

Anna M Varizhuk

List of Publications by Year in descending order

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47
papers

811
citations

471509

17
h-index

580821

25
g-index

55
all docs

55
docs citations

55
times ranked

1096
citing authors

#	ARTICLE	IF	CITATIONS
1	Anticancer activity of G4-targeting phenoxazine derivatives in vitro. <i>Biochimie</i> , 2022, 201, 43-54.	2.6	4
2	Phenoxazine pseudonucleotides in DNA i-motifs allow precise profiling of small molecule binders by fluorescence monitoring. <i>Analyst</i> , 2021, 146, 4436-4440.	3.5	5
3	Genomic DNA i-motifs as fast sensors responsive to near-physiological pH microchanges. <i>Biosensors and Bioelectronics</i> , 2021, 175, 112864.	10.1	5
4	DNA G-Quadruplexes Contribute to CTCF Recruitment. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7090.	4.1	15
5	EGCG as an anti-SARS-CoV-2 agent: Preventive versus therapeutic potential against original and mutant virus. <i>Biochimie</i> , 2021, 191, 27-32.	2.6	14
6	Phenoxazine-based scaffold for designing G4-interacting agents. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 6147-6154.	2.8	8
7	Aureolic Acid Group of Agents as Potential Antituberculosis Drugs. <i>Antibiotics</i> , 2020, 9, 715.	3.7	2
8	Novel Genetically Encoded Bright Positive Calcium Indicator NCaMP7 Based on the mNeonGreen Fluorescent Protein. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1644.	4.1	33
9	FGCaMP7, an Improved Version of Fungi-Based Ratiometric Calcium Indicator for In Vivo Visualization of Neuronal Activity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3012.	4.1	17
10	Transcription-facilitating histone chaperons interact with genomic and synthetic G4 structures. <i>International Journal of Biological Macromolecules</i> , 2020, 160, 1144-1157.	7.5	7
11	Short Duplex Module Coupled to G-Quadruplexes Increases Fluorescence of Synthetic GFP Chromophore Analogues. <i>Sensors</i> , 2020, 20, 915.	3.8	1
12	DNA G-Quadruplexes (G4s) Modulate Epigenetic (Re)Programming and Chromatin Remodeling. <i>BioEssays</i> , 2019, 41, e1900091.	2.5	23
13	Benzothiazole-based cyanines as fluorescent "light-up" probes for duplex and quadruplex DNA. <i>Biochimie</i> , 2019, 162, 216-228.	2.6	17
14	Oligonucleotide Primers with G8AE-Clamp Modifications for RT-qPCR Detection of the Low-Copy dsRNA. <i>Methods in Molecular Biology</i> , 2019, 1973, 281-297.	0.9	2
15	DNA i-Motifs With Guanidino-i-Clamp Residues: The Counterplay Between Kinetics and Thermodynamics and Implications for the Design of pH Sensors. <i>Computational and Structural Biotechnology Journal</i> , 2019, 17, 527-536.	4.1	5
16	i-Clamp phenoxazine for the fine tuning of DNA i-motif stability. <i>Nucleic Acids Research</i> , 2018, 46, 2751-2764.	14.5	26
17	The structural diversity of C-rich DNA aggregates: unusual self-assembly of beetle-like nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3543-3553.	2.8	16
18	Genetically encoded calcium indicator with NTnC-like design and enhanced fluorescence contrast and kinetics. <i>BMC Biotechnology</i> , 2018, 18, 10.	3.3	16

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19	Data set on G4 DNA interactions with human proteins. <i>Data in Brief</i> , 2018, 18, 348-359.	1.0	13
20	Efficient silica synthesis from tetra(glycerol)orthosilicate with cathepsin- and silicatein-like proteins. <i>Scientific Reports</i> , 2018, 8, 16759.	3.3	11
21	NTnC-like genetically encoded calcium indicator with a positive and enhanced response and fast kinetics. <i>Scientific Reports</i> , 2018, 8, 15233.	3.3	24
22	Polymorphism of G4 associates: from stacks to wires via interlocks. <i>Nucleic Acids Research</i> , 2018, 46, 8978-8992.	14.5	34
23	The expanding repertoire of G4 DNA structures. <i>Biochimie</i> , 2017, 135, 54-62.	2.6	71
24	Conformational polymorphism of G-rich fragments of DNA Alu-repeats. I. Noncanonical structures. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2017, 11, 62-71.	0.4	2
25	Data on secondary structures and ligand interactions of G-rich oligonucleotides that defy the classical formula for G4 motifs. <i>Data in Brief</i> , 2017, 11, 258-265.	1.0	5
26	Synthesis of oligonucleotides containing novel G-clamp analogue with C8-tethered group in phenoxazine ring: Implication to qPCR detection of the low-copy Kemerovo virus dsRNA. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 3597-3605.	3.0	15
27	Conformational polymorphism of G-rich fragments of DNA Alu-repeats. II. The putative role of G-quadruplex structures in genomic rearrangements. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2017, 11, 146-153.	0.4	8
28	Anti-HIV Activities of Intramolecular G4 and Non-G4 Oligonucleotides. <i>Nucleic Acid Therapeutics</i> , 2017, 27, 56-66.	3.6	11
29	Interaction of <i>Bacteroides fragilis</i> Toxin with Outer Membrane Vesicles Reveals New Mechanism of Its Secretion and Delivery. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 2.	3.9	25
30	Green fluorescent genetically encoded calcium indicator based on calmodulin/M13-peptide from fungi. <i>PLoS ONE</i> , 2017, 12, e0183757.	2.5	22
31	G4 Aptamers: Trends in Structural Design. <i>Mini-Reviews in Medicinal Chemistry</i> , 2016, 16, 1321-1329.	2.4	25
32	A Solution to the Common Problem of the Synthesis and Applications of Hexachlorofluorescein Labeled Oligonucleotides. <i>PLoS ONE</i> , 2016, 11, e0166911.	2.5	2
33	A new design for a green calcium indicator with a smaller size and a reduced number of calcium-binding sites. <i>Scientific Reports</i> , 2016, 6, 34447.	3.3	35
34	The systematic approach to describing conformational rearrangements in G-quadruplexes. <i>Journal of Biomolecular Structure and Dynamics</i> , 2016, 34, 705-715.	3.5	16
35	Chiral Acyclic PNA Modifications: Synthesis and Properties. <i>Studies in Natural Products Chemistry</i> , 2016, 47, 261-305.	1.8	3
36	A Universal Base in a Specific Role: Tuning up a Thrombin Aptamer with 5-Nitroindole. <i>Scientific Reports</i> , 2015, 5, .	3.3	22

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37	Polyanionic Carboxyethyl Peptide Nucleic Acids (ce-PNAs): Synthesis and DNA Binding. PLoS ONE, 2015, 10, e0140468.	2.5	13
38	Comparison of the "Chemical"™ and "Structural"™ Approaches to the Optimization of the Thrombin-Binding Aptamer. PLoS ONE, 2014, 9, e89383.	2.5	29
39	Anomeric DNA quadruplexes. Artificial DNA, PNA & XNA, 2014, 5, e28422.	1.4	13
40	G-quadruplex ligands: Mechanisms of anticancer action and target binding. Molecular Biology, 2014, 48, 778-794.	1.3	24
41	Synthesis, characterization and inÂvitro activity of thrombin-binding DNA aptamers with triazole internucleotide linkages. European Journal of Medicinal Chemistry, 2013, 67, 90-97.	5.5	47
42	Synthesis of Triazole-Linked Oligonucleotides with High Affinity to DNA Complements and an Analysis of Their Compatibility with Biosystems. Journal of Organic Chemistry, 2013, 78, 5964-5969.	3.2	44
43	Amino-Functionalized Oligonucleotides with Peptide Internucleotide Linkages. Letters in Organic Chemistry, 2012, 9, 106-113.	0.5	0
44	DNA complexes with Ni nanoparticles: structural and functional properties. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	5
45	Triazole-Linked Oligonucleotides with Mixed-Base Sequences: Synthesis and Hybridization Properties. European Journal of Organic Chemistry, 2012, 2012, 2173-2179.	2.4	15
46	Synthesis and hybridization data of oligonucleotide analogs with triazole internucleotide linkages, potential antiviral and antitumor agents. Bioorganic Chemistry, 2011, 39, 127-131.	4.1	18
47	Oligonucleotide Analogs with Peptide Internucleotide Linkages. Nucleosides, Nucleotides and Nucleic Acids, 2011, 30, 31-48.	1.1	5