

Yan Xu

List of Publications by Year in descending order

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citations

147566

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114278

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87
all docs

87
docs citations

87
times ranked

3743
citing authors

#	ARTICLE	IF	CITATIONS
1	The new models of the human telomere d[AGGG(TTAGGG)3] in K ⁺ solution. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 5584-5591.	1.4	373
2	Influenza Virus Z-RNAs Induce ZBP1-Mediated Necroptosis. <i>Cell</i> , 2020, 180, 1115-1129.e13.	13.5	288
3	Chemistry in human telomere biology: structure, function and targeting of telomere DNA/RNA. <i>Chemical Society Reviews</i> , 2011, 40, 2719.	18.7	287
4	Nanomechanical DNA origami 'single-molecule beacons' directly imaged by atomic force microscopy. <i>Nature Communications</i> , 2011, 2, 449.	5.8	247
5	(P)-Helicene Displays Chiral Selection in Binding to Z-DNA. <i>Journal of the American Chemical Society</i> , 2004, 126, 6566-6567.	6.6	215
6	Formation of the G-quadruplex and i-motif structures in retinoblastoma susceptibility genes (Rb). <i>Nucleic Acids Research</i> , 2006, 34, 949-954.	6.5	200
7	A Chiral Wedge Molecule Inhibits Telomerase Activity. <i>Journal of the American Chemical Society</i> , 2010, 132, 3778-3782.	6.6	179
8	G-Quadruplex Formation by Human Telomeric Repeats-Containing RNA in Na ⁺ Solution. <i>Journal of the American Chemical Society</i> , 2008, 130, 11179-11184.	6.6	168
9	Telomeric repeat-containing RNA structure in living cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14579-14584.	3.3	162
10	ADAR1 masks the cancer immunotherapeutic promise of ZBP1-driven necroptosis. <i>Nature</i> , 2022, 606, 594-602.	13.7	149
11	Targeting Human Telomeric Higher-Order DNA: Dimeric G-Quadruplex Units Serve as Preferred Binding Site. <i>Journal of the American Chemical Society</i> , 2013, 135, 18786-18789.	6.6	123
12	Consecutive Formation of G-Quadruplexes in Human Telomeric Overhang DNA: A Protective Capping Structure for Telomere Ends. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7833-7836.	7.2	122
13	Characterization of human telomere RNA G-quadruplex structures in vitro and in living cells using 19F NMR spectroscopy. <i>Nucleic Acids Research</i> , 2017, 45, 5501-5511.	6.5	91
14	Structure of a human telomeric DNA sequence stabilized by 8-bromoguanosine substitutions, as determined by NMR in a K ⁺ solution. <i>FEBS Journal</i> , 2007, 274, 3545-3556.	2.2	85
15	Click Chemistry for the Identification of G-Quadruplex Structures: Discovery of a DNA-RNA G-Quadruplex. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3281-3284.	7.2	76
16	8-Methylguanosine: A Powerful Z-DNA Stabilizer. <i>Journal of the American Chemical Society</i> , 2003, 125, 13519-13524.	6.6	75
17	Hybrid-type and two-tetrad antiparallel telomere DNA G-quadruplex structures in living human cells. <i>Nucleic Acids Research</i> , 2019, 47, 4940-4947.	6.5	75
18	A U-Tetrad Stabilizes Human Telomeric RNA G-Quadruplex Structure. <i>Journal of the American Chemical Society</i> , 2010, 132, 7231-7233.	6.6	59

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19	Photochemical Approach to Probing Different DNA Structures. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1354-1362.	7.2	57
20	Efficient Generation of 2'-Deoxyuridin-5-yl at 5'-(G/C)AAXUXU-3' (X = Br, I) Sequences in Duplex DNA under UV Irradiation. <i>Journal of the American Chemical Society</i> , 2005, 127, 44-45.	6.6	56
21	Human Telomeric DNA Sequence-Specific Cleaving by G-Quadruplex Formation. <i>Journal of the American Chemical Society</i> , 2009, 131, 2871-2874.	6.6	55
22	Highly Efficient Photochemical 2'-Deoxyribonolactone Formation at the Diagonal Loop of a 5-Iodouracil-Containing Antiparallel G-Quartet. <i>Journal of the American Chemical Society</i> , 2004, 126, 6274-6279.	6.6	53
23	Oligonucleotide Models of Telomeric DNA and RNA Form a Hybrid G-quadruplex Structure as a Potential Component of Telomeres. <i>Journal of Biological Chemistry</i> , 2012, 287, 41787-41796.	1.6	52
24	Structure-Dependent Binding of hnRNPA1 to Telomere RNA. <i>Journal of the American Chemical Society</i> , 2017, 139, 7533-7539.	6.6	48
25	An intramolecular antiparallel G-quadruplex formed by human telomere RNA. <i>Chemical Communications</i> , 2018, 54, 3944-3946.	2.2	46
26	Stable Lariat Formation Based on a G-Quadruplex Scaffold. <i>Journal of the American Chemical Society</i> , 2008, 130, 16470-16471.	6.6	45
27	Investigation of higher-order RNA G-quadruplex structures in vitro and in living cells by 19F NMR spectroscopy. <i>Nature Protocols</i> , 2018, 13, 652-665.	5.5	43
28	Structure, function and targeting of human telomere RNA. <i>Methods</i> , 2012, 57, 100-105.	1.9	41
29	Photochemical determination of different DNA structures. <i>Nature Protocols</i> , 2007, 2, 78-87.	5.5	35
30	Inhibition of Translation by Small RNA-Stabilized mRNA Structures in Human Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 19153-19159.	6.6	35
31	Efficient and Erroneous Incorporation of Oxidized DNA Precursors by Human DNA Polymerase β . <i>Biochemistry</i> , 2007, 46, 5515-5522.	1.2	34
32	Unusual Topological RNA Architecture with an Eight-Stranded Helical Fragment Containing A-, G-, and U-Tetrads. <i>Journal of the American Chemical Society</i> , 2017, 139, 2565-2568.	6.6	31
33	SWI/SNF-mediated chromatin remodeling induces Z-DNA formation on a nucleosome. <i>Cell and Bioscience</i> , 2012, 2, 3.	2.1	29
34	A Chemistry-Based Method To Detect Individual Telomere Length at a Single Chromosome Terminus. <i>Journal of the American Chemical Society</i> , 2013, 135, 14-17.	6.6	29
35	Telomeric DNA-RNA-hybrid G-quadruplex exists in environmental conditions of HeLa cells. <i>Chemical Communications</i> , 2020, 56, 6547-6550.	2.2	29
36	Formation and stabilization of the telomeric antiparallel G-quadruplex and inhibition of telomerase by novel benzothioxanthene derivatives with anti-tumor activity. <i>Scientific Reports</i> , 2015, 5, 13693.	1.6	26

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37	I-motif and quadruplex-based device that can control a protein release or bind and release small molecule to influence biological processes. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 1275-1279.	1.4	25
38	Conjugation of Peptide Nucleic Acid with a Pyrrole/Imidazole Polyamide to Specifically Recognize and Cleave DNA. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13681-13684.	7.2	25
39	Antiparallel RNA G-quadruplex Formed by Human Telomere RNA Containing 8-Bromoguanosine. <i>Scientific Reports</i> , 2017, 7, 6695.	1.6	23
40	G-Rich Sequence-Specific Recognition and Scission of Human Genome by PNA/DNA Hybrid G-Quadruplex Formation. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7198-7202.	7.2	22
41	Human Telomeric RNA in G-quadruplex Structure. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 175-176.	0.3	21
42	A 6-mer Photocontrolled Oligonucleotide as an Effective Telomerase Inhibitor. <i>Journal of the American Chemical Society</i> , 2010, 132, 631-637.	6.6	21
43	Fluorescence imaging of chromosomal DNA using click chemistry. <i>Scientific Reports</i> , 2016, 6, 33217.	1.6	20
44	HnRNPA1 Specifically Recognizes the Base of Nucleotide at the Loop of RNA G-Quadruplex. <i>Molecules</i> , 2018, 23, 237.	1.7	20
45	A multi-functional guanine derivative for studying the DNA G-quadruplex structure. <i>Analyst</i> , 2017, 142, 4083-4088.	1.7	18
46	A Nucleoside Derivative 5-Vinyluridine (VrU) for Imaging RNA in Cells and Animals. <i>Bioconjugate Chemistry</i> , 2019, 30, 2958-2966.	1.8	17
47	A Simple and Sensitive ¹⁹ F NMR Approach for Studying the Interaction of RNA G-Quadruplex with Ligand Molecule and Protein. <i>ChemistrySelect</i> , 2017, 2, 4170-4175.	0.7	16
48	Studying DNA G-Quadruplex Aptamer by ¹⁹ F NMR. <i>ACS Omega</i> , 2017, 2, 8843-8848.	1.6	16
49	2-O-Methyl-8-methylguanosine as a Z-Form RNA Stabilizer for Structural and Functional Study of Z-RNA. <i>Molecules</i> , 2018, 23, 2572.	1.7	16
50	Improving Thermodynamic Stability and Anticoagulant Activity of a Thrombin Binding Aptamer by Incorporation of 8-trifluoromethyl-2-deoxyguanosine. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 711-718.	2.9	16
51	Evidence for G-Quadruplex DNA in Human Cells. <i>ChemBioChem</i> , 2013, 14, 927-928.	1.3	15
52	Finding a human telomere DNA-RNA hybrid G-quadruplex formed by human telomeric 6-mer RNA and 16-mer DNA using click chemistry: A protective structure for telomere end. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 4419-4421.	1.4	15
53	DNA nanotechnology enhanced single-molecule biosensing and imaging. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 140, 116267.	5.8	15
54	Oligonucleotides DNA containing 8-trifluoromethyl-2-deoxyguanosine for observing Z-DNA structure. <i>Nucleic Acids Research</i> , 2020, 48, 7041-7051.	6.5	14

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55	Structural and functional characterizations of the G-quartet and i-motif elements in retinoblastoma susceptibility genes (Rb). <i>Nucleic Acids Symposium Series</i> , 2005, 49, 177-178.	0.3	11
56	Recent progress in human telomere RNA structure and function. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 2577-2584.	1.0	11
57	Characterization of Structure and Catalytic Activity of a Complex between Heme and an All Parallel-Stranded Tetrameric G-Quadruplex Formed from DNA/RNA Chimera Sequence d(TTA)r(GGG)dT. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 621-629.	2.0	11
58	¹⁹ F NMR Spectroscopy for the Analysis of DNA G-Quadruplex Structures Using ¹⁹ F-Labeled Nucleobase. <i>Methods in Molecular Biology</i> , 2019, 2035, 407-433.	0.4	10
59	The recognition of higher-order G-quadruplex by chiral cyclic-helicene molecules. <i>Nucleic Acids Symposium Series</i> , 2006, 50, 183-184.	0.3	9
60	The new models of the human telomere DNA in K ⁺ solution revealed by NMR analysis assisted by the incorporation of 8-bromoguanines. <i>Nucleic Acids Symposium Series</i> , 2006, 50, 45-46.	0.3	9
61	Human Telomere RNA: A Potential Target for Ligand Recognition. <i>Current Pharmaceutical Design</i> , 2012, 18, 2096-2101.	0.9	9
62	A Small Ligand That Selectively Binds to the G-quadruplex at the Human Vascular Endothelial Growth Factor Internal Ribosomal Entry Site and Represses the Translation. <i>Frontiers in Chemistry</i> , 2021, 9, 781198.	1.8	9
63	SIPA1 Enhances Aerobic Glycolysis Through HIF-2 β Pathway to Promote Breast Cancer Metastasis. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 779169.	1.8	9
64	The Conformational Study of Two Carbocyclic Nucleosides: Why Carbocyclic Nucleic Acids (CarNAs) Form More Stable Duplexes with RNA than DNA Does. <i>Journal of Biomolecular Structure and Dynamics</i> , 2002, 20, 437-446.	2.0	7
65	Sipa1 deficiency unleashes a host-immune mechanism eradicating chronic myelogenous leukemia-initiating cells. <i>Nature Communications</i> , 2018, 9, 914.	5.8	7
66	Thymic Development of a Unique Bone Marrow-resident Innate-like T Cell Subset with a Potent Innate Immune Function. <i>Journal of Immunology</i> , 2019, 203, 167-177.	0.4	7
67	Linear consecutive hexaoxazoles as G4 ligands inducing chair-type anti-parallel topology of a telomeric G-quadruplex. <i>RSC Advances</i> , 2020, 10, 43319-43323.	1.7	7
68	Binding of Distamycin A to UV-Damaged DNA. <i>Journal of the American Chemical Society</i> , 2004, 126, 11017-11023.	6.6	6
69	Systematic Approach to DNA Aptamer Design Using Amino Acid-Nucleic Acid Hybrids (ANHs) Targeting Thrombin. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1338-1343.	2.6	6
70	Allosteric control of nanomechanical DNA origami pinching devices for enhanced target binding. <i>Chemical Communications</i> , 2017, 53, 8276-8279.	2.2	5
71	Direct Light-up of cAMP Derivatives in Living Cells by Click Reactions. <i>Molecules</i> , 2013, 18, 12909-12915.	1.7	4
72	The recognition of Z-DNA by chiral helicene. <i>Nucleic Acids Symposium Series</i> , 2004, 48, 87-88.	0.3	3

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73	Stability and properties of Z-DNA containing artificial nucleobase 2'-O-methyl-8-methyl guanosine. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 364-369.	1.4	3
74	Observation of Z-DNA Structure via the Synthesis of Oligonucleotide DNA Containing 8-Trifluoromethyl-2-Deoxyguanosine. <i>Current Protocols</i> , 2021, 1, e28.	1.3	2
75	Nanomechanical DNA origami devices as versatile molecular sensors. , 2012, , .		1
76	Clipping of Telomere from Human Chromosomes Using a Chemistry-Based Artificial Restriction DNA Cutter. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2015, 61, 6.13.1-6.13.13.	0.5	1
77	Conformation of G-quadruplex Controlled by Click Reaction. <i>Molecules</i> , 2020, 25, 4339.	1.7	1
78	Photoreactivity of 5-iodouracil-containing telomeric DNA. <i>Nucleic Acids Symposium Series</i> , 2003, 3, 71-72.	0.3	0
79	CHAPTER 12. Covalent and Non-covalent Conjugates of Oligonucleotides as Artificial Restriction DNA Cutters. <i>RSC Biomolecular Sciences</i> , 2012, , 278-295.	0.4	0