

# Kai Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

180  
papers

10,502  
citations

36303

51  
h-index

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96  
g-index

189  
all docs

189  
docs citations

189  
times ranked

11274  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Reliability Evaluation of Two-Phase Degradation Process with a Fuzzy Change-Point. Journal of Shanghai Jiaotong University (Science), 2022, 27, 867-872.   | 0.9  | 5         |
| 2  | Bioengineered Protein-based Adhesives for Biomedical Applications. Chemistry - A European Journal, 2022, 28, .   | 3.3  | 14        |
| 3  | Highly Stiff and Stretchable DNA Liquid Crystalline Organogels with Super Plasticity, Ultrafast Self-Healing, and Magnetic Response Behaviors. Advanced Materials, 2022, 34, e2106208.                       | 21.0 | 19        |
| 4  | Stimuli-Responsive Natural Proteins and Their Applications. ChemBioChem, 2022, 23, .   | 2.6  | 8         |
| 5  | Diversity of Marine Heatwaves in the South China Sea Regulated by ENSO Phase. Journal of Climate, 2022, 35, 877-893.   | 3.2  | 35        |
| 6  | Combinational application of metal-organic frameworks-based nanozyme and nucleic acid delivery in cancer therapy. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2022, 14, e1773.      | 6.1  | 16        |
| 7  | Highly Plasticized Lanthanide Luminescence for Information Storage and Encryption Applications. Advanced Science, 2022, 9, e2105108.   | 11.2 | 30        |
| 8  | Biosynthetic Structural Proteins with Super Plasticity, Extraordinary Mechanical Performance, Biodegradability, Biocompatibility and Information Storage Ability. Angewandte Chemie, 2022, 134, .            | 2.0  | 5         |
| 9  | Advances in flexible organic field-effect transistors and their applications for flexible electronics. Npj Flexible Electronics, 2022, 6, .  | 10.7 | 194       |
| 10 | DNA-Based Concatenated Encoding System for High-Reliability and High-Density Data Storage. Small Methods, 2022, 6, e2101335.   | 8.6  | 20        |
| 11 | Mechanochromic Responses of Cholesteric Liquid Crystal Droplets with Nanoscale Periodic Helical Structures Showing Reversible and Tunable Structural Color. ACS Applied Polymer Materials, 2022, 4, 463-468. | 4.4  | 19        |
| 12 | Biocompatible Inorganic Nanoagent for Efficient Synergistic Tumor Treatment with Augmented Antitumor Immunity. Small, 2022, 18, e2200897.  | 10.0 | 23        |
| 13 | Out-of-Equilibrium Self-Replication Allows Selection for Dynamic Kinetic Stability in a System of Competing Replicators. Angewandte Chemie - International Edition, 2022, 61, .                              | 13.8 | 20        |
| 14 | Out-of-Equilibrium Self-Replication Allows Selection for Dynamic Kinetic Stability in a System of Competing Replicators. Angewandte Chemie, 2022, 134, .   | 2.0  | 4         |
| 15 | Engineered protein nanodrug as an emerging therapeutic tool. Nano Research, 2022, 15, 5161-5172.   | 10.4 | 19        |
| 16 | An Engineered Protein-Au Bioplastic for Efficient Skin Tumor Therapy. Advanced Materials, 2022, 34, e2110062.  | 21.0 | 42        |
| 17 | Engineering High Strength and Super-Toughness of Unfolded Structural Proteins and their Extraordinary Anti-Adhesion Performance for Abdominal Hernia Repair. Advanced Materials, 2022, 34, e2200842.         | 21.0 | 24        |
| 18 | Ultralow-Power and Multisensory Artificial Synapse Based on Electrolyte-Gated Vertical Organic Transistors. Advanced Functional Materials, 2022, 32, .   | 14.9 | 38        |

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|----|---|------|-----------|
| 19 | Self-healing, reusable and conductive cellulose nanocrystals-containing adhesives. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 643, 128797.                                     | 4.7  | 14        |
| 20 | Intrinsically flexible displays: key materials and devices. <i>National Science Review</i> , 2022, 9, .   | 9.5  | 40        |
| 21 | Engineering DNA-Guided Hydroxyapatite Bulk Materials with High Stiffness and Outstanding Antimicrobial Ability for Dental Inlay Applications. <i>Advanced Materials</i> , 2022, 34, e2202180.                       | 21.0 | 16        |
| 22 | Bright and stable gold nanocluster assemblies by silica/zirconia double-shell encapsulation. <i>Journal of Materials Chemistry C</i> , 2022, 10, 10001-10008.   | 5.5  | 5         |
| 23 | High-Efficiency Treatment for Osteoarthritis <i>via</i> Self-Assembled Dual-Functionalized Nanobiologics. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 3320-3328.                                     | 5.2  | 2         |
| 24 | Reversibly Photo-Modulating Mechanical Stiffness and Toughness of Bioengineered Protein Fibers. <i>Angewandte Chemie</i> , 2021, 133, 3259-3265.  | 2.0  | 8         |
| 25 | Reversibly Photo-Modulating Mechanical Stiffness and Toughness of Bioengineered Protein Fibers. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3222-3228.   | 13.8 | 25        |
| 26 | Sonodynamic therapy-derived multimodal synergistic cancer therapy. <i>Cancer Letters</i> , 2021, 497, 229-242.  | 7.2  | 98        |
| 27 | Biomacromolecule-based photo-thermal agents for tumor treatment. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7007-7022.  | 5.8  | 15        |
| 28 | Engineering Cu <sup>2+</sup> -S-conjugated upconverting nanocomposites for NIR-II light-induced enhanced chemodynamic/photothermal therapy of cancer. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7216-7228. | 5.8  | 9         |
| 29 | Nanoparticle-Stabilized Oxygen Microcapsules Prepared by Interfacial Polymerization for Enhanced Oxygen Delivery. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9284-9289.                           | 13.8 | 37        |
| 30 | Significantly Improving the Bioefficacy for Rheumatoid Arthritis with Supramolecular Nanoformulations. <i>Advanced Materials</i> , 2021, 33, e2100098.  | 21.0 | 44        |
| 31 | Injectable In Situ Induced Robust Hydrogel for Photothermal Therapy and Bone Fracture Repair. <i>Advanced Functional Materials</i> , 2021, 31, 2010779.   | 14.9 | 42        |
| 32 | Nanoparticle-Stabilized Oxygen Microcapsules Prepared by Interfacial Polymerization for Enhanced Oxygen Delivery. <i>Angewandte Chemie</i> , 2021, 133, 9370-9375.  | 2.0  | 0         |
| 33 | Chemical Fueling Enables Molecular Complexification of Self-Replicators**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11344-11349.  | 13.8 | 47        |
| 34 | Genetically Engineered Polypeptide Adhesive Coacervates for Surgical Applications. <i>Angewandte Chemie</i> , 2021, 133, 23880-23887.   | 2.0  | 8         |
| 35 | An Artificial Phase-Transitional Underwater Bioglue with Robust and Switchable Adhesion Performance. <i>Angewandte Chemie</i> , 2021, 133, 12189-12196.   | 2.0  | 14        |
| 36 | Chemical Fueling Enables Molecular Complexification of Self-Replicators**. <i>Angewandte Chemie</i> , 2021, 133, 11445-11450.   | 2.0  | 8         |

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|----|---|------|-----------|
| 37 | An Artificial Phase-Transitional Underwater Biogel with Robust and Switchable Adhesion Performance. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12082-12089.   | 13.8 | 48        |
| 38 | Genetically Engineered Polypeptide Adhesive Coacervates for Surgical Applications. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23687-23694.  | 13.8 | 78        |
| 39 | Improving Bioavailability of Hydrophobic Prodrugs through Supramolecular Nanocarriers Based on Recombinant Proteins for Osteosarcoma Treatment. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11252-11256. | 13.8 | 37        |
| 40 | Improving Bioavailability of Hydrophobic Prodrugs through Supramolecular Nanocarriers Based on Recombinant Proteins for Osteosarcoma Treatment. <i>Angewandte Chemie</i> , 2021, 133, 11352-11356.                        | 2.0  | 5         |
| 41 | The Spectroscopic Properties and Microscopic Imaging of Thulium-Doped Upconversion Nanoparticles Excited at Different NIR-II Light. <i>Biosensors</i> , 2021, 11, 148.  | 4.7  | 3         |
| 42 | An Engineered Protein Adhesive with Properties of Tissue Integration and Controlled Release for Efficient Cartilage Repair. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100109.                                    | 7.6  | 15        |
| 43 | Self-Sorting in Dynamic Combinatorial Libraries Leads to the Co-Existence of Foldamers and Self-Replicators. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13569-13573.                                    | 13.8 | 14        |
| 44 | Self-Sorting in Dynamic Combinatorial Libraries Leads to the Co-Existence of Foldamers and Self-Replicators. <i>Angewandte Chemie</i> , 2021, 133, 13681-13685.   | 2.0  | 9         |
| 45 | A New Type of Biological Glue Derived from Fish Swim Bladder: Outstanding Adhesion and Surgical Applications. <i>Advanced Materials Technologies</i> , 2021, 6, 2100303.  | 5.8  | 6         |
| 46 | Ultra-strong bio-glue from genetically engineered polypeptides. <i>Nature Communications</i> , 2021, 12, 3613.  | 12.8 | 104       |
| 47 | Proteinaceous Fibers with Outstanding Mechanical Properties Manipulated by Supramolecular Interactions. <i>CCS Chemistry</i> , 2021, 3, 1669-1677.  | 7.8  | 39        |
| 48 | Attractive Pickering Emulsion Gels. <i>Advanced Materials</i> , 2021, 33, e2102362.   | 21.0 | 78        |
| 49 | Dual-Mode Learning of Ambipolar Synaptic Phototransistor Based on 2D Perovskite/Organic Heterojunction for Flexible Color Recognizable Visual System. <i>Small</i> , 2021, 17, e2102820.                                  | 10.0 | 66        |
| 50 | Azobenzene-Based Photomechanical Biomaterials. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2100020.  | 3.6  | 12        |
| 51 | Extracellular Elastin Molecule Modulates Alzheimer's $A\beta$ Dynamics <i>In Vitro</i> and <i>In Vivo</i> by Affecting Microglial Activities. <i>CCS Chemistry</i> , 2021, 3, 1830-1837.                                  | 7.8  | 28        |
| 52 | Embellishment of Upconversion Nanoparticles with Ultrasmall Perovskite Quantum Dots for Full-Color Tunable, Dual-Modal Luminescence Anticounterfeiting. <i>Advanced Optical Materials</i> , 2021, 9, 2100814.             | 7.3  | 31        |
| 53 | A $T_{2\rho}$ MRI Dy-based contrast agent for direct pH imaging using a ratiometric approach. <i>Dalton Transactions</i> , 2021, 50, 2014-2017.   | 3.3  | 1         |
| 54 | Engineering non-covalently assembled protein nanoparticles for long-acting gouty arthritis therapy. <i>Journal of Materials Chemistry B</i> , 2021, 9, 9923-9931.   | 5.8  | 8         |

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|----|--|------|-----------|
| 55 | Nanoparticle-Assisted Alignment of Carbon Nanotubes on DNA Origami. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4892-4896.  | 13.8 | 33        |
| 56 | Mechanically Strong Globular-Protein-Based Fibers Obtained Using a Microfluidic Spinning Technique. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4344-4348.                                  | 13.8 | 56        |
| 57 | Preparation of high 1,2-orientation butadiene-styrene copolymer by coordination copolymerization with molybdenum-based catalytic system. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48897.       | 2.6  | 0         |
| 58 | Fabrication and Mechanical Properties of Engineered Protein-Based Adhesives and Fibers. <i>Advanced Materials</i> , 2020, 32, e1906360.  | 21.0 | 97        |
| 59 | Process intensification for rare-earth doped luminescent nanomaterials. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 2497.   | 3.5  | 1         |
| 60 | De novo rational design of a freestanding, supercharged polypeptide, proton-conducting membrane. <i>Science Advances</i> , 2020, 6, eabc0810.  | 10.3 | 24        |
| 61 | Emergence of low-symmetry foldamers from single monomers. <i>Nature Chemistry</i> , 2020, 12, 1180-1186.   | 13.6 | 47        |
| 62 | Anisotropic Protein Organofibers Encoded With Extraordinary Mechanical Behavior for Cellular Mechanobiology Applications. <i>Angewandte Chemie</i> , 2020, 132, 21665-21671.                                 | 2.0  | 8         |
| 63 | Anisotropic Protein Organofibers Encoded With Extraordinary Mechanical Behavior for Cellular Mechanobiology Applications. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21481-21487.          | 13.8 | 39        |
| 64 | Injectable and NIR-Responsive DNA-Inorganic Hybrid Hydrogels with Outstanding Photothermal Therapy. <i>Advanced Materials</i> , 2020, 32, e2004460.  | 21.0 | 114       |
| 65 | Frontispiece: Extracellular Matrix Proteins Involved in Alzheimer's Disease. <i>Chemistry - A European Journal</i> , 2020, 26, .   | 3.3  | 2         |
| 66 | Active Encapsulation in Biocompatible Nanocapsules. <i>Small</i> , 2020, 16, e2002716.   | 10.0 | 42        |
| 67 | Stable ion bond for high damping, high wet resistance, and low rolling resistance high vinyl polybutadiene rubber-based dicarboxylate ionomer. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49374. | 2.6  | 5         |
| 68 | Misspecification analysis of two-phase gamma-Wiener degradation models. <i>Quality and Reliability Engineering International</i> , 2020, 36, 2066-2084.  | 2.3  | 6         |
| 69 | Bioinspired and Mechanically Strong Fibers Based on Engineered Non-Spider Chimeric Proteins. <i>Angewandte Chemie</i> , 2020, 132, 8225-8229.  | 2.0  | 18        |
| 70 | Engineered Near-Infrared Fluorescent Protein Assemblies for Robust Bioimaging and Therapeutic Applications. <i>Advanced Materials</i> , 2020, 32, e2000964.  | 21.0 | 58        |
| 71 | Extracellular Matrix Proteins Involved in Alzheimer's Disease. <i>Chemistry - A European Journal</i> , 2020, 26, 12101-12110.  | 3.3  | 35        |
| 72 | Bioinspired and Mechanically Strong Fibers Based on Engineered Non-Spider Chimeric Proteins. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8148-8152.   | 13.8 | 51        |

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|----|---|------|-----------|
| 73 | Lanthanide-Based Photothermal Materials: Fabrication and Biomedical Applications. ACS Applied Bio Materials, 2020, 3, 3975-3986.  | 4.6  | 33        |
| 74 | Engineered Anisotropic Fluids of Rare-Earth Nanomaterials. Angewandte Chemie, 2020, 132, 18370-18374.   | 2.0  | 5         |
| 75 | Emergence of light-driven protometabolism on recruitment of a photocatalytic cofactor by a self-replicator. Nature Chemistry, 2020, 12, 603-607.  | 13.6 | 55        |
| 76 | Engineered Anisotropic Fluids of Rare-Earth Nanomaterials. Angewandte Chemie - International Edition, 2020, 59, 18213-18217.  | 13.8 | 20        |
| 77 | Biocompatible and pH-Responsive Colloidal Surfactants with Tunable Shape for Controlled Interfacial Curvature. Angewandte Chemie - International Edition, 2020, 59, 9365-9369.                                    | 13.8 | 41        |
| 78 | Biocompatible and pH-Responsive Colloidal Surfactants with Tunable Shape for Controlled Interfacial Curvature. Angewandte Chemie, 2020, 132, 9451-9455.   | 2.0  | 5         |
| 79 | Mechanically Strong Globular-Protein-Based Fibers Obtained Using a Microfluidic Spinning Technique. Angewandte Chemie, 2020, 132, 4374-4378.  | 2.0  | 11        |
| 80 | Supercharged Proteins and Polypeptides. Advanced Materials, 2020, 32, e1905309.   | 21.0 | 58        |
| 81 | Nanoparticle-Assisted Alignment of Carbon Nanotubes on DNA Origami. Angewandte Chemie, 2020, 132, 4922-4926.  | 2.0  | 7         |
| 82 | Solvent-Free Plasticity and Programmable Mechanical Behaviors of Engineered Proteins. Advanced Materials, 2020, 32, e1907697.   | 21.0 | 23        |
| 83 | Robust Biological Fibers Based on Widely Available Proteins: Facile Fabrication and Suturing Application. Small, 2020, 16, e1907598.  | 10.0 | 33        |
| 84 | Combating the Coronavirus Pandemic: Early Detection, Medical Treatment, and a Concerted Effort by the Global Community. Research, 2020, 2020, 6925296.  | 5.7  | 26        |
| 85 | Recent progress in stretchable organic field-effect transistors. Science China Technological Sciences, 2019, 62, 1255-1276.   | 4.0  | 18        |
| 86 | Significant Upregulation of Alzheimer's $\beta$ -Amyloid Levels in a Living System Induced by Extracellular Elastin Polypeptides. Angewandte Chemie - International Edition, 2019, 58, 18703-18709.               | 13.8 | 36        |
| 87 | Detection and Chiral Recognition of $\beta$ -Hydroxyl Acid through $^1\text{H}$ and CEST NMR Spectroscopy Using a Ytterbium Macrocylic Complex. Angewandte Chemie, 2019, 131, 18454-18457.                        | 2.0  | 8         |
| 88 | Detection and Chiral Recognition of $\beta$ -Hydroxyl Acid through $^1\text{H}$ and CEST NMR Spectroscopy Using a Ytterbium Macrocylic Complex. Angewandte Chemie - International Edition, 2019, 58, 18286-18289. | 13.8 | 23        |
| 89 | Uncertainties in contact angle goniometry. Soft Matter, 2019, 15, 7089-7096.  | 2.7  | 69        |
| 90 | Transparent Impact-Resistant Composite Films with Bioinspired Hierarchical Structure. ACS Applied Materials & Interfaces, 2019, 11, 23616-23622.  | 8.0  | 39        |

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|-----|--|------|-----------|
| 91  | Preparation of Butadiene-Isoprene Copolymer with High Vinyl Contents by Al(OPhCH <sub>3</sub> )(i-Bu) <sub>2</sub> /MoO <sub>2</sub> Cl <sub>2</sub> ·nH <sub>2</sub> O/TNPP. <i>Polymers</i> , 2019, 11, 527.                                 | 4.5  | 1         |
| 92  | Modifying Surfaces with the Primary and Secondary Faces of Cyclodextrins To Achieve a Distinct Anti-icing Capability. <i>Langmuir</i> , 2019, 35, 5176-5182.   | 3.5  | 3         |
| 93  | Improving surface-wetting characterization. <i>Science</i> , 2019, 363, 1147-1148.   | 12.6 | 76        |
| 94  | Photooxidase-Mimicking Nanovesicles with Superior Photocatalytic Activity and Stability Based on Amphiphilic Amino Acid and Phthalocyanine Co-Assembly. <i>Angewandte Chemie</i> , 2019, 131, 2022-2026.                                       | 2.0  | 13        |
| 95  | Photooxidase-Mimicking Nanovesicles with Superior Photocatalytic Activity and Stability Based on Amphiphilic Amino Acid and Phthalocyanine Co-Assembly. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2000-2004.                | 13.8 | 86        |
| 96  | Chemical Formation and Multiple Applications of Organic-Inorganic Hybrid Perovskite Materials. <i>Journal of the American Chemical Society</i> , 2019, 141, 1406-1414.   | 13.7 | 61        |
| 97  | Genetically Engineered Supercharged Polypeptide Fluids: Fast and Persistent Self-Ordering Induced by Touch. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6878-6882.  | 13.8 | 38        |
| 98  | Bioinspired Materials for Controlling Ice Nucleation, Growth, and Recrystallization. <i>Accounts of Chemical Research</i> , 2018, 51, 1082-1091.   | 15.6 | 159       |
| 99  | Fabrication of Anti-Icing Surfaces by Short $\alpha$ -Helical Peptides. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1957-1962.   | 8.0  | 36        |
| 100 | Primitive Photosynthetic Architectures Based on Self-Organization and Chemical Evolution of Amino Acids and Metal Ions. <i>Advanced Science</i> , 2018, 5, 1701001.  | 11.2 | 35        |
| 101 | Thermal Decomposition of CdS Nanowires Assisted by ZIF-67 to Induce the Formation of Co <sub>9</sub> S <sub>8</sub> -Based Carbon Nanomaterials with High Lithium-Storage Abilities. <i>ACS Applied Energy Materials</i> , 2018, 1, 6242-6249. | 5.1  | 8         |
| 102 | Genetically Engineered Supercharged Polypeptide Fluids: Fast and Persistent Self-Ordering Induced by Touch. <i>Angewandte Chemie</i> , 2018, 130, 6994-6998.   | 2.0  | 8         |
| 103 | Carbon-Tailored Semimetal MoP as an Efficient Hydrogen Evolution Electrocatalyst in Both Alkaline and Acid Media. <i>Advanced Energy Materials</i> , 2018, 8, 1801258.   | 19.5 | 111       |
| 104 | Peptide-Directed Hierarchical Mineralized Silver Nanocages for Anti-Tumor Photothermal Therapy. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7574-7588.   | 6.7  | 64        |
| 105 | Recent advances in gadolinium-based MRI metal responsive agent. <i>Science China Technological Sciences</i> , 2018, 61, 1329-1333.   | 4.0  | 10        |
| 106 | Amino-Acid-Mediated Biomimetic Formation of Light-Harvesting Antenna Capable of Hydrogen Evolution. <i>ACS Applied Bio Materials</i> , 2018, 1, 748-755.   | 4.6  | 26        |
| 107 | Self-Assembled Minimalist Multifunctional Theranostic Nanoplatform for Magnetic Resonance Imaging-Guided Tumor Photodynamic Therapy. <i>ACS Nano</i> , 2018, 12, 8266-8276.  | 14.6 | 191       |
| 108 | Tunable Aggregation-Induced Emission of Tetraphenylethylene via Short Peptide-Directed Self-Assembly. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600183.   | 3.7  | 18        |

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|-----|---|------|-----------|
| 109 | Self-assembly of biomimetic light-harvesting complexes capable of hydrogen evolution. <i>Green Energy and Environment</i> , 2017, 2, 58-63.   | 8.7  | 50        |
| 110 | Durable Anti-Icing Coatings Based on Self-Sustainable Lubricating Layer. <i>ACS Omega</i> , 2017, 2, 2047-2054.   | 3.5  | 40        |
| 111 | Liquefaction of Biopolymers: Solvent-free Liquids and Liquid Crystals from Nucleic Acids and Proteins. <i>Accounts of Chemical Research</i> , 2017, 50, 1212-1221.  | 15.6 | 31        |
| 112 | Enzyme-immobilized clay nanotube-chitosan membranes with sustainable biocatalytic activities. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 562-567.   | 2.8  | 39        |
| 113 | Oxidized Quasi-Carbon Nitride Quantum Dots Inhibit Ice Growth. <i>Advanced Materials</i> , 2017, 29, 1606843.   | 21.0 | 121       |
| 114 | Self-Assembled Zinc/Cystine-Based Chloroplast Mimics Capable of Photoenzymatic Reactions for Sustainable Fuel Synthesis. <i>Angewandte Chemie</i> , 2017, 129, 7984-7988.   | 2.0  | 36        |
| 115 | Self-Assembled Zinc/Cystine-Based Chloroplast Mimics Capable of Photoenzymatic Reactions for Sustainable Fuel Synthesis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7876-7880.                        | 13.8 | 176       |
| 116 | Directed Self-Assembly: Tunable Aggregation-Induced Emission of Tetraphenylethylene via Short Peptide-Directed Self-Assembly ( <i>Adv. Mater. Interfaces</i> 1/2017). <i>Advanced Materials Interfaces</i> , 2017, 4, . | 3.7  | 0         |
| 117 | Distinct ice patterns on solid surfaces with various wettabilities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11285-11290.                                    | 7.1  | 132       |
| 118 | Peptide-Based Supramolecular Chemistry. , 2017, , 135-163.  |      | 0         |
| 119 | Size Controllable, Transparent, and Flexible 2D Silver Meshes Using Recrystallized Ice Crystals as Templates. <i>ACS Nano</i> , 2017, 11, 9898-9905.  | 14.6 | 38        |
| 120 | Size Fractionation of Graphene Oxide Nanosheets via Controlled Directional Freezing. <i>Journal of the American Chemical Society</i> , 2017, 139, 12517-12523.  | 13.7 | 52        |
| 121 | Nematic DNA Thermotropic Liquid Crystals with Photoresponsive Mechanical Properties. <i>Small</i> , 2017, 13, 1701207.  | 10.0 | 32        |
| 122 | Biomimetic Oxygen-Evolving Photobacteria Based on Amino Acid and Porphyrin Hierarchical Self-Organization. <i>ACS Nano</i> , 2017, 11, 12840-12848.   | 14.6 | 26        |
| 123 | Reliability assessment of NAND SSD based on acceleration degradation test. , 2017, , .  |      | 3         |
| 124 | Prior Distribution Selection Criterion in Accelerated Degradation Testing Bayesian Optimization Design Based on Bayes Factors. , 2017, , .  |      | 3         |
| 125 | Co-Assembly of Heparin and Polypeptide Hybrid Nanoparticles for Biomimetic Delivery and Anti-Thrombus Therapy. <i>Small</i> , 2016, 12, 4719-4725.  | 10.0 | 64        |
| 126 | Simple Peptide-Tuned Self-Assembly of Photosensitizers towards Anticancer Photodynamic Therapy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3036-3039.   | 13.8 | 453       |

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|-----|---|------|-----------|
| 127 | Peptide-Modulated Self-Assembly of Chromophores toward Biomimetic Light-Harvesting Nanoarchitectonics. <i>Advanced Materials</i> , 2016, 28, 1031-1043.   | 21.0 | 253       |
| 128 | Castor oil-based waterborne polyurethanes with tunable properties and excellent biocompatibility. <i>European Journal of Lipid Science and Technology</i> , 2016, 118, 1512-1520.   | 1.5  | 39        |
| 129 | An Injectable Self-Assembling Collagen-Gold Hybrid Hydrogel for Combinatorial Antitumor Photothermal/Photodynamic Therapy. <i>Advanced Materials</i> , 2016, 28, 3669-3676.   | 21.0 | 700       |
| 130 | Research on reliability assessment of space electronic products based on integration of highly accelerated life test and accelerated degradation test. , 2016, , .  |      | 1         |
| 131 | Janus effect of antifreeze proteins on ice nucleation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14739-14744.   | 7.1  | 205       |
| 132 | An Amylase-Responsive Bolaform Supra-Amphiphile. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4927-4933.  | 8.0  | 36        |
| 133 | Molecular and mesoscale mechanism for hierarchical self-assembly of dipeptide and porphyrin light-harvesting system. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16738-16747.                                      | 2.8  | 33        |
| 134 | Mimicking Primitive Photobacteria: Sustainable Hydrogen Evolution Based on Peptide-Porphyrin Co-Assemblies with a Self-Mineralized Reaction Center. <i>Angewandte Chemie</i> , 2016, 128, 12691-12695.                        | 2.0  | 23        |
| 135 | Dipeptide concave nanospheres based on interfacially controlled self-assembly: from crescent to solid. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 30926-30930.  | 2.8  | 15        |
| 136 | Peptide self-assembly: thermodynamics and kinetics. <i>Chemical Society Reviews</i> , 2016, 45, 5589-5604.  | 38.1 | 760       |
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