutierrezia Sarothrae. Natural Product Communications, 2016, 11, 1934578X1601100.	0.5	1
77	Natural Products as a Source to Discover Novel Drug Targets in P. falciparum. FASEB Journal, 2018, 32, 656.22.	0.5	0