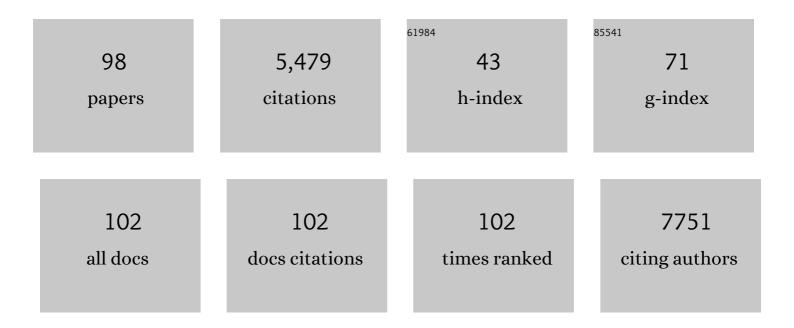
## Xiaobing Zuo

List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Efficient blue light-emitting diodes based on quantum-confined bromide perovskite nanostructures.<br>Nature Photonics, 2019, 13, 760-764.   | 31.4 | 483       |
| 2  | A high-energy and long-cycling lithium–sulfur pouch cell via a macroporous catalytic cathode with double-end binding sites. Nature Nanotechnology, 2021, 16, 166-173.   | 31.5 | 392       |
| 3  | Au <sub>133</sub> (SPh- <i>t</i> Bu) <sub>52</sub> Nanomolecules: X-ray Crystallography, Optical,<br>Electrochemical, and Theoretical Analysis. Journal of the American Chemical Society, 2015, 137,<br>4610-4613.                                      | 13.7 | 265       |
| 4  | Nanostructured Layered Cathode for Rechargeable Mg-Ion Batteries. ACS Nano, 2015, 9, 8194-8205.   | 14.6 | 181       |
| 5  | Recognition of Multivalent Histone States Associated with Heterochromatin by UHRF1 Protein.<br>Journal of Biological Chemistry, 2011, 286, 24300-24311.   | 3.4  | 177       |
| 6  | Structurally Defined Nanoscale Sheets from Self-Assembly of Collagen-Mimetic Peptides. Journal of the American Chemical Society, 2014, 136, 4300-4308.  | 13.7 | 126       |
| 7  | Quantitative 3D evolution of colloidal nanoparticle oxidation in solution. Science, 2017, 356, 303-307.   | 12.6 | 125       |
| 8  | Parasitic Reactions in Nanosized Silicon Anodes for Lithium-Ion Batteries. Nano Letters, 2017, 17, 1512-1519.   | 9.1  | 122       |
| 9  | Dynamics and Energetics of Single-Step Hole Transport in DNA Hairpins. Journal of the American<br>Chemical Society, 2003, 125, 4850-4861.   | 13.7 | 120       |
| 10 | DNA as Helical Ruler:Â Exciton-Coupled Circular Dichroism in DNA Conjugates. Journal of the American<br>Chemical Society, 2005, 127, 14445-14453.   | 13.7 | 115       |
| 11 | Optically Active BINOL Core-Based Phenyleneethynylene Dendrimers for the Enantioselective<br>Fluorescent Recognition of Amino Alcohols. Journal of Organic Chemistry, 2001, 66, 6136-6140.  | 3.2  | 112       |
| 12 | Rational Design of Helical Nanotubes from Self-Assembly of Coiled-Coil Lock Washers. Journal of the<br>American Chemical Society, 2013, 135, 15565-15578.   | 13.7 | 112       |
| 13 | An Unusual Topological Structure of the HIV-1 Rev Response Element. Cell, 2013, 155, 594-605.   | 28.9 | 109       |
| 14 | X-ray diffraction "fingerprinting" of DNA structure in solution for quantitative evaluation of<br>molecular dynamics simulation. Proceedings of the National Academy of Sciences of the United States<br>of America, 2006, 103, 3534-3539.              | 7.1  | 100       |
| 15 | Solution structure of the cap-independent translational enhancer and ribosome-binding element in the 3 <sup>′</sup> UTR of turnip crinkle virus. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1385-1390. | 7.1  | 89        |
| 16 | Relationship between Interchain Interaction, Exciton Delocalization, and Charge Separation in<br>Low-Bandgap Copolymer Blends. Journal of the American Chemical Society, 2014, 136, 10024-10032.  | 13.7 | 88        |
| 17 | Supramolecular Polymers in Aqueous Medium: Rational Design Based on Directional Hydrophobic<br>Interactions. Journal of the American Chemical Society, 2011, 133, 16201-16211.  | 13.7 | 84        |
| 18 | Orientation Control of Fluorescence Resonance Energy Transfer Using DNA as a Helical Scaffold.<br>Journal of the American Chemical Society, 2005, 127, 10002-10003.   | 13.7 | 83        |

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|----|--|-------------------------|-----------|
| 19 | Structure of the yeast U2/U6 snRNA complex. Rna, 2012, 18, 673-683.  | 3.5                     | 78        |
| 20 | Exploring the Programmable Assembly of a Polyoxometalate–Organic Hybrid via Metal Ion<br>Coordination. Journal of the American Chemical Society, 2013, 135, 13425-13432.   | 13.7                    | 78        |
| 21 | Coordinative Self-Assembly and Solution-Phase X-ray Structural Characterization of Cavity-Tailored Porphyrin Boxes. Journal of the American Chemical Society, 2008, 130, 836-838.  | 13.7                    | 75        |
| 22 | Hydrophobic Dimerization and Thermal Dissociation of Perylenediimide-Linked DNA Hairpins. Journal of the American Chemical Society, 2009, 131, 5920-5929.  | 13.7                    | 69        |
| 23 | Structurally Homogeneous Nanosheets from Selfâ€Assembly of a Collagenâ€Mimetic Peptide. Angewandte<br>Chemie - International Edition, 2014, 53, 8367-8371.   | 13.8                    | 68        |
| 24 | Efficient light-emitting diodes based on oriented perovskite nanoplatelets. Science Advances, 2021, 7,<br>eabg8458.  | 10.3                    | 68        |
| 25 | Multiple conformations of SAM-II riboswitch detected with SAXS and NMR spectroscopy. Nucleic Acids Research, 2012, 40, 3117-3130.  | 14.5                    | 67        |
| 26 | Super-Stable, Highly Monodisperse Plasmonic Faradaurate-500 Nanocrystals with 500 Gold Atoms:<br>Au <sub>â^1⁄4500</sub> (SR) <sub>â^1⁄4120</sub> . Journal of the American Chemical Society, 2014, 136, 7410-742                     | $1^{\frac{13.7}{17.7}}$ | 67        |
| 27 | Faradaurate-940: Synthesis, Mass Spectrometry, Electron Microscopy, High-Energy X-ray Diffraction,<br>and X-ray Scattering Study of Au <sub>â^¼940A±20</sub> (SR) <sub>â^¼160A±4</sub> Nanocrystals. ACS Nano<br>2014, 8, 6431-6439. | , 14.6                  | 66        |
| 28 | A Method for Helical RNA Global Structure Determination in Solution Using Small-Angle X-Ray<br>Scattering and NMR Measurements. Journal of Molecular Biology, 2009, 393, 717-734.  | 4.2                     | 65        |
| 29 | Regulating the Hidden Solvationâ€lonâ€Exchange in Concentrated Electrolytes for Stable and Safe Lithium<br>Metal Batteries. Advanced Energy Materials, 2020, 10, 2000901.  | 19.5                    | 65        |
| 30 | DNA-Mediated Exciton Coupling and Electron Transfer between Donor and Acceptor Stilbenes<br>Separated by a Variable Number of Base Pairs. Journal of the American Chemical Society, 2004, 126,<br>8206-8215.                         | 13.7                    | 64        |
| 31 | Helical Antimicrobial Sulfono-Î <sup>3</sup> -AApeptides. Journal of Medicinal Chemistry, 2015, 58, 4802-4811.   | 6.4                     | 63        |
| 32 | Structurally Ordered Nanowire Formation from Co-Assembly of DNA Origami and Collagen-Mimetic<br>Peptides. Journal of the American Chemical Society, 2017, 139, 14025-14028.  | 13.7                    | 59        |
| 33 | Global Molecular Structure and Interfaces:  Refining an RNA:RNA Complex Structure Using Solution<br>X-ray Scattering Data. Journal of the American Chemical Society, 2008, 130, 3292-3293.   | 13.7                    | 54        |
| 34 | Self-Recognition of Structurally Identical, Rod-Shaped Macroions with Different Central Metal Atoms<br>during Their Assembly Process. Journal of the American Chemical Society, 2013, 135, 4529-4536.                                | 13.7                    | 54        |
| 35 | Structured m <scp>RNA</scp> induces the ribosome into a hyperâ€rotated state. EMBO Reports, 2014, 15, 185-190.   | 4.5                     | 53        |
| 36 | Self-Assembly of an α-Helical Peptide into a Crystalline Two-Dimensional Nanoporous Framework.<br>Journal of the American Chemical Society, 2016, 138, 16274-16282.  | 13.7                    | 53        |

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|----|---|------|-----------|
| 37 | Resolving Conflicting Crystallographic and NMR Models for Solution-State DNA with Solution X-ray Diffraction. Journal of the American Chemical Society, 2005, 127, 16-17.   | 13.7 | 51        |
| 38 | Dynamics of Inter- and Intrastrand Hole Transport in DNA Hairpins. Journal of the American Chemical Society, 2002, 124, 4568-4569.  | 13.7 | 50        |
| 39 | Stepwise Evolution of the Structure and Electronic Properties of DNA. Journal of the American Chemical Society, 2003, 125, 12729-12731.   | 13.7 | 50        |
| 40 | Determination of Multicomponent Protein Structures in Solution Using Global Orientation and Shape Restraints. Journal of the American Chemical Society, 2009, 131, 10507-10515.   | 13.7 | 50        |
| 41 | Two ZnF-UBP Domains in Isopeptidase T (USP5). Biochemistry, 2012, 51, 1188-1198.  | 2.5  | 49        |
| 42 | Self-assembly of aramid amphiphiles into ultra-stable nanoribbons and aligned nanoribbon threads.<br>Nature Nanotechnology, 2021, 16, 447-454.  | 31.5 | 49        |
| 43 | Solution-Phase Structural Characterization of Supramolecular Assemblies by Molecular Diffraction.<br>Journal of the American Chemical Society, 2007, 129, 1578-1585.  | 13.7 | 47        |
| 44 | Photocatalytic probing of DNA sequence by using TiO2/dopamine-DNA triads. Chemical Physics, 2007, 339, 154-163.   | 1.9  | 45        |
| 45 | Rapid global structure determination of large RNA and RNA complexes using NMR and small-angle<br>X-ray scattering. Methods, 2010, 52, 180-191.  | 3.8  | 44        |
| 46 | Seeded Heteroepitaxial Growth of Crystallizable Collagen Triple Helices: Engineering Multifunctional<br>Two-Dimensional Core–Shell Nanostructures. Journal of the American Chemical Society, 2019, 141,<br>20107-20117. | 13.7 | 42        |
| 47 | Supramolecular porphyrinic prisms: coordinative assembly and solution phase X-ray structural characterization. Chemical Communications, 2006, , 4581.   | 4.1  | 40        |
| 48 | Small-angle X-ray scattering: a bridge between RNA secondary structures and three-dimensional topological structures. Current Opinion in Structural Biology, 2015, 30, 147-160.   | 5.7  | 40        |
| 49 | Rational Design of Multilayer Collagen Nanosheets with Compositional and Structural Control.<br>Journal of the American Chemical Society, 2015, 137, 7793-7802.   | 13.7 | 40        |
| 50 | 2D Crystal Engineering of Nanosheets Assembled from Helical Peptide Building Blocks. Angewandte<br>Chemie - International Edition, 2019, 58, 13507-13512.   | 13.8 | 39        |
| 51 | Activated Decay Pathways for Planar vs Twisted Singlet Phenylalkenes. Journal of the American<br>Chemical Society, 2003, 125, 8806-8813.  | 13.7 | 35        |
| 52 | Native State Volume Fluctuations in Proteins as a Mechanism for Dynamic Allostery. Journal of the<br>American Chemical Society, 2017, 139, 3599-3602.   | 13.7 | 33        |
| 53 | Symmetry-Enforced Conformational Control of Photochemical Reactivity in 2-Vinyl-1,3-terphenyl.<br>Journal of the American Chemical Society, 2002, 124, 13664-13665.   | 13.7 | 32        |
| 54 | Structural Basis of Focal Adhesion Localization of LIM-only Adaptor PINCH by Integrin-linked Kinase.<br>Journal of Biological Chemistry, 2009, 284, 5836-5844.  | 3.4  | 32        |

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|----|---|------|-----------|
| 55 | Ambidextrous helical nanotubes from self-assembly of designed helical hairpin motifs. Proceedings of the United States of America, 2019, 116, 14456-14464.  | 7.1  | 32        |
| 56 | Sulfonoâ€Î³â€AApeptides as a New Class of Nonnatural Helical Foldamer. Chemistry - A European Journal,<br>2015, 21, 2501-2507.  | 3.3  | 30        |
| 57 | Relaxation Pathways of Photoexcited Diaminostilbenes. Themeta-Amino Effect. Journal of Physical<br>Chemistry A, 2001, 105, 4691-4696.   | 2.5  | 28        |
| 58 | Helical 1:1 α/Sulfono-γ-AA Heterogeneous Peptides with Antibacterial Activity. Biomacromolecules, 2016,<br>17, 1854-1859.   | 5.4  | 28        |
| 59 | Incorporation of isotopic, fluorescent, and heavy-atom-modified nucleotides into RNAs by position-selective labeling of RNA. Nature Protocols, 2018, 13, 987-1005.  | 12.0 | 27        |
| 60 | Shape-Shifting Peptide Nanomaterials: Surface Asymmetry Enables pH-Dependent Formation and<br>Interconversion of Collagen Tubes and Sheets. Journal of the American Chemical Society, 2020, 142,<br>19956-19968.                  | 13.7 | 27        |
| 61 | Simulation of voltammogram on rough electrode. Electrochimica Acta, 1997, 42, 2555-2558.  | 5.2  | 26        |
| 62 | New Class of Heterogeneous Helical Peptidomimetics. Organic Letters, 2015, 17, 3524-3527.   | 4.6  | 26        |
| 63 | Structural Architecture of Prothrombin in Solution Revealed by Single Molecule Spectroscopy.<br>Journal of Biological Chemistry, 2016, 291, 18107-18116.  | 3.4  | 26        |
| 64 | Torsional Barriers for Planar versus Twisted Singlet Styrenes. Journal of the American Chemical<br>Society, 2003, 125, 2046-2047.   | 13.7 | 23        |
| 65 | Conformer-specific photoisomerizaton of some 2-vinylbiphenyls. Photochemical and Photobiological<br>Sciences, 2003, 2, 1059-1066.   | 2.9  | 23        |
| 66 | X-ray scattering combined with coordinate-based analyses for applications in natural and artificial photosynthesis. Photosynthesis Research, 2009, 102, 267-279.  | 2.9  | 23        |
| 67 | Crystal structure of tripleâ€BRCTâ€domain of ECT2 and insights into the binding characteristics to CYKâ€4.<br>FEBS Letters, 2014, 588, 2911-2920.   | 2.8  | 22        |
| 68 | Huntingtin structure is orchestrated by HAP40 and shows a polyglutamine expansion-specific interaction with exon 1. Communications Biology, 2021, 4, 1374.  | 4.4  | 22        |
| 69 | Competitive 1,2- and 1,5-Hydrogen Shifts Following 2-Vinylbiphenyl Photocyclization. Journal of<br>Organic Chemistry, 2005, 70, 10447-10452.  | 3.2  | 20        |
| 70 | Characterization of Protein Flexibility Using Small-Angle X-Ray Scattering and Amplified Collective<br>Motion Simulations. Biophysical Journal, 2014, 107, 956-964.   | 0.5  | 20        |
| 71 | The J-elongated conformation of β2-glycoprotein I predominates in solution: implications for our understanding of antiphospholipid syndrome. Journal of Biological Chemistry, 2020, 295, 10794-10806.                             | 3.4  | 20        |
| 72 | Isolation of a 300 kDa, Au <sub>â^¼1400</sub> Gold Compound, the Standard 3.6 nm Capstone to a Series of Plasmonic Nanocrystals Protected by Aliphatic-like Thiolates. Journal of Physical Chemistry Letters, 2018, 9, 6825-6832. | 4.6  | 18        |

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|----|--|------|-----------|
| 73 | Dynamics and Energetics of Hole Trapping in DNA by 7-Deazaguanine. Angewandte Chemie -<br>International Edition, 2002, 41, 1026-1028.  | 13.8 | 17        |
| 74 | Synchronous RNA conformational changes trigger ordered phase transitions in crystals. Nature Communications, 2021, 12, 1762.   | 12.8 | 17        |
| 75 | Pseudoknot length modulates the folding, conformational dynamics, and robustness of Xrn1 resistance of flaviviral xrRNAs. Nature Communications, 2021, 12, 6417.                             | 12.8 | 15        |
| 76 | Au <sub>329–<i>x</i></sub> Ag <sub><i>x</i></sub> (SR) <sub>84</sub> Nanomolecules: Plasmonic Alloy<br>Faradaurate-329. Journal of Physical Chemistry Letters, 2015, 6, 3320-3326.           | 4.6  | 13        |
| 77 | Morphological Transitions of a Photoswitchable Aramid Amphiphile Nanostructure. Nano Letters, 2021, 21, 2912-2918.   | 9.1  | 13        |
| 78 | Hydrothermal Conditioning of Physical Hydrogels Prepared from a Midblockâ€ <del>S</del> ulfonated Multiblock<br>Copolymer. Macromolecular Rapid Communications, 2017, 38, 1600666.           | 3.9  | 12        |
| 79 | Solvent dependent photocyclization and photophysics of some 2-ethynylbiphenyls. Photochemical and Photobiological Sciences, 2006, 5, 369.  | 2.9  | 11        |
| 80 | 2D Crystal Engineering of Nanosheets Assembled from Helical Peptide Building Blocks. Angewandte<br>Chemie, 2019, 131, 13641-13646.   | 2.0  | 11        |
| 81 | Enhancing the anticoagulant profile of meizothrombin. Biomolecular Concepts, 2018, 9, 169-175.   | 2.2  | 10        |
| 82 | Determining structural ensembles of flexible multi-domain proteins using small-angle X-ray scattering and molecular dynamics simulations. Protein and Cell, 2015, 6, 619-623.                | 11.0 | 9         |
| 83 | ssDNA-amphiphile architecture used to control dimensions of DNA nanotubes. Nanoscale, 2019, 11, 19850-19861.   | 5.6  | 8         |
| 84 | Zymogen and activated protein C have similar structural architecture. Journal of Biological<br>Chemistry, 2020, 295, 15236-15244.  | 3.4  | 8         |
| 85 | Oblique angle deposition of boron carbide films by magnetron sputtering. Journal of Applied Physics, 2021, 130, .  | 2.5  | 8         |
| 86 | Programmed Supramolecular Assemblies Using Orthogonal Pairs of Heterodimeric Coiled Coil<br>Peptides. Angewandte Chemie - International Edition, 2022, 61, .                                 | 13.8 | 8         |
| 87 | Stochastic resonance in liquid membrane oscillator. Journal of Chemical Physics, 1998, 109, 6063-6066.   | 3.0  | 7         |
| 88 | Solution-State Conformational Ensemble of a Hexameric Porphyrin Array Characterized Using<br>Molecular Dynamics and X-ray Scattering. Journal of Physical Chemistry A, 2009, 113, 2516-2523. | 2.5  | 7         |
| 89 | X-ray multi-probe data acquisition: A novel technique for laser pump x-ray transient absorption spectroscopy. Review of Scientific Instruments, 2021, 92, 085109.                            | 1.3  | 7         |
| 90 | Temperature-Dependent Photochemistry of 1,3-Diphenylpropenes. The Di-Ï€-Methane Reaction Revisited.<br>Journal of the American Chemical Society, 2001, 123, 11883-11889.                     | 13.7 | 6         |

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|----|---|------|-----------|
| 91 | Self-assembly of chimeric peptides toward molecularly defined hexamers with controlled multivalent ligand presentation. Chemical Communications, 2020, 56, 7128-7131.                                       | 4.1  | 4         |
| 92 | The Di-π-methane Reaction of 3,3-Dimethyl-1,3-Diphenylpropene Revisited:  Dynamics and Barriers for<br>Competitive Singlet State Reactions. Journal of the American Chemical Society, 2000, 122, 8571-8572. | 13.7 | 3         |
| 93 | The mechanism driving a solid–solid phase transition in a biomacromolecular crystal. IUCrJ, 2021, 8,<br>655-664.  | 2.2  | 2         |
| 94 | X-ray Scattering for Bio-Molecule Structure Characterization. Advances in Photosynthesis and Respiration, 2008, , 151-165.  | 1.0  | 2         |
| 95 | Programmed Supramolecular Assemblies using Orthogonal Pairs of Heterodimeric Coiled Coil<br>Peptides. Angewandte Chemie, 0, , .   | 2.0  | 1         |
| 96 | Starting over with Styrene. ChemInform, 2004, 35, no.   | 0.0  | 0         |
| 97 | Ligand Induced Conformational Changes of Riboswitches Probed by SAXS and NMR Spectroscopy.<br>Biophysical Journal, 2011, 100, 237a.   | O.5  | 0         |
| 98 | A Top-Down Approach to Determining Global RNA Structures in Solution Using NMR and Small-Angle  | 0.2  | 0         |

X-ray Scattering Measurements. Nucleic Acids and Molecular Biology, 2012, , 335-359. 98