

Ke Xie

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.

30
papers

2,227
citations

20
h-index

31
g-index

31
ext. papers

2,533
ext. citations

11.9
avg, IF

4.97
L-index

#	Paper	IF	Citations
30	Ultraporous Composite Membranes Enhanced Via Doping with Amorphous MOF Nanosheets. <i>ACS Central Science</i> , 2021 , 7, 671-680	16.8	7
29	Beneficial restacking of 2D nanomaterials for electrocatalysis: a case of MoS membranes. <i>Chemical Communications</i> , 2020 , 56, 7005-7008	5.8	12
28	Electrochemically-derived graphene oxide membranes with high stability and superior ionic sieving. <i>Chemical Communications</i> , 2019 , 55, 4075-4078	5.8	15
27	Enhancing plasticization-resistance of mixed-matrix membranes with exceptionally high CO ₂ /CH ₄ selectivity through incorporating ZSM-25 zeolite. <i>Journal of Membrane Science</i> , 2019 , 583, 23-30	9.6	30
26	Oxidation-Mediated Kinetic Strategies for Engineering Metal-Phenolic Networks. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12563-12568	16.4	37
25	Oxidation-Mediated Kinetic Strategies for Engineering Metal-Phenolic Networks. <i>Angewandte Chemie</i> , 2019 , 131, 12693-12698	3.6	4
24	Recent progress on fabrication methods of polymeric thin film gas separation membranes for CO ₂ capture. <i>Journal of Membrane Science</i> , 2019 , 572, 38-60	9.6	115
23	Continuous assembly of a polymer on a metal-organic framework (CAP on MOF): a 30 nm thick polymeric gas separation membrane. <i>Energy and Environmental Science</i> , 2018 , 11, 544-550	35.4	93
22	Li ⁺ /ZSM-25 Zeolite as a CO ₂ Capture Adsorbent with High Selectivity and Improved Adsorption Kinetics, Showing CO ₂ -Induced Framework Expansion. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 18933-18941	38.8	21
21	Synthesis of a novel hybrid adsorbent which combines activated carbon and zeolite NaUSY for CO ₂ capture by electric swing adsorption (ESA). <i>Chemical Engineering Journal</i> , 2018 , 336, 659-668	14.7	22
20	Ultrathin Metal-Organic Framework Nanosheets as a Gutter Layer for Flexible Composite Gas Separation Membranes. <i>ACS Nano</i> , 2018 , 12, 11591-11599	16.7	68
19	MOF Scaffold for a High-Performance Mixed-Matrix Membrane. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8597-8602	16.4	37
18	MOF Scaffold for a High-Performance Mixed-Matrix Membrane. <i>Angewandte Chemie</i> , 2018 , 130, 8733-8738	16.4	16
17	Pd(0) loaded Zn ₂ (azoBDC) ₂ (dabco) as a heterogeneous catalyst. <i>CrystEngComm</i> , 2017 , 19, 4182-4186	3.3	13
16	Trithiocarbonates as intrinsic photoredox catalysts and RAFT agents for oxygen tolerant controlled radical polymerization. <i>Polymer Chemistry</i> , 2017 , 8, 1519-1526	4.9	93
15	Increasing both selectivity and permeability of mixed-matrix membranes: Sealing the external surface of porous MOF nanoparticles. <i>Journal of Membrane Science</i> , 2017 , 535, 350-356	9.6	58
14	MOF-Mediated Destruction of Cancer Using the Cells Own Hydrogen Peroxide. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33599-33608	9.5	107

13	The use of reduced copper metal-organic frameworks to facilitate CuAAC click chemistry. <i>Chemical Communications</i> , 2016 , 52, 12226-12229	5.8	35
12	Exchange Method Using Acid-Solvent Synergy for Metal-Organic Framework Synthesis (EASY-MOFs) Based on a Typical Pillar-Layered Parent Structure. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 1466-1469	2.3	5
11	A comparative study on conversion of porous and non-porous metal-organic frameworks (MOFs) into carbon-based composites for carbon dioxide capture. <i>Polyhedron</i> , 2016 , 120, 30-35	2.7	20
10	CO ₂ separation using surface-functionalized SiO ₂ nanoparticles incorporated ultra-thin film composite mixed matrix membranes for post-combustion carbon capture. <i>Journal of Membrane Science</i> , 2016 , 515, 54-62	9.6	63
9	Poly(3,4-dinitrothiophene)/SWCNT composite as a low overpotential hydrogen evolution metal-free catalyst. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 78-82	13	21
8	Hydrophilic Hierarchical Nitrogen-Doped Carbon Nanocages for Ultrahigh Supercapacitive Performance. <i>Advanced Materials</i> , 2015 , 27, 3541-5	24	573
7	Synergistic effect of a r-GO/PANI nanocomposite electrode based air working ionic actuator with a large actuation stroke and long-term durability. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8380-8388	13	44
6	Synthesis of well dispersed polymer grafted metal-organic framework nanoparticles. <i>Chemical Communications</i> , 2015 , 51, 15566-9	5.8	62
5	High-performance all-carbon yarn micro-supercapacitor for an integrated energy system. <i>Advanced Materials</i> , 2014 , 26, 4100-6	24	198
4	Advanced carbon-based nanotubes/nanocages for energy conversion and storage: synthesis, performance and mechanism 2013 ,		1
3	Carbon nanocages as supercapacitor electrode materials. <i>Advanced Materials</i> , 2012 , 24, 347-52	24	441
2	Supercapacitor Nanostructures: Carbon Nanocages as Supercapacitor Electrode Materials (Adv. Mater. 3/2012). <i>Advanced Materials</i> , 2012 , 24, 346-346	24	6
1	Modified redox synthesis and electrochemical properties of potassium manganese oxide nanowires. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17904		8