## Xiang Yang Liu

List of Publications by Year in descending order

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207 papers 9,825 citations

54 h-index 88 g-index

215 all docs

215 docs citations

215 times ranked 11796 citing authors

| #  | Article   | IF           | CITATIONS |
|----|---|--------------|-----------|
| 1  | Reconstructed silk fibroin mediated smart wristband for physiological signal detection. Chemical Engineering Journal, 2022, 428, 132362.  | 6.6          | 14        |
| 2  | Highly flexible and high energy density fiber supercapacitors based upon spiral silk composite membranes encapsulation. Electrochimica Acta, 2022, 404, 139611.   | 2.6          | 5         |
| 3  | From Mesoscopic Functionalization of Silk Fibroin to Smart Fiber Devices for Textile Electronics and Photonics. Advanced Science, 2022, 9, e2103981.  | 5 <b>.</b> 6 | 40        |
| 4  | Recent Progress of Applying Mesoscopic Functionalization Engineering Principles to Spin Advanced Regenerated Silk Fibroin Fibers. Advanced Fiber Materials, 2022, 4, 390-403.   | 7.9          | 15        |
| 5  | Enzymatic Crosslinked Silk Fibroin Hydrogel for Biodegradable Electronic Skin and Pulse Waveform Measurements. Biomacromolecules, 2022, 23, 3429-3438.  | 2.6          | 3         |
| 6  | All-in-one fibrous capacitive humidity sensor for human breath monitoring. Textile Reseach Journal, 2021, 91, 398-405.  | 1.1          | 16        |
| 7  | Tailoring NiCoAl layered double hydroxide nanosheets for assembly of high-performance asymmetric supercapacitors. Journal of Colloid and Interface Science, 2021, 583, 722-733.   | <b>5.</b> 0  | 49        |
| 8  | Stretchable Supercapacitors: From Materials and Structures to Devices. Small Methods, 2021, 5, e2000853.  | 4.6          | 30        |
| 9  | Enhanced mechanical performance of biocompatible silk fibroin films through mesoscopic construction of hierarchical structures. Textile Reseach Journal, 2021, 91, 1146-1154.   | 1.1          | 3         |
| 10 | Coupling of Silk Fibroin Nanofibrils Enzymatic Membrane with Ultraâ€Thin PtNPs/Graphene Film to Acquire Long and Stable Onâ€Skin Sweat Glucose and Lactate Sensing. Small Methods, 2021, 5, e2000926.                             | 4.6          | 28        |
| 11 | Silk Nanococoons: Bioâ€Nanoreactors for Enzymatic Catalytic Reactions and Applications to Alcohol Intoxication. Small Science, 2021, 1, 2000049.  | 5 <b>.</b> 8 | 11        |
| 12 | Recent Advances in Patterning Natural Polymers: From Nanofabrication Techniques to Applications. Small Methods, 2021, 5, e2001060.  | 4.6          | 29        |
| 13 | A capacitive humidity sensor based on all-protein embedded with gold nanoparticles @ carbon composite for human respiration detection. Nanotechnology, 2021, 32, 19LT01.  | 1.3          | 12        |
| 14 | Mesoâ€Reconstruction of Silk Fibroin based on Molecular and Nanoâ€Templates for Electronic Skin in Medical Applications. Advanced Functional Materials, 2021, 31, 2100150.  | 7.8          | 42        |
| 15 | Biomimetic Salinity Power Generation Based on Silk Fibroin Ion-Exchange Membranes. ACS Nano, 2021, 15, 5649-5660.   | 7.3          | 36        |
| 16 | New Silk Road: From Mesoscopic Reconstruction/Functionalization to Flexible<br>Mesoâ€Electronics/Photonics Based on Cocoon Silk Materials. Advanced Materials, 2021, 33, e2005910.  | 11.1         | 45        |
| 17 | Wearable hydration and pH sensor based on protein film for healthcare monitoring. Chemical Papers, 2021, 75, 4927.  | 1.0          | 10        |
| 18 | Acid and Alkaliâ€Resistant Textile Triboelectric Nanogenerator as a Smart Protective Suit for Liquid Energy Harvesting and Selfâ€Powered Monitoring in Highâ€Risk Environments. Advanced Functional Materials, 2021, 31, 2102963. | 7.8          | 63        |

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| 19 | Stretchable, Stable, and Degradable Silk Fibroin Enabled by Mesoscopic Doping for Finger Motion Triggered Color/Transmittance Adjustment. ACS Nano, 2021, 15, 12429-12437.        | 7.3         | 42        |
| 20 | Boost of the Bio-memristor Performance for Artificial Electronic Synapses by Surface Reconstruction. ACS Applied Materials & Samp; Interfaces, 2021, 13, 39641-39651.             | 4.0         | 23        |
| 21 | Effect of Graphene on Ice Polymorph. Crystals, 2021, 11, 1134.  | 1.0         | 3         |
| 22 | Subcutaneous Energy/Signal Transmission Based on Silk Fibroin Up-Conversion Photonic Amplification. ACS Nano, 2021, 15, 9559-9567.  | 7.3         | 12        |
| 23 | Flexible and disposable gold nanoparticles-N-doped carbon-modified electrochemical sensor for simultaneous detection of dopamine and uric acid. Nanotechnology, 2021, 32, 065502. | 1.3         | 15        |
| 24 | High voltage output/energy density flexible asymmetric fiber supercapacitors based on a tree-like topology. Cell Reports Physical Science, 2021, 2, 100649.                       | 2.8         | 2         |
| 25 | Reinforcement of Silk Microneedle Patches for Accurate Transdermal Delivery. Biomacromolecules, 2021, 22, 5319-5326.  | 2.6         | 15        |
| 26 | Programing Performance of Silk Fibroin Superstrong Scaffolds by Mesoscopic Regulation among Hierarchical Structures. Biomacromolecules, 2020, 21, 4169-4179.                      | 2.6         | 14        |
| 27 | A Machineâ€Fabricated 3D Honeycombâ€Structured Flameâ€Retardant Triboelectric Fabric for Fire Escape and Rescue. Advanced Materials, 2020, 32, e2003897.                          | 11.1        | 136       |
| 28 | Flexible and Insoluble Artificial Synapses Based on Chemical Crossâ€Linked Wool Keratin. Advanced Functional Materials, 2020, 30, 2002882.  | 7.8         | 42        |
| 29 | Mesoâ€Reconstruction of Wool Keratin 3D "Molecular Springs―for Tunable Ultraâ€Sensitive and Highly<br>Recovery Strain Sensors. Small, 2020, 16, e2000128.                         | <b>5.</b> 2 | 33        |
| 30 | From Molecular Reconstruction of Mesoscopic Functional Conductive Silk Fibrous Materials to Remote Respiration Monitoring. Small, 2020, 16, e2000203.                             | 5.2         | 48        |
| 31 | Tailoring the Meso-Structure of Gold Nanoparticles in Keratin-Based Activated Carbon Toward<br>High-Performance Flexible Sensor. Nano-Micro Letters, 2020, 12, 117.               | 14.4        | 20        |
| 32 | Graphene decorated carbonized cellulose fabric for physiological signal monitoring and energy harvesting. Journal of Materials Chemistry A, 2020, 8, 12665-12673.                 | 5.2         | 68        |
| 33 | Making Stretchable Hybrid Supercapacitors by Knitting Nonâ€Stretchable Metal Fibers. Advanced Functional Materials, 2020, 30, 2003153.  | 7.8         | 52        |
| 34 | Stretchable and Heatâ€Resistant Proteinâ€Based Electronic Skin for Human Thermoregulation. Advanced Functional Materials, 2020, 30, 1910547.                                      | 7.8         | 104       |
| 35 | Continuous and Scalable Manufacture of Hybridized Nano-Micro Triboelectric Yarns for Energy<br>Harvesting and Signal Sensing. ACS Nano, 2020, 14, 4716-4726.                      | 7.3         | 130       |
| 36 | Constructing dual-readout logic operations based on the silk fibroin sol–gel transition. Journal of Materials Chemistry B, 2020, 8, 3005-3009.                                    | 2.9         | 1         |

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| 37 | All-Textile Electronic Skin Enabled by Highly Elastic Spacer Fabric and Conductive Fibers. ACS Applied Materials & Samp; Interfaces, 2019, 11, 33336-33346.                                 | 4.0  | 81        |
| 38 | An efficient disposable and flexible electrochemical sensor based on a novel and stable metal carbon composite derived from cocoon silk. Biosensors and Bioelectronics, 2019, 142, 111595.  | 5.3  | 20        |
| 39 | Silk Flexible Electronics: From <i>Bombyx mori</i> Silk Ag Nanoclusters Hybrid Materials to Mesoscopic Memristors and Synaptic Emulators. Advanced Functional Materials, 2019, 29, 1904777. | 7.8  | 71        |
| 40 | Primary and Secondary Mesoscopic Hybrid Materials of Au Nanoparticles@Silk Fibroin and Applications. ACS Applied Materials & Samp; Interfaces, 2019, 11, 30125-30136.                       | 4.0  | 18        |
| 41 | A Novel Facile and Green Synthesis Protocol to Prepare High Strength Regenerated Silk Fibroin/SiO2<br>Composite Fiber. Fibers and Polymers, 2019, 20, 2222-2226.                            | 1.1  | 8         |
| 42 | Hierarchical Structure of Silk Materials Versus Mechanical Performance and Mesoscopic Engineering Principles. Small, 2019, 15, e1903948.  | 5.2  | 82        |
| 43 | Fullâ€Textile Wireless Flexible Humidity Sensor for Human Physiological Monitoring. Advanced Functional Materials, 2019, 29, 1904549.   | 7.8  | 193       |
| 44 | A Biodegradable and Stretchable Proteinâ€Based Sensor as Artificial Electronic Skin for Human Motion Detection. Small, 2019, 15, e1805084.  | 5.2  | 143       |
| 45 | Pulsed electrochemical deposition of porous WO <sub>3</sub> on silver networks for highly flexible electrochromic devices. Journal of Materials Chemistry C, 2019, 7, 1966-1973.            | 2.7  | 40        |
| 46 | Transient bioelectrical devices inspired by a silkworm moth breaking out of its cocoon. RSC Advances, 2019, 9, 14254-14259.   | 1.7  | 6         |
| 47 | Silk Composite Electronic Textile Sensor for High Space Precision 2D Combo Temperature–Pressure Sensing. Small, 2019, 15, e1901558.   | 5.2  | 184       |
| 48 | Using Wool Keratin as a Basic Resist Material to Fabricate Precise Protein Patterns. Advanced Materials, 2019, 31, e1900870.  | 11,1 | 54        |
| 49 | Gel-Based Artificial Photonic Skin to Sense a Gentle Touch by Reflection. ACS Applied Materials & Samp; Interfaces, 2019, 11, 15195-15200.  | 4.0  | 15        |
| 50 | Can the pathway of stepwise nucleation be predicted and controlled?. Physical Chemistry Chemical Physics, 2019, 21, 7398-7405.  | 1.3  | 6         |
| 51 | Effective hydrogenation of g-C3N4 for enhanced photocatalytic performance revealed by molecular structure dynamics. Applied Catalysis B: Environmental, 2019, 250, 63-70.                   | 10.8 | 47        |
| 52 | A nanoneedle-based reactional wettability variation sensor array for on-site detection of metal ions with a smartphone. Journal of Colloid and Interface Science, 2019, 547, 330-338.       | 5.0  | 8         |
| 53 | An integrated smart heating control system based on sandwich-structural textiles. Nanotechnology, 2019, 30, 325203.   | 1.3  | 33        |
| 54 | Silk Fluorescence Collimator for Ultrasensitive Humidity Sensing and Lightâ€Harvesting in Semitransparent Dyeâ€Sensitized Solar Cells. Small, 2019, 15, 1804171.                            | 5.2  | 12        |

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| 55 | Photoelectrochromic smart windows powered by flexible dye-sensitized solar cell using CuS mesh as counter electrode. Materials Letters, 2019, 244, 92-95.                                      | 1.3 | 15        |
| 56 | Assembling Twoâ€Phase Enzymatic Cascade Pathways in Pickering Emulsion. ChemCatChem, 2019, 11, 1878-1883.  | 1.8 | 6         |
| 57 | Highly flexible and scalable photo-rechargeable power unit based on symmetrical nanotube arrays.<br>Nano Energy, 2018, 46, 168-175.  | 8.2 | 44        |
| 58 | Seeded Mineralization Leads to Hierarchical CaCO <sub>3</sub> Thin Coatings on Fibers for Oil/Water Separation Applications. Langmuir, 2018, 34, 2942-2951.                                    | 1.6 | 33        |
| 59 | Supramolecular gels and mesoscopic structure. International Journal of Modern Physics B, 2018, 32, 1840015.  | 1.0 | 3         |
| 60 | The role of unfolded protein response and ER-phagy in quantum dots-induced nephrotoxicity: an in vitro and in vivo study. Archives of Toxicology, 2018, 92, 1421-1434.                         | 1.9 | 46        |
| 61 | Facile Onâ $\in$ Site Detection Based on Reactional Wettability Variation. Advanced Materials Interfaces, 2018, 5, 1701326.  | 1.9 | 7         |
| 62 | A high-response transparent heater based on a CuS nanosheet film with superior mechanical flexibility and chemical stability. Nanoscale, 2018, 10, 6531-6538.                                  | 2.8 | 29        |
| 63 | Memristor with Agâ€Clusterâ€Doped TiO <sub>2</sub> Films as Artificial Synapse for Neuroinspired Computing. Advanced Functional Materials, 2018, 28, 1705320.                                  | 7.8 | 318       |
| 64 | Colloids in the study of fundamental physics. International Journal of Modern Physics B, 2018, 32, 1840008.  | 1.0 | 0         |
| 65 | Needleâ€Leafâ€Like Cu <sub>2</sub> Mo <sub>6</sub> S <sub>8</sub> Films for Highly Efficient Visibleâ€Light Photocatalysis. Particle and Particle Systems Characterization, 2018, 35, 1700302. | 1.2 | 6         |
| 66 | Nanocombing Effect Leads to Nanowire-Based, in-Plane, Uniaxial Thin Films. ACS Nano, 2018, 12, 12701-12712.  | 7.3 | 12        |
| 67 | Rational design of coralloid Co <sub>9</sub> S <sub>8</sub> â€"CuS hierarchical architectures for quantum dot-sensitized solar cells. Journal of Materials Chemistry C, 2018, 6, 11384-11391.  | 2.7 | 8         |
| 68 | Controllable and large-scale fabrication of flexible ITO-free electrochromic devices by crackle pattern technology. Journal of Materials Chemistry A, 2018, 6, 19584-19589.                    | 5.2 | 22        |
| 69 | Enhanced Exfoliation of Biocompatible MoS <sub>2</sub> Nanosheets by Wool Keratin. ACS Applied Nano Materials, 2018, 1, 5460-5469.   | 2.4 | 22        |
| 70 | Chemical Decoration of Perovskites by Nickel Oxide Doping for Efficient and Stable Perovskite Solar Cells. ACS Applied Materials & Samp; Interfaces, 2018, 10, 36841-36850.                    | 4.0 | 11        |
| 71 | Synergistic Effect of Granular Seed Substrates and Soluble Additives in Structural Control of Prismatic CaCO <sub>3</sub> Thin Films. Langmuir, 2018, 34, 11126-11138.                         | 1.6 | 7         |
| 72 | Data analysis between controllable variables and the performance of CuS crackle based electrode. Data in Brief, 2018, 17, 1331-1335.   | 0.5 | 1         |

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| 73 | Ultraflexible, stretchable and fast-switching electrochromic devices with enhanced cycling stability. RSC Advances, 2018, 8, 18690-18697.   | 1.7  | 30        |
| 74 | Ultrastable, highly luminescent quantum dot composites based on advanced surface manipulation strategy for flexible lighting-emitting. Nanotechnology, 2018, 29, 315203.              | 1.3  | 25        |
| 75 | Remote activation of nanoparticulate biomimetic activity by light triggered pH-jump. Chemical Communications, 2018, 54, 8641-8644.  | 2.2  | 15        |
| 76 | High-Throughput Screening of Rat Mesenchymal Stem Cell Behavior on Gradient TiO <sub>2</sub> Nanotubes. ACS Biomaterials Science and Engineering, 2018, 4, 2804-2814.                 | 2.6  | 30        |
| 77 | An efficient and simple dual effect by under-layer abduction design for highly flexible NiOx-based perovskite solar cells. Journal of Power Sources, 2018, 399, 246-253.              | 4.0  | 15        |
| 78 | Correlations of crystal shape and lateral orientation in bioinspired CaCO <sub>3</sub> mineralization. CrystEngComm, 2018, 20, 5241-5248.   | 1.3  | 5         |
| 79 | A Hydrogel of Ultrathin Pure Polyaniline Nanofibers: Oxidant-Templating Preparation and Supercapacitor Application. ACS Nano, 2018, 12, 5888-5894.                                    | 7.3  | 177       |
| 80 | Control of ice nucleation: freezing and antifreeze strategies. Chemical Society Reviews, 2018, 47, 7116-7139.   | 18.7 | 215       |
| 81 | Achieving High-Performance Surface-Enhanced Raman Scattering through One-Step Thermal Treatment of Bulk MoS <sub>2</sub> . Journal of Physical Chemistry C, 2018, 122, 14467-14473.   | 1.5  | 25        |
| 82 | Aqueous supercapacitors based on carbonized silk electrodes. RSC Advances, 2018, 8, 22146-22153.  | 1.7  | 19        |
| 83 | Highly flexible, transparent and conducting CuS-nanosheet networks for flexible quantum-dot solar cells. Nanoscale, 2017, 9, 3826-3833.   | 2.8  | 33        |
| 84 | Flower-like polyaniline/graphene hybrids for high-performance supercapacitor. Composites Science and Technology, 2017, 142, 286-293.  | 3.8  | 56        |
| 85 | Highly Ordered and Multiple-Responsive Graphene Oxide/Azoimidazolium Surfactant Intercalation Hybrids: A Versatile Control Platform. Langmuir, 2017, 33, 3099-3111.                   | 1.6  | 8         |
| 86 | Recent advances in quantum dot-sensitized solar cells: insights into photoanodes, sensitizers, electrolytes and counter electrodes. Sustainable Energy and Fuels, 2017, 1, 1217-1231. | 2.5  | 103       |
| 87 | Mesoâ€Functionalization of Silk Fibroin by Upconversion Fluorescence and Near Infrared In Vivo<br>Biosensing. Advanced Functional Materials, 2017, 27, 1700628.                       | 7.8  | 48        |
| 88 | Silk/agarose scaffolds with tunable properties via SDS assisted rapid gelation. RSC Advances, 2017, 7, 21740-21748.   | 1.7  | 16        |
| 89 | Sputtered seed-assisted growth of CuS nanosheet arrays as effective counter electrodes for quantum dot-sensitized solar cells. Materials Letters, 2017, 203, 73-76.                   | 1.3  | 13        |
| 90 | Fabrication of Crack-Free Photonic Crystal Films on Superhydrophobic Nanopin Surface. ACS Applied Materials & Samp; Interfaces, 2017, 9, 22037-22041.                                 | 4.0  | 29        |

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| 91  | Electrothermally Driven Fluorescence Switching by Liquid Crystal Elastomers Based On Dimensional Photonic Crystals. ACS Applied Materials & Samp; Interfaces, 2017, 9, 11770-11779.   | 4.0 | 19        |
| 92  | Design of Heterogeneous Nuclei Composed of Uniaxial Cellulose Nanocrystal Assemblies for Epitaxial Growth of Poly ( $\hat{l}\mu$ -caprolactone). Macromolecules, 2017, 50, 3355-3364.   | 2.2 | 10        |
| 93  | Ultrathin Polyamide Membranes Fabricated from Free-Standing Interfacial Polymerization: Synthesis, Modifications, and Post-treatment. Industrial & Engineering Chemistry Research, 2017, 56, 513-523.                                     | 1.8 | 63        |
| 94  | Protein-Directed Synthesis of Bifunctional Adsorbent-Catalytic Hemin-Graphene Nanosheets for Highly Efficient Removal of Dye Pollutants via Synergistic Adsorption and Degradation. ACS Applied Materials & Direction (2017), 9, 684-692. | 4.0 | 69        |
| 95  | Comparative Study of Strainâ€Dependent Structural Changes of Silkworm Silks: Insight into the Structural Origin of Strainâ€Stiffening. Small, 2017, 13, 1702266.  | 5.2 | 53        |
| 96  | Mesoscopicâ€Functionalization of Silk Fibroin with Gold Nanoclusters Mediated by Keratin and Bioinspired Silk Synapse. Small, 2017, 13, 1702390.  | 5.2 | 76        |
| 97  | Recent advances in interfacial engineering of perovskite solar cells. Journal Physics D: Applied Physics, 2017, 50, 373002.   | 1.3 | 129       |
| 98  | Transparent conducting oxide- and Pt-free flexible photo-rechargeable electric energy storage systems. RSC Advances, 2017, 7, 52988-52994.  | 1.7 | 23        |
| 99  | Total morphosynthesis of biomimetic prismatic-type CaCO3 thin films. Nature Communications, 2017, 8, 1398.  | 5.8 | 61        |
| 100 | Smart electrochromic supercapacitors based on highly stable transparent conductive graphene/CuS network electrodes. RSC Advances, 2017, 7, 29088-29095.   | 1.7 | 35        |
| 101 | Preparation of Crack-free Inverse-opal Films by Template/Matrix Co-assembly. Acta Chimica Sinica, 2017, 75, 1010.   | 0.5 | 0         |
| 102 | "Nanoâ€Fishnet―Structure Making Silk Fibers Tougher. Advanced Functional Materials, 2016, 26, 5534-5541.  | 7.8 | 74        |
| 103 | Advances in Soft Functional Materials Research. Advanced Functional Materials, 2016, 26, 8807-8809.   | 7.8 | 2         |
| 104 | Enzymatic manipulation of a DNA-mediated ensemble for sensitive fluorescence detection of glucose. RSC Advances, 2016, 6, 33132-33137.  | 1.7 | 2         |
| 105 | Crosslinked waterborne polyurethane with high waterproof performance. Polymer Chemistry, 2016, 7, 3913-3922.  | 1.9 | 81        |
| 106 | 3D nano-macroporous structured TiO <sub>2</sub> -foam glass as an efficient photocatalyst for organic pollutant treatment. RSC Advances, 2016, 6, 51888-51893.  | 1.7 | 11        |
| 107 | Fabrication of a uniaxial cellulose nanocrystal thin film for coassembly of single-walled carbon nanotubes. RSC Advances, 2016, 6, 39396-39400.   | 1.7 | 9         |
| 108 | Graphical analysis of mammalian cell adhesion in vitro. Colloids and Surfaces B: Biointerfaces, 2016, 148, 211-219.   | 2.5 | 3         |

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| 109 | Functionalization of Silk Fibroin Materials at Mesoscale. Advanced Functional Materials, 2016, 26, 8885-8902.  | 7.8 | 70        |
| 110 | Programing Performance of Silk Fibroin Materials by Controlled Nucleation. Advanced Functional Materials, 2016, 26, 8978-8990.   | 7.8 | 64        |
| 111 | Recent Development of Transparent Conducting Oxideâ€Free Flexible Thinâ€Film Solar Cells. Advanced Functional Materials, 2016, 26, 8855-8884.  | 7.8 | 82        |
| 112 | Programing Performance of Wool Keratin and Silk Fibroin Composite Materials by Mesoscopic Molecular Network Reconstruction. Advanced Functional Materials, 2016, 26, 9032-9043.                                    | 7.8 | 75        |
| 113 | Design of Heterogeneous Nuclei for Lateral Crystallization via Uniaxial Assembly of Cellulose<br>Nanocrystals. Crystal Growth and Design, 2016, 16, 4620-4626.   | 1.4 | 9         |
| 114 | Elevating Biomedical Performance of ZnO/SiO <sub>2</sub> @Amorphous Calcium Phosphate ―<br>Bioinspiration Making Possible the Impossible. Advanced Functional Materials, 2016, 26, 6921-6929.                      | 7.8 | 13        |
| 115 | Ligand-triggered electrostatic self-assembly of CdS nanosheet/Au nanocrystal nanocomposites for versatile photocatalytic redox applications. Nanoscale, 2016, 8, 19161-19173.                                      | 2.8 | 24        |
| 116 | Properties and applications of designable and photo/redox dual responsive surfactants with the new head group 2-arylazo-imidazolium. RSC Advances, 2016, 6, 51552-51561.   | 1.7 | 9         |
| 117 | The textural properties and microstructure of konjac glucomannan – tungsten gels induced by DC electric fields. Food Chemistry, 2016, 212, 256-263.  | 4.2 | 24        |
| 118 | Direct Growth of Microspheres on Amorphous Precursor Domains in Polymer-Controlled Crystallization of Indomethacin. Crystal Growth and Design, 2016, 16, 1428-1434.  | 1.4 | 14        |
| 119 | Using Inorganic Nanomaterials to Endow Biocatalytic Systems with Unique Features. Trends in Biotechnology, 2016, 34, 303-315.  | 4.9 | 18        |
| 120 | Rheological properties and formation mechanism of DC electric fields induced konjac glucomannan-tungsten gels. Carbohydrate Polymers, 2016, 142, 293-299.  | 5.1 | 30        |
| 121 | Removal of organic micro-pollutants (phenol, aniline and nitrobenzene) via forward osmosis (FO) process: Evaluation of FO as an alternative method to reverse osmosis (RO). Water Research, 2016, 91, 104-114.     | 5.3 | 99        |
| 122 | Recent advancements in perovskite solar cells: flexibility, stability and large scale. Journal of Materials Chemistry A, 2016, 4, 6755-6771.   | 5.2 | 137       |
| 123 | From Amorphous Macroporous Film to 3D Crystalline Nanorod Architecture: A New Approach to Obtain Highâ€Performance V <sub>2</sub> O <sub>5</sub> Electrochromism. Advanced Materials Interfaces, 2015, 2, 1500230. | 1.9 | 38        |
| 124 | Soft Matter: From Structure to Functionality. Small, 2015, 11, 1022-1023.  | 5.2 | 0         |
| 125 | Shape-controlled syntheses of rhodium nanocrystals for the enhancement of their catalytic properties. Nano Research, 2015, 8, 82-96.   | 5.8 | 84        |
| 126 | Drug Permeation through Skin Is Inversely Correlated with Carrier Gel Rigidity. Molecular Pharmaceutics, 2015, 12, 444-452.  | 2.3 | 19        |

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| 127 | Crystal Networks in Silk Fibrous Materials: From Hierarchical Structure to Ultra Performance. Small, 2015, 11, 1039-1054.  | 5.2          | 142       |
| 128 | Correlation between hierarchical structure of crystal networks and macroscopic performance of mesoscopic soft materials and engineering principles. Chemical Society Reviews, 2015, 44, 7881-7915.         | 18.7         | 83        |
| 129 | Electrochromic performance of WO <sub>3</sub> films: optimization by crystal network topology modification. CrystEngComm, 2015, 17, 6583-6590.   | 1.3          | 10        |
| 130 | In situ growth of CuS and Cu $<$ sub $>$ 1.8 $<$ /sub $>$ S nanosheet arrays as efficient counter electrodes for quantum dot-sensitized solar cells. Journal of Materials Chemistry A, 2015, 3, 9595-9600. | 5 <b>.</b> 2 | 132       |
| 131 | Crystal networks in supramolecular gels: formation kinetics and mesoscopic engineering principles. CrystEngComm, 2015, 17, 7986-8010.  | 1.3          | 35        |
| 132 | Structural engineering of waterborne polyurethane for high performance waterproof coatings. RSC Advances, 2015, 5, 72544-72552.  | 1.7          | 47        |
| 133 | Bandgapâ€Opened Bilayer Graphene Approached by Asymmetrical Intercalation of Trilayer Graphene.<br>Small, 2015, 11, 1177-1182.   | <b>5.</b> 2  | 21        |
| 134 | Engineering of Fluorescent Emission of Silk Fibroin Composite Materials by Material Assembly. Small, 2015, 11, 1205-1214.  | 5.2          | 47        |
| 135 | Controlled Colloidal Assembly. , 2015, , 561-594.  |              | 2         |
| 136 | Construction of Whiteâ€Lightâ€Emitting Silk Protein Hybrid Films by Molecular Recognized Assembly among Hierarchical Structures. Advanced Functional Materials, 2014, 24, 5284-5290.                       | 7.8          | 58        |
| 137 | What makes spider silk fibers so strong? From molecular-crystallite network to hierarchical network structures. Soft Matter, 2014, 10, 2116-2123.  | 1.2          | 127       |
| 138 | Two-photon fluorescent Bombyx mori silk by molecular recognition functionalization. Journal of Materials Chemistry B, 2014, 2, 2136-2143.  | 2.9          | 27        |
| 139 | Experimental modelling of single-particle dynamic processes in crystallization by controlled colloidal assembly. Chemical Society Reviews, 2014, 43, 2324-2347.  | 18.7         | 48        |
| 140 | Novel forward osmosis process to effectively remove heavy metal ions. Journal of Membrane Science, 2014, 467, 188-194.   | 4.1          | 192       |
| 141 | A generic and effective strategy for highly effective "intrinsic―molecular luminescence in the condensed state. Journal of Materials Chemistry C, 2013, 1, 5277.   | 2.7          | 7         |
| 142 | Quinoline-based azo derivative assembly: Optical limiting property and enhancement mechanism. Dyes and Pigments, 2013, 99, 720-726.  | 2.0          | 33        |
| 143 | Design and Fabrication of a New Class of Nano Hybrid Materials based on Reactive Polymeric Molecular Cages. Langmuir, 2013, 29, 11498-11505.   | 1.6          | 25        |
| 144 | From kinetic–structure analysis to engineering crystalline fiber networks in soft materials. Physical Chemistry Chemical Physics, 2013, 15, 3313.  | 1.3          | 22        |

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| 145 | Design and engineering of silk fibroin scaffolds with biomimetic hierarchical structures. Chemical Communications, 2013, 49, 1431.  | 2.2  | 33        |
| 146 | Control of crystallization in supramolecular soft materials engineering. Soft Matter, 2013, 9, 435-442.   | 1.2  | 22        |
| 147 | Multiple Structural Coloring of Silkâ€Fibroin Photonic Crystals and Humidityâ€Responsive Color<br>Sensing. Advanced Functional Materials, 2013, 23, 5373-5380.            | 7.8  | 196       |
| 148 | Supramolecular self-assembly structures and properties of zwitterionic squaraine molecules. RSC Advances, 2013, 3, 8021.  | 1.7  | 31        |
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