

# Xiang-yang Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

126  
papers

5,695  
citations

66315

42  
h-index

82499

72  
g-index

144  
all docs

144  
docs citations

144  
times ranked

7015  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Reconstructed silk fibroin mediated smart wristband for physiological signal detection. <i>Chemical Engineering Journal</i> , 2022, 428, 132362.  | 6.6 | 14        |
| 2  | Highly flexible and high energy density fiber supercapacitors based upon spiral silk composite membranes encapsulation. <i>Electrochimica Acta</i> , 2022, 404, 139611.   | 2.6 | 5         |
| 3  | Fast dopamine detection based on evanescent wave detection platform. <i>Analytica Chimica Acta</i> , 2022, 1191, 339312.  | 2.6 | 7         |
| 4  | From Mesoscopic Functionalization of Silk Fibroin to Smart Fiber Devices for Textile Electronics and Photonics. <i>Advanced Science</i> , 2022, 9, e2103981.  | 5.6 | 40        |
| 5  | Polydopamine-Induced Multilevel Engineering of Regenerated Silk Fibroin Fiber for Photothermal Conversion. <i>Small</i> , 2022, 18, e2107196.   | 5.2 | 24        |
| 6  | Biomimetic synthesis of 2D ultra-small copper sulfide nanoflakes based on reconfiguration of the keratin secondary structure for cancer theranostics in the NIR-II region. <i>Journal of Materials Chemistry B</i> , 2022, 10, 3152-3161. | 2.9 | 5         |
| 7  | Recent Progress of Applying Mesoscopic Functionalization Engineering Principles to Spin Advanced Regenerated Silk Fibroin Fibers. <i>Advanced Fiber Materials</i> , 2022, 4, 390-403.   | 7.9 | 15        |
| 8  | Silk Fibroin-Based Flexible Organic Light-Emitting Diode with High Light Extraction Efficiency. <i>Advanced Optical Materials</i> , 2022, 10, .   | 3.6 | 6         |
| 9  | All-in-one fibrous capacitive humidity sensor for human breath monitoring. <i>Textile Research Journal</i> , 2021, 91, 398-405.   | 1.1 | 16        |
| 10 | Tailoring NiCoAl layered double hydroxide nanosheets for assembly of high-performance asymmetric supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2021, 583, 722-733.   | 5.0 | 49        |
| 11 | Near-Infrared Light Triggered Silk Fibroin Scaffold for Photothermal Therapy and Tissue Repair of Bone Tumors. <i>Advanced Functional Materials</i> , 2021, 31, 2007188.  | 7.8 | 49        |
| 12 | Enhanced mechanical performance of biocompatible silk fibroin films through mesoscopic construction of hierarchical structures. <i>Textile Research Journal</i> , 2021, 91, 1146-1154.  | 1.1 | 3         |
| 13 | Green Synthesis of Waterborne Polyurethane for High Damping Capacity. <i>Macromolecular Chemistry and Physics</i> , 2021, 222, 2000457.   | 1.1 | 10        |
| 14 | Coupling of Silk Fibroin Nanofibrils Enzymatic Membrane with Ultra-Thin PtNPs/Graphene Film to Acquire Long and Stable On-Skin Sweat Glucose and Lactate Sensing. <i>Small Methods</i> , 2021, 5, e2000926.                               | 4.6 | 28        |
| 15 | Silk Nanococoons: Bio-Nanoreactors for Enzymatic Catalytic Reactions and Applications to Alcohol Intoxication. <i>Small Science</i> , 2021, 1, 2000049.   | 5.8 | 11        |
| 16 | Recent Advances in Patterning Natural Polymers: From Nanofabrication Techniques to Applications. <i>Small Methods</i> , 2021, 5, e2001060.  | 4.6 | 29        |
| 17 | A capacitive humidity sensor based on all-protein embedded with gold nanoparticles @ carbon composite for human respiration detection. <i>Nanotechnology</i> , 2021, 32, 19LT01.  | 1.3 | 12        |
| 18 | Meso-Reconstruction of Silk Fibroin based on Molecular and Nano-Templates for Electronic Skin in Medical Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2100150.  | 7.8 | 42        |

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|----|---|------|-----------|
| 19 | Biomimetic Salinity Power Generation Based on Silk Fibroin Ion-Exchange Membranes. <i>ACS Nano</i> , 2021, 15, 5649-5660.   | 7.3  | 36        |
| 20 | New Silk Road: From Mesoscopic Reconstruction/Functionalization to Flexible Meso-€€Electronics/Photonics Based on Cocoon Silk Materials. <i>Advanced Materials</i> , 2021, 33, e2005910.                  | 11.1 | 45        |
| 21 | Stretchable, Stable, and Degradable Silk Fibroin Enabled by Mesoscopic Doping for Finger Motion Triggered Color/Transmittance Adjustment. <i>ACS Nano</i> , 2021, 15, 12429-12437.                        | 7.3  | 42        |
| 22 | Subcutaneous Energy/Signal Transmission Based on Silk Fibroin Up-Conversion Photonic Amplification. <i>ACS Nano</i> , 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. <i>Nanotechnology</i> , 2021, 32, 065502.                 | 1.3  | 15        |
| 24 | High voltage output/energy density flexible asymmetric fiber supercapacitors based on a tree-like topology. <i>Cell Reports Physical Science</i> , 2021, 2, 100649.                                       | 2.8  | 2         |
| 25 | Reinforcement of Silk Microneedle Patches for Accurate Transdermal Delivery. <i>Biomacromolecules</i> , 2021, 22, 5319-5326.  | 2.6  | 15        |
| 26 | Programing Performance of Silk Fibroin Superstrong Scaffolds by Mesoscopic Regulation among Hierarchical Structures. <i>Biomacromolecules</i> , 2020, 21, 4169-4179.                                      | 2.6  | 14        |
| 27 | Flexible and Insoluble Artificial Synapses Based on Chemical Cross-€€Linked Wool Keratin. <i>Advanced Functional Materials</i> , 2020, 30, 2002882.   | 7.8  | 42        |
| 28 | Wool Keratin Photolithography as an Eco-Friendly Route to Fabricate Protein Microarchitectures. <i>ACS Applied Bio Materials</i> , 2020, 3, 2891-2896.  | 2.3  | 7         |
| 29 | From Molecular Reconstruction of Mesoscopic Functional Conductive Silk Fibrous Materials to Remote Respiration Monitoring. <i>Small</i> , 2020, 16, e2000203.   | 5.2  | 48        |
| 30 | Tailoring the Meso-Structure of Gold Nanoparticles in Keratin-Based Activated Carbon Toward High-Performance Flexible Sensor. <i>Nano-Micro Letters</i> , 2020, 12, 117.                                  | 14.4 | 20        |
| 31 | Graphene decorated carbonized cellulose fabric for physiological signal monitoring and energy harvesting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12665-12673.                                 | 5.2  | 68        |
| 32 | Strain Sensors: Meso-€€Reconstruction of Wool Keratin 3D €€Molecular Springs€€for Tunable Ultra-€€Sensitive and Highly Recovery Strain Sensors ( <i>Small</i> 24/2020). <i>Small</i> , 2020, 16, 2070136. | 5.2  | 1         |
| 33 | Stretchable and Heat-€€Resistant Protein-€€Based Electronic Skin for Human Thermoregulation. <i>Advanced Functional Materials</i> , 2020, 30, 1910547.  | 7.8  | 104       |
| 34 | Wettability read-out strategy for aptamer target binding based on a recognition/hydrophobic bilayer surface. <i>Chemical Communications</i> , 2020, 56, 6225-6228.  | 2.2  | 3         |
| 35 | Research progress of protein-based memristor. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 178702.  | 0.2  | 3         |
| 36 | Recent advances in silk-based wearable sensors. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 178703.  | 0.2  | 6         |

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|----|---|------|-----------|
| 37 | An efficient disposable and flexible electrochemical sensor based on a novel and stable metal carbon composite derived from cocoon silk. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111595.          | 5.3  | 20        |
| 38 | Recent advances in nanoparticulate biomimetic catalysts for combating bacteria and biofilms. <i>Nanoscale</i> , 2019, 11, 22206-22215.  | 2.8  | 43        |
| 39 | Silk Flexible Electronics: From <i>Bombyx mori</i> Silk Ag Nanoclusters Hybrid Materials to Mesoscopic Memristors and Synaptic Emulators. <i>Advanced Functional Materials</i> , 2019, 29, 1904777.         | 7.8  | 71        |
| 40 | Primary and Secondary Mesoscopic Hybrid Materials of Au Nanoparticles@Silk Fibroin and Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 30125-30136.                                 | 4.0  | 18        |
| 41 | Hierarchical Structure of Silk Materials Versus Mechanical Performance and Mesoscopic Engineering Principles. <i>Small</i> , 2019, 15, e1903948.  | 5.2  | 82        |
| 42 | Full-Color Textile Wireless Flexible Humidity Sensor for Human Physiological Monitoring. <i>Advanced Functional Materials</i> , 2019, 29, 1904549.  | 7.8  | 193       |
| 43 | Pulsed electrochemical deposition of porous WO <sub>3</sub> on silver networks for highly flexible electrochromic devices. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1966-1973.                    | 2.7  | 40        |
| 44 | Silk Composite Electronic Textile Sensor for High Space Precision 2D Combo Temperature-Pressure Sensing. <i>Small</i> , 2019, 15, e1901558.   | 5.2  | 184       |
| 45 | Using Wool Keratin as a Basic Resist Material to Fabricate Precise Protein Patterns. <i>Advanced Materials</i> , 2019, 31, e1900870.  | 11.1 | 54        |
| 46 | Assembling Two-Phase Enzymatic Cascade Pathways in Pickering Emulsion. <i>ChemCatChem</i> , 2019, 11, 1791-1791.  | 1.8  | 0         |
| 47 | Fluorescence: Silk Fluorescence Collimator for Ultrasensitive Humidity Sensing and Light Harvesting in Semitransparent Dye-Sensitized Solar Cells (Small 13/2019). <i>Small</i> , 2019, 15, 1970069.        | 5.2  | 0         |
| 48 | Protein-Based Electronics: A Biodegradable and Stretchable Protein-Based Sensor as Artificial Electronic Skin for Human Motion Detection (Small 11/2019). <i>Small</i> , 2019, 15, 1970057.                 | 5.2  | 2         |
| 49 | A nanoneedle-based reactional wettability variation sensor array for on-site detection of metal ions with a smartphone. <i>Journal of Colloid and Interface Science</i> , 2019, 547, 330-338.               | 5.0  | 8         |
| 50 | Assembling Two-Phase Enzymatic Cascade Pathways in Pickering Emulsion. <i>ChemCatChem</i> , 2019, 11, 1878-1883.  | 1.8  | 6         |
| 51 | Silk Materials: Hierarchical Structure of Silk Materials Versus Mechanical Performance and Mesoscopic Engineering Principles (Small 51/2019). <i>Small</i> , 2019, 15, 1970280.                             | 5.2  | 1         |
| 52 | Seeded Mineralization Leads to Hierarchical CaCO <sub>3</sub> Thin Coatings on Fibers for Oil/Water Separation Applications. <i>Langmuir</i> , 2018, 34, 2942-2951.   | 1.6  | 33        |
| 53 | Facile On-Site Detection Based on Reactional Wettability Variation. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701326.  | 1.9  | 7         |
| 54 | Memristors: Memristor with Ag-Cluster-Doped TiO <sub>2</sub> Films as Artificial Synapse for Neuroinspired Computing (Adv. Funct. Mater. 1/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870002. | 7.8  | 18        |

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|----|---|-----|-----------|
| 55 | Memristor with Ag-Cluster-Doped TiO <sub>2</sub> Films as Artificial Synapse for Neuroinspired Computing. <i>Advanced Functional Materials</i> , 2018, 28, 1705320.   | 7.8 | 318       |
| 56 | Remote activation of nanoparticulate biomimetic activity by light triggered pH-jump. <i>Chemical Communications</i> , 2018, 54, 8641-8644.  | 2.2 | 15        |
| 57 | Correlations of crystal shape and lateral orientation in bioinspired CaCO <sub>3</sub> mineralization. <i>CrystEngComm</i> , 2018, 20, 5241-5248.   | 1.3 | 5         |
| 58 | A Hydrogel of Ultrathin Pure Polyaniline Nanofibers: Oxidant-Templating Preparation and Supercapacitor Application. <i>ACS Nano</i> , 2018, 12, 5888-5894.  | 7.3 | 177       |
| 59 | Achieving High-Performance Surface-Enhanced Raman Scattering through One-Step Thermal Treatment of Bulk MoS <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2018, 122, 14467-14473.   | 1.5 | 25        |
| 60 | Meso-Functionalization of Silk Fibroin by Upconversion Fluorescence and Near Infrared In Vivo Biosensing. <i>Advanced Functional Materials</i> , 2017, 27, 1700628.   | 7.8 | 48        |
| 61 | Design of Heterogeneous Nuclei Composed of Uniaxial Cellulose Nanocrystal Assemblies for Epitaxial Growth of Poly( $\mu$ -caprolactone). <i>Macromolecules</i> , 2017, 50, 3355-3364.   | 2.2 | 10        |
| 62 | Protein-Directed Synthesis of Bifunctional Adsorbent-Catalytic Hemin-Graphene Nanosheets for Highly Efficient Removal of Dye Pollutants via Synergistic Adsorption and Degradation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 684-692. | 4.0 | 69        |
| 63 | Comparative Study of Strain-Dependent Structural Changes of Silkworm Silks: Insight into the Structural Origin of Strain-Stiffening. <i>Small</i> , 2017, 13, 1702266.  | 5.2 | 53        |
| 64 | Pressing Carbon Nanotubes Triggers Better Ion Selectivity. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19512-19518.   | 1.5 | 3         |
| 65 | Mesoscopic-Functionalization of Silk Fibroin with Gold Nanoclusters Mediated by Keratin and Bioinspired Silk Synapse. <i>Small</i> , 2017, 13, 1702390.   | 5.2 | 76        |
| 66 | Smart electrochromic supercapacitors based on highly stable transparent conductive graphene/CuS network electrodes. <i>RSC Advances</i> , 2017, 7, 29088-29095.   | 1.7 | 35        |
| 67 | "Nano-Fishnet" Structure Making Silk Fibers Tougher. <i>Advanced Functional Materials</i> , 2016, 26, 5534-5541.  | 7.8 | 74        |
| 68 | Solar Cells: Recent Development of Transparent Conducting Oxide-Free Flexible Thin-Film Solar Cells ( <i>Adv. Funct. Mater.</i> 48/2016). <i>Advanced Functional Materials</i> , 2016, 26, 8854-8854.   | 7.8 | 2         |
| 69 | Mechanical Properties: Programming Performance of Silk Fibroin Materials by Controlled Nucleation ( <i>Adv. Funct. Mater.</i> 48/2016). <i>Advanced Functional Materials</i> , 2016, 26, 9084-9084.   | 7.8 | 1         |
| 70 | Advances in Soft Functional Materials Research. <i>Advanced Functional Materials</i> , 2016, 26, 8807-8809.   | 7.8 | 2         |
| 71 | Enzymatic manipulation of a DNA-mediated ensemble for sensitive fluorescence detection of glucose. <i>RSC Advances</i> , 2016, 6, 33132-33137.  | 1.7 | 2         |
| 72 | Crosslinked waterborne polyurethane with high waterproof performance. <i>Polymer Chemistry</i> , 2016, 7, 3913-3922.  | 1.9 | 81        |

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|----|---|------|-----------|
| 73 | Graphical analysis of mammalian cell adhesion in vitro. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 211-219.   | 2.5  | 3         |
| 74 | Functionalization of Silk Fibroin Materials at Mesoscale. <i>Advanced Functional Materials</i> , 2016, 26, 8885-8902.   | 7.8  | 70        |
| 75 | Programming Performance of Silk Fibroin Materials by Controlled Nucleation. <i>Advanced Functional Materials</i> , 2016, 26, 8978-8990.   | 7.8  | 64        |
| 76 | Recent Development of Transparent Conducting Oxide-Free Flexible Thin-Film Solar Cells. <i>Advanced Functional Materials</i> , 2016, 26, 8855-8884.   | 7.8  | 82        |
| 77 | Programming Performance of Wool Keratin and Silk Fibroin Composite Materials by Mesoscopic Molecular Network Reconstruction. <i>Advanced Functional Materials</i> , 2016, 26, 9032-9043.                                  | 7.8  | 75        |
| 78 | Design of Heterogeneous Nuclei for Lateral Crystallization via Uniaxial Assembly of Cellulose Nanocrystals. <i>Crystal Growth and Design</i> , 2016, 16, 4620-4626.   | 1.4  | 9         |
| 79 | Elevating Biomedical Performance of ZnO/SiO <sub>2</sub> @Amorphous Calcium Phosphate - Bioinspiration Making Possible the Impossible. <i>Advanced Functional Materials</i> , 2016, 26, 6921-6929.                        | 7.8  | 13        |
| 80 | Direct Growth of Microspheres on Amorphous Precursor Domains in Polymer-Controlled Crystallization of Indomethacin. <i>Crystal Growth and Design</i> , 2016, 16, 1428-1434.   | 1.4  | 14        |
| 81 | Using Inorganic Nanomaterials to Endow Biocatalytic Systems with Unique Features. <i>Trends in Biotechnology</i> , 2016, 34, 303-315.   | 4.9  | 18        |
| 82 | Rheological properties and formation mechanism of DC electric fields induced konjac glucomannan-tungsten gels. <i>Carbohydrate Polymers</i> , 2016, 142, 293-299.   | 5.1  | 30        |
| 83 | 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). <i>Water Research</i> , 2016, 91, 104-114.    | 5.3  | 99        |
| 84 | From Amorphous Macroporous Film to 3D Crystalline Nanorod Architecture: A New Approach to Obtain High-Performance V <sub>2</sub> O <sub>5</sub> Electrochromism. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500230. | 1.9  | 38        |
| 85 | Soft Matter: From Structure to Functionality. <i>Small</i> , 2015, 11, 1022-1023.   | 5.2  | 0         |
| 86 | Shape-controlled syntheses of rhodium nanocrystals for the enhancement of their catalytic properties. <i>Nano Research</i> , 2015, 8, 82-96.  | 5.8  | 84        |
| 87 | Crystal Networks in Silk Fibrous Materials: From Hierarchical Structure to Ultra Performance. <i>Small</i> , 2015, 11, 1039-1054.   | 5.2  | 142       |
| 88 | Correlation between hierarchical structure of crystal networks and macroscopic performance of mesoscopic soft materials and engineering principles. <i>Chemical Society Reviews</i> , 2015, 44, 7881-7915.                | 18.7 | 83        |
| 89 | Electrochromic performance of WO <sub>3</sub> films: optimization by crystal network topology modification. <i>CrystEngComm</i> , 2015, 17, 6583-6590.  | 1.3  | 10        |
| 90 | Crystal networks in supramolecular gels: formation kinetics and mesoscopic engineering principles. <i>CrystEngComm</i> , 2015, 17, 7986-8010.   | 1.3  | 35        |

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|-----|--|------|-----------|
| 91  | Structural engineering of waterborne polyurethane for high performance waterproof coatings. RSC Advances, 2015, 5, 72544-72552.  | 1.7  | 47        |
| 92  | Construction of White-Light-Emitting Silk Protein Hybrid Films by Molecular Recognized Assembly among Hierarchical Structures. Advanced Functional Materials, 2014, 24, 5284-5290. | 7.8  | 58        |
| 93  | Identify kinetic features of fibers growing, branching, and bundling in microstructure engineering of crystalline fiber network. CrystEngComm, 2014, 16, 5402.                     | 1.3  | 16        |
| 94  | Experimental modelling of single-particle dynamic processes in crystallization by controlled colloidal assembly. Chemical Society Reviews, 2014, 43, 2324-2347.                    | 18.7 | 48        |
| 95  | UV-curable pressure sensitive adhesive films: effects of biocompatible plasticizers on mechanical and adhesion properties. Soft Matter, 2013, 9, 6270.                             | 1.2  | 35        |
| 96  | Design and engineering of silk fibroin scaffolds with biomimetic hierarchical structures. Chemical Communications, 2013, 49, 1431.   | 2.2  | 33        |
| 97  | Multiple Structural Coloring of Silk Fibroin Photonic Crystals and Humidity-Responsive Color Sensing. Advanced Functional Materials, 2013, 23, 5373-5380.                          | 7.8  | 196       |
| 98  | Highly efficient and stable solid-state luminescent nanohybrids: Precise architecture and enhancement mechanism. Journal of Materials Research, 2013, 28, 1061-1069.               | 1.2  | 4         |
| 99  | Engineered Large Spider Eggcase Silk Protein for Strong Artificial Fibers. Advanced Materials, 2013, 25, 1216-1220.  | 11.1 | 71        |
| 100 | Size invariance of fibrous networks of supramolecular soft materials during formation under critical volume confinement. Soft Matter, 2012, 8, 5187.                               | 1.2  | 19        |
| 101 | Controlled Colloidal Assembly: Experimental Modeling of General Crystallization and Biomimicking of Structural Color. Advanced Functional Materials, 2012, 22, 1354-1375.          | 7.8  | 41        |
| 102 | Switching on Fluorescent Emission by Molecular Recognition and Aggregation Dissociation. Advanced Functional Materials, 2012, 22, 361-368.   | 7.8  | 42        |
| 103 | A Convenient Organic-Inorganic Hybrid Approach Toward Highly Stable Squaraine Dyes with Reduced Aggregation. Advanced Functional Materials, 2012, 22, 345-352.                     | 7.8  | 73        |
| 104 | Volume confinement induced microstructural transitions and property enhancements of supramolecular soft materials. Soft Matter, 2011, 7, 1708-1713.                                | 1.2  | 17        |
| 105 | Electrically Adjustable, Super Adhesive Force of a Superhydrophobic Aligned MnO <sub>2</sub> Nanotube Membrane. Advanced Functional Materials, 2011, 21, 184-190.                  | 7.8  | 85        |
| 106 | Structural Origin of the Strain-Hardening of Spider Silk. Advanced Functional Materials, 2011, 21, 772-778.  | 7.8  | 229       |
| 107 | Intrinsically Colored and Luminescent Silk. Advanced Materials, 2011, 23, 1463-1466.   | 11.1 | 133       |
| 108 | Architecture of Supramolecular Soft Functional Materials: From Understanding to Micro/Nanoscale Engineering. Advanced Functional Materials, 2010, 20, 3196-3216.                   | 7.8  | 154       |

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| 109 | Architecture of Supramolecular Soft Functional Materials: From Understanding to Microâ€“Nanoscale Engineering. <i>Advanced Functional Materials</i> , 2010, 20, .                            | 7.8 | 3         |
| 110 | Simulating â€œAtomicâ€•Processes of Crystallization via Controlled Colloidal Assembly. , 2010, , .   |     | 1         |
| 111 | Unraveled mechanism in silk engineering: Fast reeling induced silk toughening. <i>Applied Physics Letters</i> , 2009, 95, .  | 1.5 | 48        |
| 112 | A Review on Terpenes as Skin Penetration Enhancers in Transdermal Drug Delivery. <i>Journal of Essential Oil Research</i> , 2009, 21, 423-428.   | 1.3 | 14        |
| 113 | Hydroxyapatite: Hexagonal or Monoclinic?. <i>Crystal Growth and Design</i> , 2009, 9, 2991-2994.   | 1.4 | 144       |
| 114 | Design and architecture of low-dielectric-constant organicâ€“inorganic hybrids from octahydridosilsesquioxanes. <i>Journal of Materials Chemistry</i> , 2009, 19, 9038.                      | 6.7 | 39        |
| 115 | Electrically Directed Onâ€“Chip Reversible Patterning of Twoâ€“Dimensional Tunable Colloidal Structures. <i>Advanced Functional Materials</i> , 2008, 18, 802-809.                           | 7.8 | 40        |
| 116 | Nano-Architecture by Molecular Structure-Directing Agent. <i>Chemistry of Materials</i> , 2008, 20, 2432-2434.   | 3.2 | 9         |
| 117 | From Templated Nucleation to Functional Materials Engineering. <i>AIP Conference Proceedings</i> , 2007, , .   | 0.3 | 3         |
| 118 | Effect of Long-Range Attraction on Growth Model. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1342-1346.  | 1.5 | 16        |
| 119 | Design of Superior Spider Silk: From Nanostructure to Mechanical Properties. <i>Biophysical Journal</i> , 2006, 91, 4528-4535.   | 0.2 | 305       |
| 120 | Resonant photoemission study of single-strand deoxyribonucleic acid. <i>Applied Physics Letters</i> , 2006, 89, 013902.  | 1.5 | 7         |
| 121 | KINETIC STUDIES OF SPHERULITIC CRYSTALLIZATION IN THE GELATION PROCESS OF LOW MOLECULAR-MASS ORGANIC GELATOR. <i>International Journal of Nanoscience</i> , 2006, 05, 645-649.               | 0.4 | 4         |
| 122 | Zero-sized Effect of Nano-particles and Inverse Homogeneous Nucleation. <i>Journal of Biological Chemistry</i> , 2004, 279, 6124-6131.   | 1.6 | 45        |
| 123 | Creating New Supramolecular Materials by Architecture of Three-Dimensional Nanocrystal Fiber Networks. <i>Journal of the American Chemical Society</i> , 2002, 124, 15055-15063.             | 6.6 | 103       |
| 124 | Determination of the Fractal Characteristic of Nanofiber-Network Formation in Supramolecular Materials. <i>ChemPhysChem</i> , 2002, 3, 374-377.  | 1.0 | 47        |
| 125 | Effect of microgravity on Ca mineral crystallization and implications for osteoporosis in space. <i>Applied Physics Letters</i> , 2001, 79, 3539-3541.                                       | 1.5 | 19        |
| 126 | Influence of nucleation nature on Ca mineral/substrate structural synergy and implications for biomineralization in microgravity. <i>Journal of Chemical Physics</i> , 2001, 115, 9970-9974. | 1.2 | 4         |