

Seda Keskin

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.

149
papers

6,503
citations

41
h-index

76
g-index

160
ext. papers

7,703
ext. citations

6.7
avg, IF

6.87
L-index

#	Paper	IF	Citations
149	Multi-scale computational screening to accelerate discovery of IL/COF composites for CO ₂ /N ₂ separation. <i>Separation and Purification Technology</i> , 2022 , 287, 120578	8.3	0
148	Composites of porous materials with ionic liquids: Synthesis, characterization, applications, and beyond. <i>Microporous and Mesoporous Materials</i> , 2022 , 332, 111703	5.3	4
147	MOF adsorbents for flue gas separation: Comparison of material ranking approaches. <i>Chemical Engineering Research and Design</i> , 2022 , 179, 308-318	5.5	1
146	MOF Membranes for CO ₂ Capture: Past, Present and Future. <i>Carbon Capture Science & Technology</i> , 2022 , 2, 100026		6
145	Hypothetical yet effective: Computational identification of high-performing MOFs for CO ₂ capture. <i>Computers and Chemical Engineering</i> , 2022 , 160, 107705	4	1
144	Assessing CH ₄ /N ₂ separation potential of MOFs, COFs, IL/MOF, MOF/Polymer, and COF/Polymer composites. <i>Chemical Engineering Journal</i> , 2022 , 428, 131239	14.7	12
143	Accelerating discovery of COFs for CO ₂ capture and H ₂ purification using structurally guided computational screening. <i>Chemical Engineering Journal</i> , 2022 , 427, 131574	14.7	6
142	[BMIM][OAc] coating layer makes activated carbon almost completely selective for CO ₂ . <i>Chemical Engineering Journal</i> , 2022 , 437, 135436	14.7	3
141	Metal-Organic Frameworks for Hydrogen Storage 2022 , 1-35		
140	Computational insights into efficient CO ₂ and H ₂ S capture through zirconium MOFs. <i>Journal of CO₂ Utilization</i> , 2021 , 55, 101811	7.6	0
139	Enhanced water stability and high CO storage capacity of a Lewis basic sites-containing zirconium metal-organic framework. <i>Dalton Transactions</i> , 2021 , 50, 16587-16592	4.3	1
138	Effect of Metal-Organic Framework (MOF) Database Selection on the Assessment of Gas Storage and Separation Potentials of MOFs. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7828-7837	16.4	42
137	Effect of Metal-Organic Framework (MOF) Database Selection on the Assessment of Gas Storage and Separation Potentials of MOFs. <i>Angewandte Chemie</i> , 2021 , 133, 7907-7916	3.6	11
136	Doubling CO ₂ /N ₂ separation performance of CuBTC by incorporation of 1-n-ethyl-3-methylimidazolium diethyl phosphate. <i>Microporous and Mesoporous Materials</i> , 2021 , 316, 110947	5.3	7
135	Machine Learning Meets with Metal Organic Frameworks for Gas Storage and Separation. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 2131-2146	6.1	25
134	Metal Exchange Boosts the CO Selectivity of Metal Organic Frameworks Having Zn-Oxide Nodes. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 17311-17322	3.8	
133	Oxalamide-Functionalized Metal Organic Frameworks for CO Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33188-33198	9.5	5

132	Exploring the performance limits of MOF/polymer MMMs for O ₂ /N ₂ separation using computational screening. <i>Journal of Membrane Science</i> , 2021 , 618, 118555	9.6	16
131	MOF materials as therapeutic agents, drug carriers, imaging agents and biosensors in cancer biomedicine: Recent advances and perspectives. <i>Progress in Materials Science</i> , 2021 , 117, 100743	42.2	29
130	A new class of porous materials for efficient CO ₂ separation: Ionic liquid/graphene aerogel composites. <i>Carbon</i> , 2021 , 171, 79-87	10.4	13
129	Zr-MOFs for CF/CH, CH/H, and CH/N separation: towards the goal of discovering stable and effective adsorbents. <i>Molecular Systems Design and Engineering</i> , 2021 , 6, 627-642	4.6	2
128	Recent advances in simulating gas permeation through MOF membranes. <i>Materials Advances</i> , 2021 , 2, 5300-5317	3.3	3
127	Combined GCMC, MD, and DFT Approach for Unlocking the Performances of COFs for Methane Purification. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 12999-13012	3.9	2
126	MOF-based MMMs Breaking the Upper Bounds of Polymers for a Large Variety of Gas Separations. <i>Separation and Purification Technology</i> , 2021 , 119811	8.3	3
125	Computational Screening of MOFs for CO ₂ Capture 2021 , 205-238		
124	Role of partial charge assignment methods in high-throughput screening of MOF adsorbents and membranes for CO ₂ /CH ₄ separation. <i>Molecular Systems Design and Engineering</i> , 2020 , 5, 532-543	4.6	22
123	Towards complete elucidation of structural factors controlling thermal stability of IL/MOF composites: Effects of ligand functionalization on MOFs. <i>Journal of Physics Condensed Matter</i> , 2020 ,	1.8	4
122	Influence of anion size and electronic structure on the gas separation performance of ionic liquid/ZIF-8 composites. <i>Microporous and Mesoporous Materials</i> , 2020 , 306, 110446	5.3	9
121	Unlocking the Effect of HO on CO Separation Performance of Promising MOFs Using Atomically Detailed Simulations. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 3141-3152	3.9	12
120	Fast and Selective Adsorption of Methylene Blue from Water Using [BMIM][PF ₆]-Incorporated UiO-66 and NH ₂ -UiO-66. <i>Crystal Growth and Design</i> , 2020 , 20, 3590-3595	3.5	13
119	CO ₂ separation from flue gas mixture using [BMIM][BF ₄]/MOF composites: Linking high-throughput computational screening with experiments. <i>Chemical Engineering Journal</i> , 2020 , 394, 124916	14.7	28
118	Recent advances in materials for high purity H ₂ production by ethanol and glycerol steam reforming. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 34888-34917	6.7	13
117	Recent advances in sustainable syngas production by catalytic CO ₂ reforming of ethanol and glycerol. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1029-1047	5.8	15
116	Can COFs replace MOFs in flue gas separation? high-throughput computational screening of COFs for CO ₂ /N ₂ separation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 14609-14623	13	25
115	Revealing the effect of structure curations on the simulated CO ₂ separation performances of MOFs. <i>Materials Advances</i> , 2020 , 1, 341-353	3.3	11

114	Recent advances, opportunities, and challenges in high-throughput computational screening of MOFs for gas separations. <i>Coordination Chemistry Reviews</i> , 2020 , 422, 213470	23.2	56
113	Computational Selection of High-Performing Covalent Organic Frameworks for Adsorption and Membrane-Based CO/H Separation. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 22577-22590	3.8	17
112	Do New MOFs Perform Better for CO Capture and H Purification? Computational Screening of the Updated MOF Database. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41567-41579	9.5	27
111	Enhanced Water Purification Performance of Ionic Liquid Impregnated Metal-Organic Framework: Dye Removal by [BMIM][PF]/MIL-53(Al) Composite. <i>Frontiers in Chemistry</i> , 2020 , 8, 622567	5	2
110	Simulation of H/CH mixture permeation through MOF membranes using non-equilibrium molecular dynamics. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2301-2314	13	22
109	Unlocking CO ₂ separation performance of ionic liquid/CuBTC composites: Combining experiments with molecular simulations. <i>Chemical Engineering Journal</i> , 2019 , 373, 1179-1189	14.7	30
108	Large-Scale Computational Screening of Metal Organic Framework (MOF) Membranes and MOF-Based Polymer Membranes for H ₂ /N ₂ Separations. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 9525-9536	8.3	38
107	Improving CO Separation Performance of MIL-53(Al) by Incorporating 1-Butyl-3-Methylimidazolium Methyl Sulfate. <i>Energy Technology</i> , 2019 , 7, 1900157	3.5	16
106	An extensive comparative analysis of two MOF databases: high-throughput screening of computation-ready MOFs for CH ₄ and H ₂ adsorption. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9593-9608	13	60
105	Analysis of CH Uptake over Metal-Organic Frameworks Using Data-Mining Tools. <i>ACS Combinatorial Science</i> , 2019 , 21, 257-268	3.9	11
104	Selection rules for estimating the solubility of C ₄ -hydrocarbons in imidazolium ionic liquids determined by machine-learning tools. <i>Journal of Molecular Liquids</i> , 2019 , 284, 511-521	6	7
103	Reply to Comment on "Database for CO Separation Performances of MOFs Based on Computational Materials Screening". <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 16266-16271	9.5	3
102	A Review on Computational Modeling Tools for MOF-Based Mixed Matrix Membranes. <i>Computation</i> , 2019 , 7, 36	2.2	8
101	MIL-53(Al) as a Versatile Platform for Ionic-Liquid/MOF Composites to Enhance CO Selectivity over CH ₄ and N ₂ . <i>Chemistry - an Asian Journal</i> , 2019 , 14, 3655-3667	4.5	19
100	Structural Factors Determining Thermal Stability Limits of Ionic Liquid/MOF Composites: Imidazolium Ionic Liquids Combined with CuBTC and ZIF-8. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 14124-14138	3.9	15
99	High-Throughput Screening of Metal Organic Frameworks as Fillers in Mixed Matrix Membranes for Flue Gas Separation. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1900109	3.5	10
98	In Silico Design of Metal Organic Frameworks with Enhanced CO ₂ Separation Performances: Role of Metal Sites. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 28255-28265	3.8	7
97	Evaluating Charge Equilibration Methods To Generate Electrostatic Fields in Nanoporous Materials. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 382-401	6.4	33

96	Molecular Simulations of MOF Membranes and Performance Predictions of MOF/Polymer Mixed Matrix Membranes for CO/CH Separations. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2739-2750	8.3	48
95	Effects of Force Field Selection on the Computational Ranking of MOFs for CO Separations. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 2298-2309	3.9	25
94	High-Throughput Computational Screening of the Metal Organic Framework Database for CH/H Separations. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3668-3679	9.5	70
93	Database for CO Separation Performances of MOFs Based on Computational Materials Screening. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17257-17268	9.5	90
92	Computer simulations of 4240 MOF membranes for H/CH separations: insights into structure-performance relations. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5836-5847	13	37
91	Modeling and simulation of water-gas shift in a heat exchange integrated microchannel converter. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 1094-1104	6.7	20
90	Efficient separation of helium from methane using MOF membranes. <i>Separation and Purification Technology</i> , 2018 , 191, 192-199	8.3	30
89	High-Throughput Molecular Simulations of Metal Organic Frameworks for CO ₂ Separation: Opportunities and Challenges. <i>Frontiers in Materials</i> , 2018 , 5,	4	21
88	Core-Shell Type Ionic Liquid/Metal Organic Framework Composite: An Exceptionally High CO/CH Selectivity. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10113-10116	16.4	73
87	Computational Screening of MOFs for Acetylene Separation. <i>Frontiers in Chemistry</i> , 2018 , 6, 36	5	16
86	Effect of methylation of ionic liquids on the gas separation performance of ionic liquid/metal-organic framework composites. <i>CrystEngComm</i> , 2018 , 20, 7137-7143	3.3	16
85	An Emerging Family of Hybrid Nanomaterials: Metal Organic Framework/Aerogel Composites. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5959-5980	5.6	47
84	High-Throughput Screening of MOF Adsorbents and Membranes for H Purification and CO Capture. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33693-33706	9.5	79
83	Enhancing CO ₂ /CH ₄ and CO ₂ /N ₂ separation performances of ZIF-8 by post-synthesis modification with [BMIM][SCN]. <i>Polyhedron</i> , 2018 , 155, 485-492	2.7	29
82	Computational Screening of Metal-Organic Frameworks for Membrane-Based CO/N/HO Separations: Best Materials for Flue Gas Separation. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 17347-17357	3.8	66
81	The role of ovarian reserve markers in prediction of clinical pregnancy. <i>Journal of Obstetrics and Gynaecology</i> , 2017 , 37, 492-497	1.3	6
80	Molecular simulations of MOF adsorbents and membranes for noble gas separations. <i>Chemical Engineering Science</i> , 2017 , 164, 108-121	4.4	27
79	Improving Gas Separation Performance of ZIF-8 by [BMIM][BF ₄] Incorporation: Interactions and Their Consequences on Performance. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10370-10381	3.8	70

78	Ionic Liquid/Metal-Organic Framework Composites: From Synthesis to Applications. <i>ChemSusChem</i> , 2017 , 10, 2842-2863	8.3	138
77	Molecular Modeling of MOF Membranes for Gas Separations 2017 , 97-143		
76	Toward Rational Design of Ionic Liquid/Metal-Organic Framework Composites: Effects of Interionic Interaction Energy. <i>ACS Omega</i> , 2017 , 2, 6613-6618	3.9	21
75	Computational investigation of metal organic frameworks for storage and delivery of anticancer drugs. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 7342-7351	7.3	37
74	Molecular simulations of MOF membranes for separation of ethane/ethene and ethane/methane mixtures. <i>RSC Advances</i> , 2017 , 7, 52283-52295	3.7	15
73	Adsorption- and Membrane-Based CH ₄ /N ₂ Separation Performances of MOFs. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 8713-8722	3.9	26
72	A new approach for predicting gas separation performances of MOF membranes. <i>Journal of Membrane Science</i> , 2016 , 519, 45-54	9.6	14
71	Numerical solution techniques 2016 , 253-268		
70	[BMIM][PF] Incorporation Doubles CO Selectivity of ZIF-8: Elucidation of Interactions and Their Consequences on Performance. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30992-31005	9.5	89
69	Computational assessment of MOF membranes for CH ₄ /H ₂ separations. <i>Journal of Membrane Science</i> , 2016 , 514, 313-321	9.6	29
68	Computational Methods for MOF/Polymer Membranes. <i>Chemical Record</i> , 2016 , 16, 703-18	6.6	13
67	Tuning the Gas Separation Performance of CuBTC by Ionic Liquid Incorporation. <i>Langmuir</i> , 2016 , 32, 1139-47	8.5	
66	Efficient Storage of Drug and Cosmetic Molecules in Biocompatible Metal Organic Frameworks: A Molecular Simulation Study. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 1929-1939	3.9	53
65	Computational screening of MOFs for C ₂ H ₆ /C ₂ H ₄ and C ₂ H ₆ /CH ₄ separations. <i>Chemical Engineering Science</i> , 2016 , 139, 49-60	4.4	47
64	Computational Screening of MOF-Based Mixed Matrix Membranes for CO ₂ /N ₂ Separations. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-12	3.2	15
63	Ranking of MOF Adsorbents for CO ₂ Separations: A Molecular Simulation Study. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 10404-10419	3.9	43
62	A zinc(II) metal organic framework based on flexible o-phenylenediacetate and rigid 4,4'-azobis(pyridine) ligands: Synthesis, crystal structure and hydrogen gas adsorption property. <i>Polyhedron</i> , 2015 , 100, 108-113	2.7	7
61	Molecular simulations of porous coordination network-based mixed matrix membranes for CO ₂ /N ₂ separations. <i>Molecular Simulation</i> , 2015 , 41, 1396-1408	2	9

60	Computational Modeling of bio-MOFs for CO ₂ /CH ₄ separations. <i>Chemical Engineering Science</i> , 2015 , 130, 120-128	4.4	22
59	Identifying Highly Selective Metal Organic Frameworks for CH ₄ /H ₂ Separations Using Computational Tools. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 8479-8491	3.9	41
58	Opportunities and challenges of MOF-based membranes in gas separations. <i>Separation and Purification Technology</i> , 2015 , 152, 207-237	8.3	182
57	Effects of molecular simulation parameters on predicting gas separation performance of ZIFs. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 1707-1718	3.5	8
56	Computational screening of ZIFs for CO ₂ separations. <i>Molecular Simulation</i> , 2015 , 41, 713-726	2	20
55	Simulation and modelling of MOFs for hydrogen storage. <i>CrystEngComm</i> , 2015 , 17, 261-275	3.3	77
54	Application of MD Simulations to Predict Membrane Properties of MOFs. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-9	3.2	19
53	A phytochemical-containing metal-organic framework: Synthesis, characterization and molecular simulations for hydrogen adsorption. <i>Inorganica Chimica Acta</i> , 2015 , 427, 138-143	2.7	19
52	Multivariable linear models of structural parameters to predict methane uptake in metal-organic frameworks. <i>Chemical Engineering Science</i> , 2015 , 124, 125-134	4.4	36
51	Molecular Modeling of Metal-Organic Frameworks for Carbon Dioxide Separation Applications 2015 , 339-379		
50	2D-3D polycatenated and 3D-3D interpenetrated metal-organic frameworks constructed from thiophene-2,5-dicarboxylate and rigid bis(imidazole) ligands. <i>Journal of Solid State Chemistry</i> , 2014 , 210, 261-266	3.3	27
49	Site characteristics in metal organic frameworks for gas adsorption. <i>Progress in Surface Science</i> , 2014 , 89, 56-79	6.6	71
48	Effects of electrostatic interactions on gas adsorption and permeability of MOF membranes. <i>Molecular Simulation</i> , 2014 , 40, 557-570	2	18
47	Gas adsorption/separation properties of metal directed self-assembly of two coordination polymers with 5-nitroisophthalate. <i>Journal of Solid State Chemistry</i> , 2014 , 210, 280-286	3.3	17
46	Computational Screening of Porous Coordination Networks for Adsorption and Membrane-Based Gas Separations. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 13988-13997	3.8	24
45	Molecular modeling of MOF and ZIF-filled MMMs for CO ₂ /N ₂ separations. <i>Journal of Membrane Science</i> , 2014 , 454, 407-417	9.6	36
44	Molecular Modeling of MOF-based Mixed Matrix Membranes. <i>Current Organic Chemistry</i> , 2014 , 18, 2364-2380	7	
43	Recent advances in metal-organic framework-based mixed matrix membranes. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 1692-704	4.5	83

42	Predicting Gas Separation Performances of Porous Coordination Networks Using Atomistic Simulations. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 17627-17639	3.9	19
41	Gas adsorption and diffusion in a highly CO ₂ selective metal-organic framework: molecular simulations. <i>Molecular Simulation</i> , 2013 , 39, 14-24	2	16
40	Predicting Noble Gas Separation Performance of Metal Organic Frameworks Using Theoretical Correlations. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 5229-5241	3.8	28
39	Novel nanostructured composites of silica aerogels with a metal organic framework. <i>Microporous and Mesoporous Materials</i> , 2013 , 170, 352-358	5.3	46
38	High CO ₂ Selectivity of an Amine-Functionalized Metal Organic Framework in Adsorption-Based and Membrane-Based Gas Separations. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 3462-3472	3.9	41
37	Construction of homo- and heterometallic-pyridine-2,3-dicarboxylate metallosupramolecular networks with structural diversity: 1D T5(2) water tape and unexpected coordination mode of pyridine-2,3-dicarboxylate. <i>CrystEngComm</i> , 2013 , 15, 1244	3.3	16
36	Synthesis, crystal structures, molecular simulations for hydrogen gas adsorption, fluorescent and antimicrobial properties of pyrazine-2,3-dicarboxylate complexes. <i>Inorganica Chimica Acta</i> , 2013 , 399, 19-35	2.7	14
35	A two-dimensional photoluminescent cadmium(II) coordination polymer containing a new coordination mode of pyridine-2,3-dicarboxylate: Synthesis, structure and molecular simulations for gas storage and separation applications. <i>Polyhedron</i> , 2013 , 50, 314-320	2.7	35
34	The synthesis, characterization, and theoretical hydrogen gas adsorption properties of copper(II)-3,3'-thiodipropionate complexes with imidazole derivatives. <i>Journal of Coordination Chemistry</i> , 2013 , 66, 4093-4106	1.6	6
33	Computational screening of metal organic frameworks for mixed matrix membrane applications. <i>Journal of Membrane Science</i> , 2012 , 407-408, 221-230	9.6	40
32	Predicting the Performance of Zeolite Imidazolate Framework/Polymer Mixed Matrix Membranes for CO ₂ , CH ₄ , and H ₂ Separations Using Molecular Simulations. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 14218-14228	3.9	58
31	Adsorption, Diffusion, and Separation of CH ₄ /H ₂ Mixtures in Covalent Organic Frameworks: Molecular Simulations and Theoretical Predictions. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1772-1779 ^{3.8}	3.8	57
30	A three-dimensional silver(I) framework assembled from 3,3'-thiodipropionate: Synthesis, structure and molecular simulations for hydrogen gas adsorption. <i>Polyhedron</i> , 2012 , 45, 103-106	2.7	11
29	Understanding the Potential of Zeolite Imidazolate Framework Membranes in Gas Separations Using Atomically Detailed Calculations. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15525-15537	3.8	37
28	An unusual 3D metal-organic framework, {[Ag ₄ (μ ₃ -pzdc) ₂ (μ ₂ -en) ₂]·H ₂ O} _n : C ^{II} Ag, N ^{II} Ag and (O ^{II})Ag interactions and an unprecedented coordination mode for pyrazine-2,3-dicarboxylate. <i>CrystEngComm</i> , 2012 , 14, 2817	3.3	34
27	Different dimensionality in Mn(II), Co(II) and Ni(II) aminoisophthalate metal-organic compounds: Synthesis, characterization and gas adsorption properties. <i>Polyhedron</i> , 2012 , 48, 199-211	2.7	9
26	Atomically Detailed Models for Transport of Gas Mixtures in ZIF Membranes and ZIF/Polymer Composite Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 3091-3100	3.9	34
25	Atomically Detailed Modeling of Metal Organic Frameworks for Adsorption, Diffusion, and Separation of Noble Gas Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 7373-7382 ^{3.9}	3.9	45

24	Recent Advances in Molecular Dynamics Simulations of Gas Diffusion in Metal Organic Frameworks 2012 ,		2
23	Parametric study of methane steam reforming to syngas in a catalytic microchannel reactor. <i>Applied Catalysis A: General</i> , 2012 , 411-412, 114-122	5.1	28
22	Atomistic Simulations for Adsorption, Diffusion, and Separation of Gas Mixtures in Zeolite Imidazolate Frameworks. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 800-807	3.8	76
21	Biomedical Applications of Metal Organic Frameworks. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 1799-1812	3.9	420
20	Screening Metal Organic Framework-Based Mixed-Matrix Membranes for CO ₂ /CH ₄ Separations. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 12606-12616	3.9	59
19	High CO ₂ Selectivity of A Microporous Metal Imidazolate Framework: A Molecular Simulation Study. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 8230-8236	3.9	24
18	Molecular Simulations and Theoretical Predictions for Adsorption and Diffusion of CH ₄ /H ₂ and CO ₂ /CH ₄ Mixtures in ZIFs. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 12560-12566	3.8	95
17	Adsorption and Transport of CH ₄ , CO ₂ , H ₂ Mixtures in a Bio-MOF Material from Molecular Simulations. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 6833-6840	3.8	64
16	Two novel 2D and 3D coordination polymers constructed from pyrazine-2,3-dicarboxylic acid and chloride bridged secondary building units. <i>Synthetic Metals</i> , 2011 , 161, 2471-2480	3.6	11
15	Separation of CO ₂ Mixtures Using Zn(bdc)(ted) _{0.5} Membranes and Composites: A Molecular Simulation Study. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 13637-13644	3.8	22
14	Comparing Performance of CPO and IRMOF Membranes for Gas Separations Using Atomistic Models. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 11689-11696	3.9	20
13	Selecting metal organic frameworks as enabling materials in mixed matrix membranes for high efficiency natural gas purification. <i>Energy and Environmental Science</i> , 2010 , 3, 343	35.4	159
12	Molecular Simulation Study of CH ₄ /H ₂ Mixture Separations Using Metal Organic Framework Membranes and Composites. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13047-13054	3.8	32
11	Can metal-organic framework materials play a useful role in large-scale carbon dioxide separations?. <i>ChemSusChem</i> , 2010 , 3, 879-91	8.3	518
10	Atomically detailed models of gas mixture diffusion through CuBTC membranes. <i>Microporous and Mesoporous Materials</i> , 2009 , 125, 101-106	5.3	86
9	Efficient methods for screening of metal organic framework membranes for gas separations using atomically detailed models. <i>Langmuir</i> , 2009 , 25, 11786-95	4	149
8	Assessment of a Metal Organic Framework Membrane for Gas Separations Using Atomically Detailed Calculations: CO ₂ , CH ₄ , N ₂ , H ₂ Mixtures in MOF-5. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 914-922	3.9	129
7	Progress, Opportunities, and Challenges for Applying Atomically Detailed Modeling to Molecular Adsorption and Transport in Metal Organic Framework Materials. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 2355-2371	3.9	270

6	Computational identification of a metal organic framework for high selectivity membrane-based CO ₂ /CH ₄ separations: Cu(hfipbb)(H ₂ hfipbb) _{0.5} . <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 11389-94	3.6	77
5	Testing the accuracy of correlations for multicomponent mass transport of adsorbed gases in metal-organic frameworks: diffusion of H ₂ /CH ₄ mixtures in CuBTC. <i>Langmuir</i> , 2008 , 24, 8254-61	4	64
4	Soil remediation via an ionic liquid and supercritical CO ₂ . <i>Chemical Engineering and Processing: Process Intensification</i> , 2008 , 47, 1693-1704	3.7	18
3	A review of ionic liquids towards supercritical fluid applications. <i>Journal of Supercritical Fluids</i> , 2007 , 43, 150-180	4.2	59 ¹
2	Screening Metal-Organic Framework Materials for Membrane-based Methane/Carbon Dioxide Separations. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14055-14059	3.8	173
1	How Reproducible are Surface Areas Calculated from the BET Equation?. <i>Advanced Materials</i> , 2201502	2.4	12