

Xiaobing Zuo

List of Publications by Year in descending order

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98
papers

5,479
citations

61984

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85541

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102
all docs

102
docs citations

102
times ranked

7751
citing authors

#	ARTICLE	IF	CITATIONS
1	Programmed Supramolecular Assemblies Using Orthogonal Pairs of Heterodimeric Coiled Coil Peptides. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	8
2	A high-energy and long-cycling lithium-sulfur pouch cell via a macroporous catalytic cathode with double-end binding sites. <i>Nature Nanotechnology</i> , 2021, 16, 166-173.	31.5	392
3	Self-assembly of aramid amphiphiles into ultra-stable nanoribbons and aligned nanoribbon threads. <i>Nature Nanotechnology</i> , 2021, 16, 447-454.	31.5	49
4	Synchronous RNA conformational changes trigger ordered phase transitions in crystals. <i>Nature Communications</i> , 2021, 12, 1762.	12.8	17
5	Morphological Transitions of a Photoswitchable Aramid Amphiphile Nanostructure. <i>Nano Letters</i> , 2021, 21, 2912-2918.	9.1	13
6	The mechanism driving a solid-solid phase transition in a biomacromolecular crystal. <i>IUCr</i> , 2021, 8, 655-664.	2.2	2
7	X-ray multi-probe data acquisition: A novel technique for laser pump x-ray transient absorption spectroscopy. <i>Review of Scientific Instruments</i> , 2021, 92, 085109.	1.3	7
8	Oblique angle deposition of boron carbide films by magnetron sputtering. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	8
9	Efficient light-emitting diodes based on oriented perovskite nanoplatelets. <i>Science Advances</i> , 2021, 7, eabg8458.	10.3	68
10	Pseudoknot length modulates the folding, conformational dynamics, and robustness of Xrn1 resistance of flaviviral xrRNAs. <i>Nature Communications</i> , 2021, 12, 6417.	12.8	15
11	Huntingtin structure is orchestrated by HAP40 and shows a polyglutamine expansion-specific interaction with exon 1. <i>Communications Biology</i> , 2021, 4, 1374.	4.4	22
12	Zymogen and activated protein C have similar structural architecture. <i>Journal of Biological Chemistry</i> , 2020, 295, 15236-15244.	3.4	8
13	Shape-Shifting Peptide Nanomaterials: Surface Asymmetry Enables pH-Dependent Formation and Interconversion of Collagen Tubes and Sheets. <i>Journal of the American Chemical Society</i> , 2020, 142, 19956-19968.	13.7	27
14	Self-assembly of chimeric peptides toward molecularly defined hexamers with controlled multivalent ligand presentation. <i>Chemical Communications</i> , 2020, 56, 7128-7131.	4.1	4
15	Regulating the Hidden Solvation-Ion Exchange in Concentrated Electrolytes for Stable and Safe Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000901.	19.5	65
16	The J-elongated conformation of Î22-glycoprotein I predominates in solution: implications for our understanding of antiphospholipid syndrome. <i>Journal of Biological Chemistry</i> , 2020, 295, 10794-10806.	3.4	20
17	Efficient blue light-emitting diodes based on quantum-confined bromide perovskite nanostructures. <i>Nature Photonics</i> , 2019, 13, 760-764.	31.4	483
18	2D Crystal Engineering of Nanosheets Assembled from Helical Peptide Building Blocks. <i>Angewandte Chemie</i> , 2019, 131, 13641-13646.	2.0	11

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19	2D Crystal Engineering of Nanosheets Assembled from Helical Peptide Building Blocks. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13507-13512.	13.8	39
20	Ambidextrous helical nanotubes from self-assembly of designed helical hairpin motifs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14456-14464.	7.1	32
21	ssDNA-amphiphile architecture used to control dimensions of DNA nanotubes. <i>Nanoscale</i> , 2019, 11, 19850-19861.	5.6	8
22	Seeded Heteroepitaxial Growth of Crystallizable Collagen Triple Helices: Engineering Multifunctional Two-Dimensional Core-Shell Nanostructures. <i>Journal of the American Chemical Society</i> , 2019, 141, 20107-20117.	13.7	42
23	Incorporation of isotopic, fluorescent, and heavy-atom-modified nucleotides into RNAs by position-selective labeling of RNA. <i>Nature Protocols</i> , 2018, 13, 987-1005.	12.0	27
24	Enhancing the anticoagulant profile of meizothrombin. <i>Biomolecular Concepts</i> , 2018, 9, 169-175.	2.2	10
25	Isolation of a 300 kDa, Au ₁₄₀₀ Gold Compound, the Standard 3.6 nm Capstone to a Series of Plasmonic Nanocrystals Protected by Aliphatic-like Thiolates. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6825-6832.	4.6	18
26	Native State Volume Fluctuations in Proteins as a Mechanism for Dynamic Allostery. <i>Journal of the American Chemical Society</i> , 2017, 139, 3599-3602.	13.7	33
27	Hydrothermal Conditioning of Physical Hydrogels Prepared from a Midblock-Sulfonated Multiblock Copolymer. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1600666.	3.9	12
28	Parasitic Reactions in Nanosized Silicon Anodes for Lithium-Ion Batteries. <i>Nano Letters</i> , 2017, 17, 1512-1519.	9.1	122
29	Quantitative 3D evolution of colloidal nanoparticle oxidation in solution. <i>Science</i> , 2017, 356, 303-307.	12.6	125
30	Structurally Ordered Nanowire Formation from Co-Assembly of DNA Origami and Collagen-Mimetic Peptides. <i>Journal of the American Chemical Society</i> , 2017, 139, 14025-14028.	13.7	59
31	Helical 1:1 L-Sulfono- β -AA Heterogeneous Peptides with Antibacterial Activity. <i>Biomacromolecules</i> , 2016, 17, 1854-1859.	5.4	28
32	Self-Assembly of an L-Helical Peptide into a Crystalline Two-Dimensional Nanoporous Framework. <i>Journal of the American Chemical Society</i> , 2016, 138, 16274-16282.	13.7	53
33	Structural Architecture of Prothrombin in Solution Revealed by Single Molecule Spectroscopy. <i>Journal of Biological Chemistry</i> , 2016, 291, 18107-18116.	3.4	26
34	Au ₁₃₃ (SPh-t-Bu) ₅₂ Nanomolecules: X-ray Crystallography, Optical, Electrochemical, and Theoretical Analysis. <i>Journal of the American Chemical Society</i> , 2015, 137, 4610-4613.	13.7	265
35	Small-angle X-ray scattering: a bridge between RNA secondary structures and three-dimensional topological structures. <i>Current Opinion in Structural Biology</i> , 2015, 30, 147-160.	5.7	40
36	Helical Antimicrobial Sulfono- β -AApeptides. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 4802-4811.	6.4	63

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37	Rational Design of Multilayer Collagen Nanosheets with Compositional and Structural Control. <i>Journal of the American Chemical Society</i> , 2015, 137, 7793-7802.	13.7	40
38	New Class of Heterogeneous Helical Peptidomimetics. <i>Organic Letters</i> , 2015, 17, 3524-3527.	4.6	26
39	Nanostructured Layered Cathode for Rechargeable Mg-Ion Batteries. <i>ACS Nano</i> , 2015, 9, 8194-8205.	14.6	181
40	Determining structural ensembles of flexible multi-domain proteins using small-angle X-ray scattering and molecular dynamics simulations. <i>Protein and Cell</i> , 2015, 6, 619-623.	11.0	9
41	Au ₃₂₉ Ag ₈₄ (SR) Nanomolecules: Plasmonic Alloy Faradaurate-329. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3320-3326.	4.6	13
42	Sulfonamide Peptides as a New Class of Nonnatural Helical Foldamer. <i>Chemistry - A European Journal</i> , 2015, 21, 2501-2507.	3.3	30
43	Structured mRNA induces the ribosome into a hyperrotated state. <i>EMBO Reports</i> , 2014, 15, 185-190.	4.5	53
44	Structurally Homogeneous Nanosheets from Self-Assembly of a Collagen-Mimetic Peptide. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8367-8371.	13.8	68
45	Characterization of Protein Flexibility Using Small-Angle X-Ray Scattering and Amplified Collective Motion Simulations. <i>Biophysical Journal</i> , 2014, 107, 956-964.	0.5	20
46	Structurally Defined Nanoscale Sheets from Self-Assembly of Collagen-Mimetic Peptides. <i>Journal of the American Chemical Society</i> , 2014, 136, 4300-4308.	13.7	126
47	Crystal structure of triple-BRCT domain of ECT2 and insights into the binding characteristics to CYK4. <i>FEBS Letters</i> , 2014, 588, 2911-2920.	2.8	22
48	Relationship between Interchain Interaction, Exciton Delocalization, and Charge Separation in Low-Bandgap Copolymer Blends. <i>Journal of the American Chemical Society</i> , 2014, 136, 10024-10032.	13.7	88
49	Faradaurate-940: Synthesis, Mass Spectrometry, Electron Microscopy, High-Energy X-ray Diffraction, and X-ray Scattering Study of Au _{940±20} (SR) Nanocrystals. <i>ACS Nano</i> , 2014, 8, 6431-6439.	14.6	66
50	Super-Stable, Highly Monodisperse Plasmonic Faradaurate-500 Nanocrystals with 500 Gold Atoms: Au ₅₀₀ (SR) Nanocrystals. <i>Journal of the American Chemical Society</i> , 2014, 136, 7410-7417.	13.7	67
51	Exploring the Programmable Assembly of a Polyoxometalate-Organic Hybrid via Metal Ion Coordination. <i>Journal of the American Chemical Society</i> , 2013, 135, 13425-13432.	13.7	78
52	An Unusual Topological Structure of the HIV-1 Rev Response Element. <i>Cell</i> , 2013, 155, 594-605.	28.9	109
53	Rational Design of Helical Nanotubes from Self-Assembly of Coiled-Coil Lock Washers. <i>Journal of the American Chemical Society</i> , 2013, 135, 15565-15578.	13.7	112
54	Self-Recognition of Structurally Identical, Rod-Shaped Macroions with Different Central Metal Atoms during Their Assembly Process. <i>Journal of the American Chemical Society</i> , 2013, 135, 4529-4536.	13.7	54

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55	Multiple conformations of SAM-II riboswitch detected with SAXS and NMR spectroscopy. <i>Nucleic Acids Research</i> , 2012, 40, 3117-3130.	14.5	67
56	Structure of the yeast U2/U6 snRNA complex. <i>Rna</i> , 2012, 18, 673-683.	3.5	78
57	Two ZnF-UBP Domains in Isopeptidase T (USP5). <i>Biochemistry</i> , 2012, 51, 1188-1198.	2.5	49
58	A Top-Down Approach to Determining Global RNA Structures in Solution Using NMR and Small-Angle X-ray Scattering Measurements. <i>Nucleic Acids and Molecular Biology</i> , 2012, , 335-359.	0.2	0
59	Supramolecular Polymers in Aqueous Medium: Rational Design Based on Directional Hydrophobic Interactions. <i>Journal of the American Chemical Society</i> , 2011, 133, 16201-16211.	13.7	84
60	Ligand Induced Conformational Changes of Riboswitches Probed by SAXS and NMR Spectroscopy. <i>Biophysical Journal</i> , 2011, 100, 237a.	0.5	0
61	Recognition of Multivalent Histone States Associated with Heterochromatin by UHRF1 Protein. <i>Journal of Biological Chemistry</i> , 2011, 286, 24300-24311.	3.4	177
62	Solution structure of the cap-independent translational enhancer and ribosome-binding element in the 3' UTR of turnip crinkle virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1385-1390.	7.1	89
63	Rapid global structure determination of large RNA and RNA complexes using NMR and small-angle X-ray scattering. <i>Methods</i> , 2010, 52, 180-191.	3.8	44
64	Structural Basis of Focal Adhesion Localization of LIM-only Adaptor PINCH by Integrin-linked Kinase. <i>Journal of Biological Chemistry</i> , 2009, 284, 5836-5844.	3.4	32
65	X-ray scattering combined with coordinate-based analyses for applications in natural and artificial photosynthesis. <i>Photosynthesis Research</i> , 2009, 102, 267-279.	2.9	23
66	Hydrophobic Dimerization and Thermal Dissociation of Peryleneimide-Linked DNA Hairpins. <i>Journal of the American Chemical Society</i> , 2009, 131, 5920-5929.	13.7	69
67	Solution-State Conformational Ensemble of a Hexameric Porphyrin Array Characterized Using Molecular Dynamics and X-ray Scattering. <i>Journal of Physical Chemistry A</i> , 2009, 113, 2516-2523.	2.5	7
68	Determination of Multicomponent Protein Structures in Solution Using Global Orientation and Shape Restraints. <i>Journal of the American Chemical Society</i> , 2009, 131, 10507-10515.	13.7	50
69	A Method for Helical RNA Global Structure Determination in Solution Using Small-Angle X-Ray Scattering and NMR Measurements. <i>Journal of Molecular Biology</i> , 2009, 393, 717-734.	4.2	65
70	Coordinative Self-Assembly and Solution-Phase X-ray Structural Characterization of Cavity-Tailored Porphyrin Boxes. <i>Journal of the American Chemical Society</i> , 2008, 130, 836-838.	13.7	75
71	Global Molecular Structure and Interfaces: Refining an RNA:RNA Complex Structure Using Solution X-ray Scattering Data. <i>Journal of the American Chemical Society</i> , 2008, 130, 3292-3293.	13.7	54
72	X-ray Scattering for Bio-Molecule Structure Characterization. <i>Advances in Photosynthesis and Respiration</i> , 2008, , 151-165.	1.0	2

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73	Solution-Phase Structural Characterization of Supramolecular Assemblies by Molecular Diffraction. <i>Journal of the American Chemical Society</i> , 2007, 129, 1578-1585.	13.7	47
74	Photocatalytic probing of DNA sequence by using TiO ₂ /dopamine-DNA triads. <i>Chemical Physics</i> , 2007, 339, 154-163.	1.9	45
75	Solvent dependent photocyclization and photophysics of some 2-ethynylbiphenyls. <i>Photochemical and Photobiological Sciences</i> , 2006, 5, 369.	2.9	11
76	Supramolecular porphyrinic prisms: coordinative assembly and solution phase X-ray structural characterization. <i>Chemical Communications</i> , 2006, , 4581.	4.1	40
77	X-ray diffraction "fingerprinting" of DNA structure in solution for quantitative evaluation of molecular dynamics simulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3534-3539.	7.1	100
78	Resolving Conflicting Crystallographic and NMR Models for Solution-State DNA with Solution X-ray Diffraction. <i>Journal of the American Chemical Society</i> , 2005, 127, 16-17.	13.7	51
79	Competitive 1,2- and 1,5-Hydrogen Shifts Following 2-Vinylbiphenyl Photocyclization. <i>Journal of Organic Chemistry</i> , 2005, 70, 10447-10452.	3.2	20
80	Orientation Control of Fluorescence Resonance Energy Transfer Using DNA as a Helical Scaffold. <i>Journal of the American Chemical Society</i> , 2005, 127, 10002-10003.	13.7	83
81	DNA as Helical Ruler: Exciton-Coupled Circular Dichroism in DNA Conjugates. <i>Journal of the American Chemical Society</i> , 2005, 127, 14445-14453.	13.7	115
82	Starting over with Styrene. <i>ChemInform</i> , 2004, 35, no.	0.0	0
83	DNA-Mediated Exciton Coupling and Electron Transfer between Donor and Acceptor Stilbenes Separated by a Variable Number of Base Pairs. <i>Journal of the American Chemical Society</i> , 2004, 126, 8206-8215.	13.7	64
84	Activated Decay Pathways for Planar vs Twisted Singlet Phenylalkenes. <i>Journal of the American Chemical Society</i> , 2003, 125, 8806-8813.	13.7	35
85	Stepwise Evolution of the Structure and Electronic Properties of DNA. <i>Journal of the American Chemical Society</i> , 2003, 125, 12729-12731.	13.7	50
86	Torsional Barriers for Planar versus Twisted Singlet Styrenes. <i>Journal of the American Chemical Society</i> , 2003, 125, 2046-2047.	13.7	23
87	Conformer-specific photoisomerization of some 2-vinylbiphenyls. <i>Photochemical and Photobiological Sciences</i> , 2003, 2, 1059-1066.	2.9	23
88	Dynamics and Energetics of Single-Step Hole Transport in DNA Hairpins. <i>Journal of the American Chemical Society</i> , 2003, 125, 4850-4861.	13.7	120
89	Symmetry-Enforced Conformational Control of Photochemical Reactivity in 2-Vinyl-1,3-terphenyl. <i>Journal of the American Chemical Society</i> , 2002, 124, 13664-13665.	13.7	32
90	Dynamics of Inter- and Intrastrand Hole Transport in DNA Hairpins. <i>Journal of the American Chemical Society</i> , 2002, 124, 4568-4569.	13.7	50

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91	Dynamics and Energetics of Hole Trapping in DNA by 7-Deazaguanine. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1026-1028.	13.8	17
92	Relaxation Pathways of Photoexcited Diaminostilbenes. The meta-Amino Effect. <i>Journal of Physical Chemistry A</i> , 2001, 105, 4691-4696.	2.5	28
93	Temperature-Dependent Photochemistry of 1,3-Diphenylpropenes. The Di- π -Methane Reaction Revisited. <i>Journal of the American Chemical Society</i> , 2001, 123, 11883-11889.	13.7	6
94	Optically Active BINOL Core-Based Phenyleneethynylene Dendrimers for the Enantioselective Fluorescent Recognition of Amino Alcohols. <i>Journal of Organic Chemistry</i> , 2001, 66, 6136-6140.	3.2	112
95	The Di- π -methane Reaction of 3,3-Dimethyl-1,3-Diphenylpropene Revisited: Dynamics and Barriers for Competitive Singlet State Reactions. <i>Journal of the American Chemical Society</i> , 2000, 122, 8571-8572.	13.7	3
96	Stochastic resonance in liquid membrane oscillator. <i>Journal of Chemical Physics</i> , 1998, 109, 6063-6066.	3.0	7
97	Simulation of voltammogram on rough electrode. <i>Electrochimica Acta</i> , 1997, 42, 2555-2558.	5.2	26
98	Programmed Supramolecular Assemblies using Orthogonal Pairs of Heterodimeric Coiled Coil Peptides. <i>Angewandte Chemie</i> , 0, , .	2.0	1