

Chaoxu Li

List of Publications by Year in descending order

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53
papers

3,299
citations

201674

27
h-index

168389

53
g-index

53
all docs

53
docs citations

53
times ranked

4262
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodegradable nanocomposites of amyloid fibrils and graphene with shape-memory and enzyme-sensing properties. <i>Nature Nanotechnology</i> , 2012, 7, 421-427.	31.5	413
2	Shapeable Fibrous Aerogels of Metal-Organic-Frameworks Templated with Nanocellulose for Rapid and Large-Capacity Adsorption. <i>ACS Nano</i> , 2018, 12, 4462-4468.	14.6	301
3	Amyloid-Hydroxyapatite Bone Biomimetic Composites. <i>Advanced Materials</i> , 2014, 26, 3207-3212.	21.0	188
4	Liquid Metal Droplets Wrapped with Polysaccharide Microgel as Biocompatible Aqueous Ink for Flexible Conductive Devices. <i>Advanced Functional Materials</i> , 2018, 28, 1804197.	14.9	188
5	Evaporation-induced sintering of liquid metal droplets with biological nanofibrils for flexible conductivity and responsive actuation. <i>Nature Communications</i> , 2019, 10, 3514.	12.8	148
6	The interplay between carbon nanomaterials and amyloid fibrils in bio-nanotechnology. <i>Nanoscale</i> , 2013, 5, 6207.	5.6	141
7	Biological Nanofibrous Generator for Electricity Harvest from Moist Air Flow. <i>Advanced Functional Materials</i> , 2019, 29, 1901798.	14.9	137
8	Directed Growth of Silk Nanofibrils on Graphene and Their Hybrid Nanocomposites. <i>ACS Macro Letters</i> , 2014, 3, 146-152.	4.8	131
9	Biomimetic Hybridization of Kevlar into Silk Fibroin: Nanofibrous Strategy for Improved Mechanic Properties of Flexible Composites and Filtration Membranes. <i>ACS Nano</i> , 2017, 11, 8178-8184.	14.6	131
10	Modulating Materials by Orthogonally Oriented β -Strands: Composites of Amyloid and Silk Fibroin Fibrils. <i>Advanced Materials</i> , 2014, 26, 4569-4574.	21.0	119
11	Hybrid Nanocomposites of Gold Single-Crystal Platelets and Amyloid Fibrils with Tunable Fluorescence, Conductivity, and Sensing Properties. <i>Advanced Materials</i> , 2013, 25, 3694-3700.	21.0	111
12	Crab Chitin-Based 2D Soft Nanomaterials for Fully Biobased Electric Devices. <i>Advanced Materials</i> , 2017, 29, 1606895.	21.0	109
13	Intensifying solar-thermal harvest of low-dimension biologic nanostructures for electric power and solar desalination. <i>Nano Energy</i> , 2018, 50, 308-315.	16.0	100
14	Polymerization of moldable self-healing hydrogel with liquid metal nanodroplets for flexible strain-sensing devices. <i>Chemical Engineering Journal</i> , 2020, 392, 123788.	12.7	93
15	Asymmetric ionic aerogel of biologic nanofibrils for harvesting electricity from moisture. <i>Nano Energy</i> , 2020, 71, 104610.	16.0	84
16	Bioinspired Coupling of Inorganic Layered Nanomaterials with Marine Polysaccharides for Efficient Aqueous Exfoliation and Smart Actuating Hybrids. <i>Advanced Materials</i> , 2017, 29, 1604691.	21.0	79
17	Quaternized Silk Nanofibrils for Electricity Generation from Moisture and Ion Rectification. <i>ACS Nano</i> , 2020, 14, 10600-10607.	14.6	60
18	Liquid Metal Initiator of Ring-Opening Polymerization: Self-Capsulation into Thermal/Photomoldable Powder for Multifunctional Composites. <i>Advanced Materials</i> , 2020, 32, e2003553.	21.0	58

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19	Functionalization of Multiwalled Carbon Nanotubes and Their pH-Responsive Hydrogels with Amyloid Fibrils. <i>Langmuir</i> , 2012, 28, 10142-10146.	3.5	49
20	Macroscopic Single-Crystal Gold Microflakes and Their Devices. <i>Advanced Materials</i> , 2015, 27, 1945-1950.	21.0	47
21	Activation of Actuating Hydrogels with WS ₂ Nanosheets for Biomimetic Cellular Structures and Steerable Prompt Deformation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32280-32289.	8.0	44
22	Design of MXene Composites with Biomimetic Rapid and Self-Oscillating Actuation under Ambient Circumstances. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31978-31985.	8.0	44
23	Tunable Carbon Nanotube/Protein Core-Shell Nanoparticles with NIR- and Enzymatic-Responsive Cytotoxicity. <i>Advanced Materials</i> , 2013, 25, 1010-1015.	21.0	43
24	Two-Dimensional Au Nanocrystals: Shape/Size Controlling Synthesis, Morphologies, and Applications. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 796-808.	2.3	36
25	Amyloid-graphene oxide as immobilization platform of Au nanocatalysts and enzymes for improved glucose-sensing activity. <i>Journal of Colloid and Interface Science</i> , 2017, 490, 336-342.	9.4	34
26	Biomimetic engineering of spider silk fibres with graphene for electric devices with humidity and motion sensitivity. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3212-3219.	5.5	33
27	Mildly Peeling Off and Encapsulating Large MXene Nanosheets with Rigid Biologic Fibrils for Synchronization of Solar Evaporation and Energy Harvest. <i>ACS Nano</i> , 2022, 16, 8881-8890.	14.6	32
28	Bio-inspired water resistant and fast multi-responsive Janus actuator assembled by cellulose nanopaper and graphene with lignin adhesion. <i>Chemical Engineering Journal</i> , 2022, 433, 133672.	12.7	29
29	Liquid exfoliated chitin nanofibrils for re-dispersibility and hybridization of two-dimensional nanomaterials. <i>Chemical Engineering Journal</i> , 2018, 344, 498-505.	12.7	26
30	Conductive Core-Shell Aramid Nanofibrils: Compromising Conductivity with Mechanical Robustness for Organic Wearable Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3466-3473.	8.0	26
31	Catecholic Coating and Silver Hybridization of Chitin Nanocrystals for Ultrafiltration Membrane with Continuous Flow Catalysis and Gold Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10673-10681.	6.7	25
32	Supramolecular proteinaceous biofilms as trapping sponges for biologic water treatment and durable catalysis. <i>Journal of Colloid and Interface Science</i> , 2018, 527, 117-123.	9.4	25
33	Guiding growth orientation of two-dimensional Au nanocrystals with marine chitin nanofibrils for ultrasensitive and ultrafast sensing hybrids. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9502-9506.	5.8	19
34	Trans-Scale 2D Synthesis of Millimeter-Large Au Single Crystals via Silk Fibroin Templates. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12419-12425.	6.7	15
35	Photo-responsive heterojunction nanosheets of reduced graphene oxide for photo-detective flexible energy devices. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7736-7744.	10.3	15
36	Single-crystal Au microflakes modulated by amino acids and their sensing and catalytic properties. <i>Journal of Colloid and Interface Science</i> , 2016, 467, 115-120.	9.4	13

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37	Fibrous carbon nanosheets from Kevlar nanofibrils: Compromising one and two dimensions of carbon nanomaterials for optimal capacitive performance. <i>Carbon</i> , 2017, 123, 565-573.	10.3	13
38	Noncloggingly Sieving Sub-6 nm Nanoparticles of Noble Metals into Conductive Mesoporous Foams with Biological Nanofibrils. <i>ACS Nano</i> , 2020, 14, 828-834.	14.6	13
39	Guiding cellular channels of artificial nanohybrid woods for anisotropic properties and solar-thermal evaporation. <i>Chemical Engineering Journal</i> , 2022, 428, 132060.	12.7	13
40	Peeling and Mesoscale Dissociation of Silk Fibers for Hybridization of Electrothermic Fibrous Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 248-255.	6.7	12
41	Rapid and manual-shaking exfoliation of amidoximated cellulose nanofibrils for a large-capacity filtration capture of uranium. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7920-7927.	10.3	12
42	Synergetic and persistent harvesting of electricity and potable water from ambient moisture with biohybrid fibrils. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8356-8363.	10.3	12
43	Nacre-Templated Synthesis of Highly Dispersible Carbon Nanomeshes for Layered Membranes with High-Flux Filtration and Sensing Properties. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2850-2858.	8.0	11
44	Separation of Caustic Nano-Emulsions and Macromolecular Conformations with Nanofibrous Membranes of Marine Chitin. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8576-8583.	8.0	9
45	Nacre-based carbon nanomeshes for a soft ionic actuator with large and rapid deformation. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1634-1641.	5.5	9
46	Bovine serum albumin fibrous biofilm template synthesis of metallic nanomeshes for surface-enhanced Raman scattering and electrocatalytic detection. <i>Materials and Design</i> , 2020, 192, 108777.	7.0	8
47	Templating metal-organic framework into fibrous nanohybrids for large-capacity and high-flux filtration interception. <i>Journal of Membrane Science</i> , 2021, 622, 119049.	8.2	7
48	Bubble-Templated Design of Superelastic Cellulose Foam as a Durable Ionotropic Sensor. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1714-1721.	6.7	7
49	Interfacial Electrochemical Polymerization for Spinning Liquid Metals into Core-Shell Wires. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18690-18696.	8.0	7
50	Sheet-like and tubular aggregates of protein nanofibril-phosphate hybrids. <i>Chemical Communications</i> , 2019, 55, 393-396.	4.1	6
51	The synthesis of high-aspect-ratio Au microwires with a biomolecule for electrochemical sensing. <i>Chemical Communications</i> , 2020, 56, 743-746.	4.1	6
52	Inhibiting and catalysing amyloid fibrillation at dynamic lipid interfaces. <i>Journal of Colloid and Interface Science</i> , 2019, 543, 256-262.	9.4	5
53	Biofibrous nanomaterials for extracting strategic metal ions from water. <i>Exploration</i> , 2022, 2, .	11.0	3