Bing Gong

List of Publications by Year
in descending order

98 papers	5,025 citations	71102 41 h-index	88630 70 g-index
102 all docs	102 docs citations	102 times ranked	3121 citing authors

#	Article	IF	Citations
1	Hollow Crescents, Helices, and Macrocycles from Enforced Folding and Folding-Assisted Macrocyclization. Accounts of Chemical Research, 2008, 41, 1376-1386.	15.6	265
2	Crescent Oligoamides: From Acyclic â€œMacrocyclesâ€•to Folding Nanotubes. Chemistry - A European Journal, 2001, 7, 4336-4342.	3.3	255
3	A Highly Stable, Six-Hydrogen-Bonded Molecular Duplex. Journal of the American Chemical Society, 2000, 122, 2635-2644.	13.7	206
4	A New Approach for the Design of Supramolecular Recognition Units:â€‰ Hydrogen-Bonded Molecular Duplexes. Journal of the American Chemical Society, 1999, 121, 5607-5608.	13.7	194
5	Self-Assembling Organic Nanotubes with Precisely Defined, Sub-nanometer Pores: Formation and Mass Transport Characteristics. Accounts of Chemical Research, 2013, 46, 2856-2866.	15.6	186
6	Self-assembling subnanometer pores with unusual mass-transport properties. Nature Communications, 2012, 3, 949.	12.8	174
7	A New Class of Folding Oligomers:â€‰ Crescent Oligoamides. Journal of the American Chemical Society, 2000, 122, 4219-4220.	13.7	168
8	Creating nanocavities of tunable sizes: Hollow helices. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11583-11588.	7.1	149
9	Highly Efficient, One-Step Macrocyclizations Assisted by the Folding and Preorganization of Precursor Oligomers. Journal of the American Chemical Society, 2004, 126, 11120-11121.	13.7	148
10	Highly Conducting Transmembrane Pores Formed by Aromatic Oligoamide Macrocycles. Journal of the American Chemical Society, 2008, 130, 15784-15785.	13.7	145
11	Supramolecular AB Diblock Copolymers. Angewandte Chemie - International Edition, 2004, 43, 6471-6474.	13.8	131
12	Efficient Kinetic Macrocyclization. Journal of the American Chemical Society, 2009, 131, 2629-2637.	13.7	120
13	Helical Aromatic Oligoamides:â€‰ Reliable, Readily Predictable Folding from the Combination of Rigidified Structural Motifs. Journal of the American Chemical Society, 2004, 126, 16528-16537.	13.7	117
14	Well-defined secondary structures. Information-storing molecular duplexes and helical foldamers based on unnatural peptide backbones. FEBS Journal, 2004, 271, 1416-1425.	0.2	116
15	Evolution of Helical Foldamers. Current Organic Chemistry, 2003, 7, 1649-1659.	1.6	111
16	A Noncovalent Approach to Antiparallel Î²-Sheet Formation. Journal of the American Chemical Society, 2002, 124, 2903-2910.	13.7	102
17	Stable Three-Center Hydrogen Bonding in a Partially Rigidified Structure. Chemistry - A European Journal, 2001, 7, 4352-4357.	3.3	98
18	Strong Aggregation and Directional Assembly of Aromatic Oligoamide Macrocycles. Journal of the American Chemical Society, 2011, 133, 18590-18593.	13.7	94

#	Article	IF	Citations
19	Cavity-containing, backbone-rigidified foldamers and macrocycles. Chemical Communications, 2012, 48, 12142.	4.1	92
20	Molecular Duplexes with Encoded Sequences and Stabilities. Accounts of Chemical Research, 2012, 45, 2077-2087.	15.6	83
21	Aromatic Oligoureas:â€‰ Enforced Folding and Assisted Cyclization. Organic Letters, 2006, 8, 803-806.	4.6	80
22	Persistent Organic Nanopores Amenable to Structural and Functional Tuning. Journal of the American Chemical Society, 2016, 138, 2749-2754.	13.7	77
23	Redox-responsive micelles self-assembled from dynamic covalent block copolymers for intracellular drug delivery. Acta Biomaterialia, 2015, 17, 193-200.	8.3	74
24	Cyclic aromatic oligoamides as highly selective receptors for the guanidinium ion. Chemical Communications, 2005, , 4720.	4.1	73
25	Oneâ€Pot Formation of Large Macrocycles with Modifiable Peripheries and Internal Cavities. Angewandte Chemie - International Edition, 2009, 48, 3150-3154.	13.8	67
26	Sequence Specificity of Hydrogen-Bonded Molecular Duplexes. Journal of Organic Chemistry, 2001, 66, 3574-3583.	3.2	63
27	Sequence-Specific Association in Aqueous Media by Integrating Hydrogen Bonding and Dynamic Covalent Interactions. Journal of the American Chemical Society, 2006, 128, 12628-12629.	13.7	58
28	Engineering hydrogen-bonded duplexes. Polymer International, 2007, 56, 436-443.	3.1	58
29	Sequence-Specific, Dynamic Covalent Crosslinking in Aqueous Media. Journal of the American Chemical Society, 2008, 130, 491-500.	13.7	58
30	Liquidâ€Crystalline Mesogens Based on Cyclo[6]aramides: Distinctive Phase Transitions in Response to Macrocyclic Hostâ€“Guest Interactions. Angewandte Chemie - International Edition, 2015, 54, 11147-11152.	13.8	58
31	Energetics and cooperativity in three-center hydrogen bonding interactions. II. Intramolecular hydrogen bonding systems. Journal of Chemical Physics, 2001, 115, 6036-6041.	3.0	57
32	The rational design of a highly sensitive and selective fluorogenic probe for detecting nitric oxide. Chemical Communications, 2014, 50, 6475-6478.	4.1	57
33	Duplex Foldamers from Assembly Induced Folding. Journal of the American Chemical Society, 2003, 125, 9932-9933.	13.7	56
34	Synthesis of Crescent Aromatic Oligoamides. Journal of Organic Chemistry, 2005, 70, 10660-10669.	3.2	51
35	Template-Assisted Cross Olefin Metathesis. Angewandte Chemie - International Edition, 2005, 44, 1352-1356.	13.8	50
36	An extremely stable, self-complementary hydrogen-bonded duplexElectronic supplementary information (ESI) available: 2D 1H NMR spectra; details of mass spectrometry and fluorescence experiments; fluorescence emission spectra; synthetic procedures. See http://www.rsc.org/suppdata/cc/b3/b301791e/. Chemical Communications, 2003, , 1556.	4.1	48

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37	Aromatization of 9,10-Dihydroacridine Derivatives: Discovering a Highly Selective and Rapid-Responding Fluorescent Probe for Peroxynitrite. ACS Sensors, 2017, 2, 501-505.	7.8	48
38	Polar Assembly of N,Nâ€˜-Bis(4-substituted benzyl)sulfamides. Journal of the American Chemical Society, 1999, 121, 9766-9767.	13.7	47
39	Shape-persistent macrocyclic aromatic tetrasulfonamides: Molecules with nanosized cavities and their nanotubular assemblies in solid state. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10850-10855.	7.1	47
40	Energetics and cooperativity in three-center hydrogen bonding interactions. I. Diacetamide-X dimers (X=HCN, CH3OH). Journal of Chemical Physics, 2001, 115, 6030-6035.	3.0	46
41	Self-Assembly and Molecular Recognition in Water: Tubular Stacking and Guest-Templated Discrete Assembly of Water-Soluble, Shape-Persistent Macrocycles. Journal of the American Chemical Society, 2020, 142, 2915-2924.	13.7	44
42	Specifying Non-Covalent Interactions: Sequence-Specific Assembly of Hydrogen-Bonded Molecular Duplexes. Synlett, 2001, 2001, 0582-0589.	1.8	43
43	Gemini-Type Tetraphenylethylene Amphiphiles Containing [12]aneN₃ and Long Hydrocarbon Chains as Nonviral Gene Vectors and Gene Delivery Monitors. ACS Applied Materials & Interfaces, 2017, 9, 11546-11556.	8.0	42
44	Aromatic oligoamide macrocycles from the bimolecular coupling of folded oligomeric precursors. New Journal of Chemistry, 2009, 33, 729.	2.8	40
45	Enforced Tubular Assembly of Electronically Different Hexakis(m-Phenylene Ethynylene) Macrocycles: Persistent Columnar Stacking Driven by Multiple Hydrogen-Bonding Interactions. Journal of the American Chemical Society, 2017, 139, 15950-15957.	13.7	39
46	Improving Foldamer Synthesis through Protecting Group Induced Unfolding of Aromatic Oligoamides. Organic Letters, 2006, 8, 5117-5120.	4.6	38
47	Discrete Stacking of Aromatic Oligoamide Macrocycles. Journal of the American Chemical Society, 2015, 137, 5879-5882.	13.7	37
48	Macrocyclic shape-persistency of cyclo[6]aramide results in enhanced multipoint recognition for the highly efficient template-directed synthesis of rotaxanes. Chemical Science, 2017, 8, 2091-2100.	7.4	32
49	Extremely strong tubular stacking of aromatic oligoamide macrocycles. Chemical Science, 2015, 6, 152-157.	7.4	31
50	Crescent oligoamides as hosts: conformation-dependent binding specificity. Organic and Biomolecular Chemistry, 2009, 7, 3643.	2.8	30
51	Oligoamide Duplexes as Organogelators. Organic Letters, 2010, 12, 2958-2961.	4.6	28
52	Chitosan oligosaccharide copolymer micelles with double disulphide linkage in the backbone associated by H-bonding duplexes for targeted intracellular drug delivery. Polymer Chemistry, 2015, 6, 1454-1464.	3.9	28
53	Two-Dimensional Molecular Layers:â€‰ Interplay of H-Bonding and van der Waals Interactions in the Self-Assembly of N,Nâ€˜-Dialkylsulfamides. Organic Letters, 2000, 2, 3273-3275.	4.6	25
54	Alternative Strategy for Adjusting the Association Specificity of Hydrogen-Bonded Duplexes. Organic Letters, 2011, 13, 54-57.	4.6	24

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55	Dynamic Covalent Diblock Copolymers: Instructed Coupling, Micellation and Redox Responsiveness. Macromolecules, 2014, 47, 7431-7441.	4.8	23
56	Facile synthesis of well-defined hydrophilic polyesters as degradable poly(ethylene glycol)-like biomaterials. Polymer Chemistry, 2015, 6, 6452-6456.	3.9	20
57	Aggregation and Columnar Assembly of Crescent Oligoamides. Organic Letters, 2008, 10, 4339-4342.	4.6	19
58	Degradable polyesters via ring-opening polymerization of functional valerolactones for efficient gene delivery. Organic and Biomolecular Chemistry, 2017, 15, 6567-6574.	2.8	19
59	Hydrogen-Bonded Duplexes with Lengthened Linkers. Organic Letters, 2018, 20, 1555-1558.	4.6	18
60	Folding and Assembly of Short Î±, Î², Î³-Hybrid Peptides: Minor Variations in Sequence and Drastic Differences in Higher-Level Structures. Journal of the American Chemical Society, 2019, 141, 14239-14248.	13.7	18
61	Preparation of oligoamide-ended poly(ethylene glycol) and hydrogen-bonding-assisted formation of aggregates and nanoscale fibers. Journal of Polymer Science Part A, 2005, 43, 1119-1128.	2.3	17
62	Hexakis(m-phenylene ethynylene) Macrocycles with Multiple H-Bonding Side Chains and Modified Cavities: Altered Stacking Strength and Persistent Tubular Assembly. Organic Letters, 2016, 18, 2094-2097.	4.6	17
63	Synthesis and micellization of redox-responsive dynamic covalent multi-block copolymers. Polymer Chemistry, 2016, 7, 3145-3155.	3.9	16
64	Fluorescent sensors based on [12]aneN3-modified BODIPY: Discrimination of different biological thiols in aqueous solution and living cells. Bioorganic and Medicinal Chemistry, 2016, 24, 1550-1559.	3.0	16
65	Artificial water channels: inspiration, progress, and challenges. Faraday Discussions, 2018, 209, 415-427.	3.2	15
66	Dihydropyridine-based fluorescence probe for nitric oxide. RSC Advances, 2016, 6, 85698-85703.	3.6	14
67	Effects of Oligomer Length, Solvents, and Temperature on the Self-Association of Aromatic Oligoamide Foldamers. Organic Letters, 2018, 20, 5486-5489.	4.6	14
68	A branched, hydrogen-bonded heterodimer: a novel system for achieving high stability and specificity. Tetrahedron, 2007, 63, 5460-5469.	1.9	12
69	Dynamic covalent linked triblock copolymer micelles for glutathione-mediated intracellular drug delivery. Materials Science and Engineering C, 2017, 77, 34-44.	7.3	12
70	Structure of N,Nâ€²,Nâ€³-tris(carboxymethyl)-1,3,5-benzenetricarboxamide trihydrate. Journal of Chemical Crystallography, 1999, 29, 649-652.	1.1	11
71	Helical Folding of Meta-Connected Aromatic Oligoureas. Organic Letters, 2017, 19, 2666-2669.	4.6	11
72	Aromatic oligureas as hosts for anions and cations. Chemical Communications, 2016, 52, 9905-9908.	4.1	10

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73	Multiturn Hollow Helices: Synthesis and Folding of Long Aromatic Oligoamides. Organic Letters, 2020, 22, 6938-6942.	4.6	10
74	Reductive triblock copolymer micelles with a dynamic covalent linkage deliver antimiR-21 for gastric cancer therapy. Polymer Chemistry, 2016, 7, 4352-4366.	3.9	9
75	Design and synthesis of fluorescence-labeled nucleotide with a cleavable azo linker for DNA sequencing. Chemical Communications, 2016, 52, 954-957.	4.1	9
76	Oligo(5-amino-N-acylanthranilic acids): Amide Bond Formation without Coupling Reagent and Folding upon Binding Anions. Organic Letters, 2020, 22, 7496-7501.	4.6	9
77	Reverse Turn Foldamers: An Expanded Î²-Turn Motif Reinforced by Double Hydrogen Bonds. Organic Letters, 2020, 22, 1003-1007.	4.6	9
78	NO-Responsive vesicles as a drug delivery system. Chemical Communications, 2017, 53, 3535-3538.	4.1	8
79	Controlling Water Flow through a Synthetic Nanopore with Permeable Cations. ACS Central Science, 2021, 7, 2092-2098.	11.3	8
80	Ultrasensitive liposome-based assay for the quantification of fundamental ion channel properties. Analytica Chimica Acta, 2020, 1112, 8-15.	5.4	7
81	Stable pseudo[3]rotaxanes with strong positive binding cooperativity based on shape-persistent aromatic oligoamide macrocycles. Chemical Communications, 2021, 57, 11645-11648.	4.1	7
82	Enforced Folding of Unnatural Oligomers: Creating Hollow Helices with Nanosized Pores. Advances in Polymer Science, 2006, , 1-29.	0.8	6
83	Redox-responsive micelles self-assembled from multi-block copolymer for co-delivery of siRNA and hydrophobic anticancer drug. Polymer Bulletin, 2019, 76, 4237-4257.	3.3	6
84	Dipropinonates of Sugar Alcohols as Water-Soluble, Nontoxic CPAs for DMSO-Free Cell Cryopreservation. ACS Biomaterials Science and Engineering, 2021, 7, 4757-4762.	5.2	6
85	Aromatic oligoamides with increased backbone flexibility: improved synthetic efficiencies, solvent-dependent folding and cooperative conformational transitions. New Journal of Chemistry, 2015, 39, 3217-3220.	2.8	4
86	Amphiphilic oligoamides as versatile, acid-responsive gelators. RSC Advances, 2017, 7, 22248-22255.	3.6	4
87	Effective formation of stable and versatile double-stranded Î²-sheets templated by a hydrogen-bonded duplex. Chemical Communications, 2018, 54, 3719-3722.	4.1	4
88	Aggregation and assembly of crescent foldamers. Science China Chemistry, 2010, 53, 45-51.	8.2	3
89	Surprising impact of remote groups on the foldingâ€“unfolding and dimer-chain equilibria of bifunctional H-bonding unimers. Chemical Communications, 2016, 52, 3773-3776.	4.1	3
90	Folding and aggregation of backbone-rigidified oligo(m-phenylene ethynylenes) in polar and nonpolar media. Supramolecular Chemistry, 2009, 21, 196-201.	1.2	2

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91	Synthesis and micellization of block copolymer based on hostâ€“guest recognition and double disulphide linkage for intracellular drug delivery. Polymer Bulletin, 2018, 75, 1149-1169.	3.3	2
92	Major Factors for the Persistent Folding of Hybrid Î±, Î², Î³-Hybrid Peptides Into Hairpins. Frontiers in Chemistry, 2020, 8, 530083.	3.6	2
93	An unnatural tripeptide structure containing intramolecular double H-bonds mimics a turn hairpin conformation. Organic and Biomolecular Chemistry, 2021, 19, 4359-4363.	2.8	2
94	A Convenient Preparation of a Bicyclo[3.3.3]undecane Derivative Containing Heteroatoms Through a Rearrangement Step. Synthetic Communications, 1998, 28, 1907-1911.	2.1	1
95	Structure of N,Nâ€²-bis[3-(aminocarbonyl)propyl]sulfamide. Journal of Chemical Crystallography, 1999, 29, 645-648.	1.1	0
96	Sequence-Specific Hydrogen Bonded Units for Directed Association, Assembly, and Ligation. , 0, , 207-234.		0
97	Reliable folding of hybrid tetrapeptides into short Î²-hairpins. Chinese Chemical Letters, 2021, , .	9.0	0
98	Patterns of Energy Consumption, GDP and CO2 Emissions in China. , 0, , .		0