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	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
2	Remdesivir, Molnupiravir and Nirmatrelvir remain active against SARS-CoV-2 Omicron and other variants of concern. Antiviral Research, 2022, 198, 105252.	1.9	302
3	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
4	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
5	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
6	Ivermectin Does Not Protect against SARS-CoV-2 Infection in the Syrian Hamster Model. Microorganisms, 2022, 10, 633.	1.6	3
7	An Overview of Marketed Nucleoside and Nucleotide Analogs. Current Protocols, 2022, 2, e376.	1.3	11
8	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
9	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
10	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
11	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
12	Discovery of 2-Phenylquinolines with Broad-Spectrum Anti-coronavirus Activity. ACS Medicinal Chemistry Letters, 2022, 13, 855-864.	1.3	10
13	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
14	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
15	Cytopathic SARS-CoV-2 screening on VERO-E6 cells in a large-scale repurposing effort. Scientific Data, 2022, 9, .	2.4	17
16	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
17	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
18	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

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19	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
20	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
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	A patent review of adaptor associated kinase 1 (AAK1) inhibitors (2013-present). Expert Opinion on Therapeutic Patents, 2021, 31, 911-936.	2.4	15
23	In vitro activity of itraconazole against SARSâ€CoVâ€2. Journal of Medical Virology, 2021, 93, 4454-4460.	2.5	30
24	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
25	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
26	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
27	Identification and evaluation of potential SARS-CoV-2 antiviral agents targeting mRNA cap guanine N7-Methyltransferase. Antiviral Research, 2021, 193, 105142.	1.9	19
28	Broad spectrum anti-coronavirus activity of a series of anti-malaria quinoline analogues. Antiviral Research, 2021, 193, 105127.	1.9	27
29	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
30	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
31	Benzofuranyl-2-imidazoles as imidazoline I2 receptor ligands for Alzheimer's disease. European Journal of Medicinal Chemistry, 2021, 222, 113540.	2.6	15
32	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
33	Exploring the dNTP -binding site of HIV-1 reverse transcriptase for inhibitor design. European Journal of Medicinal Chemistry, 2021, 225, 113785.	2.6	3
34	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
35	Synthesis and Anti-HIV Activity of a Novel Series of Isoquinoline-Based CXCR4 Antagonists. Molecules, 2021, 26, 6297.	1.7	2
36	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

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37	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
38	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
39	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
40	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
41	Synthesis of Novel Nitroxoline Analogs with Potent Cathepsin B Exopeptidase Inhibitory Activity. ChemMedChem, 2020, 15, 2477-2490.	1.6	6
42	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
43	Overview of Biologically Active Nucleoside Phosphonates. Frontiers in Chemistry, 2020, 8, 616863.	1.8	26
44	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
45	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
46	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
47	Synthesis and cytotoxic evaluation of monocarbonyl curcuminoids and their pyrazoline derivatives. Monatshefte FÃ¼r Chemie, 2019, 150, 2045-2051.	0.9	8
48	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
49	Synthesis and Anti-HIV Activity of Guanine Modified Fluorinated Acyclic Nucleoside Phosphonate Derivatives. Chemistry and Biodiversity, 2019, 16, e1800532.	1.0	3
50	A Scaffoldâ€Hopping Strategy toward the Identification of Inhibitors of Cyclinâ€…G Associated Kinase. ChemMedChem, 2019, 14, 237-254.	1.6	1
51	Synthesis of a C-Nucleoside Phosphonate by Base-Promoted Epimerization. Organic Letters, 2018, 20, 1203-1206.	2.4	3
52	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
53	Synthesis and antiviral evaluation of cyclopentyl nucleoside phosphonates. European Journal of Medicinal Chemistry, 2018, 150, 616-625.	2.6	5
54	Emimycin and its nucleoside derivatives: Synthesis and antiviral activity. European Journal of Medicinal Chemistry, 2018, 144, 93-103.	2.6	6

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55	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
56	Synthesis of Protected Amino Hexitol Nucleosides as Building Blocks for Oligonucleotide Synthesis. Journal of Organic Chemistry, 2018, 83, 15155-15169.	1.7	8
57	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
58	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
59	Synthesis and antiviral evaluation of base-modified deoxythreosyl nucleoside phosphonates. Organic and Biomolecular Chemistry, 2017, 15, 5513-5528.	1.5	4
60	Discovery of a new Mycobacterium tuberculosis thymidylate synthase X inhibitor with a unique inhibition profile. Biochemical Pharmacology, 2017, 135, 69-78.	2.0	16
61	Astemizole analogues with reduced hERG inhibition as potent antimalarial compounds. Bioorganic and Medicinal Chemistry, 2017, 25, 6332-6344.	1.4	17
62	Synthesis of a 3â€²-Fluoro-3â€²-deoxytetrose Adenine Phosphonate. Journal of Organic Chemistry, 2017, 82, 9464-9478.	1.7	5
63	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
64	Substrate-Dependence of Competitive Nucleotide Pyrophosphatase/Phosphodiesterase1 (NPP1) Inhibitors. Frontiers in Pharmacology, 2017, 8, 54.	1.6	36
65	Anticancer kinase inhibitors impair intracellular viral trafficking and exert broad-spectrum antiviral effects. Journal of Clinical Investigation, 2017, 127, 1338-1352.	3.9	188
66	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
67	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
68	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
69	Synthesis of a Nucleobase-Modified ProTide Library. Organic Letters, 2016, 18, 5816-5819.	2.4	9
70	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
71	In vitro disposition profiling of heterocyclic compounds. International Journal of Pharmaceutics, 2015, 491, 78-90.	2.6	2
72	Selective Inhibitors of Cyclin G Associated Kinase (GAK) as Anti-Hepatitis C Agents. Journal of Medicinal Chemistry, 2015, 58, 3393-3410.	2.9	54

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73	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
74	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
75	Imidazopyridine- and Purine-Thioacetamide Derivatives: Potent Inhibitors of Nucleotide Pyrophosphatase/Phosphodiesterase 1 (NPP1). Journal of Medicinal Chemistry, 2014, 57, 10080-10100.	2.9	62
76	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.	3.0	20
77	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
78	Discovery of an acyclic nucleoside phosphonate that inhibits Mycobacterium Tuberculosis ThyX based on the binding mode of a 5-alkynyl substrate analogue. , 2014, , .		0
79	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
80	Biopharmaceutical profiling of a pyrido[4,3-d] pyrimidine compound library. International Journal of Pharmaceutics, 2013, 455, 19-30.	2.6	9
81	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
82	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
83	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
84	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
85	Synthesis of 6-aryl-2â€²-deoxyuridine nucleosides via a Liebeskind cross-coupling methodology. Tetrahedron Letters, 2012, 53, 253-255.	0.7	9
86	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
87	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
88	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
89	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
90	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

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91	Gelatin degradation assay reveals MMP-9 inhibitors and function of O-glycosylated domain. World Journal of Biological Chemistry, 2011, 2, 14.	1.7	56
92	Synthesis and evaluation of 5-substituted-2'-deoxyuridine monophosphate analogues as inhibitors of flavin-dependent thymidylate synthase in Mycobacterium tuberculosis. , 2011, , .		0
93	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
94	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
95	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
96	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
97	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