Vyacheslav V Filichev

List of Publications by Year
in descending order

62 papers	1,955 citations	279701 23 h-index	289141 40 g-index
69 all docs	69 docs citations	69 times ranked	3240 citing authors

#	Article	IF	Citations
1	Heterochromatin protein 1Î± interacts with parallel RNA and DNA G-quadruplexes. Nucleic Acids Research, 2020, 48, 682-693.	6.5	522
2	Molecular Engineering of Guanine-Rich Sequences: Z-DNA, DNA Triplexes, and G-Quadruplexes. Chemical Reviews, 2013, 113, 3044-3083.	23.0	166
3	Stable and Selective Formation of Hoogsteen-Type Triplexes and Duplexes Using Twisted Intercalating Nucleic Acids (TINA) Prepared via Postsynthetic Sonogashira Solid-Phase Coupling Reactions. Journal of the American Chemical Society, 2005, 127, 14849-14858.	6.6	95
4	Identification of a New G-Quadruplex Motif in the KRAS Promoter and Design of Pyrene-Modified G4-Decoys with Antiproliferative Activity in Pancreatic Cancer Cells. Journal of Medicinal Chemistry, 2009, 52, 564-568.	2.9	85
5	Stabilization of Parallel Triplexes by Twisted Intercalating Nucleic Acids (TINAs) Incorporating 1,2,3-Triazole Units and Prepared by Microwave-Accelerated Click Chemistry. Chemistry - A European Journal, 2007, 13, 6379-6386.	1.7	70
6	Enhanced anti-HIV-1 activity of G-quadruplexes comprising locked nucleic acids and intercalating nucleic acids. Nucleic Acids Research, 2011, 39, 2470-2481.	6.5	61
7	1â€², 2â€², and 4â€²-Ethynylpyrenes in the Structure of Twisted Intercalating Nucleic Acids: Structure, Thermal Stability, and Fluorescence Relationship. Chemistry - A European Journal, 2008, 14, 9968-9980.	1.7	54
8	<scp>DNA</scp> Gâ€quadruplexes show strong interaction with <scp>DNA</scp> methyltransferases in vitro. FEBS Letters, 2016, 590, 2870-2883.	1.3	43
9	Synthesis of an aza analogue of 2-deoxy-d-ribofuranose and its homologues. Carbohydrate Research, 2001, 333, 115-122.	1.1	40
10	Purine twisted-intercalating nucleic acids: a new class of anti-gene molecules resistant to potassium-induced aggregation. Nucleic Acids Research, 2008, 36, 3494-3507.	6.5	40
11	Intercalating nucleic acids (INAs) with insertion of N-(pyren-1-ylmethyl)-(3R,4R)-4-(hydroxymethyl)pyrrolidin-3-ol. DNA (RNA) duplex and DNA three-way junction stabilities. Organic and Biomolecular Chemistry, 2003, 1, 100-103.	1.5	35
12	Synthesis of Î²â€Pyrrolicâ€Modified Porphyrins and Their Incorporation into DNA. Chemistry - A European Journal, 2011, 17, 6227-6238.	1.7	34
13	Triplexâ€Forming Twisted Intercalating Nucleic Acids (TINAs): Design Rules, Stabilization of Antiparallel DNA Triplexes and Inhibition of Gâ€Quartetâ€Dependent Selfâ€Association. ChemBioChem, 2011, 12, 2365-2374.	1.3	33
14	G-Quadruplex Structures and CpG Methylation Cause Drop-Out of the Maternal Allele in Polymerase Chain Reaction Amplification of the Imprinted MEST Gene Promoter. PLoS ONE, 2014, 9, e113955.	1.1	30
15	Intercalating Nucleic Acids: The Influence of Linker Length and Intercalator Type on Their Duplex Stabilities. Nucleosides, Nucleotides and Nucleic Acids, 2004, 23, 207-225.	0.4	29
16	High Thermal Stability of 5â€²-5â€²-Linked Alternate Hoogsteen Triplexes at Physiological pH. Angewandte Chemie - International Edition, 2006, 45, 5311-5315.	7.2	29
17	Inhibiting APOBEC3 Activity with Single-Stranded DNA Containing 2â€²-Deoxyzebularine Analogues. Biochemistry, 2019, 58, 391-400.	1.2	29
18	Easily denaturing nucleic acids derived from intercalating nucleic acids: thermal stability studies, dual duplex invasion and inhibition of transcription start. Nucleic Acids Research, 2005, 33, 7129-7137.	6.5	27

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19	Synthesis of Twisted Intercalating Nucleic Acids Possessing Acridine Derivatives. Thermal Stability Studies. Bioconjugate Chemistry, 2006, 17, 950-957.	1.8	27
20	Triplex Formation by Pyreneâ€Labelled Probes for Nucleic Acid Detection in Fluorescence Assays. ChemBioChem, 2008, 9, 791-801.	1.3	27
21	Synthesis of 1â€²-aza-C-nucleosides from (3R,4R)-4-(hydroxymethyl)pyrrolidin-3-ol. Tetrahedron, 2001, 57, 9163-9168.	1.0	25
22	Twisted Intercalating Nucleic Acids â€“ Intercalator Influence on Parallel Triplex Stabilities. European Journal of Organic Chemistry, 2006, 2006, 3960-3968.	1.2	25
23	Significantly Enhanced DNA Thermal Stability Resulting from Porphyrin Hâ€Aggregate Formation in the Minor Groove of the Duplex. ChemBioChem, 2010, 11, 1833-1839.	1.3	25
24	Locked Nucleic Acids and Intercalating Nucleic Acids in the Design of Easily Denaturing Nucleic Acids: Thermal Stability Studies. ChemBioChem, 2004, 5, 1673-1679.	1.3	24
25	Selective inhibition of APOBEC3 enzymes by single-stranded DNAs containing 2â€²-deoxyzebularine. Organic and Biomolecular Chemistry, 2019, 17, 9435-9441.	1.5	23
26	NMR-based method of small changes reveals how DNA mutator APOBEC3A interacts with its single-stranded DNA substrate. Nucleic Acids Research, 2017, 45, 5602-5613.	6.5	20
27	Intercalating nucleic acids: The inversion of the stereocenter in 1-O-(pyren-1-ylmethyl)glycerol from R to S. Thermal stability towards ssDNA, ssRNA and its own type of oligodeoxynucleotides. Tetrahedron Letters, 2004, 45, 4907-4910.	0.7	19
28	Investigation of twisted intercalating nucleic acid (TINA)-modified antisense oligonucleotides for splice modulation by induced exon-skipping in vitro. RSC Advances, 2016, 6, 95169-95172.	1.7	19
29	Interdependence of pyrene interactions and tetramolecular G4-DNA assembly. Organic and Biomolecular Chemistry, 2015, 13, 3742-3748.	1.5	16
30	DNA-Based Assemblies for Photochemical Upconversion. Journal of Physical Chemistry B, 2015, 119, 14045-14052.	1.2	16
31	Differential Inhibition of APOBEC3 DNAâ€Mutator Isozymes by Fluoroâ€and Nonâ€Fluoroâ€Substituted 2â€²â€Deoxyzebularine Embedded in Singleâ€Stranded DNA. ChemBioChem, 2020, 21, 1028-1035.	1.3	16
32	An alternative synthesis of Î²-pyrrolic acetylene-substituted porphyrins. Tetrahedron Letters, 2008, 49, 5632-5635.	0.7	15
33	Gâ€Quadruplex Supramolecular Assemblies in Photochemical Upconversion. Chemistry - A European Journal, 2016, 22, 10376-10381.	1.7	15
34	Synthesis of novel thymidine derivatives containing a polycyclic tetrazole linker. Tetrahedron Letters, 2002, 43, 1901-1903.	0.7	14
35	DNA visualization in single molecule studies carried out with optical tweezers: Covalent versus non-covalent attachment of fluorophores. Biochemical and Biophysical Research Communications, 2015, 466, 226-231.	1.0	14
36	Effects of Pressure and pH on the Physical Stability of an Iâ€Motif DNA Structure. ChemPhysChem, 2019, 20, 1567-1571.	1.0	14

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37	Neutral and Negatively Charged Phosphate Modifications Altering Thermal Stability, Kinetics of Formation and Monovalent Ion Dependence of DNA Gâ€Quadruplexes. Chemistry - an Asian Journal, 2019, 14, 1212-1220.	1.7	13
38	Assembly Dependent Fluorescence Enhancing Nucleic Acids in Sequenceâ€Specific Detection of Doubleâ€Stranded DNA. ChemPlusChem, 2014, 79, 58-66.	1.3	12
39	Title is missing!. Helvetica Chimica Acta, 2002, 85, 2847-2855.	1.0	11
40	Synthesis, X-ray and conformational studies of novel tetrazole-containing macrocycles: 4,13-dioxa-1,7,8,9,17,18,19,20-octaazatricyclo[14.2.1.17,10]icosa-8,10(20),16(19),17-tetraene and 4,14-dioxa-1,7,8,9,10,18,19,20-octaazatricyclo[15.2.1.07,10]icosa-8,10,17(20),18-tetraeneâ€. Perkin Transactions II RSC, 2001, , 417-421.	1.1	10
41	Enhanced Inhibition of Transcription Start by Targeting with 2â€²-OMe Pentaribonucleotides Comprising Locked Nucleic Acids and Intercalating Nucleic Acids. ChemBioChem, 2005, 6, 1181-1184.	1.3	10
42	DNA duplex as a scaffold for a ground state complex formation between a zinc cationic porphyrin and phenylethynylpyren-1-yl. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 288, 76-81.	2.0	10
43	Silencing ofBCR/ABLChimeric Gene in Human Chronic Myelogenous Leukemia Cell Line K562 by siRNA-Nuclear Export Signal Peptide Conjugates. Nucleic Acid Therapeutics, 2017, 27, 168-175.	2.0	9
44	Î±-2â€²-Deoxyguanosine can switch DNA G-quadruplex topologies from antiparallel to parallel. Organic and Biomolecular Chemistry, 2019, 17, 4031-4042.	1.5	9
45	Stability of Hoogsteenâ€Type Triplexes â€“ Electrostatic Attraction between Duplex Backbone and Triplexâ€Forming Oligonucleotide (TFO) Using an Intercalating Conjugate. Helvetica Chimica Acta, 2008, 91, 805-818.	1.0	8
46	Helicases, G4â€DNAs, and Drug Design. ChemMedChem, 2014, 9, 2031-2034.	1.6	8
47	The Importance of Phosphates for DNA Gâ€Quadruplex Formation: Evaluation of Zwitterionic Gâ€Rich Oligodeoxynucleotides. ChemBioChem, 2020, 21, 2455-2466.	1.3	8
48	DNA with zwitterionic and negatively charged phosphate modifications: Formation of DNA triplexes, duplexes and cell uptake studies. Beilstein Journal of Organic Chemistry, 2021, 17, 749-761.	1.3	8
49	The First Postsynthetic 5â€²â€5â€² Intercalators in Triplex DNA â€“ Solidâ€Phase Postsynthetic Sonogashira Reaction and Homocouplings on Arylacetylenes. Helvetica Chimica Acta, 2009, 92, 716-730.	1.0	7
50	The Effect of INA [(R)-1-O-(1-Pyrenylmethyl)Glycerol] Insertions on the Structure and Biological Activity of a G-Quadruplex from a CriticalKrasG-Rich Sequence. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1641-1643.	0.4	6
51	Optimization of the sequence of twisted intercalating nucleic acids (TINA) forming triple helix with the polypurine tract of the proviral HIV DNA. Nucleic Acids Symposium Series, 2009, 53, 139-140.	0.3	6
52	Ligand assembly and chirality transfer guided by DNA modified with enantiomerically pure [2.2]paracyclophanes. RSC Advances, 2013, 3, 9373.	1.7	6
53	Small-Angle X-ray Scattering Models of APOBEC3B Catalytic Domain in a Complex with a Single-Stranded DNA Inhibitor. Viruses, 2021, 13, 290.	1.5	6
54	1,5-Di(tetrazol-5-yl)-3-oxapentane as a substrate in the synthesis of novel heterocyclic systems. Mendeleev Communications, 1999, 9, 116-117.	0.6	5

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55	Application of Cu(I)-catalyzed azideâ€“alkyne cycloaddition for the design and synthesis of sequence specific probes targeting double-stranded DNA. Beilstein Journal of Organic Chemistry, 2016, 12, 1348-1360.	1.3	5
56	Phosphorothioate modification improves exon-skipping of antisense oligonucleotides based on sulfonyl phosphoramidates in mdx mouse myotubes. Organic and Biomolecular Chemistry, 2022, 20, 3790-3797.	1.5	4
57	Synthesis and incorporation of an Î±-hexofuranosyl thymidine into oligodeoxynucleotides via its two exocyclic OH-groups. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 581-584.	1.0	3
58	Hexofuranosyl thymidines inserted into oligodeoxynucleotides via their two exocyclic hydroxy groups. Oligo synthesis and RNase H activity. Bioorganic and Medicinal Chemistry, 2004, 12, 2843-2851.	1.4	3
59	Cationic modified nucleic acids for use in DNA hairpins and parallel triplexes. Organic and Biomolecular Chemistry, 2011, 9, 4527.	1.5	2
60	Towards Metal-Mediated G-Quartet Analogues: 1,2,4-Triazole Nucleotides. Nucleosides, Nucleotides and Nucleic Acids, 2015, 34, 277-288.	0.4	2
61	Assembly Dependent Fluorescence Enhancing Nucleic Acids in Sequenceâ€Specific Detection of Doubleâ€Stranded DNA. ChemPlusChem, 2014, 79, 2-2.	1.3	0
62	Synthesis of twisted intercalating nucleic acids (TINA) possesing acridine derivatives. , 2005, , .		0