Gang Chen

List of Publications by Year
in descending order

49 papers	1,531 citations	257357 24 h-index	330025 37 g-index
50 all docs	50 docs citations	50 times ranked	1632 citing authors

#	Article	IF	Citations
1	Mechanisms and applications of peptide nucleic acids selectively binding to doubleâ€stranded RNA. Biopolymers, 2022, 113, e23476.	1.2	14
2	Duplexes Formed by G₄C₂ Repeats Contain Alternate Slow- and Fast-Flipping GÂ·G Base Pairs. Biochemistry, 2021, 60, 1097-1107.	1.2	5
3	Targeting RNA editing of antizyme inhibitor 1: A potential oligonucleotide-based antisense therapy for cancer. Molecular Therapy, 2021, 29, 3258-3273.	3.7	13
4	Tertiary Base Triple Formation in the SRV-1 Frameshifting Pseudoknot Stabilizes Secondary Structure Components. Biochemistry, 2020, 59, 4429-4438.	1.2	6
5	Intra-locked G-quadruplex structures formed by irregular DNA G-rich motifs. Nucleic Acids Research, 2020, 48, 3315-3327.	6.5	29
6	Incorporating G-C Pair-Recognizing Guanidinium into PNAs for Sequence and Structure Specific Recognition of dsRNAs over dsDNAs and ssRNAs. Biochemistry, 2019, 58, 3777-3788.	1.2	12
7	RNA Secondary Structure-Based Design of Antisense Peptide Nucleic Acids for Modulating Disease-Associated Aberrant Tau Pre-mRNA Alternative Splicing. Molecules, 2019, 24, 3020.	1.7	14
8	Incorporating 2-Thiouracil into Short Double-Stranded RNA-Binding Peptide Nucleic Acids for Enhanced Recognition of A-U Pairs and for Targeting a MicroRNA Hairpin Precursor. Biochemistry, 2019, 58, 3444-3453.	1.2	16
9	Sequence- And Structure-Specific Probing of RNAs by Short Nucleobase-Modified dsRNA-Binding PNAs Incorporating a Fluorescent Light-up Uracil Analog. Analytical Chemistry, 2019, 91, 5331-5338.	3.2	20
10	A Disease-Causing Intronic Point Mutation C19G Alters Tau Exon 10 Splicing via RNA Secondary Structure Rearrangement. Biochemistry, 2019, 58, 1565-1578.	1.2	16
11	A Short Chemically Modified dsRNA-Binding PNA (dbPNA) Inhibits Influenza Viral Replication by Targeting Viral RNA Panhandle Structure. Bioconjugate Chemistry, 2019, 30, 931-943.	1.8	44
12	General Recognition of U-G, U-A, and C-G Pairs by Double-Stranded RNA-Binding PNAs Incorporated with an Artificial Nucleobase. Biochemistry, 2019, 58, 1319-1331.	1.2	19
13	Iridium(III)â€Catalyzed Selective and Mild Câ€H Amidation of Cyclic <i>N</i>â€Sulfonyl Ketimines with Organic Azides. Advanced Synthesis and Catalysis, 2018, 360, 416-421.	2.1	21
14	Selective Binding to mRNA Duplex Regions by Chemically Modified Peptide Nucleic Acids Stimulates Ribosomal Frameshifting. Biochemistry, 2018, 57, 149-159.	1.2	27
15	Incorporating uracil and 5-halouracils into short peptide nucleic acids for enhanced recognition of Aâ€“U pairs in dsRNAs. Nucleic Acids Research, 2018, 46, 7506-7521.	6.5	28
16	Single-Molecule Mechanical Folding and Unfolding of RNA Hairpins: Effects of Single A-U to AÂ·C Pair Substitutions and Single Proton Binding and Implications for mRNA Structure-Induced âˆ'1 Ribosomal Frameshifting. Journal of the American Chemical Society, 2018, 140, 8172-8184.	6.6	22
17	Sequence-specific and Selective Recognition of Double-stranded RNAs over Single-stranded RNAs by Chemically Modified Peptide Nucleic Acids. Journal of Visualized Experiments, 2017, , .	0.2	10
18	Palladium-Catalyzed Direct Câ€“H Trifluoroethylation of Aromatic Amides. Organic Letters, 2017, 19, 4223-4226.	2.4	37

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19	Theranostic Prodrug Vesicles for Imaging Guided Codelivery of Camptothecin and siRNA in Synergetic Cancer Therapy. ACS Applied Materials & Interfaces, 2017, 9, 23536-23543.	4.0	46
20	Mechanical unfolding kinetics of the SRV-1 gag-pro mRNA pseudoknot: possible implications for âˆ’1 ribosomal frameshifting stimulation. Scientific Reports, 2016, 6, 39549.	1.6	27
21	Noncanonical registers and base pairs in human 5â€² splice-site selection. Nucleic Acids Research, 2016, 44, 3908-3921.	6.5	35
22	Incorporating a guanidine-modified cytosine base into triplex-forming PNAs for the recognition of a C-G pyrimidineâ€“purine inversion site of an RNA duplex. Nucleic Acids Research, 2016, 44, gkw778.	6.5	32
23	Recognition of RNA Sequence and Structure by Duplex and Triplex Formation: Targeting miRNA and Pre-miRNA. RNA Technologies, 2016, , 299-317.	0.2	8
24	TMV mutants with poly(A) tracts of different lengths demonstrate structural variations in 3â€²UTR affecting viral RNAs accumulation and symptom expression. Scientific Reports, 2015, 5, 18412.	1.6	9
25	A Uâ‹…U Pairâ€toâ€Uâ‹…C Pair Mutationâ€Induced RNA Native Structure Destabilisation and Stretchingâ€Forceâ€Induced RNA Misfolding. ChemPlusChem, 2015, 80, 1267-1278.	1.3	12
26	Ligandâ€Promoted <i>ortho</i>â€Cï£¿H Amination with Pd Catalysts. Angewandte Chemie - International Edition, 2015, 54, 2497-2500.	7.2	91
27	How RNA catalyzes cyclization. Nature Chemical Biology, 2015, 11, 830-831.	3.9	3
28	Selective Lighting Up of Epiberberine Alkaloid Fluorescence by Fluorophore-Switching Aptamer and Stoichiometric Targeting of Human Telomeric DNA G-Quadruplex Multimer. Analytical Chemistry, 2015, 87, 730-737.	3.2	51
29	<scp>RNA</scp> triplexes: from structural principles to biological and biotech applications. Wiley Interdisciplinary Reviews RNA, 2015, 6, 111-128.	3.2	93
30	Incorporation of thio-pseudoisocytosine into triplex-forming peptide nucleic acids for enhanced recognition of RNA duplexes. Nucleic Acids Research, 2014, 42, 4008-4018.	6.5	75
31	Intracellular Delivery of Antisense Peptide Nucleic Acid by Fluorescent Mesoporous Silica Nanoparticles. Bioconjugate Chemistry, 2014, 25, 1412-1420.	1.8	45
32	Recognition of RNA duplexes by chemically modified triplex-forming oligonucleotides. Nucleic Acids Research, 2013, 41, 6664-6673.	6.5	56
33	RNA Reactions One Molecule at a Time. Cold Spring Harbor Perspectives in Biology, 2010, 2, a003624-a003624.	2.3	23
34	Triplex structures in an RNA pseudoknot enhance mechanical stability and increase efficiency of â€“1 ribosomal frameshifting. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12706-12711.	3.3	126
35	A CA⁺ Pair Adjacent to a Sheared GA or AA Pair Stabilizes Size-Symmetric RNA Internal Loops. Biochemistry, 2009, 48, 5738-5752.	1.2	26
36	Single-molecule mechanical unfolding and folding of a pseudoknot in human telomerase RNA. Rna, 2007, 13, 2175-2188.	1.6	74

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37	Stacking Effects on Local Structure in RNA:Â Changes in the Structure of Tandem GA Pairs when Flanking GC Pairs Are Replaced by isoGâ^'isoC Pairsâ€. Journal of Physical Chemistry B, 2007, 111, 6718-6727.	1.2	17
38	An Alternating Sheared AA Pair and Elements of Stability for a Single Sheared Purine-Purine Pair Flanked by Sheared GA Pairs in RNA,. Biochemistry, 2006, 45, 6889-6903.	1.2	27
39	The NMR Structure of an Internal Loop from 23S Ribosomal RNA Differs from Its Structure in Crystals of 50S Ribosomal Subunitsâ€,â€¡. Biochemistry, 2006, 45, 11776-11789.	1.2	28
40	Consecutive GA Pairs Stabilize Medium-Size RNA Internal Loopsâ€. Biochemistry, 2006, 45, 4025-4043.	1.2	27
41	Solution Structure of an RNA Internal Loop with Three Consecutive Sheared GA Pairsâ€,â€¡. Biochemistry, 2005, 44, 2845-2856.	1.2	36
42	Factors Affecting Thermodynamic Stabilities of RNA 3 Ã— 3 Internal Loops. Biochemistry, 2004, 43, 12865-12876.	1.2	33
43	Solvothermal syntheses of Î²-Ag2Se crystals with novel morphologies. Journal of Solid State Chemistry, 2003, 172, 17-21.	1.4	32
44	A Simple Route to Synthesize MInS2(M = Cu, Ag) Nanorods from Single-Molecule Precursors. Chemistry Letters, 2001, 30, 236-237.	0.7	38
45	Bis(2,2-bipyridine-N,Nâ€²)tetra-Î¼-chloro-tetracopper(I). Acta Crystallographica Section C: Crystal Structure Communications, 2001, 57, 349-351.	0.4	8
46	The effect of agitation states on hydrothermal synthesis of Bi2S3 nanorods. Journal of Crystal Growth, 2001, 233, 799-802.	0.7	39
47	Two mixed-metal carboxylateâ€"base adducts. Acta Crystallographica Section C: Crystal Structure Communications, 2000, 56, 1198-1200.	0.4	8
48	Poly[lead(II)-Î¼-4,4-bipyridine-N:Nâ€²-di-Î¼-bromo]. Acta Crystallographica Section C: Crystal Structure Communications, 2000, 56, e552-e553.	0.4	15
49	Syntheses, Structures and Magnetic Behaviors of Di- and Trinuclear Pivalate Complexes Containing Both Cobalt(II) and Lanthanide(III) Ions. Inorganic Chemistry, 2000, 39, 4165-4168.	1.9	37