Steven De Jonghe

List of Publications by Year in descending order

97 papers	2,580 citations	279487 23 h-index	253896 43 g-index
115 all docs	115 docs citations	115 times ranked	3147 citing authors

#	Article	IF	Citations
1	Remdesivir, Molnupiravir and Nirmatrelvir remain active against SARS-CoV-2 Omicron and other variants of concern. Antiviral Research, 2022, 198, 105252.	1.9	302
2	Anticancer kinase inhibitors impair intracellular viral trafficking and exert broad-spectrum antiviral effects. Journal of Clinical Investigation, 2017, 127, 1338-1352.	3.9	188
3	Ultralarge Virtual Screening Identifies SARS-CoV-2 Main Protease Inhibitors with Broad-Spectrum Activity against Coronaviruses. Journal of the American Chemical Society, 2022, 144, 2905-2920.	6.6	118
4	Identification of Inhibitors of SARS-CoV-2 3CL-Pro Enzymatic Activity Using a Small Molecule in Vitro Repurposing Screen. ACS Pharmacology and Translational Science, 2021, 4, 1096-1110.	2.5	101
5	Molnupiravir Inhibits Replication of the Emerging SARS-CoV-2 Variants of Concern in a Hamster Infection Model. Journal of Infectious Diseases, 2021, 224, 749-753.	1.9	95
6	The combined treatment of Molnupiravir and Favipiravir results in a potentiation of antiviral efficacy in a SARS-CoV-2 hamster infection model. EBioMedicine, 2021, 72, 103595.	2.7	91
7	The oral protease inhibitor (PF-07321332) protects Syrian hamsters against infection with SARS-CoV-2 variants of concern. Nature Communications, 2022, 13, 719.	5.8	86
8	Kobophenol A Inhibits Binding of Host ACE2 Receptor with Spike RBD Domain of SARS-CoV-2, a Lead Compound for Blocking COVID-19. Journal of Physical Chemistry Letters, 2021, 12, 1793-1802.	2.1	77
9	Synthesis and Evaluation of 5-Substituted 2â€²-deoxyuridine Monophosphate Analogues As Inhibitors of Flavin-Dependent Thymidylate Synthase inMycobacterium tuberculosis. Journal of Medicinal Chemistry, 2011, 54, 4847-4862.	2.9	68
10	Imidazopyridine- and Purine-Thioacetamide Derivatives: Potent Inhibitors of Nucleotide Pyrophosphatase/Phosphodiesterase 1 (NPP1). Journal of Medicinal Chemistry, 2014, 57, 10080-10100.	2.9	62
11	Gelatin degradation assay reveals MMP-9 inhibitors and function of O-glycosylated domain. World Journal of Biological Chemistry, 2011, 2, 14.	1.7	56
12	Selective Inhibitors of Cyclin G Associated Kinase (GAK) as Anti-Hepatitis C Agents. Journal of Medicinal Chemistry, 2015, 58, 3393-3410.	2.9	54
13	Synthesis of novel 5-amino-thiazolo[4,5-d]pyrimidines as E. coli and S. aureus SecA inhibitors. Bioorganic and Medicinal Chemistry, 2011, 19, 702-714.	1.4	48
14	A robust SARS-CoV-2 replication model in primary human epithelial cells at the air liquid interface to assess antiviral agents. Antiviral Research, 2021, 192, 105122.	1.9	47
15	Synthesis and Structureâ€“Activity Relationships of 3,5-Disubstituted-pyrrolo[2,3-b]pyridines as Inhibitors of Adaptor-Associated Kinase 1 with Antiviral Activity. Journal of Medicinal Chemistry, 2019, 62, 5810-5831.	2.9	44
16	Discovery of Dual Death-Associated Protein Related Apoptosis Inducing Protein Kinase 1 and 2 Inhibitors by a Scaffold Hopping Approach. Journal of Medicinal Chemistry, 2014, 57, 7624-7643.	2.9	38
17	Synthesis and Evaluation of 6â€Azaâ€2â€²â€deoxyuridine Monophosphate Analogs as Inhibitors of Thymidylate Synthases, and as Substrates or Inhibitors of Thymidine Monophosphate Kinase in Mycobacterium tuberculosis. Chemistry and Biodiversity, 2012, 9, 536-556.	1.0	37
18	Substrate-Dependence of Competitive Nucleotide Pyrophosphatase/Phosphodiesterase1 (NPP1) Inhibitors. Frontiers in Pharmacology, 2017, 8, 54.	1.6	36

#	Article	IF	Citations
19	Optimization of Isothiazolo[4,3-b]pyridine-Based Inhibitors of Cyclin G Associated Kinase (GAK) with Broad-Spectrum Antiviral Activity. Journal of Medicinal Chemistry, 2018, 61, 6178-6192.	2.9	36
20	Discovery of 7-N-Piperazinylthiazolo[5,4-d]pyrimidine Analogues as a Novel Class of Immunosuppressive Agents with in Vivo Biological Activity. Journal of Medicinal Chemistry, 2011, 54, 655-668.	2.9	35
21	ALG-097111, a potent and selective SARS-CoV-2 3-chymotrypsin-like cysteine protease inhibitor exhibits inÂvivo efficacy in a Syrian Hamster model. Biochemical and Biophysical Research Communications, 2021, 555, 134-139.	1.0	30
22	In vitro activity of itraconazole against SARSâ€CoVâ€2. Journal of Medical Virology, 2021, 93, 4454-4460.	2.5	30
23	Discovery of an Acyclic Nucleoside Phosphonate that Inhibits Mycobacterium tuberculosis ThyX Based on the Binding Mode of a 5â€Alkynyl Substrate Analogue. ChemMedChem, 2013, 8, 1373-1383.	1.6	28
24	Broad spectrum anti-coronavirus activity of a series of anti-malaria quinoline analogues. Antiviral Research, 2021, 193, 105127.	1.9	27
25	Amidate Prodrugs of Deoxythreosyl Nucleoside Phosphonates as Dual Inhibitors of HIV and HBV Replication. Journal of Medicinal Chemistry, 2016, 59, 9513-9531.	2.9	26
26	Overview of Biologically Active Nucleoside Phosphonates. Frontiers in Chemistry, 2020, 8, 616863.	1.8	26
27	Synthesis and in vitro evaluation of 2-amino-4-N-piperazinyl-6-(3,4-dimethoxyphenyl)-pteridines as dual immunosuppressive and anti-inflammatory agents. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 145-149.	1.0	23
28	Aspartic acid based nucleoside phosphoramidate prodrugs as potent inhibitors of hepatitis C virus replication. Organic and Biomolecular Chemistry, 2015, 13, 5158-5174.	1.5	23
29	Expanding the Antiviral Spectrum of 3-Fluoro-2-(phosphonomethoxy)propyl Acyclic Nucleoside Phosphonates: Diamyl Aspartate Amidate Prodrugs. Journal of Medicinal Chemistry, 2017, 60, 6220-6238.	2.9	22
30	Discovery of HIV entry inhibitors via a hybrid CXCR4 and CCR5 receptor pharmacophoreâ€based virtual screening approach. European Journal of Pharmaceutical Sciences, 2020, 155, 105537.	1.9	22
31	Synthesis, immunosuppressive activity and structureâ€“activity relationship study of a new series of 4-N-piperazinyl-thieno[2,3-d]pyrimidine analogues. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 844-847.	1.0	21
32	Synthesis and Structureâ€“Activity Relationship Studies of 2â€(1,3,4â€Oxadiazoleâ€2(3Hâ€thione)â€3â€aminoâ€5â€arylthieno[2,3â€b]pyridines as Inhibitors of DRAK2. ChemMedChem, 2014, 9, 2587-2601.	1.6	20
33	Thiazolo[3,2-a]benzimidazol-3(2H)-one derivatives: Structureâ€“activity relationships of selective nucleotide pyrophosphatase/phosphodiesterase1 (NPP1) inhibitors. Bioorganic and Medicinal Chemistry, 2016, 24, 3157-3165.	1.4	19
34	Identification and evaluation of potential SARS-CoV-2 antiviral agents targeting mRNA cap guanine N7-Methyltransferase. Antiviral Research, 2021, 193, 105142.	1.9	19
35	Astemizole analogues with reduced hERG inhibition as potent antimalarial compounds. Bioorganic and Medicinal Chemistry, 2017, 25, 6332-6344.	1.4	17
36	Synthesis and Biological Evaluation of Pyrrolo[2,1â€f][1,2,4]triazine Câ€Nucleosides with a Ribose, 2â€²â€Deoxyribose, and 2â€²,3â€²â€Dideoxyribose Sugar Moiety. ChemMedChem, 2018, 13, 97-104.	1.6	17

#	Article	IF	Citations
37	Bicyclic Î±-Iminophosphonates as High Affinity Imidazoline I₂ Receptor Ligands for Alzheimerâ€™s Disease. Journal of Medicinal Chemistry, 2020, 63, 3610-3633.	2.9	17
38	Numb-associated kinases are required for SARS-CoV-2 infection and are cellular targets for antiviral strategies. Antiviral Research, 2022, 204, 105367.	1.9	17
39	Cytopathic SARS-CoV-2 screening on VERO-E6 cells in a large-scale repurposing effort. Scientific Data, 2022, 9, .	2.4	17
40	Isothiazolo[4,3-b]pyridines as inhibitors of cyclin G associated kinase: synthesis, structureâ€“activity relationship studies and antiviral activity. MedChemComm, 2015, 6, 1666-1672.	3.5	16
41	Discovery of a new Mycobacterium tuberculosis thymidylate synthase X inhibitor with a unique inhibition profile. Biochemical Pharmacology, 2017, 135, 69-78.	2.0	16
42	Influence of 4â€²-Substitution on the Activity of Gemcitabine and Its ProTide Against VZV and SARS-CoV-2. ACS Medicinal Chemistry Letters, 2021, 12, 88-92.	1.3	16
43	Immunosuppressive activity of a new pteridine derivative (4AZA1378) alleviates severity of TNBS-induced colitis in mice. Clinical Immunology, 2007, 122, 53-61.	1.4	15
44	Synthesis of a 2,4,6-trisubstituted 5-cyano-pyrimidine library and evaluation of its immunosuppressive activity in a Mixed Lymphocyte Reaction assay. Bioorganic and Medicinal Chemistry, 2013, 21, 1209-1218.	1.4	15
45	A patent review of adaptor associated kinase 1 (AAK1) inhibitors (2013-present). Expert Opinion on Therapeutic Patents, 2021, 31, 911-936.	2.4	15
46	1,2,4-Triazolo[1,5-a]pyrimidines: Efficient one-step synthesis and functionalization as influenza polymerase PA-PB1 interaction disruptors. European Journal of Medicinal Chemistry, 2021, 221, 113494.	2.6	15
47	Benzofuranyl-2-imidazoles as imidazoline I2 receptor ligands for Alzheimer's disease. European Journal of Medicinal Chemistry, 2021, 222, 113540.	2.6	15
48	Development of Synthetic Strategies for the Construction of Pyrido[4,3-d]pyrimidine Libraries â€“ the Discovery of a New Class of PDE-4 Inhibitors. European Journal of Organic Chemistry, 2006, 2006, 4257-4269.	1.2	14
49	Structure-activity relationship study of the pyridine moiety of isothiazolo[4,3-b]pyridines as antiviral agents targeting cyclin G-associated kinase. Bioorganic and Medicinal Chemistry, 2020, 28, 115188.	1.4	14
50	Design, synthesis and biological evaluation of pyrazolo[3,4-d]pyrimidine-based protein kinase D inhibitors. European Journal of Medicinal Chemistry, 2020, 205, 112638.	2.6	14
51	Amidate Prodrugs of Cyclic 9-(S)-[3-Hydroxy-2-(phosphonomethoxy)propyl]adenine with Potent Anti-Herpesvirus Activity. ACS Medicinal Chemistry Letters, 2018, 9, 381-385.	1.3	13
52	Development and optimization of a highâ€throughput screening assay for in vitro antiâ€SARSâ€CoVâ€2 activity: Evaluation of 5676 Phase 1 Passed Structures. Journal of Medical Virology, 2022, 94, 3101-3111.	2.5	13
53	l-Aspartic and l-glutamic acid ester-based ProTides of anticancer nucleosides: Synthesis and antitumoral evaluation. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 2142-2146.	1.0	12
54	Regioselective cross-coupling reactions and nucleophilic aromatic substitutions on a 5,7-dichloropyrido[4,3-d]pyrimidine scaffold. Tetrahedron Letters, 2006, 47, 8917-8920.	0.7	11

#	Article	IF	Citations
55	Synthesis and evaluation of novel ligands for the histamine H4 receptor based on a pyrrolo[2,3-d]pyrimidine scaffold. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 132-137.	1.0	11
56	Discovery of (â€‰Â±)-3-(1H-pyrazol-1-yl)-6,7-dihydro-5H-[1,2,4]triazolo[3,4-b][1,3,4] thiadiazine derivatives with promising in vitro anticoronavirus and antitumoral activity. Molecular Diversity, 2022, 26, 1357-1371.	2.1	11
57	An Overview of Marketed Nucleoside and Nucleotide Analogs. Current Protocols, 2022, 2, e376.	1.3	11
58	Anti-inflammatory Activity of a Pteridine Derivative (4AZA2096) Alleviates TNBS-Induced Colitis in Mice. Journal of Interferon and Cytokine Research, 2006, 26, 575-582.	0.5	10
59	Synthesis and Antibacterial Evaluation of a Novel Series of 2-(1,2-Dihydro-3-oxo-3H-pyrazol-2-yl)benzothiazoles. Chemistry and Biodiversity, 2011, 8, 253-265.	1.0	10
60	Cyclin G-associated kinase (GAK) affinity and antiviral activity studies of a series of 3-C-substituted isothiazolo[4,3-b]pyridines. European Journal of Medicinal Chemistry, 2019, 163, 256-265.	2.6	10
61	Discovery of 3-phenyl- and 3-N-piperidinyl-isothiazolo[4,3-b]pyridines as highly potent inhibitors of cyclin G-associated kinase. European Journal of Medicinal Chemistry, 2021, 213, 113158.	2.6	10
62	Discovery of 2-Phenylquinolines with Broad-Spectrum Anti-coronavirus Activity. ACS Medicinal Chemistry Letters, 2022, 13, 855-864.	1.3	10
63	Synthesis of 6-aryl-2â€²-deoxyuridine nucleosides via a Liebeskind cross-coupling methodology. Tetrahedron Letters, 2012, 53, 253-255.	0.7	9
64	Biopharmaceutical profiling of a pyrido[4,3-d] pyrimidine compound library. International Journal of Pharmaceutics, 2013, 455, 19-30.	2.6	9
65	Synthesis of a Nucleobase-Modified ProTide Library. Organic Letters, 2016, 18, 5816-5819.	2.4	9
66	Synthesis and Structureâ€“Activity Relationship Studies of Benzo[b][1,4]oxazinâ€3(4 H)â€one Analogues as Inhibitors of Mycobacterial Thymidylate Synthaseâ€…X. ChemMedChem, 2019, 14, 645-662.	1.6	9
67	Antibacterial and antitumoral properties of 1,2,3-triazolo fused triterpenes and their mechanism of inhibiting the proliferation of HL-60Âcells. European Journal of Medicinal Chemistry, 2021, 224, 113727.	2.6	9
68	Synthesis of Protected Amino Hexitol Nucleosides as Building Blocks for Oligonucleotide Synthesis. Journal of Organic Chemistry, 2018, 83, 15155-15169.	1.7	8
69	Synthesis and cytotoxic evaluation of monocarbonyl curcuminoids and their pyrazoline derivatives. Monatshefte FÂ¼r Chemie, 2019, 150, 2045-2051.	0.9	8
70	Scalable Synthesis, In Vitro cccDNA Reduction, and In Vivo Antihepatitis B Virus Activity of a Phosphonomethoxydeoxythreosyl Adenine Prodrug. Journal of Medicinal Chemistry, 2020, 63, 13851-13860.	2.9	8
71	HIV protease inhibitors Nelfinavir and Lopinavir/Ritonavir markedly improve lung pathology in SARS-CoV-2-infected Syrian hamsters despite lack of an antiviral effect. Antiviral Research, 2022, 202, 105311.	1.9	8
72	Biological characterization of ligands targeting the human CC chemokine receptor 8 (CCR8) reveals the biased signaling properties of small molecule agonists. Biochemical Pharmacology, 2021, 188, 114565.	2.0	7

#	Article	IF	Citations
73	Identification of novel chemotypes as CXCR2 antagonists via a scaffold hopping approach from a thiazolo[4,5-d]pyrimidine. European Journal of Medicinal Chemistry, 2022, 235, 114268.	2.6	7
74	Emimycin and its nucleoside derivatives: Synthesis and antiviral activity. European Journal of Medicinal Chemistry, 2018, 144, 93-103.	2.6	6
75	Synthesis of Novel Nitroxoline Analogs with Potent Cathepsin B Exopeptidase Inhibitory Activity. ChemMedChem, 2020, 15, 2477-2490.	1.6	6
76	Sliding of HIV-1 reverse transcriptase over DNA creates a transient P pocket â€“ targeting P-pocket by fragment screening. Nature Communications, 2021, 12, 7127.	5.8	6
77	A short and straightforward approach towards 6-amino and 6-aminoalkyl thiazolo[4,5-c]pyridazines. Tetrahedron Letters, 2013, 54, 830-833.	0.7	5
78	Synthesis of a 3â€²-Fluoro-3â€²-deoxytetrose Adenine Phosphonate. Journal of Organic Chemistry, 2017, 82, 9464-9478.	1.7	5
79	Synthesis and antiviral evaluation of cyclopentyl nucleoside phosphonates. European Journal of Medicinal Chemistry, 2018, 150, 616-625.	2.6	5
80	Bifunctional aryloxyphosphoramidate prodrugs of 2â€²-C-Me-uridine: synthesis and anti-HCV activity. Organic and Biomolecular Chemistry, 2016, 14, 8743-8757.	1.5	4
81	Synthesis and antiviral evaluation of base-modified deoxythreosyl nucleoside phosphonates. Organic and Biomolecular Chemistry, 2017, 15, 5513-5528.	1.5	4
82	Synthesis, Structureâ€“Activity Relationships, and Antiviral Profiling of 1-Heteroaryl-2-Alkoxyphenyl Analogs as Inhibitors of SARS-CoV-2 Replication. Molecules, 2022, 27, 1052.	1.7	4
83	Synthesis of a C-Nucleoside Phosphonate by Base-Promoted Epimerization. Organic Letters, 2018, 20, 1203-1206.	2.4	3
84	Synthesis and Anti-HIV Activity of Guanine Modified Fluorinated Acyclic Nucleoside Phosphonate Derivatives. Chemistry and Biodiversity, 2019, 16, e1800532.	1.0	3
85	Exploring the dNTP -binding site of HIV-1 reverse transcriptase for inhibitor design. European Journal of Medicinal Chemistry, 2021, 225, 113785.	2.6	3
86	Ivermectin Does Not Protect against SARS-CoV-2 Infection in the Syrian Hamster Model. Microorganisms, 2022, 10, 633.	1.6	3
87	In vitro disposition profiling of heterocyclic compounds. International Journal of Pharmaceutics, 2015, 491, 78-90.	2.6	2
88	Synthesis of 3â€²-fluoro-4â€²-amino-hexitol nucleosides with a pyrimidine nucleobase as building blocks for oligonucleotides. Tetrahedron, 2019, 75, 1107-1114.	1.0	2
89	Palladium-catalyzed cross-coupling reactions on a bromo-naphthalene scaffold in the search for novel human CC chemokine receptor 8 (CCR8) antagonists. Bioorganic Chemistry, 2021, 107, 104560.	2.0	2
90	Tenofovir-Amino Acid Conjugates Act as Polymerase Substratesâ€”Implications for Avoiding Cellular Phosphorylation in the Discovery of Nucleotide Analogues. Journal of Medicinal Chemistry, 2021, 64, 782-796.	2.9	2

#	Article	IF	Citations
91	Synthesis and Anti-HIV Activity of a Novel Series of Isoquinoline-Based CXCR4 Antagonists. Molecules, 2021, 26, 6297.	1.7	2
92	A Set of Experimentally Validated Decoys for the Human CC Chemokine Receptor 7 (CCR7) Obtained by Virtual Screening. Frontiers in Pharmacology, 2022, 13, 855653.	1.6	2
93	Synthesis of a 3â€²â€Deoxyâ€Câ€Nucleoside Phosphonate Bearing 9â€Deazaadenine as Base Moiety. European Journal of Organic Chemistry, 2018, 2018, 6657-6664.	1.2	1
94	A Scaffoldâ€Hopping Strategy toward the Identification of Inhibitors of Cyclinâ€...G Associated Kinase. ChemMedChem, 2019, 14, 237-254.	1.6	1
95	Stimulation of the atypical chemokine receptor 3 (ACKR3) by a small-molecule agonist attenuates fibrosis in a preclinical liver but not lung injury model. Cellular and Molecular Life Sciences, 2022, 79, 293.	2.4	1
96	Synthesis and evaluation of 5-substituted-2'-deoxyuridine monophosphate analogues as inhibitors of flavin-dependent thymidylate synthase in Mycobacterium tuberculosis. , 2011, , .		0
97	Discovery of an acyclic nucleoside phosphonate that inhibits Mycobacterium Tuberculosis ThyX based on the binding mode of a 5-alkynyl substrate analogue. , 2014, , .		0