Christopher W Jones

List of Publications by Year
in descending order

506 papers	27,409 citations	4383 86 h-index	7511 151 g-index
514 all docs	514 docs citations	514 times ranked	20611 citing authors

#	Article	IF	Citations
1	Adsorbent Materials for Carbon Dioxide Capture from Large Anthropogenic Point Sources. ChemSusChem, 2009, 2, 796-854.	3.6	2,178
2	Direct Capture of CO₂ from Ambient Air. Chemical Reviews, 2016, 116, 11840-11876.	23.0	1,455
3	Designing Adsorbents for CO₂ Capture from Flue Gas-Hyperbranched Aminosilicas Capable of Capturing CO₂ Reversibly. Journal of the American Chemical Society, 2008, 130, 2902-2903.	6.6	703
4	A Highâ€Performance Gasâ€Separation Membrane Containing Submicrometerâ€Sized Metalâ€"Organic Framework Crystals. Angewandte Chemie - International Edition, 2010, 49, 9863-9866.	7.2	603
5	Interfacial microfluidic processing of metal-organic framework hollow fiber membranes. Science, 2014, 345, 72-75.	6.0	602
6	High efficiency nanocomposite sorbents for CO2 capture based on amine-functionalized mesoporous capsules. Energy and Environmental Science, 2011, 4, 444-452.	15.6	446
7	Organic-functionalized molecular sieves as shape-selective catalysts. Nature, 1998, 393, 52-54.	13.7	412
8	Application of Amine-Tethered Solid Sorbents for Direct CO₂ Capture from the Ambient Air. Environmental Science & Technology, 2011, 45, 2420-2427.	4.6	385
9	Nanoscale design to enable the revolution in renewable energy. Energy and Environmental Science, 2009, 2, 559.	15.6	348
10	Amine-oxide hybrid materials for acid gas separations. Journal of Materials Chemistry, 2011, 21, 15100.	6.7	333
11	Using natureâ€™s blueprint to expand catalysis with Earth-abundant metals. Science, 2020, 369, .	6.0	306
12	Amineâ€Tethered Solid Adsorbents Coupling High Adsorption Capacity and Regenerability for CO₂ Capture From Ambient Air. ChemSusChem, 2011, 4, 628-635.	3.6	281
13	Modification of the Mg/DOBDC MOF with Amines to Enhance CO₂ Adsorption from Ultradilute Gases. Journal of Physical Chemistry Letters, 2012, 3, 1136-1141.	2.1	273
14	Synthesisâ€"Structureâ€"Property Relationships for Hyperbranched Aminosilica CO₂ Adsorbents. Advanced Functional Materials, 2009, 19, 3821-3832.	7.8	263
15	Mesoporous Alumina-Supported Amines as Potential Steam-Stable Adsorbents for Capturing CO₂ from Simulated Flue Gas and Ambient Air. Energy & Fuels, 2011, 25, 5528-5537.	2.5	252
16	Stability of Zeolites in Hot Liquid Water. Journal of Physical Chemistry C, 2010, 114, 19582-19595.	1.5	246
17	Highly accessible catalytic sites on recyclable organosilane-functionalized magnetic nanoparticles: An alternative to functionalized porous silica catalysts. Journal of Molecular Catalysis A, 2006, 253, 123-131.	4.8	243
18	Depolymerization and Hydrodeoxygenation of Switchgrass Lignin with Formic Acid. ChemSusChem, 2012, 5, 667-675.	3.6	234

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19	CO₂ Capture from Dilute Gases as a Component of Modern Global Carbon Management. Annual Review of Chemical and Biomolecular Engineering, 2011, 2, 31-52.	3.3	227
20	Acidâ€Catalyzed Conversion of Sugars and Furfurals in an Ionicâ€Liquid Phase. ChemSusChem, 2009, 2, 665-671.	3.6	226
21	Amineâ€“Oxide Hybrid Materials for CO₂ Capture from Ambient Air. Accounts of Chemical Research, 2015, 48, 2680-2687.	7.6	222
22	SO_{<i>x</i>}/NO_{<i>x</i>} Removal from Flue Gas Streams by Solid Adsorbents: A Review of Current Challenges and Future Directions. Energy & Fuels, 2015, 29, 5467-5486.	2.5	213
23	Direct Air Capture of CO₂ Using Amine Functionalized MIL-101(Cr). ACS Sustainable Chemistry and Engineering, 2016, 4, 5761-5768.	3.2	210
24	Strong evidence of solution-phase catalysis associated with palladium leaching from immobilized thiols during Heck and Suzuki coupling of aryl iodides, bromides, and chlorides. Journal of Catalysis, 2007, 251, 80-93.	3.1	207
25	Dramatic Enhancement of CO₂ Uptake by Poly(ethyleneimine) Using Zirconosilicate Supports. Journal of the American Chemical Society, 2012, 134, 10757-10760.	6.6	205
26	Mizorokiâˆ’Heck Coupling Using Immobilized Molecular Precatalysts:Â Leaching Active Species from Pd Pincers, Entrapped Pd Salts, and Pd NHC Complexes. Inorganic Chemistry, 2007, 46, 1865-1875.	1.9	203
27	Hybrid Zeolitic Imidazolate Frameworks: Controlling Framework Porosity and Functionality by Mixed-Linker Synthesis. Chemistry of Materials, 2012, 24, 1930-1936.	3.2	200
28	Steamâ€Stripping for Regeneration of Supported Amineâ€Based CO₂ Adsorbents. ChemSusChem, 2010, 3, 899-903.	3.6	192
29	Highly Tunable Molecular Sieving and Adsorption Properties of Mixed-Linker Zeolitic Imidazolate Frameworks. Journal of the American Chemical Society, 2015, 137, 4191-4197.	6.6	192
30	Toward Benchmarking in Catalysis Science: Best Practices, Challenges, and Opportunities. ACS Catalysis, 2016, 6, 2590-2602.	5.5	190
31	Rational Approach to Polymer-Supported Catalysts: Synergy between Catalytic Reaction Mechanism and Polymer Design. Accounts of Chemical Research, 2008, 41, 1153-1165.	7.6	189
32	Effect of Amine Surface Coverage on the Co-Adsorption of CO₂ and Water: Spectral Deconvolution of Adsorbed Species. Journal of Physical Chemistry Letters, 2014, 5, 4194-4200.	2.1	189
33	Expanding the Utility of One-Pot Multistep Reaction Networks through Compartmentation and Recovery of the Catalyst. Angewandte Chemie - International Edition, 2006, 45, 2209-2212.	7.2	180
34	Role of Amine Structure on Carbon Dioxide Adsorption from Ultradilute Gas Streams such as Ambient Air. ChemSusChem, 2012, 5, 2058-2064.	3.6	180
35	Continuous Polycrystalline Zeolitic Imidazolate Frameworkâ€90 Membranes on Polymeric Hollow Fibers. Angewandte Chemie - International Edition, 2012, 51, 10615-10618.	7.2	179
36	Poly(allylamine)â€“Mesoporous Silica Composite Materials for CO₂ Capture from Simulated Flue Gas or Ambient Air. Industrial & Engineering Chemistry Research, 2011, 50, 14203-14210.	1.8	175

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37	Silica and polymer-tethered Pd?SCS-pincer complexes: evidence for precatalyst decomposition to form soluble catalytic species in Mizoroki?Heck chemistry. Journal of Catalysis, 2004, 226, 101-110.	3.1	173
38	Hollow Fiber Adsorbents for CO₂ Removal from Flue Gas. Industrial & Engineering Chemistry Research, 2009, 48, 7314-7324.	1.8	172
39	Sonication-induced Ostwald ripening of ZIF-8 nanoparticles and formation of ZIF-8/polymer composite membranes. Microporous and Mesoporous Materials, 2012, 158, 292-299.	2.2	171
40	Tuning Cooperativity by Controlling the Linker Length of Silica-Supported Amines in Catalysis and CO₂ Capture. Journal of the American Chemical Society, 2012, 134, 13950-13953.	6.6	165
41	Systems Design and Economic Analysis of Direct Air Capture of CO₂ through Temperature Vacuum Swing Adsorption Using MIL-101(Cr)-PEI-800 and mmen-Mg₂(dobpdc) MOF Adsorbents. Industrial & Engineering Chemistry Research, 2017, 56, 750-764.	1.8	161
42	Toward Single-Site Functional MaterialsPreparation of Amine-Functionalized Surfaces Exhibiting Site-Isolated Behavior. Chemistry of Materials, 2003, 15, 1132-1139.	3.2	159
43	Oxidative Degradation of Aminosilica Adsorbents Relevant to Postcombustion CO₂ Capture. Energy & Fuels, 2011, 25, 2416-2425.	2.5	154
44	Investigations into the Stability of Tethered Palladium(II) Pincer Complexes during Heck Catalysis. Organometallics, 2005, 24, 4351-4361.	1.1	147
45	Cooperative Catalysis with Acidâ€“Base Bifunctional Mesoporous Silica: Impact of Grafting and Co-condensation Synthesis Methods on Material Structure and Catalytic Properties. Chemistry of Materials, 2012, 24, 2433-2442.	3.2	146
46	Ionic-Liquid-Phase Hydrolysis of Pine Wood. Industrial & Engineering Chemistry Research, 2009, 48, 1277-1286.	1.8	144
47	Structural Changes of Silica Mesocellular Foam Supported Amine-Functionalized CO₂ Adsorbents Upon Exposure to Steam. ACS Applied Materials & Interfaces, 2010, 2, 3363-3372.	4.0	144
48	On the Stability and Recyclability of Supported Metalâ€“Ligand Complex Catalysts: Myths, Misconceptions and Critical Research Needs. Topics in Catalysis, 2010, 53, 942-952.	1.3	143
49	Dilute Acid Hydrolysis of Loblolly Pine: A Comprehensive Approach. Industrial & Engineering Chemistry Research, 2008, 47, 7131-7140.	1.8	141
50	Synergy between Ceria Oxygen Vacancies and Cu Nanoparticles Facilitates the Catalytic Conversion of CO₂ to CO under Mild Conditions. ACS Catalysis, 2018, 8, 12056-12066.	5.5	137
51	CO2 capture via adsorption in amine-functionalized sorbents. Current Opinion in Chemical Engineering, 2016, 12, 82-90.	3.8	132
52	Linking CO₂ Sorption Performance to Polymer Morphology in Aminopolymer/Silica Composites through Neutron Scattering. Journal of the American Chemical Society, 2015, 137, 11749-11759.	6.6	131
53	Direct CO₂ Capture from Air using Poly(ethylenimine)-Loaded Polymer/Silica Fiber Sorbents. ACS Sustainable Chemistry and Engineering, 2019, 7, 5264-5273.	3.2	131
54	Toward Single-Site, Immobilized Molecular Catalysts:â€‰ Site-Isolated Ti Ethylene Polymerization Catalysts Supported on Porous Silica. Journal of the American Chemical Society, 2004, 126, 3052-3053.	6.6	130

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55	Important Roles of Enthalpic and Entropic Contributions to CO₂ Capture from Simulated Flue Gas and Ambient Air Using Mesoporous Silica Grafted Amines. Journal of the American Chemical Society, 2014, 136, 13170-13173.	6.6	130
56	Ring-Expanding Olefin Metathesis:Â A Route to Highly Active Unsymmetrical Macrocyclic Oligomeric Co-Salen Catalysts for the Hydrolytic Kinetic Resolution of Epoxides. Journal of the American Chemical Society, 2007, 129, 1105-1112.	6.6	127
57	Aminosilane-Grafted Polymer/Silica Hollow Fiber Adsorbents for CO₂ Capture from Flue Gas. ACS Applied Materials & Interfaces, 2013, 5, 3921-3931.	4.0	127
58	Facet-Specific Stability of ZIF-8 in the Presence of Acid Gases Dissolved in Aqueous Solutions. Chemistry of Materials, 2016, 28, 6960-6967.	3.2	127
59	Best Practices in Pursuit of Topics in Heterogeneous Electrocatalysis. ACS Catalysis, 2017, 7, 6392-6393.	5.5	126
60	Tuning acidâ€“base cooperativity to create next generation silica-supported organocatalysts. Journal of Catalysis, 2013, 308, 60-72.	3.1	125
61	ZIF-8 Membranes via Interfacial Microfluidic Processing in Polymeric Hollow Fibers: Efficient Propylene Separation at Elevated Pressures. ACS Applied Materials & Interfaces, 2016, 8, 25337-25342.	4.0	125
62	Tunable CO₂ Adsorbents by Mixed-Linker Synthesis and Postsynthetic Modification of Zeolitic Imidazolate Frameworks. Journal of Physical Chemistry C, 2013, 117, 8198-8207.	1.5	123
63	Elucidation of Surface Species through inâ€…Situ FTIR Spectroscopy of Carbon Dioxide Adsorption on Amineâ€Grafted SBAâ€•15. ChemSusChem, 2017, 10, 266-276.	3.6	122
64	Enhanced CO₂ Adsorption over Polymeric Amines Supported on Heteroatomâ€Incorporated SBAâ€15 Silica: Impact of Heteroatom Type and Loading on Sorbent Structure and Adsorption Performance. Chemistry - A European Journal, 2012, 18, 16649-16664.	1.7	118
65	Facile High-Yield Solvothermal Deposition of Inorganic Nanostructures on Zeolite Crystals for Mixed Matrix Membrane Fabrication. Journal of the American Chemical Society, 2009, 131, 14662-14663.	6.6	115
66	Design of Aminopolymer Structure to Enhance Performance and Stability of CO₂ Sorbents: Poly(propylenimine) vs Poly(ethylenimine). Journal of the American Chemical Society, 2017, 139, 3627-3630.	6.6	115
67	Aminopolymerâ€“Silica Composite-Supported Pd Catalysts for Selective Hydrogenation of Alkynes. ACS Catalysis, 2013, 3, 1700-1708.	5.5	114
68	Spacing and Site Isolation of Amine Groups in 3-Aminopropyl-Grafted Silica Materials:â€‰ The Role of Protecting Groups. Chemistry of Materials, 2006, 18, 5022-5032.	3.2	111
69	Stability of Supported Amine Adsorbents to SO₂ and NO_{<i>x</i>} in Postcombustion CO₂ Capture. 1. Single-Component Adsorption. Industrial & Engineering Chemistry Research, 2013, 52, 12192-12201.	1.8	111
70	Role of Additives in Composite PEI/Oxide CO₂ Adsorbents: Enhancement in the Amine Efficiency of Supported PEI by PEG in CO₂ Capture from Simulated Ambient Air. ACS Applied Materials & Interfaces, 2015, 7, 24748-24759.	4.0	111
71	Propane dehydrogenation catalyzed by gallosilicate MFI zeolites with perturbed acidity. Journal of Catalysis, 2017, 345, 113-123.	3.1	111
72	Controlling the Density of Amine Sites on Silica Surfaces Using Benzyl Spacers. Langmuir, 2006, 22, 2676-2681.	1.6	108

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73	Thermal, Oxidative and CO₂ Induced Degradation of Primary Amines Used for CO₂ Capture: Effect of Alkyl Linker on Stability. Journal of Physical Chemistry C, 2014, 118, 12302-12311.	1.5	103
74	Fluidic Processing of Highâ€Performance ZIFâ€8 Membranes on Polymeric Hollow Fibers: Mechanistic Insights and Microstructure Control. Advanced Functional Materials, 2016, 26, 5011-5018.	7.8	98
75	Dynamics of CO₂ Adsorption on Amine Adsorbents. 2. Insights Into Adsorbent Design. Industrial & Engineering Chemistry Research, 2012, 51, 15153-15162.	1.8	97
76	Amine-Functionalized Porous Silicas as Adsorbents for Aldehyde Abatement. ACS Applied Materials & Interfaces, 2013, 5, 5569-5577.	4.0	97
77	Oxidative Dehydrogenation of Propane to Propylene with Soft Oxidants via Heterogeneous Catalysis. ACS Catalysis, 2021, 11, 2182-2234.	5.5	97
78	Highly dispersed palladium nanoparticles on ultra-porous silica mesocellular foam for the catalytic decarboxylation of stearic acid. Microporous and Mesoporous Materials, 2010, 132, 174-180.	2.2	96
79	Steam Induced Structural Changes of a Poly(ethylenimine) Impregnated Î3-Alumina Sorbent for CO₂ Extraction from Ambient Air. ACS Applied Materials & Interfaces, 2014, 6, 9245-9255.	4.0	96
80	Propane Dehydrogenation over Alumina-Supported Iron/Phosphorus Catalysts: Structural Evolution of Iron Species Leading to High Activity and Propylene Selectivity. ACS Catalysis, 2016, 6, 5673-5683.	5.5	96
81	Mixed-linker zeolitic imidazolate framework mixed-matrix membranes for aggressive CO2 separation from natural gas. Microporous and Mesoporous Materials, 2014, 192, 43-51.	2.2	95
82	Modified Mesoporous Silica Gas Separation Membranes on Polymeric Hollow Fibers. Chemistry of Materials, 2011, 23, 3025-3028.	3.2	92
83	Oxidative Stability of Amino Polymerâ€“Alumina Hybrid Adsorbents for Carbon Dioxide Capture. Energy & Fuels, 2013, 27, 1547-1554.	2.5	92
84	Acidâ€“Base Bifunctional Shell Cross-Linked Micelle Nanoreactor for One-Pot Tandem Reaction. ACS Catalysis, 2016, 6, 784-787.	5.5	91
85	Poly(styrene)-Supported Coâ€“Salen Complexes as Efficient Recyclable Catalysts for the Hydrolytic Kinetic Resolution of Epichlorohydrin. Chemistry - A European Journal, 2006, 12, 576-583.	1.7	90
86	Poly(<scp>L</scp>â€lysine) Brushâ€“Mesoporous Silica Hybrid Material as a Biomoleculeâ€Based Adsorbent for CO₂ Capture from Simulated Flue Gas and Air. Chemistry - A European Journal, 2011, 17, 10556-10561.	1.7	89
87	Molecularly Mixed Composite Membranes for Advanced Separation Processes. Angewandte Chemie - International Edition, 2019, 58, 2638-2643.	7.2	86
88	Aminopolymer-Impregnated Hierarchical Silica Structures: Unexpected Equivalent CO₂ Uptake under Simulated Air Capture and Flue Gas Capture Conditions. Chemistry of Materials, 2019, 31, 5229-5237.	3.2	85
89	Continuous Zeolite MFI Membranes Fabricated from 2D MFI Nanosheets on Ceramic Hollow Fibers. Angewandte Chemie - International Edition, 2019, 58, 8201-8205.	7.2	84
90	Dehydration, Dehydroxylation, and Rehydroxylation of Single-Walled Aluminosilicate Nanotubes. ACS Nano, 2010, 4, 4897-4907.	7.3	82

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91	Formation and Oxidation/Gasification of Carbonaceous Deposits: A Review. Industrial & Engineering Chemistry Research, 2016, 55, 9760-9818.	1.8	82
92	A Practical One-Pot Synthesis of Enantiopure Unsymmetrical Salen Ligands. Journal of Organic Chemistry, 2006, 71, 2903-2906.	1.7	81
93	Post-spinning infusion of poly(ethyleneimine) into polymer/silica hollow fiber sorbents for carbon dioxide capture. Chemical Engineering Journal, 2013, 221, 166-175.	6.6	81
94	Facilely synthesized meso-macroporous polymer as support of poly(ethyleneimine) for highly efficient and selective capture of CO2. Chemical Engineering Journal, 2017, 314, 466-476.	6.6	81
95	Tuning of higher alcohol selectivity and productivity in CO hydrogenation reactions over K/MoS2 domains supported on mesoporous activated carbon and mixed MgAl oxide. Journal of Catalysis, 2015, 324, 88-97.	3.1	80
96	Catalytic propane dehydrogenation over In2O3â€“Ga2O3 mixed oxides. Applied Catalysis A: General, 2015, 498, 167-175.	2.2	80
97	Design, Behavior, and Recycling of Silica-Supported CuBrâˆ’Bipyridine ATRP Catalysts. Macromolecules, 2004, 37, 1190-1203.	2.2	79
98	Continuous Reversible Addition-Fragmentation Chain Transfer Polymerization in Miniemulsion Utilizing a Multi-Tube Reaction System. Macromolecular Rapid Communications, 2004, 25, 1064-1068.	2.0	77
99	Hierarchical Ga-MFI Catalysts for Propane Dehydrogenation. Chemistry of Materials, 2017, 29, 7213-7222.	3.2	77
100	Poly(ethylenimine)â€Functionalized Monolithic Alumina Honeycomb Adsorbents for CO₂ Capture from Air. ChemSusChem, 2016, 9, 1859-1868.	3.6	75
101	Effect of Humidity on the CO₂ Adsorption of Tertiary Amine Grafted SBA-15. Journal of Physical Chemistry C, 2017, 121, 23480-23487.	1.5	74
102	Direct synthesis of single-walled aminoaluminosilicate nanotubes with enhanced molecular adsorption selectivity. Nature Communications, 2014, 5, 3342.	5.8	73
103	Vapor phase hydrogenation of furfural over nickel mixed metal oxide catalysts derived from layered double hydroxides. Applied Catalysis A: General, 2016, 517, 187-195.	2.2	73
104	Single-Walled Aluminosilicate Nanotubes with Organic-Modified Interiors. Journal of Physical Chemistry C, 2011, 115, 7676-7685.	1.5	72
105	Kinetic and Mechanistic Examination of Acidâ€“Base Bifunctional Aminosilica Catalysts in Aldol and Nitroaldol Condensations. ACS Catalysis, 2016, 6, 460-468.	5.5	72
106	Oxidativelyâ€Stable Linear Poly(propylenimine)â€Containing Adsorbents for CO₂ Capture from Ultradilute Streams. ChemSusChem, 2018, 11, 2628-2637.	3.6	72
107	Enhanced Cooperativity through Design: Pendant Co^{III}ï£¿Salen Polymer Brush Catalysts for the Hydrolytic Kinetic Resolution of Epichlorohydrin (Salen=<i>N</i>,<i>N</i>â€²â€Bis(salicylidene)ethylenediamine Dianion). Chemistry - A European Journal, 2008, 14, 7306-7313.	1.7	71
108	Monolith-Supported Amine-Functionalized Mg₂(dobpdc) Adsorbents for CO₂ Capture. ACS Applied Materials & Interfaces, 2017, 9, 17042-17050.	4.0	71

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109	Continuous Living Polymerization in Miniemulsion Using Reversible Addition Fragmentation Chain Transfer (RAFT) in a Tubular Reactorâ€. Industrial & Engineering Chemistry Research, 2005, 44, 2484-2493.	1.8	69
110	Hybrid Sulfonic Acid Catalysts Based on Silica-Supported Poly(Styrene Sulfonic Acid) Brush Materials and Their Application in Ester Hydrolysis. ACS Catalysis, 2011, 1, 674-681.	5.5	69
111	Homogeneous and heterogeneous 4-(N,N-dialkylamino)pyridines as effective single component catalysts in the synthesis of propylene carbonate. Journal of Molecular Catalysis A, 2007, 261, 160-166.	4.8	68
112	Silica-Immobilized Chiral Dirhodium(II) Catalyst for Enantioselective Carbenoid Reactions. Organic Letters, 2013, 15, 6136-6139.	2.4	66
113	Shaping amine-based solid CO2 adsorbents: Effects of pelletization pressure on the physical and chemical properties. Microporous and Mesoporous Materials, 2015, 204, 34-42.	2.2	66
114	Magnetic Nanoparticle Polymer Brush Catalysts: Alternative Hybrid Organic/Inorganic Structures to Obtain High, Local Catalyst Loadings for Use in Organic Transformations. Catalysis Letters, 2009, 131, 425-431.	1.4	65
115	The â€œMissingâ€•Bicarbonate in CO₂ Chemisorption Reactions on Solid Amine Sorbents. Journal of the American Chemical Society, 2018, 140, 8648-8651.	6.6	64
116	Stability of Supported Amine Adsorbents to SO₂ and NO_{<i>x</i>} in Postcombustion CO₂ Capture. 2. Multicomponent Adsorption. Industrial & Engineering Chemistry Research, 2014, 53, 12103-12110.	1.8	62
117	Evaluation of CO2 adsorption dynamics of polymer/silica supported poly(ethylenimine) hollow fiber sorbents in rapid temperature swing adsorption. International Journal of Greenhouse Gas Control, 2014, 21, 61-71.	2.3	62
118	A Mesoporous Cobalt Aluminate Spinel Catalyst for Nonoxidative Propane Dehydrogenation. ChemCatChem, 2017, 9, 3330-3337.	1.8	62
119	Sub-Ambient Temperature Direct Air Capture of CO₂ using Amine-Impregnated MIL-101(Cr) Enables Ambient Temperature CO₂ Recovery. Jacs Au, 2022, 2, 380-393.	3.6	62
120	Reaction pathways over copper and cerium oxide catalysts for direct synthesis of imines from amines under aerobic conditions. Journal of Catalysis, 2013, 301, 116-124.	3.1	61
121	Dynamic CO₂ adsorption performance of internally cooled silicaâ€supported poly(ethylenimine) hollow fiber sorbents. AICHE Journal, 2014, 60, 3878-3887.	1.8	61
122	Dynamics of CO₂ Adsorption on Amine Adsorbents. 1. Impact of Heat Effects. Industrial & Engineering Chemistry Research, 2012, 51, 15145-15152.	1.8	60
123	PIM-1 as a Solution-Processable â€œMolecular Basketâ€•for CO₂ Capture from Dilute Sources. ACS Macro Letters, 2015, 4, 1415-1419.	2.3	60
124	RAFT Inverse Miniemulsion Polymerization of Acrylamide. Macromolecular Rapid Communications, 2007, 28, 1010-1016.	2.0	59
125	Effect of support structure on CO2 adsorption properties of pore-expanded hyperbranched aminosilicas. Microporous and Mesoporous Materials, 2012, 151, 231-240.	2.2	59
126	Spatial arrangement and acid strength effects on acidâ€“base cooperatively catalyzed aldol condensation on aminosilica materials. Journal of Catalysis, 2015, 325, 19-25.	3.1	59

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127	Origins of Unusual Alcohol Selectivities over Mixed MgAl Oxide-Supported K/MoS₂ Catalysts for Higher Alcohol Synthesis from Syngas. ACS Catalysis, 2013, 3, 1665-1675.	5.5	58
128	Silica-Immobilized Zinc Î²-Diiminate Catalysts for the Copolymerization of Epoxides and Carbon Dioxide. Organometallics, 2003, 22, 2571-2580.	1.1	57
129	Poly(amide-imide)/Silica Supported PEI Hollow Fiber Sorbents for Postcombustion CO₂ Capture by RTSA. ACS Applied Materials & Interfaces, 2014, 6, 19336-19346.	4.0	57
130	Probing Intramolecular versus Intermolecular CO₂ Adsorption on Amine-Grafted SBA-15. Langmuir, 2015, 31, 13350-13360.	1.6	57
131	Functionalization of the Internal Surface of Pure-Silica MFI Zeolite with Aliphatic Alcohols. Journal of Physical Chemistry C, 2008, 112, 3543-3551.	1.5	56
132	Enhanced Formaldehydeâ€Vapor Adsorption Capacity of Polymeric Amineâ€Incorporated Aminosilicas. Chemistry - A European Journal, 2014, 20, 6381-6390.	1.7	56
133	Probing Metalâ€"Organic Framework Design for Adsorptive Natural Gas Purification. Langmuir, 2018, 34, 8443-8450.	1.6	56
134	Reduced Cuâ€"Coâ€"Al Mixed Metal Oxides for the Ring-Opening of Furfuryl Alcohol to Produce Renewable Diols. ACS Sustainable Chemistry and Engineering, 2017, 5, 8959-8969.	3.2	55
135	Synthesis of Block Copolymers Using RAFT Miniemulsion Polymerization in a Train of CSTRs. Macromolecules, 2004, 37, 9345-9354.	2.2	54
136	Miniemulsion reversible addition fragmentation chain transfer polymerization of vinyl acetate. Journal of Polymer Science Part A, 2005, 43, 2188-2193.	2.5	54
137	Recyclable Silica-Supported Iridium Bipyridine Catalyst for Aromatic Câ€"H Borylation. ACS Catalysis, 2014, 4, 1365-1375.	5.5	53
138	An Immobilizedâ€Dirhodium Hollowâ€Fiber Flow Reactor for Scalable and Sustainable Câ^'H Functionalization in Continuous Flow. Angewandte Chemie - International Edition, 2018, 57, 10923-10927.	7.2	52
139	Solvothermal deposition and characterization of magnesium hydroxide nanostructures on zeolite crystals. Microporous and Mesoporous Materials, 2011, 139, 120-129.	2.2	51
140	Vapor-Phase Transport as A Novel Route to Hyperbranched Polyamine-Oxide Hybrid Materials. Chemistry of Materials, 2013, 25, 613-622.	3.2	51
141	Thin Hydrogen-Selective SAPO-34 Zeolite Membranes for Enhanced Conversion and Selectivity in Propane Dehydrogenation Membrane Reactors. Chemistry of Materials, 2016, 28, 4397-4402.	3.2	51
142	Direct aromatization of CO2 via combined CO2 hydrogenation and zeolite-based acid catalysis. Journal of CO2 Utilization, 2021, 45, 101405.	3.3	51
143	Synthesis of Hydrophobic Molecular Sieves by Hydrothermal Treatment with Acetic Acid. Chemistry of Materials, 2001, 13, 1041-1050.	3.2	50
144	Guanidinylated poly(allylamine) supported on mesoporous silica for CO2 capture from flue gas. Fuel, 2014, 121, 79-85.	3.4	50

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145	Composite Polymer/Oxide Hollow Fiber Contactors: Versatile and Scalable Flow Reactors for Heterogeneous Catalytic Reactions in Organic Synthesis. Angewandte Chemie - International Edition, 2015, 54, 6470-6474.	7.2	50
146	Emulsion and controlled miniemulsion polymerization of the renewable monomer Î³â€methylâ€Î±â€methyleneâ€Î³â€butyrolactone. Journal of Polymer Science Part A, 2008, 46, 5929-5944.	2.5	49
147	Silica-Supported Sterically Hindered Amines for CO₂ Capture. Langmuir, 2018, 34, 12279-12292.	1.6	49
148	Propane Dehydrogenation over In₂O₃â€“Ga₂O₃â€“Al₂O₃ Mixed Oxides. ChemCatChem, 2016, 8, 214-221.	1.8	48
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