

Kean Wang

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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.

78
papers

2,069
citations

28
h-index

43
g-index

84
ext. papers

2,291
ext. citations

5.4
avg, IF

4.92
L-index

#	Paper	IF	Citations
78	Hollow fiber membrane decorated with Ag/MWNTs: toward effective water disinfection and biofouling control. <i>ACS Nano</i> , 2011 , 5, 10033-40	16.7	193
77	Surface activated carbon nanospheres for fast adsorption of silver ions from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2011 , 194, 162-8	12.8	138
76	Waste-cellulose-derived porous carbon adsorbents for methyl orange removal. <i>Chemical Engineering Journal</i> , 2019 , 371, 55-63	14.7	104
75	Covalent immobilization of nisin on multi-walled carbon nanotubes: superior antimicrobial and anti-biofilm properties. <i>Nanoscale</i> , 2011 , 3, 1874-80	7.7	92
74	Hydrogen storage in a NiB nanoalloy-doped three-dimensional graphene material. <i>Energy and Environmental Science</i> , 2011 , 4, 195-200	35.4	90
73	A new model for the description of adsorption kinetics in heterogeneous activated carbon. <i>Carbon</i> , 1998 , 36, 1539-1554	10.4	88
72	Chitosan composites for biomedical applications: status, challenges and perspectives. <i>Materials Science and Technology</i> , 2008 , 24, 1053-1061	1.5	76
71	Characterization of a zeolite-templated carbon for H ₂ storage application. <i>Microporous and Mesoporous Materials</i> , 2009 , 118, 503-507	5.3	55
70	Metal-organic framework/graphene oxide composite fillers in mixed-matrix membranes for CO ₂ separation. <i>Materials Chemistry and Physics</i> , 2018 , 212, 513-522	4.4	51
69	Molecular-Ion-Imprinted Chitosan Hydrogels for the Selective Adsorption of Silver(I) in Aqueous Solution. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 11261-11265	3.9	48
68	Characterizing the Micropore Size Distribution of Activated Carbon Using Equilibrium Data of Many Adsorbates at Various Temperatures. <i>Langmuir</i> , 1997 , 13, 6226-6233	4	43
67	Hydrogen storage in NiB nanoalloy-doped 2D graphene. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 12950-12954	6.7	41
66	Dual diffusion and finite mass exchange model for adsorption kinetics in activated carbon. <i>AIChE Journal</i> , 1998 , 44, 68-82	3.6	41
65	Chitosan membrane in separation applications. <i>Materials Science and Technology</i> , 2008 , 24, 1076-1087	1.5	40
64	An Ideal Adsorbed Solution Theory (IAST) Study of Adsorption Equilibria of Binary Mixtures of Methane and Ethane on a Templated Carbon. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 1209-1212 ³⁹	2.8	39
63	Effect of operating conditions on the removal of Pb ²⁺ by microporous titanosilicate ETS-10 in a fixed-bed column. <i>Journal of Colloid and Interface Science</i> , 2007 , 305, 218-25	9.3	39
62	Bovine Serum Albumin Adsorption on Gluteraldehyde Cross-Linked Chitosan Hydrogels. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 2356-2362	2.8	38

61	Comparison of models on the prediction of binary equilibrium data of activated carbons. <i>AIChE Journal</i> , 1998 , 44, 740-752	3.6	38
60	Methane storage in a template-synthesized carbon. <i>Separation and Purification Technology</i> , 2008 , 64, 124-126	8.3	36
59	Modeling of the adsorption breakthrough behaviors of Pb ²⁺ in a fixed bed of ETS-10 adsorbent. <i>Journal of Colloid and Interface Science</i> , 2008 , 325, 57-63	9.3	36
58	Role of interface in dispersion and surface energetics of polymer nanocomposites containing hydrophilic POSS and layered silicates. <i>Journal of Colloid and Interface Science</i> , 2011 , 355, 222-30	9.3	35
57	Surface functionalization-enhanced spillover effect on hydrogen storage of NiB nanoalloy-doped activated carbon. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13663-13668	6.7	33
56	Low-Cost Carbon Nanospheres for Efficient Removal of Organic Dyes from Aqueous Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 13438-13444	3.9	32
55	Nitrogen, Hydrogen, Carbon Dioxide, and Water Vapor Sorption Properties of Three-Dimensional Graphene. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 642-645	2.8	32
54	Pervaporation performance of novel chitosan-POSS hybrid membranes: Effects of POSS and operating conditions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 2185-2192	2.6	31
53	The Fixed-Bed Study of Dye Removal on Chitosan Beads at High pH. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 8796-8800	3.9	30
52	Biosorption of chitin and chitosan. <i>Materials Science and Technology</i> , 2008 , 24, 1088-1099	1.5	30
51	The structural characterization of carbon molecular sieve membrane (CMSM) via gas adsorption. <i>Journal of Membrane Science</i> , 2003 , 220, 177-182	9.6	28
50	Using Local IAST with Micropore Size Distribution To Predict Multicomponent Adsorption Equilibrium of Gases in Activated Carbon. <i>Langmuir</i> , 2000 , 16, 1292-1298	4	28
49	High-Pressure CO ₂ Adsorption on a Polymer-Derived Carbon Molecular Sieve. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2-4	2.8	24
48	Study of Binary Adsorption Equilibrium of Hydrocarbons in Activated Carbon Using Micropore Size Distribution. <i>Langmuir</i> , 2000 , 16, 5130-5136	4	24
47	Reversible hydrogen storage of multi-wall carbon nanotubes doped with atomically dispersed lithium. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6490		23
46	Methane storage in carbon pellets prepared via a binderless method. <i>Energy Conversion and Management</i> , 2011 , 52, 1258-1262	10.6	23
45	Characterization and diffusion behavior of chitosan-POSS composite membranes. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 427-435	2.9	22
44	The separation of oil in water (O/W) emulsions using polyether sulfone & nitrocellulose microfiltration membranes. <i>Journal of Water Process Engineering</i> , 2018 , 25, 113-117	6.7	21

43	Modified Chitosan Hydrogels for the Removal of Acid Dyes at High pH: Modification and Regeneration. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 6343-6346	3.9	21
42	Study of isosteric heat of adsorption and activation energy for surface diffusion of gases on activated carbon using equilibrium and kinetics information. <i>Separation and Purification Technology</i> , 2004 , 34, 165-176	8.3	21
41	Enhanced mechanical properties of novel chitosan nanocomposite fibers. <i>Carbohydrate Polymers</i> , 2011 , 86, 1151-1156	10.3	19
40	On the performance of HIAST and IAST in the prediction of multicomponent adsorption equilibria. <i>Separation and Purification Technology</i> , 2000 , 20, 243-249	8.3	19
39	Application of IAST in the Prediction of Multicomponent Adsorption Equilibrium of Gases in Heterogeneous Solids: Micropore Size Distribution versus Energy Distribution. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 527-532	3.9	18
38	The separation of GMP from milk whey using the modified chitosan beads. <i>Adsorption</i> , 2010 , 16, 85-91	2.6	17
37	Removal of phenolic contaminants from water by pervaporation. <i>Journal of Membrane Science</i> , 2021 , 623, 119043	9.6	14
36	Synthesizing Vitamin E Molecularly Imprinted Polymers via Precipitation Polymerization. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 1045-1050	2.8	13
35	Investigation of surface properties of plasma-modified polyamide 6 and polyamide 6/layered silicate nanocomposites. <i>Journal of Materials Science</i> , 2011 , 46, 3084-3093	4.3	12
34	Adsorption Properties of the SAPO-5 Molecular Sieve. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 3286-3289	2.8	11
33	Predictions of Adsorption Equilibria of Nonpolar Hydrocarbons onto Activated Carbon. <i>Langmuir</i> , 1998 , 14, 7271-7277	4	10
32	Molecularly imprinted polymer microspheres prepared via the two-step swelling polymerization for the separation of lincomycin. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47938	2.9	9
31	Abrasion studies of nylon 6/montmorillonite nanocomposites using scanning electron microscopy, fourier transform infrared spectroscopy, and X-ray photoelectron spectroscopy. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 3286-3293	2.9	9
30	Selection of a practical assay for the determination of the entire range of acetyl content in chitin and chitosan: UV spectrophotometry with phosphoric acid as solvent. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 86, 558-68	3.5	9
29	The separation of oily water using low-cost natural materials: Review and development. <i>Chemosphere</i> , 2021 , 285, 131398	8.4	9
28	Surface functionalized carbon microspheres for the recovery of copper ion from refinery wastewater. <i>Korean Journal of Chemical Engineering</i> , 2018 , 35, 147-152	2.8	8
27	The structural characterization of a CMS membrane using Ar sorption and permeation. <i>Journal of Membrane Science</i> , 2009 , 335, 1-4	9.6	8
26	CO2 Permeation in Carbon Membranes with Different Degrees of Carbonization. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 1402-1407	3.9	8

25	The structural development of zeolite-templated carbon under pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 100, 153-157	6	7
24	UV-TiO ₂ treatment of the cooling water of an oil refinery. <i>Journal of Water Process Engineering</i> , 2018 , 26, 176-181	6.7	7
23	Synthesis and characterization of activated carbons prepared from benzene CVD on zeolite Y. <i>Journal of Porous Materials</i> , 2012 , 19, 211-215	2.4	6
22	Equilibria and kinetics characterisation of two different structured nutshell-derived activated carbons. <i>Adsorption</i> , 1997 , 3, 267-275	2.6	6
21	The importance of finite adsorption kinetics in the sorption of hydrocarbon gases onto a nutshell-derived activated carbon. <i>Chemical Engineering Science</i> , 2007 , 62, 6836-6842	4.4	6
20	Discrimination of Adsorption Kinetic Models for the Description of Hydrocarbon Adsorption in Activated Carbon. <i>Adsorption</i> , 2001 , 7, 51-63	2.6	6
19	Preparation and morphology study of carbon molecular sieve membrane derived from polyimide. <i>Canadian Journal of Chemical Engineering</i> , 2017 , 95, 1993-1998	2.3	5
18	Energy gas storage in template-synthesized carbons with different porous structures. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 527-531	2.3	5
17	How Sensitive Is the Elasticity of Hydroxyapatite-Nanoparticle-Reinforced Chitosan Composite to Changes in Particle Concentration and Crystallization Temperature?. <i>Journal of Functional Biomaterials</i> , 2015 , 6, 986-98	4.8	5
16	Adsorption kinetics of methane on a template-synthesized carbon powder and its pellet. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2011 , 6, 294-300	1.3	5
15	Sorption Properties of a Single Wall Carbon Nanotube. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2451-2453	2.8	5
14	Permeation time lag in polymeric hollow fiber membranes. <i>Journal of Membrane Science</i> , 2006 , 283, 425-429	4.8	4
13	Gas permeation in hollow fiber membranes with nonlinear sorption isotherm and concentration dependent diffusion coefficient. <i>Journal of Membrane Science</i> , 2005 , 267, 99-103	9.6	4
12	Sorption Equilibria and Kinetics of Hydrocarbons onto Activated Carbon Samples Having Different Micropore Size Distributions. <i>Adsorption</i> , 1999 , 5, 25-37	2.6	4
11	Salt-free synthesis of Cu-BTC metal-organic framework exhibiting mesoporosity and enhanced carbon dioxide adsorption. <i>Microporous and Mesoporous Materials</i> , 2021 , 324, 111265	5.3	4
10	A Comparative Analysis of the Reinforcing Efficiency of Silsesquioxane Nanoparticles versus Apatite Nanoparticles in Chitosan Biocomposite Fibres. <i>Journal of Composites Science</i> , 2017 , 1, 9	3	3
9	Diffusion anomaly and blind pore character in carbon molecular sieve membrane. <i>Chemical Engineering Science</i> , 2007 , 62, 3654-3659	4.4	3
8	The ideal selectivity vs true selectivity for permeation of gas mixture in nanoporous membranes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 323, 012002	0.4	2

7	The equilibrium and fixed-bed study of malachite green adsorption on chitosan hydrogels. <i>Water Science and Technology</i> , 2019 , 79, 1571-1579	2.2	1
6	Carbon Spheres for the Removal of Heavy Metal Ions From Refinery Effluents. <i>Journal of Chemical Engineering Research Updates</i> , 2014 , 1, 35-45	0.3	1
5	Carbon molecular sieve membranes for natural gas purification: Role of surface flow. <i>Canadian Journal of Chemical Engineering</i> , 2020 , 98, 775-784	2.3	1
4	Measuring the permeabilities of binary gas mixtures with a novel time-lag technique. <i>Canadian Journal of Chemical Engineering</i> ,	2.3	1
3	Synthesizing molecularly imprinted polymer beads for the purification of vitamin E. <i>Particuology</i> , 2021 , 57, 10-18	2.8	1
2	Synthesis of novel hybrid films of a layered silicate and alkylammonium cations on rough polymeric surfaces by Langmuir-Blodgett method. <i>Journal of Colloid and Interface Science</i> , 2009 , 340, 249-53	9.3	
1	Energy Gas Storage in Porous Polymers 215-248		