Xikui Liu

List of Publications by Year
in descending order

46 papers	1,271 citations	430874 18 h-index	377865 34 g-index
48 all docs	48 docs citations	48 times ranked	1802 citing authors

#	Article	IF	Citations
1	Optical Switching of Self-Assembly: Micellization and Micelleâ€“Hollow-Sphere Transition of Hydrogen-Bonded Polymers. Angewandte Chemie - International Edition, 2006, 45, 3846-3850.	13.8	202
2	Solvothermal Synthesis of Microporous, Crystalline Covalent Organic Framework Nanofibers and Their Colorimetric Nanohybrid Structures. ACS Applied Materials & Interfaces, 2013, 5, 8845-8849.	8.0	124
3	Covalent organic frameworks (COFs): perspectives of industrialization. CrystEngComm, 2018, 20, 1613-1634.	2.6	108
4	Toward Excellent Tribological Performance as Oil-Based Lubricant Additive: Particular Tribological Behavior of Fluorinated Graphene. ACS Applied Materials & Interfaces, 2018, 10, 28828-28838.	8.0	85
5	Green, scalable and morphology controlled synthesis of nanofibrous covalent organic frameworks and their nanohybrids through a vapor-assisted solid-state approach. Journal of Materials Chemistry A, 2014, 2, 8201.	10.3	41
6	Covalent functionalization of fluorinated graphene through activation of dormant radicals for water-based lubricants. Carbon, 2020, 167, 826-834.	10.3	41
7	Scalable ambient pressure synthesis of covalent organic frameworks and their colorimetric nanocomposites through dynamic imine exchange reactions. Chinese Journal of Polymer Science (English Edition), 2018, 36, 1-7.	3.8	35
8	Electron-Donating Effect Enabled Simultaneous Improvement on the Mechanical and Self-Healing Properties of Bromobutyl Rubber Ionomers. ACS Applied Materials & Interfaces, 2020, 12, 53239-53246.	8.0	35
9	Dependence of the fluorination intercalation of graphene toward high-quality fluorinated graphene formation. Chemical Science, 2019, 10, 5546-5555.	7.4	33
10	Cobalt-Based Double Catalytic Sites on Mesoporous Carbon as Reversible Polysulfide Catalysts for Fast-Kinetic Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2021, 13, 51174-51185.	8.0	31
11	One-pot solvothermal synthesis of robust ambient-dried polyimide aerogels with morphology-enhanced superhydrophobicity for highly efficient continuous oil/water separation. Reactive and Functional Polymers, 2017, 116, 17-23.	4.1	28
12	Covalent organic framework mesocrystals through dynamic modulator manipulated mesoscale self-assembly of imine macrocycle precursors. Journal of Colloid and Interface Science, 2020, 568, 76-80.	9.4	26
13	Ladder-type Ï€-conjugated metallophthalocyanine covalent organic frameworks with boosted oxygen reduction reaction activity and durability for zinc-air batteries. Chemical Engineering Journal, 2022, 435, 133872.	12.7	25
14	Dynamic polysulfide shape memory networks derived from elemental sulfur and their dual thermo-/photo-induced solid-state plasticity. Reactive and Functional Polymers, 2017, 121, 8-14.	4.1	24
15	Constructing hydrophobic protection for ionic interactions toward water, acid, and base-resistant self-healing elastomers and electronic devices. Science China Materials, 2021, 64, 1780-1790.	6.3	23
16	Fabrication of Highly Ordered Polymeric Nanodot and Nanowire Arrays Templated by Supramolecular Assembly Block Copolymer Nanoporous Thin Films. Nanoscale Research Letters, 2009, 4, 459-464.	5.7	22
17	Dynamic imine chemistry assisted reaction induced hetero-epitaxial crystallization: Novel approach towards aromatic polymer/CNT nanohybrid shish-kebabs and related hybrid crystalline structures. Polymer, 2013, 54, 1739-1745.	3.8	21
18	Spontaneous power generation from broad-humidity atmospheres through heterostructured F/O-bonded graphene monoliths. Nano Energy, 2022, 91, 106605.	16.0	19

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19	Monolithic Covalent Organic Framework Aerogels through Framework Crystallization Induced Self-assembly: Heading towards Framework Materials Synthesis over All Length Scales. Chinese Journal of Polymer Science (English Edition), 2019, 37, 1045-1052.	3.8	18
20	Spontaneous Selfâ€Assembly of a Monoâ€Component Polyimide Bearing Terminal Hydrogenâ€Bonding Sites in a Single Solvent. Macromolecular Rapid Communications, 2009, 30, 892-896.	3.9	17
21	Morphosynthesis of nanostructured polyazomethines and carbon through constitutional dynamic chemistry controlled reaction induced crystallization process. Polymer, 2012, 53, 1611-1616.	3.8	17
22	A green and scalable method for producing high-performance polyimide aerogels using low-boiling-point solvents and sublimation drying. Polymer Journal, 2016, 48, 169-175.	2.7	17
23	Toward high-efficiency photoluminescence emission by fluorination of graphene oxide: Investigations from excitation to emission evolution. Carbon, 2020, 165, 386-394.	10.3	17
24	Synthesis and Electronic Modulation of Nanostructured Layered Double Hydroxides for Efficient Electrochemical Oxygen Evolution. ChemSusChem, 2021, 14, 5112-5134.	6.8	16
25	Preparation of hierarchical polyimide hollow spheres via a gas bubble templated transimidization induced crystallization process. Polymer Bulletin, 2012, 69, 675-684.	3.3	14
26	Preparation of solution-processable colorless polyamide-imides with extremely low thermal expansion coefficients through an in-situ silylation method for potential space optical applications. E-Polymers, 2016, 16, 395-402.	3.0	14
27	One-pot synthesis of triptycene-based porous organic frameworks with tailored micropore environments for highly efficient and selective amine adsorption. Polymer Journal, 2016, 48, 787-792.	2.7	14
28	Morphology controlled synthesis of octahedral covalent imine frameworks through acid modulated aldehyde-amine polycondensation. Macromolecular Research, 2016, 24, 366-370.	2.4	14
29	A Facile Reprecipitation Method for the Preparation of Polyimide Hollow Spheres with Controllable Morphologies and Permeable Shell. Chemistry Letters, 2010, 39, 1194-1196.	1.3	12
30	Surface-nanostructured cactus-like carbon microspheres for efficient photovoltaic devices. Journal of Materials Chemistry A, 2014, 2, 15132.	10.3	12
31	Robust ambient pressure dried polyimide aerogels and their graphene oxide directed growth of 1Dâ€“2D nanohybrid aerogels using water as the only solvent. RSC Advances, 2017, 7, 16210-16216.	3.6	12
32	Robust crystalline aromatic imide-linked two-dimensional covalent organic frameworks confining ruthenium nanoparticles as efficient hydrogen evolution electrocatalyst. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 621, 126511.	4.7	12
33	Preparation and properties of novel polyimides with side chains containing biphenyl units. Journal of Applied Polymer Science, 2003, 90, 3291-3298.	2.6	11
34	Ultrahighâ€Density Carbon Nanoring Arrays on Silicon Wafer through Templated Solution Deposition Method. Macromolecular Rapid Communications, 2009, 30, 1345-1349.	3.9	10
35	Construction of crystalline Zn-salphen microporous polymer frameworks and their nanostructured carbons through supramolecular assembly of 1D shape-persistent polymers. Macromolecular Research, 2015, 23, 309-312.	2.4	10
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. Polymer Journal, 2013, 45, 1087-1093.	2.7	8

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37	Reversely swellable porphyrin-linked microporous polyimide networks with super-adsorption for volatile organic compounds. Chinese Journal of Polymer Science (English Edition), 2015, 33, 1125-1132.	3.8	7
38	Micro/Nanoâ€Scaled Covalent Organic Frameworks: Polymerization, Crystallization and Selfâ€Assembly. ChemNanoMat, 2022, 8, .	2.8	7
39	Modulatorâ€Assisted Photosynthesis: Green and Powerful Approach towards Superstructured Ï€â^Conjugated Covalent Organic Frameworks with Enhanced Electrochemical Performances. ChemPhotoChem, 2022, 6, .	3.0	7
40	Formation of new banded spherulites in polyimides. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1997-2004.	2.1	6
41	Introduction of side chains containing biphenyl unit on the crystalline morphology and properties of polyimides. Journal of Applied Polymer Science, 2006, 101, 2255-2260.	2.6	6
42	Mesoscale self-assembly of reactive monomicelles: General strategy toward phloroglucinol-formaldehyde aerogels with ordered mesoporous structures and enhanced mechanical properties. Journal of Colloid and Interface Science, 2018, 532, 77-82.	9.4	6
43	Green synthesis of polyimides and their CNT based nanohybrid shish-kebabs through reaction-induced crystallization of nylon-salt-type monomers in glycerol. Chinese Journal of Polymer Science (English) Tj ETQq1 1 0.784314 rgBT /Overl	3.3	5
44	Scalable preparation of individual, uniform hyper-crosslinked polyimide hollow spheres through solid-state powder foaming: The power of network manipulation. Materials Today Communications, 2020, 24, 101030.	1.9	5
45	A facile approach for the synthesis of aromatic polyazomethine hollow structures employing in situ formed dynamic imine crystals as reactive templates. Macromolecular Research, 2015, 23, 1087-1090.	2.4	1
46	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. Journal of Colloid and Interface Science, 2020, 558, 32-37.	9.4	1