

Xikui Liu

List of Publications by Year in descending order

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46
papers

1,271
citations

430874

18
h-index

377865

34
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48
all docs

48
docs citations

48
times ranked

1802
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous power generation from broad-humidity atmospheres through heterostructured F/O-bonded graphene monoliths. <i>Nano Energy</i> , 2022, 91, 106605.	16.0	19
2	Micro/Nano-Scaled Covalent Organic Frameworks: Polymerization, Crystallization and Self-Assembly. <i>ChemNanoMat</i> , 2022, 8, .	2.8	7
3	Modulator-Assisted Photosynthesis: Green and Powerful Approach towards Superstructured π -Conjugated Covalent Organic Frameworks with Enhanced Electrochemical Performances. <i>ChemPhotoChem</i> , 2022, 6, .	3.0	7
4	Ladder-type π -conjugated metallophthalocyanine covalent organic frameworks with boosted oxygen reduction reaction activity and durability for zinc-air batteries. <i>Chemical Engineering Journal</i> , 2022, 435, 133872.	12.7	25
5	Constructing hydrophobic protection for ionic interactions toward water, acid, and base-resistant self-healing elastomers and electronic devices. <i>Science China Materials</i> , 2021, 64, 1780-1790.	6.3	23
6	Robust crystalline aromatic imide-linked two-dimensional covalent organic frameworks confining ruthenium nanoparticles as efficient hydrogen evolution electrocatalyst. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 621, 126511.	4.7	12
7	Synthesis and Electronic Modulation of Nanostructured Layered Double Hydroxides for Efficient Electrochemical Oxygen Evolution. <i>ChemSusChem</i> , 2021, 14, 5112-5134.	6.8	16
8	Cobalt-Based Double Catalytic Sites on Mesoporous Carbon as Reversible Polysulfide Catalysts for Fast-Kinetic Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51174-51185.	8.0	31
9	Shape and phase controlled synthesis of mesostructured carbon single crystals through mesoscale self-assembly of reactive monomicelles and their unprecedented exfoliation into single-layered carbon nanoribbons. <i>Journal of Colloid and Interface Science</i> , 2020, 558, 32-37.	9.4	1
10	Electron-Donating Effect Enabled Simultaneous Improvement on the Mechanical and Self-Healing Properties of Bromobutyl Rubber Ionomers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53239-53246.	8.0	35
11	Covalent functionalization of fluorinated graphene through activation of dormant radicals for water-based lubricants. <i>Carbon</i> , 2020, 167, 826-834.	10.3	41
12	Scalable preparation of individual, uniform hyper-crosslinked polyimide hollow spheres through solid-state powder foaming: The power of network manipulation. <i>Materials Today Communications</i> , 2020, 24, 101030.	1.9	5
13	Covalent organic framework mesocrystals through dynamic modulator manipulated mesoscale self-assembly of imine macrocycle precursors. <i>Journal of Colloid and Interface Science</i> , 2020, 568, 76-80.	9.4	26
14	Toward high-efficiency photoluminescence emission by fluorination of graphene oxide: Investigations from excitation to emission evolution. <i>Carbon</i> , 2020, 165, 386-394.	10.3	17
15	Monolithic Covalent Organic Framework Aerogels through Framework Crystallization Induced Self-assembly: Heading towards Framework Materials Synthesis over All Length Scales. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019, 37, 1045-1052.	3.8	18
16	Dependence of the fluorination intercalation of graphene toward high-quality fluorinated graphene formation. <i>Chemical Science</i> , 2019, 10, 5546-5555.	7.4	33
17	Covalent organic frameworks (COFs): perspectives of industrialization. <i>CrystEngComm</i> , 2018, 20, 1613-1634.	2.6	108
18	Scalable ambient pressure synthesis of covalent organic frameworks and their colorimetric nanocomposites through dynamic imine exchange reactions. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2018, 36, 1-7.	3.8	35

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19	Toward Excellent Tribological Performance as Oil-Based Lubricant Additive: Particular Tribological Behavior of Fluorinated Graphene. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28828-28838.	8.0	85
20	Mesoscale self-assembly of reactive monomicelles: General strategy toward phloroglucinol-formaldehyde aerogels with ordered mesoporous structures and enhanced mechanical properties. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 77-82.	9.4	6
21	One-pot solvothermal synthesis of robust ambient-dried polyimide aerogels with morphology-enhanced superhydrophobicity for highly efficient continuous oil/water separation. <i>Reactive and Functional Polymers</i> , 2017, 116, 17-23.	4.1	28
22	Robust ambient pressure dried polyimide aerogels and their graphene oxide directed growth of 1D@2D nanohybrid aerogels using water as the only solvent. <i>RSC Advances</i> , 2017, 7, 16210-16216.	3.6	12
23	Dynamic polysulfide shape memory networks derived from elemental sulfur and their dual thermo-/photo-induced solid-state plasticity. <i>Reactive and Functional Polymers</i> , 2017, 121, 8-14.	4.1	24
24	Preparation of solution-processable colorless polyamide-imides with extremely low thermal expansion coefficients through an in-situ silylation method for potential space optical applications. <i>E-Polymers</i> , 2016, 16, 395-402.	3.0	14
25	One-pot synthesis of triptycene-based porous organic frameworks with tailored micropore environments for highly efficient and selective amine adsorption. <i>Polymer Journal</i> , 2016, 48, 787-792.	2.7	14
26	Morphology controlled synthesis of octahedral covalent imine frameworks through acid modulated aldehyde-amine polycondensation. <i>Macromolecular Research</i> , 2016, 24, 366-370.	2.4	14
27	A green and scalable method for producing high-performance polyimide aerogels using low-boiling-point solvents and sublimation drying. <i>Polymer Journal</i> , 2016, 48, 169-175.	2.7	17
28	A facile approach for the synthesis of aromatic polyazomethine hollow structures employing in situ formed dynamic imine crystals as reactive templates. <i>Macromolecular Research</i> , 2015, 23, 1087-1090.	2.4	1
29	Reversely swellable porphyrin-linked microporous polyimide networks with super-adsorption for volatile organic compounds. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2015, 33, 1125-1132.	3.8	7
30	Construction of crystalline Zn-salphen microporous polymer frameworks and their nanostructured carbons through supramolecular assembly of 1D shape-persistent polymers. <i>Macromolecular Research</i> , 2015, 23, 309-312.	2.4	10
31	Green, scalable and morphology controlled synthesis of nanofibrous covalent organic frameworks and their nanohybrids through a vapor-assisted solid-state approach. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8201.	10.3	41
32	Surface-nanostructured cactus-like carbon microspheres for efficient photovoltaic devices. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15132.	10.3	12
33	Green synthesis of polyimides and their CNT based nanohybrid shish-kebabs through reaction-induced crystallization of nylon-salt-type monomers in glycerol. <i>Chinese Journal of Polymer Science (English)</i> Tj ETQq1 1 0.784314 rgBT /Overlaid	3.8	5
34	Solvothermal Synthesis of Microporous, Crystalline Covalent Organic Framework Nanofibers and Their Colorimetric Nanohybrid Structures. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 8845-8849.	8.0	124
35	Dynamic imine chemistry assisted reaction induced hetero-epitaxial crystallization: Novel approach towards aromatic polymer/CNT nanohybrid shish-kebabs and related hybrid crystalline structures. <i>Polymer</i> , 2013, 54, 1739-1745.	3.8	21
36	Solvothermal synthesis of polyazomethine microspheres by Pickering emulsion templates and their transformation into complex microtubes and anisotropic hollow spheres enabled by dynamic imine chemistry. <i>Polymer Journal</i> , 2013, 45, 1087-1093.	2.7	8

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37	Preparation of hierarchical polyimide hollow spheres via a gas bubble templated transimidization induced crystallization process. <i>Polymer Bulletin</i> , 2012, 69, 675-684.	3.3	14
38	Morphosynthesis of nanostructured polyazomethines and carbon through constitutional dynamic chemistry controlled reaction induced crystallization process. <i>Polymer</i> , 2012, 53, 1611-1616.	3.8	17
39	A Facile Reprecipitation Method for the Preparation of Polyimide Hollow Spheres with Controllable Morphologies and Permeable Shell. <i>Chemistry Letters</i> , 2010, 39, 1194-1196.	1.3	12
40	Spontaneous Self-Assembly of a Mono-Component Polyimide Bearing Terminal Hydrogen-Bonding Sites in a Single Solvent. <i>Macromolecular Rapid Communications</i> , 2009, 30, 892-896.	3.9	17
41	Ultrahigh-Density Carbon Nanoring Arrays on Silicon Wafer through Templated Solution Deposition Method. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1345-1349.	3.9	10
42	Fabrication of Highly Ordered Polymeric Nanodot and Nanowire Arrays Templated by Supramolecular Assembly Block Copolymer Nanoporous Thin Films. <i>Nanoscale Research Letters</i> , 2009, 4, 459-464.	5.7	22
43	Introduction of side chains containing biphenyl unit on the crystalline morphology and properties of polyimides. <i>Journal of Applied Polymer Science</i> , 2006, 101, 2255-2260.	2.6	6
44	Optical Switching of Self-Assembly: Micellization and Micelle-to-Hollow-Sphere Transition of Hydrogen-Bonded Polymers. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3846-3850.	13.8	202
45	Formation of new banded spherulites in polyimides. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 1997-2004.	2.1	6
46	Preparation and properties of novel polyimides with side chains containing biphenyl units. <i>Journal of Applied Polymer Science</i> , 2003, 90, 3291-3298.	2.6	11