

Kecheng Jie

List of Publications by Year in descending order

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69
papers

5,508
citations

87843

38
h-index

95218

68
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70
all docs

70
docs citations

70
times ranked

5053
citing authors

#	ARTICLE	IF	CITATIONS
1	Separation of pyrrolidine from tetrahydrofuran by using pillar[6]arene-based nonporous adaptive crystals. <i>Chemical Science</i> , 2022, 13, 7536-7540.	3.7	14
2	Engineering Permanent Porosity into Liquids. <i>Advanced Materials</i> , 2021, 33, e2005745.	11.1	43
3	Porous Liquids: Engineering Permanent Porosity into Liquids (Adv. Mater. 18/2021). <i>Advanced Materials</i> , 2021, 33, 2170136.	11.1	3
4	A bifunctional zeolitic porous liquid with incompatible Lewis pairs for antagonistic cascade catalysis. <i>CheM</i> , 2021, 7, 3340-3358.	5.8	21
5	Supramolecularâ€Macrocycleâ€Based Crystalline Organic Materials. <i>Advanced Materials</i> , 2020, 32, e1904824.	11.1	110
6	Transforming Porous Organic Cages into Porous Ionic Liquids via a Supramolecular Complexation Strategy. <i>Angewandte Chemie</i> , 2020, 132, 2288-2292.	1.6	21
7	Transforming Porous Organic Cages into Porous Ionic Liquids via a Supramolecular Complexation Strategy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2268-2272.	7.2	101
8	Transformation of Nonporous Adaptive Pillar[4]arene[1]quinone Crystals into Fluorescent Crystals via Multi-Step Solidâ€Vapor Postsynthetic Modification for Fluorescence Turn-on Sensing of Ethylenediamine. <i>Journal of the American Chemical Society</i> , 2020, 142, 15560-15568.	6.6	43
9	Selective Separation of Methylfuran and Dimethylfuran by Nonporous Adaptive Crystals of Pillararenes. <i>Journal of the American Chemical Society</i> , 2020, 142, 19722-19730.	6.6	48
10	Highly Selective Removal of Trace Isomers by Nonporous Adaptive Pillararene Crystals for Chlorobutane Purification. <i>Journal of the American Chemical Society</i> , 2020, 142, 6957-6961.	6.6	53
11	Mechanochemical synthesis of pillar[5]quinone derived multi-microporous organic polymers for radioactive organic iodide capture and storage. <i>Nature Communications</i> , 2020, 11, 1086.	5.8	87
12	Highly Selective Separation of Minimumâ€Boiling Azeotrope Toluene/Pyridine by Nonporous Adaptive Crystals of Cucurbit[6]uril. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5355-5358.	7.2	60
13	Surpassing Robeson Upper Limit for CO ₂ /N ₂ Separation with Fluorinated Carbon Molecular Sieve Membranes. <i>CheM</i> , 2020, 6, 631-645.	5.8	73
14	Highly Selective Separation of Minimumâ€Boiling Azeotrope Toluene/Pyridine by Nonporous Adaptive Crystals of Cucurbit[6]uril. <i>Angewandte Chemie</i> , 2020, 132, 5393-5396.	1.6	13
15	An ultrastable heterostructured oxide catalyst based on high-entropy materials: A new strategy toward catalyst stabilization via synergistic interfacial interaction. <i>Applied Catalysis B: Environmental</i> , 2020, 276, 119155.	10.8	72
16	Vapochromic crystals: understanding vapochromism from the perspective of crystal engineering. <i>Chemical Society Reviews</i> , 2020, 49, 1517-1544.	18.7	166
17	Facile benzene reduction promoted by a synergistically coupled Cuâ€Coâ€Ce ternary mixed oxide. <i>Chemical Science</i> , 2020, 11, 5766-5771.	3.7	8
18	Topotactic Synthesis of Phosphabenzeneâ€Functionalized Porous Organic Polymers: Efficient Ligands in CO ₂ Conversion. <i>Angewandte Chemie</i> , 2019, 131, 13901-13905.	1.6	3

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19	<i>Cis</i> – <i>Trans</i> Selectivity of Haloalkene Isomers in Nonporous Adaptive Pillararene Crystals. <i>Journal of the American Chemical Society</i> , 2019, 141, 11847-11851.	6.6	80
20	Topotactic Synthesis of Phosphabenzene–Functionalized Porous Organic Polymers: Efficient Ligands in CO ₂ Conversion. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13763-13767.	7.2	32
21	Mechanochemical Nonhydrolytic Sol–Gel-Strategy for the Production of Mesoporous Multimetallic Oxides. <i>Chemistry of Materials</i> , 2019, 31, 5529-5536.	3.2	65
22	Influence of fluorination on CO ₂ adsorption in materials derived from fluorinated covalent triazine framework precursors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17277-17282.	5.2	47
23	From Highly Purified Boron Nitride to Boron Nitride–Based Heterostructures: An Inorganic Precursor–Based Strategy. <i>Advanced Functional Materials</i> , 2019, 29, 1906284.	7.8	22
24	Synthesis of Composition-Tunable Syngas from Efficiently Electrochemical Conversion of CO ₂ over AuCu/CNT Bimetallic Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 15425-15431.	1.8	14
25	Dihalobenzene Shape Sorting by Nonporous Adaptive Crystals of Perbromoethylated Pillararenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3981-3985.	7.2	86
26	Mechanochemical Synthesis of High Entropy Oxide Materials under Ambient Conditions: Dispersion of Catalysts via Entropy Maximization. , 2019, 1, 83-88.		143
27	Dihalobenzene Shape Sorting by Nonporous Adaptive Crystals of Perbromoethylated Pillararenes. <i>Angewandte Chemie</i> , 2019, 131, 4021-4025.	1.6	24
28	Heterogeneity of polyoxometalates by confining within ordered mesopores: toward efficient oxidation of benzene to phenol. <i>Catalysis Science and Technology</i> , 2019, 9, 2173-2179.	2.1	12
29	Entropy–Driven Mechanochemical Synthesis of Polymetallic Zeolitic Imidazolate Frameworks for CO ₂ Fixation. <i>Angewandte Chemie</i> , 2019, 131, 5072-5076.	1.6	27
30	Entropy–Driven Mechanochemical Synthesis of Polymetallic Zeolitic Imidazolate Frameworks for CO ₂ Fixation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5018-5022.	7.2	107
31	A succinct strategy for construction of nanoporous ionic organic networks from a pyrylium intermediate. <i>Chemical Communications</i> , 2019, 55, 13450-13453.	2.2	9
32	Applications of pillararene NACs in adsorption and separation. <i>Scientia Sinica Chimica</i> , 2019, 49, 832-843.	0.2	8
33	Cyclic Ether Contaminant Removal from Water Using Nonporous Adaptive Pillararene Crystals via Host-Guest Complexation at the Solid-Solution Interface. <i>Research</i> , 2019, 2019, 5406365.	2.8	16
34	Facile Synthesis of Highly Porous Metal Oxides by Mechanochemical Nanocasting. <i>Chemistry of Materials</i> , 2018, 30, 2924-2929.	3.2	54
35	Clip[4]arene: synthesis, rigid acyclic C-shaped structure, and redox-controlled host–guest complexation. <i>Tetrahedron Letters</i> , 2018, 59, 1204-1207.	0.7	5
36	Linear Positional Isomer Sorting in Nonporous Adaptive Crystals of a Pillar[5]arene. <i>Journal of the American Chemical Society</i> , 2018, 140, 3190-3193.	6.6	132

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37	A dual redox-responsive supramolecular amphiphile fabricated by selenium-containing pillar[6]arene-based molecular recognition. <i>Chemical Communications</i> , 2018, 54, 12856-12859.	2.2	31
38	A benzoquinone-derived porous hydrophenazine framework for efficient and reversible iodine capture. <i>Chemical Communications</i> , 2018, 54, 12706-12709.	2.2	28
39	Controlled synthesis of hierarchical ZSM-5 for catalytic fast pyrolysis of cellulose to aromatics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21178-21185.	5.2	38
40	Post-Synthetic Modification of Nonporous Adaptive Crystals of Pillar[4]arene[1]quinone by Capturing Vaporized Amines. <i>Journal of the American Chemical Society</i> , 2018, 140, 15070-15079.	6.6	86
41	Separation of Aromatics/Cyclic Aliphatics by Nonporous Adaptive Pillararene Crystals. <i>Angewandte Chemie</i> , 2018, 130, 13027-13031.	1.6	39
42	CO ₂ -Enhanced Bola-Type Supramolecular Amphiphile Constructed from Pillar[5]arene-Based Host-Guest Recognition. <i>Organic Letters</i> , 2018, 20, 4888-4892.	2.4	17
43	Nonporous Adaptive Crystals of Pillararenes. <i>Accounts of Chemical Research</i> , 2018, 51, 2064-2072.	7.6	364
44	Near-Ideal Xylene Selectivity in Adaptive Molecular Pillar[5]arene Crystals. <i>Journal of the American Chemical Society</i> , 2018, 140, 6921-6930.	6.6	191
45	Separation of Aromatics/Cyclic Aliphatics by Nonporous Adaptive Pillararene Crystals. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12845-12849.	7.2	116
46	Entropy-stabilized metal oxide solid solutions as CO oxidation catalysts with high-temperature stability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11129-11133.	5.2	196
47	Aliphatic Aldehyde Detection and Adsorption by Nonporous Adaptive Pillar[4]arene[1]quinone Crystals with Vapochromic Behavior. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23147-23153.	4.0	53
48	Taco complex-templated highly regio- and stereo-selective photodimerization of a coumarin-containing crown ether. <i>Chemical Communications</i> , 2017, 53, 1688-1691.	2.2	17
49	Styrene Purification by Guest-Induced Restructuring of Pillar[6]arene. <i>Journal of the American Chemical Society</i> , 2017, 139, 2908-2911.	6.6	191
50	A triply-responsive supramolecular amphiphile fabricated by a thermal-responsive pillar[5]arene-based host-guest recognition motif. <i>Tetrahedron Letters</i> , 2017, 58, 2217-2222.	0.7	10
51	A cavity extended water-soluble resorcin[4]arene: synthesis, pH-controlled complexation with paraquat, and application in controllable self-assembly. <i>New Journal of Chemistry</i> , 2017, 41, 916-919.	1.4	9
52	Reversible Iodine Capture by Nonporous Pillar[6]arene Crystals. <i>Journal of the American Chemical Society</i> , 2017, 139, 15320-15323.	6.6	230
53	A redox-responsive supramolecular amphiphile fabricated by selenium-containing pillar[5]arene-based host-guest recognition. <i>Organic Chemistry Frontiers</i> , 2017, 4, 2387-2391.	2.3	28
54	A redox-responsive selenium-containing pillar[5]arene-based macrocyclic amphiphile: synthesis, controllable self-assembly in water, and application in controlled release. <i>Chemical Communications</i> , 2017, 53, 8364-8367.	2.2	45

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55	A Water-Soluble Cyclotrimeratrylene-Based Supra-amphiphile: Synthesis, pH-Responsive Self-Assembly in Water, and Its Application in Controlled Drug Release. <i>Organic Letters</i> , 2016, 18, 2910-2913.	2.4	24
56	Nanoparticles with Near-Infrared Emission Enhanced by Pillararene-Based Molecular Recognition in Water. <i>Journal of the American Chemical Society</i> , 2016, 138, 80-83.	6.6	278
57	Supramolecular Construction of Multifluorescent Gels: Interfacial Assembly of Discrete Fluorescent Gels through Multiple Hydrogen Bonding. <i>Advanced Materials</i> , 2015, 27, 8062-8066.	11.1	118
58	A double supramolecular crosslinked polymer gel exhibiting macroscale expansion and contraction behavior and multistimuli responsiveness. <i>Polymer Chemistry</i> , 2015, 6, 1912-1917.	1.9	56
59	A β -ray and dual redox-responsive supramolecular polymer constructed by a selenium containing pillar[5]arene dimer and a neutral guest. <i>Chemical Communications</i> , 2015, 51, 11112-11114.	2.2	40
60	Formation of fluorescent supramolecular polymeric assemblies via orthogonal pillar[5]arene-based molecular recognition and metal ion coordination. <i>Chemical Communications</i> , 2015, 51, 4503-4506.	2.2	72
61	CO ₂ -Responsive Pillar[5]arene-Based Molecular Recognition in Water: Establishment and Application in Gas-Controlled Self-Assembly and Release. <i>Journal of the American Chemical Society</i> , 2015, 137, 10472-10475.	6.6	188
62	Macrocyclic amphiphiles. <i>Chemical Society Reviews</i> , 2015, 44, 3568-3587.	18.7	188
63	Supramolecular Amphiphiles Based on Host-Guest Molecular Recognition Motifs. <i>Chemical Reviews</i> , 2015, 115, 7240-7303.	23.0	869
64	An Ag ₂ O-responsive [2]pseudorotaxane based on the pillar[5]arene/bis(imidazolium) dication molecular recognition motif. <i>Tetrahedron Letters</i> , 2015, 56, 2091-2093.	0.7	7
65	A Cu ²⁺ specific metallohydrogel: preparation, multi-responsiveness and pillar[5]arene-induced morphology transformation. <i>Chemical Communications</i> , 2015, 51, 8461-8464.	2.2	37
66	A pH-responsive amphiphilic supramolecular graft copolymer constructed by crown ether based molecular recognition. <i>Polymer Chemistry</i> , 2015, 6, 218-222.	1.9	16
67	Water-soluble pillar[6]arene stabilized silver nanoparticles: preparation and application in amino acid detection. <i>Tetrahedron Letters</i> , 2014, 55, 3195-3199.	0.7	29
68	A CO ₂ -responsive pillar[5]arene: synthesis and self-assembly in water. <i>Chemical Communications</i> , 2014, 50, 5503.	2.2	43
69	Reversible assembly of silver nanoparticles driven by host-guest interactions based on water-soluble pillar[n]arenes. <i>Chemical Communications</i> , 2014, 50, 5072-5074.	2.2	32