Jonathan L Vennerstrom

List of Publications by Year
in descending order

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101 papers	5,173 citations	94433 37 h-index	88630 70 g-index
107 all docs	107 docs citations	107 times ranked	4179 citing authors

#	Article	IF	Citations
1	Identification of an antimalarial synthetic trioxolane drug development candidate. Nature, 2004, 430, 900-904.	27.8	584
2	Oxidative stress in malaria parasite-infected erythrocytes: hostâ€“parasite interactions. International Journal for Parasitology, 2004, 34, 163-189.	3.1	534
3	Synthetic ozonide drug candidate OZ439 offers new hope for a single-dose cure of uncomplicated malaria. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4400-4405.	7.1	332
4	Synthetic peroxides as antimalarials. Medicinal Research Reviews, 2004, 24, 425-448.	10.5	255
5	In Vitro and In Vivo Activities of Synthetic Trioxolanes against Major Human Schistosome Species. Antimicrobial Agents and Chemotherapy, 2007, 51, 1440-1445.	3.2	168
6	Dispiro-1,2,4,5-tetraoxanes: a new class of antimalarial peroxides. Journal of Medicinal Chemistry, 1992, 35, 3023-3027.	6.4	165
7	Spiro and Dispiro-1,2,4-trioxolanes as Antimalarial Peroxides:Â Charting a Workable Structureâ^'Activity Relationship Using Simple Prototypes. Journal of Medicinal Chemistry, 2005, 48, 4953-4961.	6.4	112
8	Dispiro-1,2,4-trioxane Analogues of a Prototype Dispiro-1,2,4-trioxolane:Â Mechanistic Comparators for Artemisinin in the Context of Reaction Pathways with Iron(II). Journal of Organic Chemistry, 2005, 70, 5103-5110.	3.2	107
9	Relationship between Antimalarial Activity and Heme Alkylation for Spiro- and Dispiro-1,2,4-Trioxolane Antimalarials. Antimicrobial Agents and Chemotherapy, 2008, 52, 1291-1296.	3.2	104
10	The Structureâ^'Activity Relationship of the Antimalarial Ozonide Arterolane (OZ277). Journal of Medicinal Chemistry, 2010, 53, 481-491.	6.4	99
11	Firstâ€inâ€man safety and pharmacokinetics of synthetic ozonide <scp>OZ439</scp> demonstrates an improved exposure profile relative to other peroxide antimalarials. British Journal of Clinical Pharmacology, 2013, 75, 535-548.	2.4	98
12	Synthesis and Antimalarial Activity of 11 Dispiro-1,2,4,5-tetraoxane Analogues of WR 148999. 7,8,15,16-Tetraoxadispiro[5.2.5.2]hexadecanes Substituted at the 1 and 10 Positions with Unsaturated and Polar Functional Groups. Journal of Medicinal Chemistry, 1999, 42, 1477-1480.	6.4	97
13	8-Aminoquinolines Active against Blood Stage <i>Plasmodium falciparum</i> In Vitro Inhibit Hematin Polymerization. Antimicrobial Agents and Chemotherapy, 1999, 43, 598-602.	3.2	85
14	Synthesis and Antimalarial Activity of Sixteen Dispiro-1,2,4,5-tetraoxanes:â€‰ Alkyl-Substituted 7,8,15,16-Tetraoxadispiro[5.2.5.2]hexadecanes. Journal of Medicinal Chemistry, 2000, 43, 2753-2758.	6.4	83
15	Clinically Available Medicines Demonstrating Anti-Toxoplasma Activity. Antimicrobial Agents and Chemotherapy, 2015, 59, 7161-7169.	3.2	83
16	Comparative Antimalarial Activities and ADME Profiles of Ozonides (1,2,4-trioxolanes) OZ277, OZ439, and Their 1,2-Dioxolane, 1,2,4-Trioxane, and 1,2,4,5-Tetraoxane Isosteres. Journal of Medicinal Chemistry, 2013, 56, 2547-2555.	6.4	81
17	Peroxide Bond-Dependent Antiplasmodial Specificity of Artemisinin and OZ277 (RBx11160). Antimicrobial Agents and Chemotherapy, 2007, 51, 2991-2993.	3.2	80
18	Synthesis of Tetrasubstituted Ozonides by the Griesbaum Coozonolysis Reaction:Â Diastereoselectivity and Functional Group Transformations by Post-Ozonolysis Reactions. Journal of Organic Chemistry, 2004, 69, 6470-6473.	3.2	77

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19	Anticancer Properties of Distinct Antimalarial Drug Classes. PLoS ONE, 2013, 8, e82962.	2.5	67
20	In VivoActivity of Aryl Ozonides against Schistosoma Species. Antimicrobial Agents and Chemotherapy, 2012, 56, 1090-1092.	3.2	64
21	Polyfluorinated Bis-styrylbenzene Î²-Amyloid Plaque Binding Ligands. Journal of Medicinal Chemistry, 2007, 50, 4986-4992.	6.4	63
22	Ironâ€mediated degradation kinetics of substituted dispiroâ€1,2,4â€trioxolane antimalarials. Journal of Pharmaceutical Sciences, 2007, 96, 2945-2956.	3.3	63
23	Effect of functional group polarity on the antimalarial activity of spiro and dispiro-1,2,4-trioxolanes. Bioorganic and Medicinal Chemistry, 2006, 14, 6368-6382.	3.0	62
24	Methyl-Substituted Dispiro-1,2,4,5-tetraoxanes:Â Correlations of Structural Studies with Antimalarial Activity. Journal of Medicinal Chemistry, 2000, 43, 1246-1249.	6.4	61
25	The synthetic peroxide OZ78 is effective against Echinostoma caproni and Fasciola hepatica. Journal of Antimicrobial Chemotherapy, 2006, 58, 1193-1197.	3.0	61
26	Probing the Antimalarial Mechanism of Artemisinin and OZ277 (Arterolane) with Nonperoxidic Isosteres and Nitroxyl Radicals. Antimicrobial Agents and Chemotherapy, 2010, 54, 1042-1046.	3.2	59
27	Docking Studies on Isoform-Specific Inhibition of Phosphoinositide-3-Kinases. Journal of Chemical Information and Modeling, 2010, 50, 1887-1898.	5.4	59
28	Weak base dispiro-1,2,4-trioxolanes: Potent antimalarial ozonides. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 1260-1265.	2.2	57
29	Antimalarial activity of N-alkyl amine, carboxamide, sulfonamide, and urea derivatives of a dispiro-1,2,4-trioxolane piperidine. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 5542-5545.	2.2	55
30	Praziquantel analogs with activity against juvenile Schistosoma mansoni. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 2481-2484.	2.2	55
31	Inhibition of Interleukin 2 Driven Proliferation of Mouse Ctll2 Cells, By Selected Carbamate and Organophosphate Insecticides and Congeners of Carbaryl. Immunopharmacology and Immunotoxicology, 1993, 15, 199-215.	2.4	54
32	Spiro- and Dispiro-1,2-dioxolanes:â€‰ Contribution of Iron(II)-Mediated One-Electron vs Two-Electron Reduction to the Activity of Antimalarial Peroxides. Journal of Medicinal Chemistry, 2007, 50, 5840-5847.	6.4	53
33	Bisquinolines. 2. Antimalarial N,N-Bis(7-chloroquinolin-4-yl)heteroalkanediamines. Journal of Medicinal Chemistry, 1998, 41, 4360-4364.	6.4	52
34	Structureâ€"Activity Relationship of the Antimalarial Ozonide Artefenomel (OZ439). Journal of Medicinal Chemistry, 2017, 60, 2654-2668.	6.4	52
35	Dispiro-1,2,4,5-tetraoxanes via Ozonolysis of CycloalkanoneO-Methyl Oximes:Â A Comparison with the Peroxidation of Cycloalkanones in Acetonitrileâ˘Sulfuric Acid Media. Journal of Organic Chemistry, 1998, 63, 8582-8585.	3.2	51
36	Activity of artemether and OZ78 against triclabendazole-resistant Fasciola hepatica. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2007, 101, 1219-1222.	1.8	48

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37	Structureâ˘'Activity Relationship of an Ozonide Carboxylic Acid (OZ78) againstFasciola hepatica. Journal of Medicinal Chemistry, 2010, 53, 4223-4233.	6.4	39
38	Phenolic Bis-styrylbenzenes as Î²-Amyloid Binding Ligands and Free Radical Scavengers. Journal of Medicinal Chemistry, 2010, 53, 7992-7999.	6.4	37
39	One-Pot, Metal-Free Conversion of Anilines to Aryl Bromides and Iodides. Organic Letters, 2017, 19, 2518-2521.	4.6	37
40	Characterization of the two major CYP450 metabolites of ozonide (1,2,4-trioxolane) OZ277. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 1555-1558.	2.2	36
41	Amino ozonides exhibit in vitro activity against Echinococcus multilocularis metacestodes. International Journal of Antimicrobial Agents, 2014, 43, 40-46.	2.5	35
42	Review of Experimental Compounds Demonstrating Anti-Toxoplasma Activity. Antimicrobial Agents and Chemotherapy, 2016, 60, 7017-7034.	3.2	34
43	Activity of OZ78 analogues against Fasciola hepatica and Echinostoma caproni. Acta Tropica, 2011, 118, 56-62.	2.0	30
44	The activity of dispiro peroxides against Fasciola hepatica. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 5320-5323.	2.2	30
45	Amine peroxides as potential antimalarials. Journal of Medicinal Chemistry, 1989, 32, 64-67.	6.4	28
46	CLONORCHICIDAL PROPERTIES OF THE SYNTHETIC TRIOXOLANE OZ78. Journal of Parasitology, 2007, 93, 1208-1213.	0.7	28
47	Spiroadamantyl 1,2,4-trioxolane, 1,2,4-trioxane, and 1,2,4-trioxepane pairs: Relationship between peroxide bond iron(II) reactivity, heme alkylation efficiency, and antimalarial activity. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 4542-4545.	2.2	27
48	Activities of <i>N</i> , <i>N</i> â€²-Diarylurea MMV665852 Analogs against Schistosoma mansoni. Antimicrobial Agents and Chemotherapy, 2015, 59, 1935-1941.	3.2	27
49	Monoclonal Antibodies That Recognize the Alkylation Signature of Antimalarial Ozonides OZ277 (Arterolane) and OZ439 (Artefenomel). ACS Infectious Diseases, 2016, 2, 54-61.	3.8	27
50	The structure and antimalarial activity of dispiro-1,2,4,5-tetraoxanes derived from (+)-dihydrocarvone. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 6359-6361.	2.2	26
51	Conformational Studies of Glucose Transporter 1 (GLUT1) as an Anticancer Drug Target. Molecules, 2019, 24, 2159.	3.8	25
52	Activity of antiandrogens against juvenile and adult Schistosoma mansoni in mice. Journal of Antimicrobial Chemotherapy, 2010, 65, 1991-1995.	3.0	24
53	Chemical Kinetics and Aqueous Degradation Pathways of a New Class of Synthetic Ozonide Antimalarials. Journal of Pharmaceutical Sciences, 2006, 95, 737-747.	3.3	23
54	Stochastic Protein Alkylation by Antimalarial Peroxides. ACS Infectious Diseases, 2019, 5, 2067-2075.	3.8	23

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55	Peroxide Antimalarial Drugs Target Redox Homeostasis in <i>Plasmodium falciparum</i> Infected Red Blood Cells. ACS Infectious Diseases, 2022, 8, 210-226.	3.8	23
56	Differentiation between 1,2,4,5â€tetraoxanes and 1,2,4,5,7,8â€hexaoxonanes using ¹H and ¹³C NMR analyses. Journal of Heterocyclic Chemistry, 2001, 38, 463-466.	2.6	22
57	Mechanisms ofin situactivation for peroxidic antimalarials. Redox Report, 2003, 8, 284-288.	4.5	22
58	Stability of Peroxide Antimalarials in the Presence of Human Hemoglobin. Antimicrobial Agents and Chemotherapy, 2009, 53, 3496-3500.	3.2	21
59	Revisiting the SAR of the Antischistosomal Aryl Hydantoin (Ro 13-3978). Journal of Medicinal Chemistry, 2016, 59, 10705-10718.	6.4	21
60	Efficacy, safety and pharmacokinetics of 1,2,4-trioxolane OZ78 against an experimental infection with Fasciola hepatica in sheep. Veterinary Parasitology, 2010, 173, 228-235.	1.8	19
61	Structureâ€"Activity Relationship of Antischistosomal Ozonide Carboxylic Acids. Journal of Medicinal Chemistry, 2020, 63, 3723-3736.	6.4	19
62	Aryl hydantoin Ro 13-3978, a broad-spectrum antischistosomal. Journal of Antimicrobial Chemotherapy, 2015, 70, 1788-1797.	3.0	18
63	Comparative Antimalarial Activities of Six Pairs of 1,2,4,5-Tetraoxanes (Peroxide Dimers) and 1,2,4,5,7,8-Hexaoxonanes (Peroxide Trimers). Antimicrobial Agents and Chemotherapy, 2007, 51, 3033-3035.	3.2	17
64	Physicochemical Characterization of Creatine<i>N</i>-Methylguanidinium Salts. Journal of Dietary Supplements, 2010, 7, 240-252.	2.6	17
65	Pharmacophore Refinement Guides the Design of Nanomolar-Range Botulinum Neurotoxin Serotype A Light Chain Inhibitors. ACS Medicinal Chemistry Letters, 2010, 1, 301-305.	2.8	16
66	Ozonide Antimalarials Alkylate Heme in the Malaria Parasite Plasmodium falciparum. ACS Infectious Diseases, 2019, 5, 2076-2086.	3.8	16
67	Effect of ozonide OZ418 against Schistosoma japonicum harbored in mice. Parasitology Research, 2014, 113, 3259-3266.	1.6	15
68	Therapeutic efficacy of antimalarial drugs targeting DosRS signaling in <i>Mycobacterium abscessus</i>. Science Translational Medicine, 2022, 14, eabj3860.	12.4	15
69	A one-pot synthesis of unsymmetrical bis-styrylbenzenes. Tetrahedron Letters, 2009, 50, 6228-6230.	1.4	14
70	The comparative antimalarial properties of weak base and neutral synthetic ozonides. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 563-566.	2.2	14
71	Progress in antischistosomal N,Nâ€²-diaryl urea SAR. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 244-248.	2.2	14
72	Peroxidic antimalarials. Expert Opinion on Therapeutic Patents, 2001, 11, 1753-1760.	5.0	13

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73	Comparative embryotoxicity of different antimalarial peroxides: In vitro study using the rat whole embryo culture model (WEC)â˜†. Reproductive Toxicology, 2010, 30, 583-590.	2.9	12
74	Absolute Oral Bioavailability of Creatine Monohydrate in Rats: Debunking a Myth. Pharmaceutics, 2018, 10, 31.	4.5	12
75	Inhibition of Cytomegalovirus Replication with Extended-Half-Life Synthetic Ozonides. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	12
76	pH-Dependent Stability of Creatine Ethyl Ester: Relevance to Oral Absorption. Journal of Dietary Supplements, 2013, 10, 241-251.	2.6	11
77	Ligand-based design of GLUT inhibitors as potential antitumor agents. Bioorganic and Medicinal Chemistry, 2020, 28, 115395.	3.0	9
78	Antischistosomal versus Antiandrogenic Properties of Aryl Hydantoin Ro 13-3978. American Journal of Tropical Medicine and Hygiene, 2014, 90, 1156-1158.	1.4	8
79	Title is missing!. Journal of Chemical Crystallography, 2002, 32, 133-139.	1.1	6
80	Derivatives of a benzoquinone acyl hydrazone with activity against Toxoplasma gondii. International Journal for Parasitology: Drugs and Drug Resistance, 2018, 8, 488-492.	3.4	6
81	Activity of diimidazoline amides against African trypanosomiasis. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 944-948.	2.2	5
82	Virtual screening and biological evaluation of PPARÎ³ antagonists as potential anti-prostate cancer agents. Bioorganic and Medicinal Chemistry, 2021, 46, 116368.	3.0	5
83	Tetrasubstituted pyrazinones derived from the reaction of praziquantel with N-bromosuccinimide. Tetrahedron Letters, 2014, 55, 4463-4465.	1.4	4
84	Antiprotozoal Selectivity of Diimidazoline <i>N</i>-Phenylbenzamides. ACS Infectious Diseases, 2015, 1, 135-139.	3.8	4
85	Synthesis of 2-Azaadamantan-6-one: A Missing Isomer. ACS Omega, 2018, 3, 11362-11367.	3.5	4
86	SAR of a new antischistosomal urea carboxylic acid. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 3648-3651.	2.2	4
87	Tricyclic Imidazolidin-4-ones by Witkop Oxidation of Tetrahydro-Î²-carbolines. Journal of Organic Chemistry, 2020, 85, 2846-2853.	3.2	4
88	Formation of 2-Imino Benzo[<i>e</i>]-1,3-oxazin-4-ones from Reactions of Salicylic Acids and Anilines with HATU: Mechanistic and Synthetic Studies. ACS Omega, 2018, 3, 781-787.	3.5	3
89	Efficacy, metabolism and pharmacokinetics of Ro 15-5458, a forgotten schistosomicidal 9-acridanone hydrazone. Journal of Antimicrobial Chemotherapy, 2020, 75, 2925-2932.	3.0	3
90	Cytochrome P450-Mediated Metabolism and CYP Inhibition for the Synthetic Peroxide Antimalarial OZ439. ACS Infectious Diseases, 2021, 7, 1885-1893.	3.8	3

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91	Antischistosomal tetrahydro-Î³-carboline sulfonamides. Bioorganic and Medicinal Chemistry Letters, 2022, 59, 128546.	2.2	3
92	Targeted Amino Acid Substitution Overcomes Scale-Up Challenges with the Human C5a-Derived Decapeptide Immunostimulant EP67. ACS Infectious Diseases, 2020, 6, 1169-1181.	3.8	2
93	Diaryl Ureas as an Antiprotozoal Chemotype. ACS Infectious Diseases, 2021, 7, 1578-1583.	3.8	2
94	Synthesis and antimalarial activity of amide and ester conjugates of siderophores and ozonides. BioMetals, 2022, , 1.	4.1	2
95	Treatment of a chemoresistant neuroblastoma cell line with the antimalarial ozonide OZ513. BMC Cancer, 2016, 16, 867.	2.6	1
96	A new chemotype with promise against Trypanosoma cruzi. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 126778.	2.2	1
97	Metabolic, Pharmacokinetic, and Activity Profile of the Liver Stage Antimalarial (RC-12). ACS Omega, 2022, 7, 12401-12411.	3.5	1
98	Synthetic Peroxides as Antimalarials. ChemInform, 2004, 35, no.	0.0	0
99	Oral Bioavailability of Creatine Supplements. , 2013, , 395-403.		0
100	Oral Bioavailability of Creatine Supplements. , 2019, , 595-604.		0
101	In Vitro Selection Implicates ROP1 as a Resistance Gene for an Experimental Therapeutic Benzoquinone Acyl Hydrazone in Toxoplasma gondii. Antimicrobial Agents and Chemotherapy, 2021, 65, .	3.2	0