

Wesley C Van Voorhis

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113 papers	3,683 citations	34 h-index	57 g-index
123 ext. papers	4,671 ext. citations	7.3 avg, IF	5.21 L-index

#	Paper	IF	Citations
113	Malaria medicines: a glass half full?. <i>Nature Reviews Drug Discovery</i> , 2015 , 14, 424-42	64.1	303
112	Malaria. <i>Nature Reviews Disease Primers</i> , 2017 , 3, 17050	51.1	250
111	SARS-CoV-2 immune evasion by the B.1.427/B.1.429 variant of concern. <i>Science</i> , 2021 , 373, 648-654	33.3	197
110	Open Source Drug Discovery with the Malaria Box Compound Collection for Neglected Diseases and Beyond. <i>PLoS Pathogens</i> , 2016 , 12, e1005763	7.6	167
109	Toxoplasma gondii calcium-dependent protein kinase 1 is a target for selective kinase inhibitors. <i>Nature Structural and Molecular Biology</i> , 2010 , 17, 602-7	17.6	144
108	Discovery of Potent and Selective Inhibitors of Calcium-Dependent Protein Kinase 1 (CDPK1) from C. parvum and T. gondii. <i>ACS Medicinal Chemistry Letters</i> , 2010 , 1, 331-335	4.3	110
107	Combining functional and structural genomics to sample the essential Burkholderia structome. <i>PLoS ONE</i> , 2013 , 8, e53851	3.7	93
106	Development of Toxoplasma gondii calcium-dependent protein kinase 1 (TgCDPK1) inhibitors with potent anti-toxoplasma activity. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 2416-26	8.3	88
105	Increasing the structural coverage of tuberculosis drug targets. <i>Tuberculosis</i> , 2015 , 95, 142-8	2.6	80
104	The tprK gene is heterogeneous among Treponema pallidum strains and has multiple alleles. <i>Infection and Immunity</i> , 2000 , 68, 824-31	3.7	75
103	Trypanosoma cruzi inactivation in human platelet concentrates and plasma by a psoralen (amotosalen HCl) and long-wavelength UV. <i>Antimicrobial Agents and Chemotherapy</i> , 2003 , 47, 475-9	5.9	71
102	Development of an Orally Available and Central Nervous System (CNS) Penetrant Toxoplasma gondii Calcium-Dependent Protein Kinase 1 (TgCDPK1) Inhibitor with Minimal Human Ether-a-go-go-Related Gene (hERG) Activity for the Treatment of Toxoplasmosis. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 6531-46	8.3	68
101	Immobilized metal-affinity chromatography protein-recovery screening is predictive of crystallographic structure success. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011 , 67, 998-1005		66
100	Molecular basis of immune evasion by the Delta and Kappa SARS-CoV-2 variants. <i>Science</i> , 2021 , eabl8506	33.3	65
99	High-throughput protein production and purification at the Seattle Structural Genomics Center for Infectious Disease. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011 , 67, 1010-4		62
98	Stabilizing additives added during cell lysis aid in the solubilization of recombinant proteins. <i>PLoS ONE</i> , 2012 , 7, e52482	3.7	57
97	Bumped kinase inhibitor 1294 treats established Toxoplasma gondii infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 3547-9	5.9	56

96	LYT1 protein is required for efficient in vitro infection by Trypanosoma cruzi. <i>Infection and Immunity</i> , 2001 , 69, 3916-23	3.7	50
95	Neospora caninum calcium-dependent protein kinase 1 is an effective drug target for neosporosis therapy. <i>PLoS ONE</i> , 2014 , 9, e92929	3.7	48
94	In Vitro and In Vivo Effects of the Bumped Kinase Inhibitor 1294 in the Related Cyst-Forming Apicomplexans Toxoplasma gondii and Neospora caninum. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 6361-74	5.9	47
93	Structural genomics of infectious disease drug targets: the SSGCID. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011 , 67, 979-84		47
92	Leishmania inactivation in human pheresis platelets by a psoralen (amotosalen HCl) and long-wavelength ultraviolet irradiation. <i>Transfusion</i> , 2005 , 45, 1459-63	2.9	46
91	Subfamily I Treponema pallidum repeat protein family: sequence variation and immunity. <i>Microbes and Infection</i> , 2004 , 6, 725-37	9.3	45
90	Multiple alleles of Treponema pallidum repeat gene D in Treponema pallidum isolates. <i>Journal of Bacteriology</i> , 2000 , 182, 2332-5	3.5	45
89	Development of potent and selective Plasmodium falciparum calcium-dependent protein kinase 4 (PfCDPK4) inhibitors that block the transmission of malaria to mosquitoes. <i>European Journal of Medicinal Chemistry</i> , 2014 , 74, 562-73	6.8	44
88	Novel Bumped Kinase Inhibitors Are Safe and Effective Therapeutics in the Calf Clinical Model for Cryptosporidiosis. <i>Journal of Infectious Diseases</i> , 2016 , 214, 1856-1864	7	43
87	Bumped-Kinase Inhibitors for Cryptosporidiosis Therapy. <i>Journal of Infectious Diseases</i> , 2017 , 215, 1275-1284	7	42
86	Potent and selective inhibitors of CDPK1 from and based on a 5-aminopyrazole-4-carboxamide scaffold. <i>ACS Medicinal Chemistry Letters</i> , 2014 , 5, 40-44	4.3	42
85	The gatekeeper residue and beyond: homologous calcium-dependent protein kinases as drug development targets for veterinarian Apicomplexa parasites. <i>Parasitology</i> , 2014 , 141, 1499-1509	2.7	40
84	Extended-spectrum antiprotozoal bumped kinase inhibitors: A review. <i>Experimental Parasitology</i> , 2017 , 180, 71-83	2.1	39
83	Virulence in Trypanosoma cruzi infection correlates with the expression of a distinct family of sialidase superfamily genes. <i>Molecular and Biochemical Parasitology</i> , 1999 , 98, 105-16	1.9	39
82	T-Cell responses to Treponema pallidum subsp. pallidum antigens during the course of experimental syphilis infection. <i>Infection and Immunity</i> , 1999 , 67, 4757-63	3.7	39
81	Benzoylbenzimidazole-based selective inhibitors targeting Cryptosporidium parvum and Toxoplasma gondii calcium-dependent protein kinase-1. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 5264-7	2.9	38
80	Function and protective capacity of Treponema pallidum subsp. pallidum glycerophosphodiester phosphodiesterase. <i>Infection and Immunity</i> , 1998 , 66, 5763-70	3.7	36
79	Necessity of Bumped Kinase Inhibitor Gastrointestinal Exposure in Treating Cryptosporidium Infection. <i>Journal of Infectious Diseases</i> , 2017 , 216, 55-63	7	34

78	Biochemical Screening of Five Protein Kinases from <i>Plasmodium falciparum</i> against 14,000 Cell-Active Compounds. <i>PLoS ONE</i> , 2016 , 11, e0149996	3.7	34
77	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines. <i>Cell</i> , 2021 , 184, 5432-5447.e16	56.2	34
76	Efficacy, pharmacokinetics, and metabolism of tetrahydroquinoline inhibitors of <i>Plasmodium falciparum</i> protein farnesyltransferase. <i>Antimicrobial Agents and Chemotherapy</i> , 2007 , 51, 3659-71	5.9	33
75	A Proposed Target Product Profile and Developmental Cascade for New Cryptosporidiosis Treatments. <i>PLoS Neglected Tropical Diseases</i> , 2015 , 9, e0003987	4.8	32
74	Structure determination of glycogen synthase kinase-3 from <i>Leishmania major</i> and comparative inhibitor structure-activity relationships with <i>Trypanosoma brucei</i> GSK-3. <i>Molecular and Biochemical Parasitology</i> , 2011 , 176, 98-108	1.9	32
73	Molecular basis of immune evasion by the delta and kappa SARS-CoV-2 variants 2021 ,		31
72	<i>Trypanosoma cruzi</i> -infected macrophages are defective in major histocompatibility complex class II antigen presentation. <i>European Journal of Immunology</i> , 1997 , 27, 3085-94	6.1	30
71	The role of medical structural genomics in discovering new drugs for infectious diseases. <i>PLoS Computational Biology</i> , 2009 , 5, e1000530	5	29
70	Serodiagnosis of syphilis: antibodies to recombinant Tp0453, Tp92, and Gpd proteins are sensitive and specific indicators of infection by <i>Treponema pallidum</i> . <i>Journal of Clinical Microbiology</i> , 2003 , 41, 3668-74	9.7	29
69	Sequence conservation of glycerophosphodiester phosphodiesterase among <i>Treponema pallidum</i> strains. <i>Infection and Immunity</i> , 1999 , 67, 3168-70	3.7	29
68	Biochemical and Structural Characterization of Selective Allosteric Inhibitors of the <i>Plasmodium falciparum</i> Drug Target, Prolyl-tRNA-synthetase. <i>ACS Infectious Diseases</i> , 2017 , 3, 34-44	5.5	28
67	SAR Studies of 5-Aminopyrazole-4-carboxamide Analogues as Potent and Selective Inhibitors of CDPK1. <i>ACS Medicinal Chemistry Letters</i> , 2015 , 6, 1184-1189	4.3	27
66	Use of thermal melt curves to assess the quality of enzyme preparations. <i>Analytical Biochemistry</i> , 2010 , 399, 268-75	3.1	25
65	Reduced Activity of Mutant Calcium-Dependent Protein Kinase 1 Is Compensated in <i>Plasmodium falciparum</i> through the Action of Protein Kinase G. <i>MBio</i> , 2016 , 7,	7.8	25
64	Therapeutic Efficacy of Bumped Kinase Inhibitor 1369 in a Pig Model of Acute Diarrhea Caused by <i>Cryptosporidium hominis</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	24
63	Resistance mutations at the lipid substrate binding site of <i>Plasmodium falciparum</i> protein farnesyltransferase. <i>Molecular and Biochemical Parasitology</i> , 2007 , 152, 66-71	1.9	24
62	<i>Theileria equi</i> isolates vary in susceptibility to imidocarb dipropionate but demonstrate uniform in vitro susceptibility to a bumped kinase inhibitor. <i>Parasites and Vectors</i> , 2015 , 8, 33	4	23
61	A Novel Calcium-Dependent Kinase Inhibitor, Bumped Kinase Inhibitor 1517, Cures Cryptosporidiosis in Immunosuppressed Mice. <i>Journal of Infectious Diseases</i> , 2016 , 214, 1850-1855	7	23

60	Advances in bumped kinase inhibitors for human and animal therapy for cryptosporidiosis. <i>International Journal for Parasitology</i> , 2017 , 47, 753-763	4.3	22
59	Profile of William C. Campbell, Satoshi Ōmura, and Youyou Tu, 2015 Nobel Laureates in Physiology or Medicine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 15773-6	11.5	22
58	Optimization of Methionyl tRNA-Synthetase Inhibitors for Treatment of Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	21
57	Bumped Kinase Inhibitors as therapy for apicomplexan parasitic diseases: lessons learned. <i>International Journal for Parasitology</i> , 2020 , 50, 413-422	4.3	21
56	Development of 5-Aminopyrazole-4-carboxamide-based Bumped-Kinase Inhibitors for Cryptosporidiosis Therapy. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 3135-3146	8.3	18
55	Safety and efficacy of the bumped kinase inhibitor BKI-1553 in pregnant sheep experimentally infected with <i>Neospora caninum</i> tachyzoites. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2018 , 8, 112-124	4	17
54	Selective inhibition of <i>Sarcocystis neurona</i> calcium-dependent protein kinase 1 for equine protozoal myeloencephalitis therapy. <i>International Journal for Parasitology</i> , 2016 , 46, 871-880	4.3	17
53	Optimization of Electrospray Ionization by Statistical Design of Experiments and Response Surface Methodology: Protein-Ligand Equilibrium Dissociation Constant Determinations. <i>Journal of the American Society for Mass Spectrometry</i> , 2016 , 27, 1520-30	3.5	17
52	Two Novel Calcium-Dependent Protein Kinase 1 Inhibitors Interfere with Vertical Transmission in Mice Infected with <i>Neospora caninum</i> Tachyzoites. <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	16
51	Bumped kinase inhibitor prohibits egression in <i>Babesia bovis</i> . <i>Veterinary Parasitology</i> , 2016 , 215, 22-8	2.8	16
50	In vitro efficacy of bumped kinase inhibitors against <i>Besnoitia besnoiti</i> tachyzoites. <i>International Journal for Parasitology</i> , 2017 , 47, 811-821	4.3	16
49	5-Aminopyrazole-4-Carboxamide-Based Compounds Prevent the Growth of <i>Cryptosporidium parvum</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2017 , 61,	5.9	14
48	5-Aminopyrazole-4-carboxamide analogues are selective inhibitors of <i>Plasmodium falciparum</i> microgametocyte exflagellation and potential malaria transmission blocking agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 5487-5491	2.9	14
47	Treatment with Bumped Kinase Inhibitor 1294 Is Safe and Leads to Significant Protection against Abortion and Vertical Transmission in Sheep Experimentally Infected with <i>Toxoplasma gondii</i> during Pregnancy. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	13
46	<i>Trypanosoma cruzi</i> infection does not impair major histocompatibility complex class I presentation of antigen to cytotoxic T lymphocytes. <i>European Journal of Immunology</i> , 1997 , 27, 2541-8	6.1	13
45	<i>Brucella melitensis</i> Methionyl-tRNA-Synthetase (MetRS), a Potential Drug Target for Brucellosis. <i>PLoS ONE</i> , 2016 , 11, e0160350	3.7	13
44	Elicitation of broadly protective sarbecovirus immunity by receptor-binding domain nanoparticle vaccines 2021 ,		12
43	<i>Toxoplasma</i> Calcium-Dependent Protein Kinase 1 Inhibitors: Probing Activity and Resistance Using Cellular Thermal Shift Assays. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	11

42	High-throughput screening of the ReFRAME, Pandemic Box, and COVID Box drug repurposing libraries against SARS-CoV-2 nsp15 endoribonuclease to identify small-molecule inhibitors of viral activity. <i>PLoS ONE</i> , 2021 , 16, e0250019	3.7	10
41	Enzymatic and Structural Characterization of the Glucokinase. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63,	5.9	10
40	In silico detection of SARS-CoV-2 specific B-cell epitopes and validation in ELISA for serological diagnosis of COVID-19. <i>Scientific Reports</i> , 2021 , 11, 4290	4.9	9
39	In Vitro Culture of <i>Cryptosporidium parvum</i> Using Hollow Fiber Bioreactor: Applications for Simultaneous Pharmacokinetic and Pharmacodynamic Evaluation of Test Compounds. <i>Methods in Molecular Biology</i> , 2020 , 2052, 335-350	1.4	8
38	Pharmacokinetics and In Vivo Efficacy of Pyrazolopyrimidine, Pyrrolopyrimidine, and 5-Aminopyrazole-4-Carboxamide Bumped Kinase Inhibitors against Toxoplasmosis. <i>Journal of Infectious Diseases</i> , 2019 , 219, 1464-1473	7	8
37	Bumped kinase inhibitor 1369 is effective against <i>Cystoisospora suis</i> in vivo and in vitro. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2019 , 10, 9-19	4	7
36	: Differential Proteome of Multinucleated Complexes Induced by the Bumped Kinase Inhibitor BKI-1294. <i>Microorganisms</i> , 2020 , 8,	4.9	7
35	Development of a target identification approach using native mass spectrometry. <i>Scientific Reports</i> , 2021 , 11, 2387	4.9	7
34	P-Glycoprotein-Mediated Efflux Reduces the In Vivo Efficacy of a Therapeutic Targeting the Gastrointestinal Parasite <i>Cryptosporidium</i> . <i>Journal of Infectious Diseases</i> , 2019 , 220, 1188-1198	7	6
33	: Structure and Fate of Multinucleated Complexes Induced by the Bumped Kinase Inhibitor BKI-1294. <i>Pathogens</i> , 2020 , 9,	4.5	6
32	Structures of glyceraldehyde 3-phosphate dehydrogenase in <i>Neisseria gonorrhoeae</i> and <i>Chlamydia trachomatis</i> . <i>Protein Science</i> , 2020 , 29, 768-778	6.3	6
31	Crystal structure and putative substrate identification for the <i>Entamoeba histolytica</i> low molecular weight tyrosine phosphatase. <i>Molecular and Biochemical Parasitology</i> , 2014 , 193, 33-44	1.9	6
30	SARS-CoV-2 spike conformation determines plasma neutralizing activity. 2021 ,		6
29	Susceptibility Testing of Medically Important Parasites. <i>Clinical Microbiology Reviews</i> , 2017 , 30, 647-669	3.4	5
28	7 H-Pyrrolo[2,3- d]pyrimidin-4-amine-Based Inhibitors of Calcium-Dependent Protein Kinase 1 Have Distinct Inhibitory and Oral Pharmacokinetic Characteristics Compared with 1 H-Pyrazolo[3,4- d]pyrimidin-4-amine-Based Inhibitors. <i>ACS Infectious Diseases</i> , 2018 , 4, 516-522	5.5	5
27	Fragment screening of infectious disease targets in a structural genomics environment. <i>Methods in Enzymology</i> , 2011 , 493, 533-56	1.7	5
26	One health therapeutics: Target-Based drug development for cryptosporidiosis and other apicomplexa diseases. <i>Veterinary Parasitology</i> , 2021 , 289, 109336	2.8	5
25	Recombinant human G6PD for quality control and quality assurance of novel point-of-care diagnostics for G6PD deficiency. <i>PLoS ONE</i> , 2017 , 12, e0177885	3.7	4

24	In silico detection of SARS-CoV-2 specific B-cell epitopes and validation in ELISA for serological diagnosis of COVID-19		4
23	Naegleria fowleri: Protein structures to facilitate drug discovery for the deadly, pathogenic free-living amoeba. <i>PLoS ONE</i> , 2021 , 16, e0241738	3.7	4
22	Taming the Boys for Global Good: Contraceptive Strategy to Stop Malaria Transmission. <i>Molecules</i> , 2020 , 25,	4.8	3
21	In vitro growth inhibition of Theileria equi by bumped kinase inhibitors. <i>Veterinary Parasitology</i> , 2018 , 251, 90-94	2.8	3
20	An essential farnesylated kinesin in Trypanosoma brucei. <i>PLoS ONE</i> , 2011 , 6, e26508	3.7	3
19	In vitro activity, safety and in vivo efficacy of the novel bumped kinase inhibitor BKI-1748 in non-pregnant and pregnant mice experimentally infected with Neospora caninum tachyzoites and Toxoplasma gondii oocysts. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2021 , 11, 88-101	4	3
18	Emergence and phenotypic characterization of the global SARS-CoV-2 C.1.2 lineage.. <i>Nature Communications</i> , 2022 , 13, 1976	17.4	3
17	Structural changes in the SARS-CoV-2 spike E406W mutant escaping a clinical monoclonal antibody cocktail. 2022 ,		2
16	Solution structure for an Encephalitozoon cuniculi adrenodoxin-like protein in the oxidized state. <i>Protein Science</i> , 2020 , 29, 809-817	6.3	2
15	Reduced treatment frequencies with bumped kinase inhibitor 1369 are effective against porcine cystoisosporosis. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2020 , 14, 37-45	4	2
14	Comparative assessment of the effects of bumped kinase inhibitors on early zebrafish embryo development and pregnancy in mice. <i>International Journal of Antimicrobial Agents</i> , 2020 , 56, 106099	14.3	2
13	Repurposing Infectious Disease Hits as Anti- Leads. <i>ACS Infectious Diseases</i> , 2021 , 7, 1275-1282	5.5	2
12	Toward a structome of Acinetobacter baumannii drug targets. <i>Protein Science</i> , 2020 , 29, 789-802	6.3	1
11	Structure and analysis of nucleoside diphosphate kinase from Borrelia burgdorferi prepared in a transition-state complex with ADP and vanadate moieties. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2018 , 74, 373-384	1.1	1
10	The Bacterial Sec Pathway of Protein Export: Screening and Follow-Up. <i>Journal of Biomolecular Screening</i> , 2015 , 20, 921-6		1
9	Calcium-Dependent Protein Kinases of Apicomplexan Parasites as Drug Targets 2013 , 293-316		1
8	Pharmacokinetics and pharmacodynamics of clofazimine for treatment of cryptosporidiosis. <i>Antimicrobial Agents and Chemotherapy</i> , 2021 , AAC0156021	5.9	1
7	Naegleria fowleri: protein structures to facilitate drug discovery for the deadly, pathogenic free-living amoeba		1

6	Pyrrolopyrimidine Bumped Kinase Inhibitors for the Treatment of Cryptosporidiosis. <i>ACS Infectious Diseases</i> , 2021 , 7, 1200-1207	5.5	1
5	Endochin-like quinolones (ELQs) and bumped kinase inhibitors (BKIs): Synergistic and additive effects of combined treatments against <i>Neospora caninum</i> infection in vitro and in vivo. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2021 , 17, 92-106	4	1
4	High-throughput screening of the ReFRAME, Pandemic Box, and COVID Box drug repurposing libraries against SARS-CoV2 nsp15 endoribonuclease to identify small-molecule inhibitors of viral activity		1
3	A short-term treatment with BKI-1294 does not protect foetuses from sheep experimentally infected with <i>Neospora caninum</i> tachyzoites during pregnancy. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2021 , 17, 176-185	4	0
2	Seymour J. Klebanoff: Discoverer of WBC killing mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 12891-12892	11.5	
1	Mycobacterium Cytidylate Kinase Appears to Be an Undruggable Target. <i>Journal of Biomolecular Screening</i> , 2016 , 21, 695-700		