Freek Kapteijn

List of Publications by Year in descending order

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645 papers	55,611 citations	1099 112 h-index	1934 207 g-index
700 all docs	700 docs citations	700 times ranked	35004 citing authors

#	Article	IF	Citations
1	Structured catalysts and reactors â€“ Perspectives for demanding applications. Catalysis Today, 2022, 383, 5-14.	4.4	60
2	Multivariate sodalite zeolitic imidazolate frameworks: a direct solvent-free synthesis. Chemical Science, 2022, 13, 842-847.	7.4	13
3	Zeolite Membranes â€“ The Importance of Support Analysis. Chemie-Ingenieur-Technik, 2022, 94, 23-30.	0.8	7
4	High Stability of Methanol to Aromatic Conversion over Bimetallic Ca,Ga-Modified ZSM-5. ACS Catalysis, 2022, 12, 3189-3200.	11.2	28
5	An integrated approach to the key parameters in methanol-to-olefins reaction catalyzed by MFI/MEL zeolite materials. Chinese Journal of Catalysis, 2022, 43, 1879-1893.	14.0	6
6	Selective CO 2 Sorption Using Compartmentalized Coordination Polymers with Discrete Voids**. Chemistry - A European Journal, 2021, 27, 4653-4659.	3.3	5
7	Surface functionalized N-C-TiO2/C nanocomposites derived from metal-organic framework in water vapour for enhanced photocatalytic H2 generation. Journal of Energy Chemistry, 2021, 57, 485-495.	12.9	38
8	Rapid fabrication of MOF-based mixed matrix membranes through digital light processing. Materials Advances, 2021, 2, 2739-2749.	5.4	12
9	Bimetalâ€“organic framework derived multi-heterostructured TiO₂/Cu_xO/C nanocomposites with superior photocatalytic H₂generation performance. Journal of Materials Chemistry A, 2021, 9, 4103-4116.	10.3	37
10	Highâ€Silica CHA Zeolite Membrane with Ultraâ€High Selectivity and Irradiation Stability for Krypton/Xenon Separation. Angewandte Chemie - International Edition, 2021, 60, 9032-9037.	13.8	32
11	Highâ€Silica CHA Zeolite Membrane with Ultraâ€High Selectivity and Irradiation Stability for Krypton/Xenon Separation. Angewandte Chemie, 2021, 133, 9114-9119.	2.0	6
12	A thermally/chemically robust and easily regenerable anilato-based ultramicroporous 3D MOF for CO₂ uptake and separation. Journal of Materials Chemistry A, 2021, 9, 25189-25195.	10.3	13
13	Highly Water-Permeable Metalâ€“Organic Framework MOF-303 Membranes for Desalination. Journal of the American Chemical Society, 2021, 143, 20055-20058.	13.7	74
14	Toward Optimal Metalâ€“Organic Frameworks for Adsorption Chillers: Insights from the Scaleâ€Up of MILâ€101(Cr) and NH₂â€MILâ€125. Energy Technology, 2020, 8, 1900617.	3.8	18
15	Aromatization of Ethylene â€“ Main Intermediate for MDA?. ChemCatChem, 2020, 12, 544-549.	3.7	22
16	Fabrication of Defect-Free P84Â® Polyimide Hollow Fiber for Gas Separation: Pathway to Formation of Optimized Structure. Membranes, 2020, 10, 4.	3.0	11
17	PBI mixed matrix hollow fiber membrane: Influence of ZIF-8 filler over H2/CO2 separation performance at high temperature and pressure. Separation and Purification Technology, 2020, 237, 116347.	7.9	71
18	Water and Metalâ€“Organic Frameworks: From Interaction toward Utilization. Chemical Reviews, 2020, 120, 8303-8377.	47.7	303

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19	Impact of small promoter amounts on coke structure in dry reforming of methane over Ni/ZrO₂. Catalysis Science and Technology, 2020, 10, 3965-3974.	4.1	27
20	Progress in Developing a Structureâ€Activity Relationship for the Direct Aromatization of Methane. ChemCatChem, 2019, 11, 39-52.	3.7	74
21	Maximizing Ag Utilization in High-Rate CO₂ Electrochemical Reduction with a Coordination Polymer-Mediated Gas Diffusion Electrode. ACS Energy Letters, 2019, 4, 2024-2031.	17.4	85
22	Porous Metalâ€“Organic Framework CUK-1 for Adsorption Heat Allocation toward Green Applications of Natural Refrigerant Water. ACS Applied Materials & Interfaces, 2019, 11, 25778-25789.	8.0	45
23	Xenon Recovery by DD3R Zeolite Membranes: Application in Anaesthetics. Angewandte Chemie, 2019, 131, 15664-15671.	2.0	16
24	Transport Properties of Mixed-Matrix Membranes: A Kinetic Monte Carlo Study. Physical Review Applied, 2019, 12, .	3.8	12
25	Activity Descriptors Derived from Comparison of Mo and Fe as Active Metal for Methane Conversion to Aromatics. Journal of the American Chemical Society, 2019, 141, 18814-18824.	13.7	52
26	Xenon Recovery by DD3R Zeolite Membranes: Application in Anaesthetics. Angewandte Chemie - International Edition, 2019, 58, 15518-15525.	13.8	47
27	Structure-activity relationships in metal organic framework derived mesoporous nitrogen-doped carbon containing atomically dispersed iron sites for CO2 electrochemical reduction. Journal of Catalysis, 2019, 378, 320-330.	6.2	36
28	A site-sensitive quasi-in situ strategy to characterize Mo/HZSM-5 during activation. Journal of Catalysis, 2019, 370, 321-331.	6.2	40
29	Quantifying the impact of dispersion, acidity and porosity of Mo/HZSM-5 on the performance in methane dehydroaromatization. Applied Catalysis A: General, 2019, 574, 144-150.	4.3	28
30	Engineering Metalâ€“Organic Frameworks for the Electrochemical Reduction of CO₂: A Minireview. Chemistry - an Asian Journal, 2019, 14, 3452-3461.	3.3	52
31	Defect-free high-silica CHA zeolite membranes with high selectivity for light gas separation. Journal of Membrane Science, 2019, 586, 34-43.	8.2	45
32	High-Performance Polybenzimidazole Membranes for Helium Extraction from Natural Gas. ACS Applied Materials & Interfaces, 2019, 11, 20098-20103.	8.0	36
33	Cation influence in adsorptive propane/propylene separation in ZIF-8 (SOD) topology. Chemical Engineering Journal, 2019, 371, 848-856.	12.7	35
34	Novel high performance poly(p-phenylene benzobisimidazole) (PBDI) membranes fabricated by interfacial polymerization for H₂ separation. Journal of Materials Chemistry A, 2019, 7, 8929-8937.	10.3	31
35	Conceptual design of membrane-based pre-combustion CO2 capture process: Role of permeance and selectivity on performance and costs. Journal of Membrane Science, 2019, 575, 229-241.	8.2	38
36	Methane hydrates: Nucleation in microporous materials. Chemical Engineering Journal, 2019, 360, 569-576.	12.7	59

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37	ZIF-67 as silver-bullet in adsorptive propane/propylene separation. Chemical Engineering Journal, 2019, 360, 10-14.	12.7	60
38	Photocatalytic properties of TiO2 and Fe-doped TiO2 prepared by metal organic framework-mediated synthesis. Chemical Engineering Journal, 2019, 360, 75-88.	12.7	121
39	Thin mixed matrix and dual layer membranes containing metal-organic framework nanosheets and Polyactiveâ„¢ for CO2 capture. Journal of Membrane Science, 2019, 570-571, 226-235.	8.2	52
40	Prediction of adsorption isotherms from breakthrough curves. Microporous and Mesoporous Materials, 2019, 277, 237-244.	4.4	36
41	Integrated Vacuum Stripping and Adsorption for the Efficient Recovery of (Biobased) 2-Butanol. Industrial & Engineering Chemistry Research, 2019, 58, 296-305.	3.7	8
42	From amorphous to crystalline: Transformation of silica membranes into silicalite-1 (MFI) zeolite layers. Microporous and Mesoporous Materials, 2019, 276, 52-61.	4.4	8
43	Revealing the Transient Concentration of CO₂ in a Mixedâ€Matrix Membrane by IR Microimaging and Molecular Modeling. Angewandte Chemie - International Edition, 2018, 57, 5156-5160.	13.8	35
44	Controlled formation of iron carbides and their performance in Fischer-Tropsch synthesis. Journal of Catalysis, 2018, 362, 106-117.	6.2	108
45	Influence of Filler Pore Structure and Polymer on the Performance of MOFâ€Based Mixedâ€Matrix Membranes for CO₂ Capture. Chemistry - A European Journal, 2018, 24, 7949-7956.	3.3	44
46	Einblicke in die Verteilung von CO₂â€MolekÃ¼len und deren zeitliche Entwicklung durch Mikroâ€Bildgebung mittels IRâ€Spektroskopie und molekulardynamische Modellierung. Angewandte Chemie, 2018, 130, 5250-5255.	2.0	0
47	Effects of Substrate and Polymer Encapsulation on CO₂ Electroreduction by Immobilized Indium(III) Protoporphyrin. ACS Catalysis, 2018, 8, 4420-4428.	11.2	52
48	Metal-Organic-Framework-Mediated Nitrogen-Doped Carbon for CO₂ Electrochemical Reduction. ACS Applied Materials & Interfaces, 2018, 10, 14751-14758.	8.0	105
49	Revealing Lattice Expansion of Small-Pore Zeolite Catalysts during the Methanol-to-Olefins Process Using Combined Operando X-ray Diffraction and UVâ€“vis Spectroscopy. ACS Catalysis, 2018, 8, 2060-2070.	11.2	62
50	NOx reduction in the Di-Air system over noble metal promoted ceria. Applied Catalysis B: Environmental, 2018, 231, 200-212.	20.2	19
51	Relevance of the Mo-precursor state in H-ZSM-5 for methane dehydroaromatization. Catalysis Science and Technology, 2018, 8, 916-922.	4.1	47
52	Overcoming the Engineering Constraints for Scaling-Up the State-of-the-Art Catalyst for Tail-Gas N₂O Decomposition. Industrial & Engineering Chemistry Research, 2018, 57, 939-945.	3.7	8
53	On the dynamic nature of Mo sites for methane dehydroaromatization. Chemical Science, 2018, 9, 4801-4807.	7.4	65
54	High performance mixed matrix membranes (MMMs) composed of ZIF-94 filler and 6FDA-DAM polymer. Journal of Membrane Science, 2018, 550, 198-207.	8.2	95

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55	Mixed-matrix membranes containing an azine-linked covalent organic framework: Influence of the polymeric matrix on post-combustion CO2-capture. Journal of Membrane Science, 2018, 549, 377-384.	8.2	63
56	Single cobalt sites in mesoporous N-doped carbon matrix for selective catalytic hydrogenation of nitroarenes. Journal of Catalysis, 2018, 357, 20-28.	6.2	208
57	Formulation and catalytic performance of MOF-derived Fe@C/Al composites for high temperature Fischerâ€“Tropsch synthesis. Catalysis Science and Technology, 2018, 8, 210-220.	4.1	28
58	Facile manufacture of porous organic framework membranes for precombustion CO ₂ capture. Science Advances, 2018, 4, eaau1698.	10.3	98
59	One-Pot Synthesis of High-Flux b-Oriented MFI Zeolite Membranes for Xe Recovery. ACS Applied Materials & Interfaces, 2018, 10, 33574-33580.	8.0	39
60	Nanosheets of Nonlayered Aluminum Metalâ€“Organic Frameworks through a Surfactantâ€Assisted Method. Advanced Materials, 2018, 30, e1707234.	21.0	117
61	Towards High Performance Metalâ€“Organic Frameworkâ€“Microporous Polymer Mixed Matrix Membranes: Addressing Compatibility and Limiting Aging by Polymer Doping. Chemistry - A European Journal, 2018, 24, 12796-12800.	3.3	24
62	An in situ reactivation study reveals the supreme stability of Î³-alumina for the oxidative dehydrogenation of ethylbenzene to styrene. Catalysis Science and Technology, 2018, 8, 3733-3736.	4.1	9
63	Structureâ€“performance descriptors and the role of Lewis acidity in the methanol-to-propylene process. Nature Chemistry, 2018, 10, 804-812.	13.6	221
64	In Silico Screening of Metalâ€“Organic Frameworks for Adsorption-Driven Heat Pumps and Chillers. ACS Applied Materials & Interfaces, 2018, 10, 27074-27087.	8.0	32
65	Benzimidazole linked polymers (BILPs) in mixed-matrix membranes: Influence of filler porosity on the CO2/N2 separation performance. Journal of Membrane Science, 2018, 566, 213-222.	8.2	20
66	Molecular-Scale Hybrid Membranes Derived from Metal-Organic Polyhedra for Gas Separation. ACS Applied Materials & Interfaces, 2018, 10, 21381-21389.	8.0	55
67	Nanosheets of non-layered aluminium metalâ€“organic frameworks through a surfactant-assisted method. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e352-e353.	0.1	0
68	Understanding metalâ€“organic frameworks for photocatalytic solar fuel production. CrystEngComm, 2017, 19, 4118-4125.	2.6	78
69	High-temperature Fischer-Tropsch synthesis over FeTi mixed oxide model catalysts: Tailoring activity and stability by varying the Ti/Fe ratio. Applied Catalysis A: General, 2017, 533, 38-48.	4.3	16
70	Metal organic frameworks as precursors for the manufacture of advanced catalytic materials. Materials Chemistry Frontiers, 2017, 1, 1709-1745.	5.9	252
71	Ruthenium particle size and cesium promotion effects in Fischerâ€“Tropsch synthesis over high-surface-area graphite supported catalysts. Catalysis Science and Technology, 2017, 7, 1235-1244.	4.1	31
72	Synthesis, characterization and performance of bifunctional catalysts for the synthesis of menthol from citronellal. RSC Advances, 2017, 7, 12041-12053.	3.6	15

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73	Metalâ€“Organic Framework Mediated Cobalt/Nitrogenâ€Doped Carbon Hybrids as Efficient and Chemoselective Catalysts for the Hydrogenation of Nitroarenes. ChemCatChem, 2017, 9, 1854-1862.	3.7	83
74	Hydrocarbon conversion in the production of synthetic fuels: general discussion. Faraday Discussions, 2017, 197, 473-489.	3.2	0
75	Novel photocatalysts: general discussion. Faraday Discussions, 2017, 197, 533-546.	3.2	1
76	Designing new catalysts for synthetic fuels: general discussion. Faraday Discussions, 2017, 197, 353-388.	3.2	7
77	Insights into the Activity and Deactivation of the Methanol-to-Olefins Process over Different Small-Pore Zeolites As Studied with Operando UVâ€“vis Spectroscopy. ACS Catalysis, 2017, 7, 4033-4046.	11.2	122
78	Gas Phase Sensing of Alcohols by Metal Organic Frameworkâ€“Polymer Composite Materials. ACS Applied Materials & Interfaces, 2017, 9, 24926-24935.	8.0	51
79	Sensitive and Reversible Detection of Methanol and Water Vapor by In Situ Electrochemically Grown CuBTC MOFs on Interdigitated Electrodes. Small, 2017, 13, 1604150.	10.0	31
80	Comment on â€œEfficient Conversion of Methane to Aromatics by Coupling Methylation Reactionâ€. ACS Catalysis, 2017, 7, 4485-4487.	11.2	6
81	Base free transfer hydrogenation using a covalent triazine framework based catalyst. CrystEngComm, 2017, 19, 4166-4170.	2.6	15
82	Metalâ€“organic and covalent organic frameworks as single-site catalysts. Chemical Society Reviews, 2017, 46, 3134-3184.	38.1	861
83	Harvesting the photoexcited holes on a photocatalytic proton reduction metalâ€“organic framework. Faraday Discussions, 2017, 201, 71-86.	3.2	14
84	Consequences of secondary zeolite growth on catalytic performance in DMTO studied over DDR and CHA. Catalysis Science and Technology, 2017, 7, 300-309.	4.1	13
85	Chemical Kinetics of Catalyzed Reactions. , 2017, , 191-220.		0
86	Catalytic Reaction Engineering. , 2017, , 221-269.		1
87	Understanding the Inhibiting Effect of BTC on CuBTC Growth through Experiment and Modeling. Crystal Growth and Design, 2017, 17, 5603-5607.	3.0	22
88	Revisiting the Incorporation of Ti(IV) in UiO-type Metalâ€“Organic Frameworks: Metal Exchange versus Grafting and Their Implications on Photocatalysis. Chemistry of Materials, 2017, 29, 8963-8967.	6.7	64
89	Facile Method for the Preparation of Covalent Triazine Framework coated Monoliths as Catalyst Support: Applications in C1 Catalysis. ACS Applied Materials & Interfaces, 2017, 9, 26060-26065.	8.0	41
90	Manufacture of highly loaded silica-supported cobalt Fischerâ€“Tropsch catalysts from a metal organic framework. Nature Communications, 2017, 8, 1680.	12.8	128

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91	Revisiting the Aluminum Trimesate-Based MOF (MIL-96): From Structure Determination to the Processing of Mixed Matrix Membranes for CO₂ Capture. Chemistry of Materials, 2017, 29, 10326-10338.	6.7	78
92	Challenges in the Greener Production of Formates/Formic Acid, Methanol, and DME by Heterogeneously Catalyzed CO₂Hydrogenation Processes. Chemical Reviews, 2017, 117, 9804-9838.	47.7	1,058
93	Tail gas catalyzed N2O decomposition over Fe-beta zeolite. On the promoting role of framework connected AlO6 sites in the vicinity of Fe by controlled dealumination during exchange. Applied Catalysis B: Environmental, 2017, 203, 218-226.	20.2	21
94	Structural and elemental influence from various MOFs on the performance of Fe@C catalysts for Fischerâ€“Tropsch synthesis. Faraday Discussions, 2017, 197, 225-242.	3.2	36
95	Chapter 13. Zeolite Membranes in Catalysis. RSC Catalysis Series, 2017, , 481-518.	0.1	0
96	Au Capping Agent Removal Using Plasma at Mild Temperature. Catalysts, 2016, 6, 179.	3.5	5
97	Metal Organic Framework Crystals in Mixedâ€Matrix Membranes: Impact of the Filler Morphology on the Gas Separation Performance. Advanced Functional Materials, 2016, 26, 3154-3163.	14.9	225
98	Shaping Covalent Triazine Frameworks for the Hydrogenation of Carbon Dioxide to Formic Acid. ChemCatChem, 2016, 8, 2217-2221.	3.7	65
99	Establishing hierarchy: the chain of events leading to the formation of silicalite-1 nanosheets. Chemical Science, 2016, 7, 6506-6513.	7.4	21
100	Sulfonated Porous Aromatic Frameworks as Solid Acid Catalysts. ChemCatChem, 2016, 8, 961-967.	3.7	28
101	Evidence for a chemical clock in oscillatory formation of UiO-66. Nature Communications, 2016, 7, 11832.	12.8	34
102	Next Generation Automotive DeNO_x Catalysts: Ceria What Else?. ChemCatChem, 2016, 8, 102-105.	3.7	25
103	Influence of ZIF-8 particle size in the performance of polybenzimidazole mixed matrix membranes for pre-combustion CO2 capture and its validation through interlaboratory test. Journal of Membrane Science, 2016, 515, 45-53.	8.2	145
104	Elucidating the Nature of Fe Species during Pyrolysis of the Fe-BTC MOF into Highly Active and Stable Fischerâ€“Tropsch Catalysts. ACS Catalysis, 2016, 6, 3236-3247.	11.2	176
105	The importance of heat effects in the methanol to hydrocarbons reaction over ZSM-5: on the role of mesoporosity on catalyst performance. Catalysis Science and Technology, 2016, 6, 5320-5325.	4.1	38
106	Promotion or additive activity? The role of gold on zirconia supported iron oxide in high temperature water-gas shift. Journal of Molecular Catalysis A, 2016, 420, 115-123.	4.8	3
107	Adsorption Forms of CO₂ on MIL-53(Al) and NH₂-MIL-53(Al) As Revealed by FTIR Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 23584-23595.	3.1	46
108	Suppression of the Aromatic Cycle in Methanol-to-Olefins Reaction over ZSM-5 by Post-Synthetic Modification Using Calcium. ChemCatChem, 2016, 8, 3005-3005.	3.7	5

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109	Suppression of the Aromatic Cycle in Methanolâ€toâ€Olefins Reaction over ZSMâ€5 by Postâ€Synthetic Modification Using Calcium. ChemCatChem, 2016, 8, 3057-3063.	3.7	71
110	Azineâ€Linked Covalent Organic Framework (COF)â€Based Mixedâ€Matrix Membranes for CO₂/CH₄ Separation. Chemistry - A European Journal, 2016, 22, 14467-14470.	3.3	161
111	Shaping Covalent Triazine Framework for the Hydrogenation of Carbon Dioxide to Formic Acid. ChemCatChem, 2016, 8, 2173-2173.	3.7	1
112	Polymerâ€“Metal Organic Framework Composite Films as Affinity Layer for Capacitive Sensor Devices. ACS Sensors, 2016, 1, 1188-1192.	7.8	42
113	Efficient Electrochemical Production of Syngas from CO₂ and H₂O by using a Nanostructured Ag/gâ€C₃N₄ Catalyst. ChemElectroChem, 2016, 3, 1497-1502.	3.4	46
114	Assessing the Surface Area of Porous Solids: Limitations, Probe Molecules, and Methods. Langmuir, 2016, 32, 12664-12675.	3.5	33
115	Electronic origins of photocatalytic activity in d0 metal organic frameworks. Scientific Reports, 2016, 6, 23676.	3.3	196
116	Selective Coke Combustion by Oxygen Pulsing During Mo/ZSMâ€5â€Catalyzed Methane Dehydroaromatization. Angewandte Chemie - International Edition, 2016, 55, 15086-15090.	13.8	94
117	Selective Coke Combustion by Oxygen Pulsing During Mo/ZSMâ€5â€Catalyzed Methane Dehydroaromatization. Angewandte Chemie, 2016, 128, 15310-15314.	2.0	18
118	Metalâ€“Organic Framework Capillary Microreactor for Application in Click Chemistry. ChemCatChem, 2016, 8, 1692-1698.	3.7	8
119	Structural Effects in Visibleâ€Lightâ€Responsive Metalâ€“Organic Frameworks Incorporating orthoâ€Fluoroazobenzenes. Chemistry - A European Journal, 2016, 22, 746-752.	3.3	90
120	Investigating the Case of Titanium(IV) Carboxyphenolate Photoactive Coordination Polymers. Inorganic Chemistry, 2016, 55, 7192-7199.	4.0	72
121	Fundamental Understanding of the Di-Air System: The Role of Ceria in NO x Abatement. Topics in Catalysis, 2016, 59, 854-860.	2.8	14
122	Organic Linker Defines the Excitedâ€State Decay of Photocatalytic MILâ€125(Ti)â€Type Materials. ChemSusChem, 2016, 9, 388-395.	6.8	84
123	Methanol-to-olefins process over zeolite catalysts with DDR topology: effect of composition and structural defects on catalytic performance. Catalysis Science and Technology, 2016, 6, 2663-2678.	4.1	55
124	Control of interpenetration of copper-based MOFs on supported surfaces by electrochemical synthesis. CrystEngComm, 2016, 18, 4018-4022.	2.6	26
125	Adsorption of CO₂ on MIL-53(Al): FTIR evidence of the formation of dimeric CO₂ species. Chemical Communications, 2016, 52, 1494-1497.	4.1	23
126	Photoswitchable metal organic frameworks: turn on the lights and close the windows. CrystEngComm, 2016, 18, 4006-4012.	2.6	118

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127	On the thermal stabilization of carbon-supported SiO2 catalysts by phosphorus: Evaluation in the oxidative dehydrogenation of ethylbenzene to styrene and a comparison with relevant catalysts. Applied Catalysis A: General, 2016, 514, 173-181.	4.3	11
128	Effect of pretreatment atmosphere on the activity and selectivity of Co/mesoHZSM-5 for Fischerâ€“Tropsch synthesis. New Journal of Chemistry, 2016, 40, 4167-4177.	2.8	38
129	Synthesis and gas adsorption properties of mesoporous silica-NH2-MIL-53(Al)Âcoreâ€“shell spheres. Microporous and Mesoporous Materials, 2016, 225, 116-121.	4.4	28
130	Carbon/H-ZSM-5 composites as supports for bi-functional Fischerâ€“Tropsch synthesis catalysts. Catalysis Science and Technology, 2016, 6, 2633-2646.	4.1	34
131	Numerical optimization of a structured tubular reactor for Fischerâ€“Tropsch synthesis. Chemical Engineering Journal, 2016, 283, 1465-1483.	12.7	25
132	Recent developments in zeolite membranes for gas separation. Journal of Membrane Science, 2016, 499, 65-79.	8.2	435
133	Multi-scale crystal engineering of metal organic frameworks. Coordination Chemistry Reviews, 2016, 307, 147-187.	18.8	239
134	Highly dispersed Pt+ on Ti Ce(1â^')O2 as an active phase in preferential oxidation of CO. Applied Catalysis B: Environmental, 2016, 180, 169-178.	20.2	32
135	Design of Hydrophilic Metal Organic Framework Water Adsorbents for Heat Reallocation. Advanced Materials, 2015, 27, 4775-4780.	21.0	253
136	Dynamic Releaseâ€“Immobilization of a Homogeneous Rhodium Hydroformylation Catalyst by a Polyoxometalate Metalâ€“Organic Framework Composite. ChemCatChem, 2015, 7, 3243-3247.	3.7	28
137	Preliminary Design of a Vacuum Pressure Swing Adsorption Process for Natural Gas Upgrading Based on Aminoâ€Functionalized MILâ€53. Chemical Engineering and Technology, 2015, 38, 1183-1194.	1.5	16
138	Anchoring of Diphenylphosphinyl Groups to NH₂â€MILâ€53 by Postâ€Synthetic Modification. European Journal of Inorganic Chemistry, 2015, 2015, 4648-4652.	2.0	19
139	Manufacture of dense CAU-10-H coatings for application in adsorption driven heat pumps: optimization and characterization. CrystEngComm, 2015, 17, 5911-5920.	2.6	44
140	Revisiting the synthesis of Au/TiO2 P25 catalyst and application in the low temperature waterâ€“gas shift under realistic conditions. Catalysis Today, 2015, 244, 19-28.	4.4	7
141	Metal organic framework synthesis in the presence of surfactants: towards hierarchical MOFs?. CrystEngComm, 2015, 17, 1693-1700.	2.6	78
142	Metalâ€“organic framework based mixed matrix membranes: a solution for highly efficient CO₂ capture?. Chemical Society Reviews, 2015, 44, 2421-2454.	38.1	732
143	Efficient production of hydrogen from formic acid using a Covalent Triazine Framework supported molecular catalyst. ChemSusChem, 2015, 8, 809-812.	6.8	97
144	Metal organic framework-mediated synthesis of highly active and stable Fischer-Tropsch catalysts. Nature Communications, 2015, 6, 6451.	12.8	325

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145	Enhancing promoting effects in g-C3N4-Mn+/CeO2-TiO2 ternary composites: Photo-handling of charge carriers. Applied Catalysis B: Environmental, 2015, 176-177, 687-698.	20.2	33
146	Adsorption-Driven Heat Pumps: The Potential of Metalâ€“Organic Frameworks. Chemical Reviews, 2015, 115, 12205-12250.	47.7	410
147	Metal Organic Framework: Design of Hydrophilic Metal Organic Framework Water Adsorbents for Heat Reallocation (Adv. Mater. 32/2015). Advanced Materials, 2015, 27, 4803-4803.	21.0	10
148	Sixâ€Coordinate Groupâ€...13 Complexes: The Role of dâ€...Orbitals and Electronâ€Rich Multiâ€Center Bonding. Angewandte Chemie - International Edition, 2015, 54, 12034-12038.	13.8	11
149	Metalâ€“Organic Frameworks in Adsorption-Driven Heat Pumps: The Potential of Alcohols as Working Fluids. Langmuir, 2015, 31, 12783-12796.	3.5	123
150	Structuring catalyst and reactor â€“ an inviting avenue to process intensification. Catalysis Science and Technology, 2015, 5, 807-817.	4.1	117
151	Crystals for sustainability â€“ structuring Al-based MOFs for the allocation of heat and cold. CrystEngComm, 2015, 17, 281-285.	2.6	35
152	Effect of rhodium on the waterâ€“gas shift performance of Fe2O3/ZrO2 and CeO2/ZrO2: Influence of rhodium precursor. Catalysis Today, 2015, 242, 168-177.	4.4	12
153	Experimental evidence of negative linear compressibility in the MIL-53 metalâ€“organic framework family. CrystEngComm, 2015, 17, 276-280.	2.6	119
154	Co@NH₂-MIL-125(Ti): cobaloxime-derived metalâ€“organic framework-based composite for light-driven H₂ production. Energy and Environmental Science, 2015, 8, 364-375.	30.8	362
155	Kinetics of the high temperature waterâ€“gas shift over Fe2O3/ZrO2, Rh/ZrO2 and Rh/Fe2O3/ZrO2. Chemical Engineering Journal, 2015, 263, 427-434.	12.7	15
156	Metalâ€“organic framework nanosheets in polymer composite materials for gas separation. Nature Materials, 2015, 14, 48-55.	27.5	1,780
157	Separation of CO 2 /CH 4 mixtures over NH 2 -MIL-53â€”An experimental and modelling study. Chemical Engineering Science, 2015, 124, 96-108.	3.8	28
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