Ke Xie

List of Publications by Citations

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	Hydrophilic Hierarchical Nitrogen-Doped Carbon Nanocages for Ultrahigh Supercapacitive Performance. *Advanced Materials*, **2015**, 27, 3541-5	24	573
29	Carbon nanocages as supercapacitor electrode materials. *Advanced Materials*, **2012**, 24, 347-52	24	441
28	High-performance all-carbon yarn micro-supercapacitor for an integrated energy system. *Advanced Materials*, **2014**, 26, 4100-6	24	198
27	Recent progress on fabrication methods of polymeric thin film gas separation membranes for CO2 capture. *Journal of Membrane Science*, **2019**, 572, 38-60	9.6	115
26	MOF-Mediated Destruction of Cancer Using the Cells Own Hydrogen Peroxide. *ACS Applied Materials & Interfaces*, **2017**, 9, 33599-33608	9.5	107
25	Trithiocarbonates as intrinsic photoredox catalysts and RAFT agents for oxygen tolerant controlled radical polymerization. *Polymer Chemistry*, **2017**, 8, 1519-1526	4.9	93
24	Continuous assembly of a polymer on a metal–organic framework (CAP on MOF): a 30 nm thick polymeric gas separation membrane. *Energy and Environmental Science*, **2018**, 11, 544-550	35.4	93
23	Ultrathin Metal-Organic Framework Nanosheets as a Gutter Layer for Flexible Composite Gas Separation Membranes. *ACS Nano*, **2018**, 12, 11591-11599	16.7	68
22	CO2 separation using surface-functionalized SiO2 nanoparticles incorporated ultra-thin film composite mixed matrix membranes for post-combustion carbon capture. *Journal of Membrane Science*, **2016**, 515, 54-62	9.6	63
21	Synthesis of well dispersed polymer grafted metal-organic framework nanoparticles. *Chemical Communications*, **2015**, 51, 15566-9	5.8	62
20	Increasing both selectivity and permeability of mixed-matrix membranes: Sealing the external surface of porous MOF nanoparticles. *Journal of Membrane Science*, **2017**, 535, 350-356	9.6	58
19	Synergistic effect of a r-GO/PANI nanocomposite electrode based air working ionic actuator with a large actuation stroke and long-term durability. *Journal of Materials Chemistry A*, **2015**, 3, 8380-8388	13	44
18	Oxidation-Mediated Kinetic Strategies for Engineering Metal-Phenolic Networks. *Angewandte Chemie - International Edition*, **2019**, 58, 12563-12568	16.4	37
17	MOF Scaffold for a High-Performance Mixed-Matrix Membrane. *Angewandte Chemie - International Edition*, **2018**, 57, 8597-8602	16.4	37
16	The use of reduced copper metal-organic frameworks to facilitate CuAAC click chemistry. *Chemical Communications*, **2016**, 52, 12226-12229	5.8	35
15	Enhancing plasticization-resistance of mixed-matrix membranes with exceptionally high CO2/CH4 selectivity through incorporating ZSM-25 zeolite. *Journal of Membrane Science*, **2019**, 583, 23-30	9.6	30
14	Synthesis of a novel hybrid adsorbent which combines activated carbon and zeolite NaUSY for CO2 capture by electric swing adsorption (ESA). *Chemical Engineering Journal*, **2018**, 336, 659-668	14.7	22

13	Poly(3,4-dinitrothiophene)/SWCNT composite as a low overpotential hydrogen evolution metal-free catalyst. *Journal of Materials Chemistry A*, **2015**, 3, 78-82	13	21
12	Li+/ZSM-25 Zeolite as a CO2 Capture Adsorbent with High Selectivity and Improved Adsorption Kinetics, Showing CO2-Induced Framework Expansion. *Journal of Physical Chemistry C*, **2018**, 122, 18933-18941	3.8	21
11	A comparative study on conversion of porous and non-porous metal–organic frameworks (MOFs) into carbon-based composites for carbon dioxide capture. *Polyhedron*, **2016**, 120, 30-35	2.7	20
10	MOF Scaffold for a High-Performance Mixed-Matrix Membrane. *Angewandte Chemie*, **2018**, 130, 8733-8738	3.8	16
9	Electrochemically-derived graphene oxide membranes with high stability and superior ionic sieving. *Chemical Communications*, **2019**, 55, 4075-4078	5.8	15
8	Pd(0) loaded Zn2(azoBDC)2(dabco) as a heterogeneous catalyst. *CrystEngComm*, **2017**, 19, 4182-4186	3.3	13
7	Beneficial restacking of 2D nanomaterials for electrocatalysis: a case of MoS membranes. *Chemical Communications*, **2020**, 56, 7005-7008	5.8	12
6	Modified redox synthesis and electrochemical properties of potassium manganese oxide nanowires. *Journal of Materials Chemistry*, **2011**, 21, 17904		8
5	Ultrapermeable Composite Membranes Enhanced Via Doping with Amorphous MOF Nanosheets. *ACS Central Science*, **2021**, 7, 671-680	16.8	7
4	Supercapacitor Nanostructures: Carbon Nanocages as Supercapacitor Electrode Materials (Adv. Mater. 3/2012). *Advanced Materials*, **2012**, 24, 346-346	24	6
3	Exchange Method Using Acid-Solvent Synergy for Metal–Organic Framework Synthesis (EASY-MOFs) Based on a Typical Pillar-Layered Parent Structure. *European Journal of Inorganic Chemistry*, **2016**, 2016, 1466-1469	2.3	5
2	Oxidation-Mediated Kinetic Strategies for Engineering Metal–Phenolic Networks. *Angewandte Chemie*, **2019**, 131, 12693-12698	3.6	4
1	Advanced carbon-based nanotubes/nanocages for energy conversion and storage: synthesis, performance and mechanism **2013**,		1