

Kun Liu

List of Publications by Year in descending order

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87
papers

4,433
citations

109321

35
h-index

106344

65
g-index

87
all docs

87
docs citations

87
times ranked

5902
citing authors

#	ARTICLE	IF	CITATIONS
1	Step-Growth Polymerization of Inorganic Nanoparticles. <i>Science</i> , 2010, 329, 197-200.	12.6	475
2	Probing Dynamic Generation of Hot-Spots in Self-Assembled Chains of Gold Nanorods by Surface-Enhanced Raman Scattering. <i>Journal of the American Chemical Society</i> , 2011, 133, 7563-7570.	13.7	251
3	Self-assembly of inorganic nanorods. <i>Chemical Society Reviews</i> , 2011, 40, 656.	38.1	232
4	Imparting Catalytic Activity to a Covalent Organic Framework Material by Nanoparticle Encapsulation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7481-7488.	8.0	157
5	A Polyferroplatinyne Precursor for the Rapid Fabrication of L1₀-FePt Bit Patterned Media by Nanoimprint Lithography. <i>Advanced Materials</i> , 2012, 24, 1034-1040.	21.0	134
6	Nanostructured Magnetic Thin Films from Organometallic Block Copolymers: Pyrolysis of Self-Assembled Polystyrene- <i>block</i> -poly(ferrocenylethylmethylsilane). <i>ACS Nano</i> , 2008, 2, 263-270.	14.6	121
7	Hierarchical structure and physicochemical properties of highland barley starch following heat moisture treatment. <i>Food Chemistry</i> , 2019, 271, 102-108.	8.2	117
8	Close-Packed Superlattices of Side-by-Side Assembled Au-CdSe Nanorods. <i>Nano Letters</i> , 2009, 9, 3077-3081.	9.1	115
9	Micro-Nanomotors toward Biomedical Applications: The Recent Progress in Biocompatibility. <i>Small</i> , 2020, 16, e1906184.	10.0	111
10	Synthesis and Lithographic Patterning of FePt Nanoparticles Using a Bimetallic Metallopolyyne Precursor. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1255-1259.	13.8	107
11	Shell-Cross-Linked Cylindrical Polyisoprene- <i>b</i> -Polyferrocenylsilane (PI- <i>b</i> -PFS) Block Copolymer Micelles: A One-Dimensional (1D) Organometallic Nanocylinders. <i>Journal of the American Chemical Society</i> , 2007, 129, 5630-5639.	13.7	105
12	Fabrication of Continuous and Segmented Polymer/Metal Oxide Nanowires Using Cylindrical Micelles and Block Comicelles as Templates. <i>Advanced Materials</i> , 2009, 21, 1805-1808.	21.0	99
13	Chiral Plasmonic Nanochains <i>via</i> the Self-Assembly of Gold Nanorods and Helical Glutathione Oligomers Facilitated by Cetyltrimethylammonium Bromide Micelles. <i>ACS Nano</i> , 2017, 11, 3463-3475.	14.6	95
14	Jointly Tuned Plasmonic-Excitonic Photovoltaics Using Nanoshells. <i>Nano Letters</i> , 2013, 13, 1502-1508.	9.1	93
15	Microfluidic Study of Fast Gas-Liquid Reactions. <i>Journal of the American Chemical Society</i> , 2012, 134, 3127-3132.	13.7	89
16	Polypyrrole-Coated Chainlike Gold Nanoparticle Architectures with the 808 nm Photothermal Transduction Efficiency up to 70%. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5860-5868.	8.0	83
17	Wireless Manipulation of Magnetic/Piezoelectric Micromotors for Precise Neural Stem-Like Cell Stimulation. <i>Advanced Functional Materials</i> , 2020, 30, 1910108.	14.9	81
18	Copolymerization of Metal Nanoparticles: A Route to Colloidal Plasmonic Copolymers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2648-2653.	13.8	77

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19	MnO ₂ -Based Nanomotors with Active Fenton-like Mn ²⁺ Delivery for Enhanced Chemodynamic Therapy. ACS Applied Materials & Interfaces, 2021, 13, 38050-38060.	8.0	77
20	Comblike Thermoresponsive Polymers with Sharp Transitions: Synthesis, Characterization, and Their Use as Sensitive Colorimetric Sensors. Macromolecules, 2011, 44, 8614-8621.	4.8	74
21	Magnesium-Based Micromotors as Hydrogen Generators for Precise Rheumatoid Arthritis Therapy. Nano Letters, 2021, 21, 1982-1991.	9.1	74
22	Controlling the Degree of Polymerization, Bond Lengths, and Bond Angles of Plasmonic Polymers. Journal of the American Chemical Society, 2012, 134, 18853-18859.	13.7	68
23	Water-Soluble Chiral Polyisocyanides Showing Thermoresponsive Behavior. Macromolecules, 2013, 46, 1124-1132.	4.8	68
24	<i>In Situ</i> Plasmonic Counter for Polymerization of Chains of Gold Nanorods in Solution. ACS Nano, 2013, 7, 5901-5910.	14.6	63
25	Pyrolysis of Highly Metallized Polymers: Ceramic Thin Films Containing Magnetic CoFe Alloy Nanoparticles from a Polyferrocenylsilane with Pendant Cobalt Clusters. Chemistry of Materials, 2006, 18, 2591-2601.	6.7	58
26	Polymer-Directed Growth of Plasmonic Aluminum Nanocrystals. Journal of the American Chemical Society, 2018, 140, 15412-15418.	13.7	55
27	Standing Arrays of Gold Nanorods Endcapped with Polymer Ligands. Small, 2012, 8, 731-737.	10.0	52
28	Thermoresponsive Dendronized Polypeptides Showing Switchable Recognition to Catechols. Macromolecules, 2016, 49, 510-517.	4.8	47
29	Janus Si Micropillar Arrays with Thermal-Responsive Anisotropic Wettability for Manipulation of Microfluid Motions. ACS Applied Materials & Interfaces, 2015, 7, 376-382.	8.0	46
30	A detour strategy for colloiddally stable block-copolymer grafted MAPbBr ₃ quantum dots in water with long photoluminescence lifetime. Nanoscale, 2018, 10, 5820-5826.	5.6	45
31	Chiral Self-Assembly of Nanoparticles Induced by Polymers Synthesized <i>via</i> Reversible Addition-Fragmentation Chain Transfer Polymerization. ACS Nano, 2019, 13, 1479-1489.	14.6	45
32	The Application of Micro- and Nanomotors in Classified Drug Delivery. Chemistry - an Asian Journal, 2019, 14, 2336-2347.	3.3	40
33	Thin Films of Ag Nanoparticles Prepared from the Reduction of AgI Nanoparticles in Self-Assembled Films. Journal of Colloid and Interface Science, 2002, 255, 115-118.	9.4	38
34	Thermoresponsive supramolecular dendronized copolymers with tunable phase transition temperatures. Soft Matter, 2012, 8, 6371.	2.7	38
35	Highly Ordered Magnetic Ceramic Nanorod Arrays from a Polyferrocenylsilane by Nanoimprint Lithography with Anodic Aluminum Oxide Templates. Chemistry of Materials, 2009, 21, 1781-1783.	6.7	37
36	A non-sacrificial method for the quantification of poly(ethylene glycol) grafting density on gold nanoparticles for applications in nanomedicine. Chemical Science, 2019, 10, 2067-2074.	7.4	37

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37	Magnesium-based micromotors for enhanced active and synergistic hydrogen chemotherapy. <i>Applied Materials Today</i> , 2020, 20, 100694.	4.3	37
38	Photoelectrochemical TiO ₂ -Au Nanowire-Based Motor for Precise Modulation of Single Neuron Activities. <i>Advanced Functional Materials</i> , 2021, 31, 2008667.	14.9	37
39	Hydrogen-Powered Microswimmers for Precise and Active Hydrogen Therapy Towards Acute Ischemic Stroke. <i>Advanced Functional Materials</i> , 2021, 31, 2009475.	14.9	37
40	Anisotropic Janus Si nanopillar arrays as a microfluidic one-way valve for gas-liquid separation. <i>Nanoscale</i> , 2014, 6, 3846-3853.	5.6	35
41	Synergistic effect of hydrothermal treatment and lauric acid complexation under different pressure on starch assembly and digestion behaviors. <i>Food Chemistry</i> , 2019, 278, 560-567.	8.2	35
42	Thermoresponsive Supramolecular Dendronized Polymers. <i>Chemistry - an Asian Journal</i> , 2011, 6, 3260-3269.	3.3	34
43	Salt-mediated kinetics of the self-assembly of gold nanorods end-tethered with polymer ligands. <i>Nanoscale</i> , 2012, 4, 6574.	5.6	32
44	Unique Gold Nanorods Embedded Active Layer Enabling Strong Plasmonic Effect To Improve the Performance of Polymer Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6198-6205.	3.1	32
45	Synthesis and Liquid-Crystal Behavior of Bent Colloidal Silica Rods. <i>Journal of the American Chemical Society</i> , 2016, 138, 68-71.	13.7	32
46	Photodirected Morphing Structures of Nanocomposite Shape Memory Hydrogel with High Stiffness and Toughness. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43631-43640.	8.0	32
47	Pyrolysis of Polycarbosilanes with Pendant Nickel Clusters: Synthesis and Characterization of Magnetic Ceramics Containing Nickel and Nickel Silicide Nanoparticles. <i>Chemistry of Materials</i> , 2007, 19, 2630-2640.	6.7	31
48	Synthesis and Lithographic Patterning of Polycarbosilanes with Pendant Cobalt Carbonyl Clusters. <i>Macromolecules</i> , 2005, 38, 2023-2026.	4.8	30
49	Phase behaviors of colloidal analogs of bent-core liquid crystals. <i>Science Advances</i> , 2018, 4, eaas8829.	10.3	30
50	Gold Nanotetrapods with Unique Topological Structure and Ultranarrow Plasmonic Band as Multifunctional Therapeutic Agents. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4505-4510.	4.6	30
51	Confined Microenvironments from Thermoresponsive Dendronized Polymers. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000325.	3.9	28
52	Modulation of the digestibility and multi-scale structure of cassava starch by controlling the cassava growth period. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 346-353.	7.5	26
53	Thermoresponsive Dendronized Poly(phenylacetylene)s Showing Tunable Helicity. <i>Macromolecules</i> , 2019, 52, 8631-8642.	4.8	26
54	Dynamic covalent polypeptides showing tunable secondary structures and thermoresponsiveness. <i>Journal of Polymer Science Part A</i> , 2015, 53, 33-41.	2.3	25

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55	Donor-acceptor C ₆₀ -Containing Polyferrocenylsilanes: Synthesis, Characterization, and Applications in Photodiode Devices. <i>Advanced Functional Materials</i> , 2008, 18, 470-477.	14.9	22
56	OEGylated cyclodextrin-based thermoresponsive polymers and their switchable inclusion complexation with fluorescent dyes. <i>Polymer Chemistry</i> , 2015, 6, 1300-1308.	3.9	22
57	Synthesis and assembly of colloidal cuboids with tunable shape biaxiality. <i>Nature Communications</i> , 2018, 9, 4513.	12.8	21
58	Thermoresponsive cyclodextrins with switchable inclusion abilities. <i>Journal of Materials Chemistry</i> , 2012, 22, 17424.	6.7	19
59	Synthesis, photophysics and pyrolytic ceramization of a platinum(II)-containing poly(germylacetylene) polymer. <i>Journal of Organometallic Chemistry</i> , 2013, 744, 165-171.	1.8	19
60	Controlled assembly of fluorescent multilayers from an aqueous solution of CdTe nanocrystals and nonionic carbazole-containing copolymers. <i>Journal of Materials Chemistry</i> , 2003, 13, 1356.	6.7	18
61	Accounting for inhomogeneous broadening in nano-optics by electromagnetic modeling based on Monte Carlo methods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E639-E644.	7.1	17
62	OEGylated Cyclodextrin-Based Polyrotaxanes Showing Remarkable Thermoresponsive Behavior and Photocontrolled Degradation. <i>Macromolecules</i> , 2019, 52, 3454-3461.	4.8	17
63	Ag nanoparticle/polymer composite barcode nanorods. <i>Nano Research</i> , 2015, 8, 2871-2880.	10.4	16
64	OEGylated Cyclodextrins Responsive to Temperature, Redox, and Metal Ions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13258-13263.	8.0	16
65	Thermoresponsive oligoprolines. <i>Soft Matter</i> , 2012, 8, 4869.	2.7	15
66	Biodegradability of Micro/Nanomotors: Challenges and Opportunities. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100335.	7.6	15
67	Lysine-based dendronized polymers with preferred chirality. <i>Polymer Chemistry</i> , 2012, 3, 2708.	3.9	13
68	Water powered and anti-CD3 loaded mg micromotor for t cell activation. <i>Applied Materials Today</i> , 2020, 21, 100839.	4.3	13
69	Ultrathin stimuli-responsive polymer film-based optical sensor for fast and visual detection of hazardous organic solvents. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10861-10869.	5.5	11
70	Characterization of regenerated starch from 1-ethyl-3-(3-dimethylimidazolium acetate ionic liquid with different anti-solvents. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 1231-1238.	2.1	11
71	Peptidic molecular brushes with enhanced chirality. <i>Journal of Polymer Science Part A</i> , 2012, 50, 4063-4072.	2.3	9
72	Synergistic Reducing Effect for Synthesis of Well-Defined Au Nanooctopods With Ultra-Narrow Plasmon Band Width and High Photothermal Conversion Efficiency. <i>Frontiers in Chemistry</i> , 2018, 6, 335.	3.6	9

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73	Biocompatible Polymers for the Synthesis of Nanosalts via Supramolecular Ion-Dipole Interaction. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 6569-6573.	5.2	9
74	In Situ Seed-Mediated Growth of Polymer-Grafted Gold Nanoparticles. <i>Langmuir</i> , 2020, 36, 789-795.	3.5	9
75	Multiple-Responsive Dendronized Hyperbranched Polymers. <i>ACS Omega</i> , 2019, 4, 7667-7674.	3.5	8
76	General criteria for evaluating suitable polymer ligands for the synthesis of aluminum nanocrystals. <i>Chemical Communications</i> , 2020, 56, 217-220.	4.1	8
77	[2 + 2] Photocycloaddition-Mediated Intra- and Intermolecular Cross-Linking of Thermoresponsive Dendronized Polymethacrylates. <i>Macromolecules</i> , 2020, 53, 10866-10873.	4.8	7
78	Entropy-driven self-assembly of chiral nematic liquid crystalline phases of AgNR@Cu ₂ O hyper branched coaxial nanorods and thickness-dependent handedness transition. <i>Nano Research</i> , 2018, 11, 1018-1028.	10.4	6
79	Two-dimensional polymers with versatile functionalities via gemini monomers. <i>Science Advances</i> , 2019, 5, eaaw9120.	10.3	6
80	Remarkable structure effects on thermoresponsive properties of dendritic macromolecules. <i>Polymer</i> , 2014, 55, 3672-3679.	3.8	5
81	Upper Critical Solution Temperature-Type Responsive Cyclodextrins with Characteristic Inclusion Abilities. <i>Chemistry - A European Journal</i> , 2021, 27, 10470-10476.	3.3	5
82	Thermoresponsive cyclodextrins with benzenesulfonamide showing tunable inhibition for carbonic anhydrase. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 8028-8031.	2.8	4
83	Polymer Grafted Aluminum Nanoparticles for Percolative Composite Films with Enhanced Compatibility. <i>Polymers</i> , 2019, 11, 638.	4.5	4
84	Patterning of polyoxometalate rings on gold nanorods. <i>Chemical Communications</i> , 2020, 56, 1677-1680.	4.1	4
85	No need to wait. <i>Nature Materials</i> , 2017, 16, 883-884.	27.5	2
86	Polynanomers from Polymerization of Inorganic Nanoparticles. , 2016, , .		0
87	Supracolloidal Self-Assembly of Micro-Hosts and -Guests on Substrates. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2017, 27, 110-118.	3.7	0