

David B Olsen

List of Publications by Year in Descending Order

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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.

102
papers

4,505
citations

32
h-index

64
g-index

113
ext. papers

4,929
ext. citations

5.1
avg, IF

4.36
L-index

#	Paper	IF	Citations
102	Identification of β -Lactams Active against by a Consortium of Pharmaceutical Companies and Academic Institutions.. <i>ACS Infectious Diseases</i> , 2022 ,	5.5	2
101	Structure activity relationship of N-1 substituted 1,5-naphthyrid-2-one analogs of oxabicyclooctane-linked novel bacterial topoisomerase inhibitors as broad-spectrum antibacterial agents (Part-9). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022 , 128808	2.9	1
100	Generation of SARS-CoV-2 reporter replicon for high-throughput antiviral screening and testing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	18
99	SARS-CoV-2 tropism, entry, replication, and propagation: Considerations for drug discovery and development. <i>PLoS Pathogens</i> , 2021 , 17, e1009225	7.6	74
98	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	23.4	30
97	Structure-Guided Drug Design of 6-Substituted Adenosine Analogues as Potent Inhibitors of Mycobacterium tuberculosis Adenosine Kinase. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 4483-4499	8.3	7
96	Identification of cyclic hexapeptides natural products with inhibitory potency against Mycobacterium tuberculosis. <i>BMC Research Notes</i> , 2018 , 11, 416	2.3	1
95	Discovery and Structure-Activity-Relationship Study of N-Alkyl-5-hydroxypyrimidinone Carboxamides as Novel Antitubercular Agents Targeting Decaprenylphosphoryl-Ed-ribose 2VOxidase. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 9952-9965	8.3	18
94	Thiazomycin, nocathiacin and analogs show strong activity against clinical strains of drug-resistant Mycobacterium tuberculosis. <i>Journal of Antibiotics</i> , 2017 , 70, 671-674	3.7	5
93	Affinity Selection-Mass Spectrometry Identifies a Novel Antibacterial RNA Polymerase Inhibitor. <i>ACS Chemical Biology</i> , 2017 , 12, 1346-1352	4.9	12
92	Development of a New Structural Class of Broadly Acting HCV Non-Nucleoside Inhibitors Leading to the Discovery of MK-8876. <i>ChemMedChem</i> , 2017 , 12, 1436-1448	3.7	10
91	Linking High-Throughput Screens to Identify MoAs and Novel Inhibitors of Mycobacterium tuberculosis Dihydrofolate Reductase. <i>ACS Chemical Biology</i> , 2017 , 12, 2448-2456	4.9	18
90	In Vitro and In Vivo Characterization of the Novel Oxabicyclooctane-Linked Bacterial Topoisomerase Inhibitor AM-8722, a Selective, Potent Inhibitor of Bacterial DNA Gyrase. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 4830-9	5.9	14
89	2VModified Guanosine Analogs for the Treatment of HCV. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2016 , 35, 277-94	1.4	3
88	Synthesis of amino heterocycle aspartyl protease inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 4970-85	3.9	8
87	Structure activity relationship of pyridoxazinone substituted RHS analogs of oxabicyclooctane-linked 1,5-naphthyridinyl novel bacterial topoisomerase inhibitors as broad-spectrum antibacterial agents (Part-6). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 3636-43	2.9	13
86	Structure activity relationship of substituted 1,5-naphthyridine analogs of oxabicyclooctane-linked novel bacterial topoisomerase inhibitors as broad-spectrum antibacterial agents (Part-4). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 2409-15	2.9	15

85	Structure activity relationship of C-2 ether substituted 1,5-naphthyridine analogs of oxabicyclooctane-linked novel bacterial topoisomerase inhibitors as broad-spectrum antibacterial agents (Part-5). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 3630-5	2.9	14
84	Tricyclic 1,5-naphthyridinone oxabicyclooctane-linked novel bacterial topoisomerase inhibitors as broad-spectrum antibacterial agents-SAR of left-hand-side moiety (Part-2). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 1831-5	2.9	20
83	Elucidation of DnaE as the Antibacterial Target of the Natural Product, Nargenicin. <i>Chemistry and Biology</i> , 2015 , 22, 1362-73		25
82	C102-linker substituted 1,5-naphthyridine analogues of oxabicyclooctane-linked NBTIs as broad-spectrum antibacterial agents (part 7). <i>MedChemComm</i> , 2015 , 6, 1773-1780	5	8
81	Hydroxy tricyclic 1,5-naphthyridinone oxabicyclooctane-linked novel bacterial topoisomerase inhibitors as broad-spectrum antibacterial agents-SAR of RHS moiety (Part-3). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 2473-8	2.9	19
80	P2-quinazolinones and bis-macrocycles as new templates for next-generation hepatitis C virus NS3/4a protease inhibitors: discovery of MK-2748 and MK-6325. <i>ChemMedChem</i> , 2015 , 10, 727-35	3.7	19
79	MK-5172, a Selective Inhibitor of Hepatitis C Virus NS3/4a Protease with Broad Activity across Genotypes and Resistant Variants. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 4995-4995	5.9	1
78	Design, synthesis, structure-function relationship, bioconversion, and pharmacokinetic evaluation of ertapenem prodrugs. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 8421-44	8.3	12
77	Oxabicyclooctane-linked novel bacterial topoisomerase inhibitors as broad spectrum antibacterial agents. <i>ACS Medicinal Chemistry Letters</i> , 2014 , 5, 609-14	4.3	53
76	Syntheses of 1',2'-cyclopentyl nucleosides as potential antiviral agents. <i>Tetrahedron Letters</i> , 2014 , 55, 5092-5095	2	4
75	Syntheses of nucleosides with a 1',2'-lactam moiety as potential inhibitors of hepatitis C virus NS5B polymerase. <i>Tetrahedron Letters</i> , 2014 , 55, 5576-5579	2	4
74	Syntheses of 4'-spirocyclic phosphono-nucleosides as potential inhibitors of hepatitis C virus NS5B polymerase. <i>Tetrahedron Letters</i> , 2014 , 55, 4407-4409	2	11
73	Syntheses of nucleosides with 2'-spiro lactam and 2'-spiro pyrrolidine moieties as potential inhibitors of hepatitis C virus NS5B polymerase. <i>Tetrahedron Letters</i> , 2014 , 55, 3813-3816	2	5
72	Kibdelomycin is a potent and selective agent against toxigenic <i>Clostridium difficile</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 2387-92	5.9	16
71	Discovery of MK-8742: an HCV NS5A inhibitor with broad genotype activity. <i>ChemMedChem</i> , 2013 , 8, 1930-40	3.7	174
70	Design, synthesis, and evaluation of prodrugs of ertapenem. <i>ACS Medicinal Chemistry Letters</i> , 2013 , 4, 715-9	4.3	7
69	MK-5172, a selective inhibitor of hepatitis C virus NS3/4a protease with broad activity across genotypes and resistant variants. <i>Antimicrobial Agents and Chemotherapy</i> , 2012 , 56, 4161-7	5.9	224
68	Discovery of MK-5172, a Macrocyclic Hepatitis C Virus NS3/4a Protease Inhibitor. <i>ACS Medicinal Chemistry Letters</i> , 2012 , 3, 332-6	4.3	163

67	Development of potent macrocyclic inhibitors of genotype 3a HCV NS3/4A protease. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 7201-6	2.9	6
66	Development of macrocyclic inhibitors of HCV NS3/4A protease with cyclic constrained P2-P4 linkers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 7207-13	2.9	8
65	Human monoclonal antibody HCV1 effectively prevents and treats HCV infection in chimpanzees. <i>PLoS Pathogens</i> , 2012 , 8, e1002895	7.6	118
64	Discovery of MK-1220: A Macrocyclic Inhibitor of Hepatitis C Virus NS3/4A Protease with Improved Preclinical Plasma Exposure. <i>ACS Medicinal Chemistry Letters</i> , 2011 , 2, 207-12	4.3	28
63	Sustained viral response in a hepatitis C virus-infected chimpanzee via a combination of direct-acting antiviral agents. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 937-9	5.9	43
62	Antiviral efficacy upon administration of a HepDirect prodrug of 2'VC-methylcytidine to hepatitis C virus-infected chimpanzees. <i>Antimicrobial Agents and Chemotherapy</i> , 2011 , 55, 3854-60	5.9	18
61	MK-7009, a potent and selective inhibitor of hepatitis C virus NS3/4A protease. <i>Antimicrobial Agents and Chemotherapy</i> , 2010 , 54, 305-11	5.9	131
60	Discovery of vaniprevir (MK-7009), a macrocyclic hepatitis C virus NS3/4a protease inhibitor. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 2443-63	8.3	145
59	PD-1 blockade in rhesus macaques: impact on chronic infection and prophylactic vaccination. <i>Journal of Immunology</i> , 2009 , 182, 980-7	5.3	101
58	Robust antiviral efficacy upon administration of a nucleoside analog to hepatitis C virus-infected chimpanzees. <i>Antimicrobial Agents and Chemotherapy</i> , 2009 , 53, 926-34	5.9	80
57	Phosphoramidate prodrugs of 2'VC-methylcytidine for therapy of hepatitis C virus infection. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 5394-407	8.3	45
56	Identification and biological evaluation of a series of 1H-benzo[de]isoquinoline-1,3(2H)-diones as hepatitis C virus NS5B polymerase inhibitors. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 5217-27	8.3	38
55	A transient cell-based phenotype assay for hepatitis C NS3/4A protease: application to potency determinations of a novel macrocyclic inhibitor against diverse protease sequences isolated from plasma infected with HCV. <i>Journal of Virological Methods</i> , 2008 , 151, 301-307	2.6	15
54	Molecular modeling based approach to potent P2-P4 macrocyclic inhibitors of hepatitis C NS3/4A protease. <i>Journal of the American Chemical Society</i> , 2008 , 130, 4607-9	16.4	128
53	Synthesis of 2'- β -methyl-neplanocin derivatives as anti-HCV agents. <i>Tetrahedron Letters</i> , 2008 , 49, 4149-4152	2	12
52	Bismacrocyclic inhibitors of hepatitis C NS3/4a protease. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9104-7	16.4	29
51	A time-resolved, internally quenched fluorescence assay to characterize inhibition of hepatitis C virus nonstructural protein 3-4A protease at low enzyme concentrations. <i>Analytical Biochemistry</i> , 2008 , 373, 1-8	3.1	31
50	Liver-targeted prodrugs of 2'VC-methyladenosine for therapy of hepatitis C virus infection. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 3891-6	8.3	36

49	Synthesis and HCV inhibitory properties of 9-deaza- and 7,9-dideaza-7-oxa-2 ν C-methyladenosine. <i>Bioorganic and Medicinal Chemistry</i> , 2007 , 15, 5219-29	3.4	27
48	Synthesis of novel HIV protease inhibitors (PI) with activity against PI-resistant virus. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 5432-6	2.9	8
47	Gene expression profiling of rat liver reveals a mechanistic basis for ritonavir-induced hyperlipidemia. <i>Genomics</i> , 2007 , 90, 464-73	4.3	23
46	A genotype 2b NS5B polymerase with novel substitutions supports replication of a chimeric HCV 1b:2b replicon containing a genotype 1b NS3-5A background. <i>Antiviral Research</i> , 2006 , 69, 24-30	10.8	15
45	Design, synthesis, and biological evaluation of monopyrrolinone-based HIV-1 protease inhibitors possessing augmented P2 ν side chains. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 859-63	2.9	19
44	Replication fitness and NS5B drug sensitivity of diverse hepatitis C virus isolates characterized by using a transient replication assay. <i>Antimicrobial Agents and Chemotherapy</i> , 2005 , 49, 2059-69	5.9	114
43	Synthesis and evaluation of S-acyl-2-thioethyl esters of modified nucleoside 5 ν monophosphates as inhibitors of hepatitis C virus RNA replication. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 1199-210	8.3	33
42	Orally bioavailable highly potent HIV protease inhibitors against PI-resistant virus. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 5311-4	2.9	8
41	Inhibitory effect of 2 ν substituted nucleosides on hepatitis C virus replication correlates with metabolic properties in replicon cells. <i>Antimicrobial Agents and Chemotherapy</i> , 2005 , 49, 2050-8	5.9	41
40	Characterization of the inhibition of hepatitis C virus RNA replication by nonnucleosides. <i>Journal of Virology</i> , 2004 , 78, 938-46	6.6	118
39	A 7-deaza-adenosine analog is a potent and selective inhibitor of hepatitis C virus replication with excellent pharmacokinetic properties. <i>Antimicrobial Agents and Chemotherapy</i> , 2004 , 48, 3944-53	5.9	200
38	X-ray crystallographic and site-directed mutagenesis analysis of the mechanism of Schiff-base formation in phosphonoacetaldehyde hydrolase catalysis. <i>Journal of Biological Chemistry</i> , 2004 , 279, 9353-61	5.4	30
37	Synthesis and biological evaluation of 5R- and 5S-methyl substituted D- and L-configuration 1,3-dioxolane nucleoside analogs. <i>Bioorganic and Medicinal Chemistry</i> , 2004 , 12, 6237-47	3.4	10
36	P1 ν oxadiazole protease inhibitors with excellent activity against native and protease inhibitor-resistant HIV-1. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 4651-4	2.9	17
35	Structure-activity relationship of heterobase-modified 2 ν C-methyl ribonucleosides as inhibitors of hepatitis C virus RNA replication. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 5284-97	8.3	174
34	Structure-activity relationship of purine ribonucleosides for inhibition of hepatitis C virus RNA-dependent RNA polymerase. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 2283-95	8.3	193
33	Hinnuliquinone, a C2-symmetric dimeric non-peptide fungal metabolite inhibitor of HIV-1 protease. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 324, 108-13	3.4	30
32	Characterization of resistance to non-obligate chain-terminating ribonucleoside analogs that inhibit hepatitis C virus replication in vitro. <i>Journal of Biological Chemistry</i> , 2003 , 278, 49164-70	5.4	284

31	Novel HIV-1 protease inhibitors active against multiple PI-resistant viral strains: coadministration with indinavir. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 4027-30	2.9	12
30	Synthesis and evaluation of optically pure dioxolanes as inhibitors of hepatitis C virus RNA replication. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 4455-8	2.9	12
29	The design, synthesis and evaluation of novel HIV-1 protease inhibitors with high potency against PI-resistant viral strains. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 2573-6	2.9	12
28	HIV protease inhibitors with picomolar potency against PI-Resistant HIV-1 by extension of the P3 substituent. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 2569-72	2.9	12
27	HIV-1 protease inhibitors with picomolar potency against PI-resistant HIV-1 by modification of the P1 substituent. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 3323-6	2.9	9
26	Design and synthesis of highly potent HIV protease inhibitors with activity against resistant virus. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 1821-4	2.9	17
25	Design, synthesis, and biological evaluation of monopyrrolinone-based HIV-1 protease inhibitors. <i>Journal of Medicinal Chemistry</i> , 2003 , 46, 1831-44	8.3	44
24	Inhibition of HIV-1 ribonuclease H by a novel diketo acid, 4-[5-(benzoylamino)thien-2-yl]-2,4-dioxobutanoic acid. <i>Journal of Biological Chemistry</i> , 2003 , 278, 2777-80	5.4	130
23	Inhibition of hepatitis C virus RNA replication by 2'-modified nucleoside analogs. <i>Journal of Biological Chemistry</i> , 2003 , 278, 11979-84	5.4	285
22	A combinatorial library of indinavir analogues and its in vitro and in vivo studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002 , 12, 529-32	2.9	11
21	Indinavir analogues with blocked metabolism sites as HIV protease inhibitors with improved pharmacological profiles and high potency against PI-resistant viral strains. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002 , 12, 2419-22	2.9	29
20	Combinatorial library of indinavir analogues: replacement for the aminoindanol at P2V <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002 , 12, 2855-8	2.9	9
19	Synthesis and activity of novel HIV protease inhibitors with improved potency against multiple PI-resistant viral strains. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002 , 12, 2423-6	2.9	11
18	An alternate binding site for the P1-P3 group of a class of potent HIV-1 protease inhibitors as a result of concerted structural change in the 80s loop of the protease. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000 , 56, 381-8		23
17	Combinatorial diversification of indinavir: in vivo mixture dosing of an HIV protease inhibitor library. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000 , 10, 1527-30	2.9	19
16	Identification of MK-944a: a second clinical candidate from the hydroxylaminepentanamide isostere series of HIV protease inhibitors. <i>Journal of Medicinal Chemistry</i> , 2000 , 43, 3386-99	8.3	45
15	Non-active site changes elicit broad-based cross-resistance of the HIV-1 protease to inhibitors. <i>Journal of Biological Chemistry</i> , 1999 , 274, 23699-701	5.4	59
14	Expression and purification of retroviral HIV-1 reverse transcriptase. <i>Methods in Enzymology</i> , 1996 , 275, 122-33	1.7	9

13	Preparation and use of synthetic oligoribonucleotides as tools for study of viral polymerases. <i>Methods in Enzymology</i> , 1996 , 275, 365-82	1.7	17
12	Elucidation of basic mechanistic and kinetic properties of influenza endonuclease using chemically synthesized RNAs. <i>Journal of Biological Chemistry</i> , 1996 , 271, 7435-9	5.4	21
11	Assay for influenza virus endonuclease using DNA polymerase extension of a specific cleavage product. <i>Analytical Biochemistry</i> , 1995 , 231, 309-14	3.1	4
10	Sensitivity of HIV-1 reverse transcriptase and its mutants to inhibition by azidothymidine triphosphate. <i>Biochemistry</i> , 1994 , 33, 2113-20	3.2	59
9	Site-directed mutagenesis of single-stranded and double-stranded DNA by phosphorothioate approach. <i>Methods in Enzymology</i> , 1993 , 217, 189-217	1.7	11
8	Direct sequencing of polymerase chain reaction products. <i>Methods in Enzymology</i> , 1993 , 218, 79-92	1.7	3
7	Overview: High Efficiency Oligonucleotide-Directed Mutagenesis of Double-stranded DNA Vectors. <i>Current Opinion in Therapeutic Patents</i> , 1992 , 2, 1023-1029		
6	Investigation of the substrate binding and catalytic groups of the P-C bond cleaving enzyme, phosphonoacetaldehyde hydrolase. <i>Archives of Biochemistry and Biophysics</i> , 1992 , 296, 144-51	4.1	26
5	Study of a hammerhead ribozyme containing 2'-modified adenosine residues. <i>Biochemistry</i> , 1991 , 30, 9735-41	3.2	100
4	Investigation of the inhibitory role of phosphorothioate internucleotidic linkages on the catalytic activity of the restriction endonuclease EcoRV. <i>Biochemistry</i> , 1990 , 29, 9546-51	3.2	20
3	Inhibition of restriction endonuclease hydrolysis by phosphorothioate-containing DNA. <i>Nucleic Acids Research</i> , 1989 , 17, 9495	20.1	16
2	Incomplete primer extension during in vitro DNA amplification catalyzed by Taq polymerase; exploitation for DNA sequencing. <i>Nucleic Acids Research</i> , 1989 , 17, 9613-20	20.1	48
1	Investigation of the Bacillus cereus phosphonoacetaldehyde hydrolase. Evidence for a Schiff base mechanism and sequence analysis of an active-site peptide containing the catalytic lysine residue. <i>Biochemistry</i> , 1988 , 27, 2229-34	3.2	44