Alexei V Buevich

List of Publications by Year
in descending order

70	2,002	236925 25	265206 42
papers	citations	h-index	g-index

73	73	73	2301
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An orally available non-nucleotide STING agonist with antitumor activity. Science, 2020, 369, .	12.6	282
2	LR-HSQMBC: A Sensitive NMR Technique To Probe Very Long-Range Heteronuclear Coupling Pathways. Journal of Organic Chemistry, 2014, 79, 3887-3894.	3.2	132
3	Chemoselective Peptide Modification via Photocatalytic Tryptophan Î²-Position Conjugation. Journal of the American Chemical Society, 2018, 140, 6797-6800.	13.7	97
4	Synergistic Combination of CASE Algorithms and DFT Chemical Shift Predictions: A Powerful Approach for Structure Elucidation, Verification, and Revision. Journal of Natural Products, 2016, 79, 3105-3116.	3.0	71
5	Backbone dynamics of the natively unfolded pro-peptide of subtilisin by heteronuclear NMR relaxation studies. Journal of Biomolecular NMR, 2001, 20, 233-249.	2.8	68
6	Site-Specific NMR Monitoring of cisâ^'trans Isomerization in the Folding of the Proline-Rich Collagen Triple Helixâ€. Biochemistry, 2000, 39, 4299-4308.	2.5	57
7	The Total Synthesis of Psymberin. Organic Letters, 2007, 9, 2597-2600.	4.6	56
8	Dynamics of Unfolded Proteins:Â Incorporation of Distributions of Correlation Times in the Model Free Analysis of NMR Relaxation Data. Journal of the American Chemical Society, 1999, 121, 8671-8672.	13.7	55
9	Design and Validation of Bicyclic Iminopyrimidinones As Beta Amyloid Cleaving Enzyme-1 (BACE1) Inhibitors: Conformational Constraint to Favor a Bioactive Conformation. Journal of Medicinal Chemistry, 2012, 55, 9331-9345.	6.4	55
10	Quantum Chemical Calculations of ¹J_{CC} Coupling Constants for the Stereochemical Determination of Organic Compounds. Organic Letters, 2013, 15, 654-657.	4.6	52
11	Homodecoupled 1,1â€•and 1,nâ€ADEQUATE: Pivotal NMR Experiments for the Structure Revision of Cryptospirolepine. Angewandte Chemie - International Edition, 2015, 54, 10160-10164.	13.8	49
12	Novel Photoswitchable Receptors:Â Synthesis and Cation-Induced Self-Assembly into Dimeric Complexes Leading to Stereospecific [2+2]-Photocycloaddition of Styryl Dyes Containing a 15-Crown-5 Ether Unit. Journal of Organic Chemistry, 2003, 68, 6115-6125.	3.2	45
13	Experimental and Theoretical Investigation of ¹J_{CC} and ⁿJ_{CC} Coupling Constants in Strychnine. Organic Letters, 2012, 14, 5098-5101.	4.6	45
14	Residue-Specific Real-Time NMR Diffusion Experiments Define the Association States of Proteins during Folding. Journal of the American Chemical Society, 2002, 124, 7156-7162.	13.7	43
15	Total Synthesis of (â^')-Himgaline. Journal of the American Chemical Society, 2006, 128, 12654-12655.	13.7	43
16	Structure-Based Design of an Iminoheterocyclic Î²-Site Amyloid Precursor Protein Cleaving Enzyme (BACE) Inhibitor that Lowers Central AÎ² in Nonhuman Primates. Journal of Medicinal Chemistry, 2016, 59, 3231-3248.	6.4	36
17	Synthesis and SAR Studies of Fused Oxadiazines as Î³-Secretase Modulators for Treatment of Alzheimer's Disease. ACS Medicinal Chemistry Letters, 2012, 3, 931-935.	2.8	34
18	NMR Structure Elucidation of Small Organic Molecules and Natural Products: Choosing ADEQUATE vs HMBC. Journal of Natural Products, 2014, 77, 1942-1947.	3.0	34

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19	MK-8353: Discovery of an Orally Bioavailable Dual Mechanism ERK Inhibitor for Oncology. ACS Medicinal Chemistry Letters, 2018, 9, 761-767.	2.8	32
20	Transformation of the Mechanism of Triple-helix Peptide Folding in the Absence of a C-terminal Nucleation Domain and Its Implications for Mutations in Collagen Disorders. Journal of Biological Chemistry, 2004, 279, 46890-46895.	3.4	31
21	Iminoheterocycles as Î³-secretase modulators. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5380-5384.	2.2	30
22	Characterization and Synthesis of Eudistidine C, a Bioactive Marine Alkaloid with an Intriguing Molecular Scaffold. Journal of Organic Chemistry, 2016, 81, 10631-10640.	3.2	30
23	Rapid structure elucidation of drug degradation products using mechanism-based stress studies in conjunction with LCâ€“MSn and NMR spectroscopy: identification of a photodegradation product of betamethasone dipropionate. Journal of Pharmaceutical and Biomedical Analysis, 2009, 50, 275-280.	2.8	26
24	Towards unbiased and more versatile NMRâ€based structure elucidation: A powerful combination of CASE algorithms and DFT calculations. Magnetic Resonance in Chemistry, 2018, 56, 493-504.	1.9	26
25	Enhancing the utility of 1JCH coupling constants in structural studies through optimized DFT analysis. Chemical Communications, 2019, 55, 5781-5784.	4.1	26
26	New Applications of PhI(OAc)2 in Synthesis: Total Synthesis and SAR Development of Potent Antitumor Natural Product Psymberin/Irciniastatin A. Synthesis, 2009, 2009, 2855-2872.	2.3	24
27	Coniothyrione: anatomy of a structure revision. Magnetic Resonance in Chemistry, 2013, 51, 383-390.	1.9	24
28	Using LR-HSQMBC to observe long-range 1Hâ€“15N correlations. Tetrahedron Letters, 2014, 55, 3365-3366.	1.4	22
29	Novel Quinoline-Based P2â€“P4 Macrocyclic Derivatives As Pan-Genotypic HCV NS3/4a Protease Inhibitors. ACS Medicinal Chemistry Letters, 2014, 5, 264-269.	2.8	22
30	Molecular packing of pharmaceuticals analyzed with paramagnetic relaxation enhancement and ultrafast magic angle pinning NMR. Physical Chemistry Chemical Physics, 2020, 22, 13160-13170.	2.8	22
31	Cyclononatetraenyldipropylborane. Organometallics, 1994, 13, 4658-4660.	2.3	21
32	Nuclear magnetic resonance characterization of peptide models of collagenâ€“folding diseases. Philosophical Transactions of the Royal Society B: Biological Sciences, 2001, 356, 159-168.	4.0	21
33	Enhancing computerâ€assisted structure elucidation with DFT analysis of Jâ€couplings. Magnetic Resonance in Chemistry, 2020, 58, 594-606.	1.9	19
34	Three new compounds from the plant Lippia alva as inhibitors of chemokine receptor 5 (CCR5). Bioorganic and Medicinal Chemistry Letters, 2004, 14, 5339-5342.	2.2	18
35	Synthesis of seco-psymberin/irciniastatin A: the discovery of a novel PhI(OAc)2 mediated cascade cyclization reaction. Tetrahedron Letters, 2008, 49, 3592-3595.	1.4	18
36	Bioactivation of GPR40 Agonist MK-8666: Formation of Protein Adducts in Vitro from Reactive Acyl Glucuronide and Acyl CoA Thioester. Chemical Research in Toxicology, 2020, 33, 191-201.	3.3	16

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37	A New Antifungal Sterol Sulfate, Sch 601324, from Chrysosporium sp.. Journal of Antibiotics, 2003, 56, 419-422.	2.0	13
38	Novel steroidal saponins, Sch 725737 and Sch 725739, from a marine starfish, Novodinia antillensis. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 5543-5547.	2.2	13
39	An unusual contra-Michael addition of NaNO2â€“ceric ammonium nitrate to acrylic esters. Tetrahedron Letters, 2008, 49, 2132-2135.	1.4	13
40	Turning Spiroketals Inside Out: A Rearrangement Triggered by an Enol Ether Epoxidation. ChemistryOpen, 2015, 4, 577-580.	1.9	13
41	Substituted 4-morpholine N -arylsulfonamides as Î³-secretase inhibitors. European Journal of Medicinal Chemistry, 2016, 124, 36-48.	5.5	13
42	A Compatibility Study of a Secondary Amine Active Pharmaceutical Ingredient with Starch: Identification of a Novel Degradant Formed Between Desloratadine and a Starch Impurity Using LCâ€“MSn and NMR Spectroscopy. Journal of Pharmaceutical Sciences, 2013, 102, 717-731.	3.3	12
43	Syntheses of Novel 4-tert-Alkyl Ether Proline-Based 16- and 17-Membered Macrocyclic Compounds. Journal of Organic Chemistry, 2002, 67, 2730-2733.	3.2	11
44	Syntheses of dipeptides containing (1R,5S)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2(S)-carboxylic acid (4), (1R,5S)-spiro[3-azabicyclo[3.1.0]hexane-6,1â€²-cyclopropane]- 2(S)-carboxylic acid (5) and (1S,5R)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2(S)-carboxylic acid (6). Tetrahedron Letters, 2006, 47, 6469-6472.	1.4	11
45	Isolation, Structure Elucidation, and Biological Activity of Altersolanol P Using Staphylococcus aureus Fitness Test Based Genome-Wide Screening. Journal of Natural Products, 2014, 77, 497-502.	3.0	11
46	Atropisomerization of 8-Membered Dibenzolactam: Experimental NMR and Theoretical DFT Study. Journal of Organic Chemistry, 2016, 81, 485-501.	3.2	11
47	Discovery of 3(S)-thiomethyl pyrrolidine ERK inhibitors for oncology. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 2029-2034.	2.2	11
48	Overcoming Time-Dependent Inhibition (TDI) of Cytochrome P450 3A4 (CYP3A4) Resulting from Bioactivation of a Fluoropyrimidine Moiety. Journal of Medicinal Chemistry, 2018, 61, 10700-10708.	6.4	11
49	Discovery of MK-8318, a Potent and Selective CRTh2 Receptor Antagonist for the Treatment of Asthma. ACS Medicinal Chemistry Letters, 2018, 9, 679-684.	2.8	10
50	Synthesis of HDAC Inhibitor Libraries via Microscale Workflow. ACS Medicinal Chemistry Letters, 2021, 12, 337-342.	2.8	10
51	NMR studies of calcium-binding to mutant alpha-spectrin EF-hands. Cellular and Molecular Biology Letters, 2004, 9, 167-86.	7.0	10
52	Two complementary, diversity-driven asymmetric syntheses of a 2,2-disubstituted piperidine NK1 antagonist. Tetrahedron: Asymmetry, 2006, 17, 2596-2598.	1.8	9
53	Development of ProTx-II Analogues as Highly Selective Peptide Blockers of Na_v1.7 for the Treatment of Pain. Journal of Medicinal Chemistry, 2022, 65, 485-496.	6.4	9
54	Efficient synthesis and reaction pathway studies of novel fused morpholine oxadiazolines for use as gamma secretase modulators. Tetrahedron Letters, 2012, 53, 6451-6455.	1.4	8

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55	Can We Make Small Molecules Lean? Optimization of a Highly Lipophilic TarO Inhibitor. Journal of Medicinal Chemistry, 2017, 60, 3851-3865.	6.4	8
56	Unusual Chemical Behavior of 9,10-Dipropyl-10-borabicyclodeca-2,4,7-triene, Heteroanalog of (CH)10Hydrocarbons. Journal of Organic Chemistry, 1996, 61, 3514-3519.	3.2	7
57	Isolation, structural determination, synthesis and quantitative determination of impurities in Intron-A, leached from a silicone tubing. Journal of Pharmaceutical and Biomedical Analysis, 2009, 49, 327-332.	2.8	7
58	Generation of Leads for Î³-Secretase Modulation. Journal of Medicinal Chemistry, 2020, 63, 8216-8230.	6.4	7
59	The synthesis of 2,3,6-trisubstituted 1-oxo-1,2-dihydroisoquinolines as potent CRTh 2 antagonists. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 5344-5348.	2.2	6
60	Unexpected Propargylic Retro-Brook Rearrangements in Alkynes. Journal of Organic Chemistry, 2019, 84, 10024-10031.	3.2	5
61	On the power of super acidâ€"iodination of aromatic ring in the presence of imidazole moiety of the potent gamma secretase modulators (GSM) en route to tritium labeling. Tetrahedron Letters, 2012, 53, 1725-1727.	1.4	3
62	Conformation of gem-disubstituted alkylarylpiperidines and their implication in design and synthesis of a conformationally-rigidified NK1 antagonist. Tetrahedron Letters, 2013, 54, 6199-6203.	1.4	3
63	Development of ¹⁹Fâ€detected 1,1â€ADEQUATE for the characterization of polyfluorinated and perfluorinated compounds. Magnetic Resonance in Chemistry, 2021, 59, 628-640.	1.9	3
64	19 FDetected Dualâ€optimized Inverted 1 J CC 1,nâ€ADEQUATE. Magnetic Resonance in Chemistry, 2021, , .	1.9	3
65	Synthesis and Dynamic Properties of Cyclooctatetraenyl(dipropyl)borane. Mendeleev Communications, 1994, 4, 221-223.	1.6	2
66	Concise syntheses and HCV NS5B polymerase inhibition of (2â€² R)-3 and (2â€² S)-2â€²-ethynyluridine-10 and related nucleosides. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 5349-5352.	2.2	2
67	Driving to a Better Understanding of Acyl Glucuronide Transformations Using NMR and Molecular Modeling. Chemical Research in Toxicology, 2022, 35, 459-474.	3.3	2
68	Novel intramolecular aminohydroxylation toward the syntheses of 2â€²-amino-2â€²-ethynyl nucleosides. Tetrahedron Letters, 2021, 72, 153066.	1.4	1
69	Unprecedented Reversal of Regioselectivity during Methanolysis and an Interception of Curtius Rearrangement. European Journal of Organic Chemistry, 2021, 2021, 5073-5079.	2.4	0
70	Lead Optimization to Advance Protease-Activated Receptor-1 Antagonists in Early Discovery. Journal of Medicinal Chemistry, 2022, 65, 5575-5592.	6.4	0