

Jianmin Gao

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,196
citations

117625

34
h-index

155660

55
g-index

77
all docs

77
docs citations

77
times ranked

3453
citing authors

#	ARTICLE	IF	CITATIONS
1	A Four-Base Paired Genetic Helix with Expanded Size. <i>Science</i> , 2003, 302, 868-871.	12.6	224
2	Localized thermodynamic coupling between hydrogen bonding and microenvironment polarity substantially stabilizes proteins. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 684-690.	8.2	178
3	Toward a New Genetic System with Expanded Dimensions: Size-Expanded Analogues of Deoxyadenosine and Thymidine. <i>Journal of the American Chemical Society</i> , 2004, 126, 1102-1109.	13.7	141
4	Fast and selective labeling of N-terminal cysteines at neutral pH via thiazolidino boronate formation. <i>Chemical Science</i> , 2016, 7, 4589-4593.	7.4	118
5	Libraries of Composite Polyfluors Built from Fluorescent Deoxyribosides. <i>Journal of the American Chemical Society</i> , 2002, 124, 11590-11591.	13.7	115
6	Iminoboronate-Based Peptide Cyclization That Responds to pH, Oxidation, and Small Molecule Modulators. <i>Journal of the American Chemical Society</i> , 2016, 138, 2098-2101.	13.7	106
7	Exploring and Exploiting Polar Interactions with Fluorinated Aromatic Amino Acids. <i>Accounts of Chemical Research</i> , 2013, 46, 907-915.	15.6	104
8	Determinants for Dephosphorylation of the RNA Polymerase II C-Terminal Domain by Scp1. <i>Molecular Cell</i> , 2006, 24, 759-770.	9.7	103
9	Expanded-Size Bases in Naturally Sized DNA: Evaluation of Steric Effects in Watson-Crick Pairing. <i>Journal of the American Chemical Society</i> , 2004, 126, 11826-11831.	13.7	102
10	Targeting biomolecules with reversible covalent chemistry. <i>Current Opinion in Chemical Biology</i> , 2016, 34, 110-116.	6.1	100
11	Size-Expanded Analogues of dG and dC: Synthesis and Pairing Properties in DNA. <i>Journal of Organic Chemistry</i> , 2005, 70, 639-647.	3.2	97
12	Modified DNA Analogues That Sense Light Exposure with Color Changes. <i>Journal of the American Chemical Society</i> , 2004, 126, 12748-12749.	13.7	92
13	Helix-Forming Properties of Size-Expanded DNA, an Alternative Four-Base Genetic Form. <i>Journal of the American Chemical Society</i> , 2005, 127, 1396-1402.	13.7	88
14	Assembly of the Complete Eight-Base Artificial Genetic Helix, xDNA, and Its Interaction with the Natural Genetic System. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3118-3122.	13.8	83
15	Targeting bacteria via iminoboronate chemistry of amine-presenting lipids. <i>Nature Communications</i> , 2015, 6, 6561.	12.8	77
16	Toward a Designed, Functioning Genetic System with Expanded-Size Base Pairs: Solution Structure of the Eight-Base xDNA Double Helix. <i>Journal of the American Chemical Society</i> , 2006, 128, 14704-14711.	13.7	71
17	Expanding the Fluorous Arsenal: Tetrafluorinated Phenylalanines for Protein Design. <i>Journal of the American Chemical Society</i> , 2009, 131, 18-19.	13.7	68
18	Fast Diazaborine Formation of Semicarbazide Enables Facile Labeling of Bacterial Pathogens. <i>Journal of the American Chemical Society</i> , 2017, 139, 871-878.	13.7	65

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19	Probing the Folding Transition State Structure of the Villin Headpiece Subdomain via Side Chain and Backbone Mutagenesis. <i>Journal of the American Chemical Society</i> , 2009, 131, 7470-7476.	13.7	64
20	Iminoboronate Formation Leads to Fast and Reversible Conjugation Chemistry of π -Nucleophiles at Neutral pH. <i>Chemistry - A European Journal</i> , 2015, 21, 14748-14752.	3.3	62
21	Dielectrophoresis assisted rapid, selective and single cell detection of antibiotic resistant bacteria with G-FETs. <i>Biosensors and Bioelectronics</i> , 2020, 156, 112123.	10.1	62
22	Oligodeoxyfluorosides: strong sequence dependence of fluorescence emission. <i>Tetrahedron</i> , 2007, 63, 3427-3433.	1.9	61
23	Versatile Bioconjugation Chemistries of <i>ortho</i> -Boronyl Aryl Ketones and Aldehydes. <i>Accounts of Chemical Research</i> , 2018, 51, 2198-2206.	15.6	60
24	Efficient Replication Bypass of Size-Expanded DNA Base Pairs in Bacterial Cells. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4524-4527.	13.8	54
25	Solubilized Gramicidin A as Potential Systemic Antibiotics. <i>ChemBioChem</i> , 2012, 13, 51-55.	2.6	53
26	Phage Display of Dynamic Covalent Binding Motifs Enables Facile Development of Targeted Antibiotics. <i>Journal of the American Chemical Society</i> , 2018, 140, 6137-6145.	13.7	50
27	Understanding the mechanism of β -sheet folding from a chemical and biological perspective. <i>Biopolymers</i> , 2008, 90, 751-758.	2.4	48
28	Highly Specific Heterodimerization Mediated by Quadrupole Interactions. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8635-8639.	13.8	44
29	Fast and Stable N-terminal Cysteine Modification through Thiazolidino Boronate Mediated Acyl Transfer. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14246-14250.	13.8	44
30	Highly sensitive amyloid detection enabled by thioflavin T dimers. <i>Molecular BioSystems</i> , 2010, 6, 1791.	2.9	40
31	Stacked Fluoroaromatics as Supramolecular Synthons for Programming Protein Dimerization Specificity. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 103-107.	13.8	39
32	Lysine-Targeting Reversible Covalent Inhibitors with Long Residence Time. <i>Journal of the American Chemical Society</i> , 2022, 144, 1152-1157.	13.7	39
33	Amide-to-E-Olefin versus Amide-to-Ester Backbone H-Bond Perturbations: Evaluating the O ⁻ O Repulsion for Extracting H-Bond Energies. <i>Journal of the American Chemical Society</i> , 2006, 128, 15948-15949.	13.7	38
34	Toward quantification of protein backbone backbone hydrogen bonding energies: An energetic analysis of an amide-to-ester mutation in an α -helix within a protein. <i>Protein Science</i> , 2008, 17, 1096-1101.	7.6	38
35	Fluorescent xDNA nucleotides as efficient substrates for a template-independent polymerase. <i>Nucleic Acids Research</i> , 2011, 39, 1586-1594.	14.5	38
36	Cofactor-Free Detection of Phosphatidylserine with Cyclic Peptides Mimicking Lactadherin. <i>Journal of the American Chemical Society</i> , 2011, 133, 15280-15283.	13.7	30

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37	Fluorogenic diazaborine formation of semicarbazide with designed coumarin derivatives. <i>Chemical Communications</i> , 2017, 53, 12532-12535.	4.1	28
38	Toward a designed genetic system with biochemical function: polymerase synthesis of single and multiple size-expanded DNA base pairs. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 2704.	2.8	25
39	Synthesis of Tetrafluorinated Aromatic Amino Acids with Distinct Signatures in ^{19}F NMR. <i>Organic Letters</i> , 2012, 14, 528-531.	4.6	25
40	Genetically encoded fluorophenylalanines enable insights into the recognition of lysine trimethylation by an epigenetic reader. <i>Chemical Communications</i> , 2016, 52, 12606-12609.	4.1	23
41	N, S-Double Labeling of N-Terminal Cysteines via an Alternative Conjugation Pathway with 2-Cyanobenzothiazole. <i>Journal of Organic Chemistry</i> , 2020, 85, 1756-1763.	3.2	22
42	Fluorinated Aromatic Amino Acids Distinguish Cation- π Interactions from Membrane Insertion. <i>Journal of Biological Chemistry</i> , 2015, 290, 19334-19342.	3.4	21
43	Facile Synthesis of Tetrafluorotyrosine and Its Application in pH Triggered Membrane Lysis. <i>Organic Letters</i> , 2011, 13, 236-239.	4.6	18
44	Experimental Evaluation of CH \cdots F Interactions in a Protein Core. <i>Chemistry - A European Journal</i> , 2012, 18, 5832-5836.	3.3	18
45	The Association of the Vanin-1 N131S Variant with Blood Pressure Is Mediated by Endoplasmic Reticulum-Associated Degradation and Loss of Function. <i>PLoS Genetics</i> , 2014, 10, e1004641.	3.5	16
46	Dynamic Formation of Imidazolidino Boronate Enables Design of Cysteine-Responsive Peptides. <i>Organic Letters</i> , 2018, 20, 20-23.	4.6	15
47	Iminoboronate-Mediated Peptide Cyclization with Lysine Homologues. <i>Synlett</i> , 2017, 28, 1913-1916.	1.8	14
48	Fast and Stable N-Terminal Cysteine Modification through Thiazolidino Boronate Mediated Acyl Transfer. <i>Angewandte Chemie</i> , 2020, 132, 14352-14356.	2.0	13
49	Illuminating the lipidome to advance biomedical research: peptide-based probes of membrane lipids. <i>Future Medicinal Chemistry</i> , 2013, 5, 947-959.	2.3	12
50	Fast and Cysteine-Specific Modification of Peptides, Proteins and Bacteriophage Using Chlorooximes. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	12
51	A genome-wide atlas of antibiotic susceptibility targets and pathways to tolerance. <i>Nature Communications</i> , 2022, 13, .	12.8	12
52	A FIASH-Tetracysteine Assay for Quantifying the Association and Orientation of Transmembrane α -Helices. <i>ChemBioChem</i> , 2011, 12, 1018-1022.	2.6	10
53	Conformational Properties of Peptides Corresponding to the Ebolavirus GP2 Membrane-Proximal External Region in the Presence of Micelle-Forming Surfactants and Lipids. <i>Biochemistry</i> , 2013, 52, 3393-3404.	2.5	8
54	Understanding lipid recognition by protein-mimicking cyclic peptides. <i>Tetrahedron</i> , 2014, 70, 7632-7638.	1.9	8

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55	Gramicidin A Mutants with Antibiotic Activity against Both Gram Positive and Gram Negative Bacteria. <i>ChemMedChem</i> , 2016, 11, 629-636.	3.2	7
56	Biocompatible conjugation of Tris base to 2-acetyl and 2-formyl phenylboronic acid. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 5908-5912.	2.8	7
57	Radiolabeled Cationic Peptides for Targeted Imaging of Infection. <i>Contrast Media and Molecular Imaging</i> , 2019, 2019, 1-11.	0.8	7
58	N-Terminal cysteine mediated backbone-side chain cyclization for chemically enhanced phage display. <i>Chemical Science</i> , 2022, 13, 8349-8354.	7.4	7
59	Peptide Probes of Colistin Resistance Discovered via Chemically Enhanced Phage Display. <i>ACS Infectious Diseases</i> , 2020, 6, 2410-2418.	3.8	6
60	Effects of lysine methylation on gramicidin A channel folding in lipid membranes. <i>Biopolymers</i> , 2013, 100, 656-661.	2.4	5
61	A split ligand for lanthanide binding: facile evaluation of dimerizing proteins. <i>Chemical Communications</i> , 2012, 48, 2997.	4.1	4
62	Towards the Replication of xDNA, a Size-expanded Unnatural Genetic System. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 455-456.	0.3	3
63	Non-additive stabilization by halogenated amino acids reveals protein plasticity on a sub-angstrom scale. <i>Protein Science</i> , 2017, 26, 2051-2058.	7.6	3
64	Photoinduced Oscillations and Pulse Waves in the Hydrogen Peroxide-Sulfite-Ferrocyanide Reaction. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1175-1184.	2.5	3
65	Rapid capillary mixing experiments for the analysis of hydrophobic membrane complexes directly from aqueous lipid bilayer solutions. <i>Analyst</i> , 2017, 142, 310-315.	3.5	2
66	Chemistry perspectives of reversible covalent drugs. <i>Annual Reports in Medicinal Chemistry</i> , 2021, , 75-94.	0.9	2
67	Recent Advances in Peptide Immunomodulators. <i>Current Topics in Medicinal Chemistry</i> , 2015, 16, 187-205.	2.1	2
68	Metal-Assisted Folding of Prolinomycin Allows Facile Design of Functional Peptides. <i>ChemBioChem</i> , 2017, 18, 479-482.	2.6	1
69	Cation Lights Up Halo. <i>Biochemistry</i> , 2017, 56, 5221-5222.	2.5	0
70	Determinants for dephosphorylation of the RNA polymerase II C-terminal domain by Scp1. <i>FASEB Journal</i> , 2007, 21, A1032.	0.5	0