

# Kaiqiang Liu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87  
papers

3,049  
citations

29  
h-index

53  
g-index

92  
ext. papers

3,453  
ext. citations

8.8  
avg, IF

5.26  
L-index

#	Paper	IF	Citations
87	Film Nanoarchitectonics of Pillar[5]arene for High-Performance Fluorescent Sensing: a Proof-of-Concept Study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 54561-54569	9.5	0
86	An -Carborane Derivative of Perylene Bisimide-Based Thin Film Displaying both Electrochromic and Electrofluorochromic Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 49500-49508	9.5	1
85	Harnessing Se <sup>2+</sup> N to develop novel fluorescent probes for visualizing the variation of endogenous hypobromous acid (HOBr) during the administration of an immunotherapeutic agent. <i>Chemical Communications</i> , <b>2021</b> , 57, 12679-12682	5.8	0
84	Robust and Large-Area Calix[4]pyrrole-Based Nanofilms Enabled by Air/DMSO Interfacial Self-Assembly-Confined Synthesis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 3336-3348	9.5	5
83	High-Performance Sensing of Formic Acid Vapor Enabled by a Newly Developed Nanofilm-Based Fluorescent Sensor. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 7094-7101	7.8	6
82	Supramolecular gel strategy-based nanomaterials with room temperature spin transition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 612, 126016	5.1	
81	Gel-emulsion templated polymeric aerogels for solar-driven interfacial evaporation and electricity generation. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 1953-1961	7.8	6
80	Spatial confinement and electron transfer moderating MoN bond strength for superior ammonia decomposition catalysis. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 294, 120254	21.8	4
79	Mesoporous sulfur-doped CoFe <sub>2</sub> O <sub>4</sub> as a new Fenton catalyst for the highly efficient pollutants removal. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 295, 120273	21.8	19
78	Ultrafine CoP/CoP Nanorods Encapsulated in Janus/Twins-type Honeycomb 3D Nitrogen-Doped Carbon Nanosheets for Efficient Hydrogen Evolution. <i>IScience</i> , <b>2020</b> , 23, 101264	6.1	19
77	Solvent dispersion triggered the formation of NiFe-gel as an efficient electrocatalyst for enhancing the oxygen evolution reaction. <i>Chemical Communications</i> , <b>2020</b> , 56, 7781-7784	5.8	6
76	Elastic, Persistently Moisture-Retentive, and Wearable Biomimetic Film Inspired by Fetal Scarless Repair for Promoting Skin Wound Healing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 5542-5556	9.5	17
75	Gel-Emulsion-Templated Polymeric Aerogels for Water Treatment by Organic Liquid Removal and Solar Vapor Generation. <i>ChemSusChem</i> , <b>2020</b> , 13, 749-755	8.3	14
74	A facile synthesis of cationic and super-hydrophobic polyHIPEs as precursors to carbon foam and adsorbents for removal of non-aqueous-phase dye. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 605, 125334	5.1	5
73	Transition metal pincer complex based self-healable, stretchable and transparent triboelectric nanogenerator. <i>Nano Energy</i> , <b>2020</b> , 78, 105348	17.1	15
72	Lilypad aggregation: localised self-assembly and metal sequestration at a liquid-vapour interface. <i>Chemical Science</i> , <b>2020</b> , 11, 7501-7510	9.4	3
71	Self-Assembled Perylene Bisimide-Cored Trigonal Prism as an Electron-Deficient Host for C and C Driven by "Like Dissolves Like". <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 15950-15960	16.4	31

70	Enhancement of Fe(III) to electro-response of starch hydrogel. <i>Colloid and Polymer Science</i> , <b>2020</b> , 298, 1533-1541	2.4	1
69	Naphthyl End-Capped Terthiophene-Based Chemiresistive Sensors for Biogenic Amine Detection and Meat Spoilage Monitoring. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 2751-2758	4.5	8
68	Braiding, branching and chiral amplification of nanofibres in supramolecular gels. <i>Nature Chemistry</i> , <b>2019</b> , 11, 375-381	17.6	45
67	Spatially Confined Growth of Fullerene to Super-Long Crystalline Fibers in Supramolecular Gels for High-Performance Photodetector. <i>Advanced Materials</i> , <b>2019</b> , 31, e1808254	24	28
66	Polymerizable Nonconventional Gel Emulsions and Their Utilization in the Template Preparation of Low-Density, High-Strength Polymeric Monoliths and 3D Printing. <i>Macromolecules</i> , <b>2019</b> , 52, 2456-2463	5.5	20
65	A BPSON Algorithm Applied to DNA Codes Design. <i>IEEE Access</i> , <b>2019</b> , 7, 88811-88821	3.5	5
64	Hierarchical Zn-Doped CoO Nanoflowers for Electrocatalytic Oxygen Evolution Reaction. <i>ChemCatChem</i> , <b>2019</b> , 11, 1480-1486	5.2	15
63	Thermodynamics and Kinetics Synergetic Phase-Engineering of Chemical Vapor Deposition Grown Single Crystal MoTe <sub>2</sub> Nanosheets. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 2844-2850	3.5	11
62	Calix[4]arene-Based Dynamic Covalent Gels: Marriage of Robustness, Responsiveness, and Self-Healing. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, 1700679	4.8	17
61	Macromol. Rapid Commun. 4/2018. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, 1870011	4.8	
60	Non-contact identification and differentiation of illicit drugs using fluorescent films. <i>Nature Communications</i> , <b>2018</b> , 9, 1695	17.4	68
59	Gel-emulsion templated polymeric monoliths for efficient removal of particulate matters. <i>Chemical Engineering Journal</i> , <b>2018</b> , 339, 14-21	14.7	21
58	Boronic ester-based dynamic covalent ionic liquid gels for self-healable, recyclable and malleable optical devices. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 12493-12497	7.1	10
57	Dynamic covalent bond-based hydrogels with superior compressive strength, exceptional slice-resistance and self-healing properties. <i>Soft Matter</i> , <b>2018</b> , 14, 7950-7953	3.6	14
56	A protein@metal-organic framework nanocomposite for pH-triggered anticancer drug delivery. <i>Dalton Transactions</i> , <b>2018</b> , 47, 10223-10228	4.3	61
55	Epitaxial growth of large-area and highly crystalline anisotropic ReSe <sub>2</sub> atomic layer. <i>Nano Research</i> , <b>2017</b> , 10, 2732-2742	10	47
54	Tuning Crystallization Pathways through the Mesoscale Assembly of Biomacromolecular Nanocrystals. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 13440-13444	16.4	38
53	Dynamic Chemistry-Based Sensing: A Molecular System for Detection of Saccharide, Formaldehyde, and the Silver Ion. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 9360-9367	7.8	15

52	Specially Treated Aramid Fiber Stabilized Gel-Emulsions: Preparation of Porous Polymeric Monoliths and Highly Efficient Removing of Airborne HCHO. <i>Macromolecular Rapid Communications</i> , <b>2017</b> , 38, 1700270	4.8	14
51	Dynamic covalent bonding-triggered supramolecular gelation derived from tetrahydroxy-bisurea derivatives. <i>Soft Matter</i> , <b>2017</b> , 13, 8609-8617	3.6	2
50	A high performance fluorescent arylamine sensor toward lung cancer sniffing. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 241, 1316-1323	8.5	29
49	Tuning Crystallization Pathways through the Mesoscale Assembly of Biomacromolecular Nanocrystals. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 13625-13629	3.6	3
48	Hierarchical Co(OH)F Superstructure Built by Low-Dimensional Substructures for Electrocatalytic Water Oxidation. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700286	24	167
47	Atomic Layers: Tellurium-Assisted Epitaxial Growth of Large-Area, Highly Crystalline ReS <sub>2</sub> Atomic Layers on Mica Substrate (Adv. Mater. 25/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 5018	24	4
46	Experimental Studies on A New Fluorescent Ensemble of Calix[4]pyrrole and Its Sensing Performance in the Film State. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 29128-29135	9.5	17
45	Calix[4]arene-based low molecular mass gelators to form gels in organoalkoxysilanes. <i>RSC Advances</i> , <b>2016</b> , 6, 109969-109977	3.7	10
44	Salt Tunable Rheology of Thixotropic Supramolecular Organogels and Their Applications for Crystallization of Organic Semiconductors. <i>Langmuir</i> , <b>2016</b> , 32, 12805-12813	4	27
43	A Nickel-Based Integrated Electrode from an Autologous Growth Strategy for Highly Efficient Water Oxidation. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502489	21.8	123
42	Preparation and electro-response of chitosan-g-poly (acrylic acid) hydrogel elastomers with interpenetrating network. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 169, 105-112	4.4	18
41	Construction of inorganic-organic 2D/2D WO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> Nanosheet arrays toward efficient photoelectrochemical splitting of natural seawater. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 10255-10261	3.6	99
40	A New Type of 1, 4-Bis(phenylethynyl)benzene Derivatives: Optical Behavior and Sensing Applications. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , <b>2016</b> , 32, 373-379	3.8	8
39	Tellurium-Assisted Epitaxial Growth of Large-Area, Highly Crystalline ReS <sub>2</sub> Atomic Layers on Mica Substrate. <i>Advanced Materials</i> , <b>2016</b> , 28, 5019-24	24	138
38	Solvatochromic Probes Displaying Unprecedented Organic Liquids Discriminating Characteristics. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 10167-10175	7.8	20
37	Polymerizable organo-gelator-stabilized gel-emulsions toward the preparation of compressible porous polymeric monoliths. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15215-15223	13	26
36	Constitutional Dynamic Chemistry-based New Concept of Molecular Beacons for High Efficient Development of Fluorescent Probes. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 6721-9	3.4	6
35	Compressible porous hybrid monoliths: preparation via a low molecular mass gelators-based gel-emulsion approach and exceptional performances. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 24322-24332	13	20

34	Efficient and Stable Photoelectrochemical Seawater Splitting with TiO <sub>2</sub> @g-C <sub>3</sub> N <sub>4</sub> Nanorod Arrays Decorated by Co-Pi. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 20283-20292	3.8	132
33	Ag(I)-Coordinated Supramolecular Metallogels Based on Schiff Base Ligands: Structural Characterization and Reversible Thixotropic Property. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 5360-5367	3.5	26
32	Formation of An Ionic PTCA-ECDNH <sub>2</sub> Complex and Its Application for Phenol Sensing in Aqueous Phase. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 21364-72	9.5	15
31	A novel calix[4]arene-based dimeric-cholesteryl derivative: synthesis, gelation and unusual properties. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 639-649	3.6	20
30	Porous Nickel-Iron Oxide as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Advanced Science</i> , <b>2015</b> , 2, 1500199	13.6	197
29	Water Splitting: Porous Nickel/Iron Oxide as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction (Adv. Sci. 10/2015). <i>Advanced Science</i> , <b>2015</b> , 2,	13.6	6
28	Thin-Sheet Carbon Nanomesh with an Excellent Electrocapacitive Performance. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5420-5427	15.6	125
27	Carbon Nanomeshes: Thin-Sheet Carbon Nanomesh with an Excellent Electrocapacitive Performance (Adv. Funct. Mater. 34/2015). <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5406-5406	15.6	5
26	Towards a new FRET system via combination of pyrene and perylene bisimide: synthesis, self-assembly and fluorescence behavior. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 5441-9	3.6	27
25	Facile preparation of porous polymeric composite monoliths with superior performances in oil/water separation by low-molecular mass gelators-based gel emulsion approach. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 10081-10089	13	41
24	N-acetylglucosamine-based efficient, phase-selective organogelators for oil spill remediation. <i>Chemical Communications</i> , <b>2014</b> , 50, 13940-3	5.8	79
23	Terthiophene derivatives of cholesterol-based molecular gels and their sensing applications. <i>Langmuir</i> , <b>2014</b> , 30, 1257-65	4	28
22	Preparation of a scorpion-shaped di-NBD derivative of cholesterol and its thixotropic property. <i>Science China Chemistry</i> , <b>2014</b> , 57, 1544-1551	7.9	4
21	"Yin and Yang" tuned fluorescence sensing behavior of branched 1,4-bis(phenylethynyl)benzene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 20016-24	9.5	7
20	Functionality-oriented molecular gels: synthesis and properties of nitrobenzoxadiazole (NBD)-containing low-molecular mass gelators. <i>Soft Matter</i> , <b>2014</b> , 10, 9159-66	3.6	20
19	Triggered formation of thixotropic hydrogels by balancing competitive supramolecular synthons. <i>Soft Matter</i> , <b>2013</b> , 9, 11699	3.6	34
18	Simple design but marvelous performances: molecular gels of superior strength and self-healing properties. <i>Soft Matter</i> , <b>2013</b> , 9, 1091-1099	3.6	85
17	Preparation of novel W/O gel-emulsions and their application in the preparation of low-density materials. <i>Langmuir</i> , <b>2012</b> , 28, 9275-81	4	50

16	Calix[4]arene-based supramolecular gels with unprecedented rheological properties. <i>Soft Matter</i> , <b>2012</b> , 8, 3756	3.6	48
15	Novel dimeric cholesteryl derivatives and their smart thixotropic gels. <i>Langmuir</i> , <b>2011</b> , 27, 12156-63	4	54
14	Synthesis and gelation behaviors of five new dimeric cholesteryl derivatives. <i>Science China Chemistry</i> , <b>2011</b> , 54, 475-482	7.9	3
13	Progress in the studies of low-molecular mass gelators with unusual properties. <i>Science China Chemistry</i> , <b>2011</b> , 54, 575-586	7.9	35
12	New dimeric cholesteryl-based A(LS) <sub>2</sub> gelators with remarkable gelling abilities: organogel formation at room temperature. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 361, 556-64	9.3	28
11	Preparation of novel organometallic derivatives of cholesterol and their gel-formation properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2010</b> , 362, 127-134	5.1	30
10	Cholesteryl derivatives as phase-selective gelators at room temperature. <i>Tetrahedron</i> , <b>2009</b> , 65, 3369-3377	7	68
9	Water-in-oil gel emulsions from a cholesterol derivative: structure and unusual properties. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 336, 780-5	9.3	42
8	New dicholesteryl-based gelators: chirality and spacer length effect. <i>Langmuir</i> , <b>2008</b> , 24, 2992-3000	4	78
7	New dicholesteryl-based gelators: gelling ability and selective gelation of organic solvents from their mixtures with water at room temperature. <i>New Journal of Chemistry</i> , <b>2008</b> , 32, 2218	3.6	43
6	Preparation and gas sensing properties of novel CdS-supramolecular organogel hybrid films. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 105405	3	13
5	An Organometallic Super-Gelator with Multiple-Stimulus Responsive Properties. <i>Advanced Materials</i> , <b>2008</b> , 20, 2508-2511	24	215
4	A novel low-molecular-mass gelator with a redox active ferrocenyl group: tuning gel formation by oxidation. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 318, 397-404	9.3	61
3	Novel dimeric cholesteryl-based A(LS) <sub>2</sub> low-molecular-mass gelators with a benzene ring in the linker. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 327, 94-101	9.3	29
2	Supramolecular gels based on organic diacid monoamides of cholesteryl glycinate. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 327, 233-42	9.3	22
1	Amino acid derivatives of cholesterol as "latent" organogelators with hydrogen chloride as a protonation reagent. <i>Langmuir</i> , <b>2006</b> , 22, 7016-20	4	70