

Christopher W Jones

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331
papers

21,784
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78
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136
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514
ext. papers

24,549
ext. citations

8.5
avg, IF

7.38
L-index

#	Paper	IF	Citations
331	Adsorbent materials for carbon dioxide capture from large anthropogenic point sources. <i>ChemSusChem</i> , 2009 , 2, 796-854	8.3	1925
330	Direct Capture of CO from Ambient Air. <i>Chemical Reviews</i> , 2016 , 116, 11840-11876	68.1	895
329	Designing adsorbents for CO ₂ capture from flue gas-hyperbranched aminosilicas capable of capturing CO ₂ reversibly. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2902-3	16.4	636
328	A high-performance gas-separation membrane containing submicrometer-sized metal-organic framework crystals. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9863-6	16.4	558
327	Separation membranes. Interfacial microfluidic processing of metal-organic framework hollow fiber membranes. <i>Science</i> , 2014 , 345, 72-5	33.3	492
326	High efficiency nanocomposite sorbents for CO ₂ capture based on amine-functionalized mesoporous capsules. <i>Energy and Environmental Science</i> , 2011 , 4, 444-452	35.4	404
325	Organic-functionalized molecular sieves as shape-selective catalysts. <i>Nature</i> , 1998 , 393, 52-54	50.4	375
324	Nanoscale design to enable the revolution in renewable energy. <i>Energy and Environmental Science</i> , 2009 , 2, 559	35.4	311
323	Application of amine-tethered solid sorbents for direct CO ₂ capture from the ambient air. <i>Environmental Science & Technology</i> , 2011 , 45, 2420-7	10.3	306
322	Amine-oxide hybrid materials for acid gas separations. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15100		283
321	Synthesis-Structure-Property Relationships for Hyperbranched Aminosilica CO ₂ Adsorbents. <i>Advanced Functional Materials</i> , 2009 , 19, 3821-3832	15.6	249
320	Amine-tethered solid adsorbents coupling high adsorption capacity and regenerability for CO ₂ capture from ambient air. <i>ChemSusChem</i> , 2011 , 4, 628-35	8.3	227
319	Highly accessible catalytic sites on recyclable organosilane-functionalized magnetic nanoparticles: An alternative to functionalized porous silica catalysts. <i>Journal of Molecular Catalysis A</i> , 2006 , 253, 123-131		226
318	Modification of the Mg/DOBDC MOF with Amines to Enhance CO ₂ Adsorption from Ultradilute Gases. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1136-41	6.4	221
317	Acid-catalyzed conversion of sugars and furfurals in an ionic-liquid phase. <i>ChemSusChem</i> , 2009 , 2, 665-718.3		215
316	Stability of Zeolites in Hot Liquid Water. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 19582-19595	3.8	207
315	Mesoporous Alumina-Supported Amines as Potential Steam-Stable Adsorbents for Capturing CO ₂ from Simulated Flue Gas and Ambient Air. <i>Energy & Fuels</i> , 2011 , 25, 5528-5537	4.1	201

314	Depolymerization and hydrodeoxygenation of switchgrass lignin with formic acid. <i>ChemSusChem</i> , 2012 , 5, 667-75	8.3	200
313	CO(2) capture from dilute gases as a component of modern global carbon management. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2011 , 2, 31-52	8.9	196
312	Mizoroki-Heck coupling using immobilized molecular precatalysts: leaching active species from Pd pincers, entrapped Pd salts, and Pd NHC complexes. <i>Inorganic Chemistry</i> , 2007 , 46, 1865-75	5.1	194
311	Strong evidence of solution-phase catalysis associated with palladium leaching from immobilized thiols during Heck and Suzuki coupling of aryl iodides, bromides, and chlorides. <i>Journal of Catalysis</i> , 2007 , 251, 80-93	7.3	191
310	Dramatic enhancement of CO2 uptake by poly(ethyleneimine) using zirconsilicate supports. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10757-60	16.4	183
309	Rational approach to polymer-supported catalysts: synergy between catalytic reaction mechanism and polymer design. <i>Accounts of Chemical Research</i> , 2008 , 41, 1153-65	24.3	173
308	Expanding the utility of one-pot multistep reaction networks through compartmentation and recovery of the catalyst. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2209-12	16.4	168
307	Hybrid Zeolitic Imidazolate Frameworks: Controlling Framework Porosity and Functionality by Mixed-Linker Synthesis. <i>Chemistry of Materials</i> , 2012 , 24, 1930-1936	9.6	164
306	Steam-stripping for regeneration of supported amine-based CO(2) adsorbents. <i>ChemSusChem</i> , 2010 , 3, 899-903	8.3	160
305	Silica and polymer-tethered PdSCS-pincer complexes: evidence for precatalyst decomposition to form soluble catalytic species in Mizoroki-Heck chemistry. <i>Journal of Catalysis</i> , 2004 , 226, 101-110	7.3	159
304	Continuous polycrystalline zeolitic imidazolate framework-90 membranes on polymeric hollow fibers. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10615-8	16.4	156
303	Highly tunable molecular sieving and adsorption properties of mixed-linker zeolitic imidazolate frameworks. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4191-7	16.4	155
302	Amine-Oxide Hybrid Materials for CO2 Capture from Ambient Air. <i>Accounts of Chemical Research</i> , 2015 , 48, 2680-7	24.3	155
301	Sonication-induced Ostwald ripening of ZIF-8 nanoparticles and formation of ZIF-8/polymer composite membranes. <i>Microporous and Mesoporous Materials</i> , 2012 , 158, 292-299	5.3	153
300	Hollow Fiber Adsorbents for CO2 Removal from Flue Gas. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 7314-7324	3.9	153
299	Role of amine structure on carbon dioxide adsorption from ultradilute gas streams such as ambient air. <i>ChemSusChem</i> , 2012 , 5, 2058-64	8.3	151
298	Toward Single-Site Functional Materials Preparation of Amine-Functionalized Surfaces Exhibiting Site-Isolated Behavior. <i>Chemistry of Materials</i> , 2003 , 15, 1132-1139	9.6	150
297	Poly(allylamine)/Mesoporous Silica Composite Materials for CO2 Capture from Simulated Flue Gas or Ambient Air. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 14203-14210	3.9	148

296	SOx/NOx Removal from Flue Gas Streams by Solid Adsorbents: A Review of Current Challenges and Future Directions. <i>Energy & Fuels</i> , 2015 , 29, 5467-5486	4.1	144
295	Tuning cooperativity by controlling the linker length of silica-supported amines in catalysis and CO2 capture. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13950-3	16.4	143
294	Toward Benchmarking in Catalysis Science: Best Practices, Challenges, and Opportunities. <i>ACS Catalysis</i> , 2016 , 6, 2590-2602	13.1	139
293	Effect of Amine Surface Coverage on the Co-Adsorption of CO2 and Water: Spectral Deconvolution of Adsorbed Species. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 4194-200	6.4	139
292	Investigations into the Stability of Tethered Palladium(II) Pincer Complexes during Heck Catalysis. <i>Organometallics</i> , 2005 , 24, 4351-4361	3.8	139
291	Ionic-Liquid-Phase Hydrolysis of Pine Wood. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 1277-1286	3.9	133
290	Cooperative Catalysis with Acid-Base Bifunctional Mesoporous Silica: Impact of Grafting and Co-condensation Synthesis Methods on Material Structure and Catalytic Properties. <i>Chemistry of Materials</i> , 2012 , 24, 2433-2442	9.6	132
289	Direct Air Capture of CO2 Using Amine Functionalized MIL-101(Cr). <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5761-5768	8.3	131
288	Oxidative Degradation of Aminosilica Adsorbents Relevant to Postcombustion CO2 Capture. <i>Energy & Fuels</i> , 2011 , 25, 2416-2425	4.1	127
287	Structural changes of silica mesocellular foam supported amine-functionalized CO2 adsorbents upon exposure to steam. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3363-72	9.5	127
286	Using nature's blueprint to expand catalysis with Earth-abundant metals. <i>Science</i> , 2020 , 369,	33.3	124
285	On the Stability and Recyclability of Supported Metal-Ligand Complex Catalysts: Myths, Misconceptions and Critical Research Needs. <i>Topics in Catalysis</i> , 2010 , 53, 942-952	2.3	122
284	Toward single-site, immobilized molecular catalysts: site-isolated Ti ethylene polymerization catalysts supported on porous silica. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3052-3	16.4	118
283	Ring-expanding olefin metathesis: a route to highly active unsymmetrical macrocyclic oligomeric co-salen catalysts for the hydrolytic kinetic resolution of epoxides. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1105-12	16.4	117
282	Dilute Acid Hydrolysis of Loblolly Pine: A Comprehensive Approach. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 7131-7140	3.9	116
281	Aminosilane-grafted polymer/silica hollow fiber adsorbents for CO2 capture from flue gas. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3921-31	9.5	115
280	Important roles of enthalpic and entropic contributions to CO2 capture from simulated flue gas and ambient air using mesoporous silica grafted amines. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13170-3	16.4	106
279	Tunable CO2 Adsorbents by Mixed-Linker Synthesis and Postsynthetic Modification of Zeolitic Imidazolate Frameworks. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8198-8207	3.8	106

278	Tuning acid-base cooperativity to create next generation silica-supported organocatalysts. <i>Journal of Catalysis</i> , 2013 , 308, 60-72	7.3	105
277	Spacing and Site Isolation of Amine Groups in 3-Aminopropyl-Grafted Silica Materials: The Role of Protecting Groups. <i>Chemistry of Materials</i> , 2006 , 18, 5022-5032	9.6	102
276	Facile high-yield solvothermal deposition of inorganic nanostructures on zeolite crystals for mixed matrix membrane fabrication. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14662-3	16.4	101
275	Enhanced CO ₂ adsorption over polymeric amines supported on heteroatom-incorporated SBA-15 silica: impact of heteroatom type and loading on sorbent structure and adsorption performance. <i>Chemistry - A European Journal</i> , 2012 , 18, 16649-64	4.8	100
274	Controlling the density of amine sites on silica surfaces using benzyl spacers. <i>Langmuir</i> , 2006 , 22, 2676-84		98
273	Facet-Specific Stability of ZIF-8 in the Presence of Acid Gases Dissolved in Aqueous Solutions. <i>Chemistry of Materials</i> , 2016 , 28, 6960-6967	9.6	96
272	Aminopolymer/Silica Composite-Supported Pd Catalysts for Selective Hydrogenation of Alkynes. <i>ACS Catalysis</i> , 2013 , 3, 1700-1708	13.1	92
271	Stability of Supported Amine Adsorbents to SO ₂ and NO _x in Postcombustion CO ₂ Capture. 1. Single-Component Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 12192-12201	3.9	91
270	Dynamics of CO ₂ Adsorption on Amine Adsorbents. 2. Insights Into Adsorbent Design. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 15153-15162	3.9	89
269	ZIF-8 Membranes via Interfacial Microfluidic Processing in Polymeric Hollow Fibers: Efficient Propylene Separation at Elevated Pressures. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25337-42	9.5	89
268	Linking CO ₂ Sorption Performance to Polymer Morphology in Aminopolymer/Silica Composites through Neutron Scattering. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11749-59	16.4	88
267	Propane dehydrogenation catalyzed by gallosilicate MFI zeolites with perturbed acidity. <i>Journal of Catalysis</i> , 2017 , 345, 113-123	7.3	86
266	Poly(styrene)-supported co-salen complexes as efficient recyclable catalysts for the hydrolytic kinetic resolution of epichlorohydrin. <i>Chemistry - A European Journal</i> , 2005 , 12, 576-83	4.8	86
265	Highly dispersed palladium nanoparticles on ultra-porous silica mesocellular foam for the catalytic decarboxylation of stearic acid. <i>Microporous and Mesoporous Materials</i> , 2010 , 132, 174-180	5.3	84
264	CO ₂ capture via adsorption in amine-functionalized sorbents. <i>Current Opinion in Chemical Engineering</i> , 2016 , 12, 82-90	5.4	84
263	Role of Additives in Composite PEI/Oxide CO ₂ Adsorbents: Enhancement in the Amine Efficiency of Supported PEI by PEG in CO ₂ Capture from Simulated Ambient Air. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24748-59	9.5	82
262	Mixed-linker zeolitic imidazolate framework mixed-matrix membranes for aggressive CO ₂ separation from natural gas. <i>Microporous and Mesoporous Materials</i> , 2014 , 192, 43-51	5.3	82
261	Elucidation of Surface Species through in Situ FTIR Spectroscopy of Carbon Dioxide Adsorption on Amine-Grafted SBA-15. <i>ChemSusChem</i> , 2017 , 10, 266-276	8.3	81

260	Thermal, Oxidative and CO ₂ Induced Degradation of Primary Amines Used for CO ₂ Capture: Effect of Alkyl Linker on Stability. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12302-12311	3.8	80
259	Amine-functionalized porous silicas as adsorbents for aldehyde abatement. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5569-77	9.5	80
258	Design of Aminopolymer Structure to Enhance Performance and Stability of CO Sorbents: Poly(propylenimine) vs Poly(ethylenimine). <i>Journal of the American Chemical Society</i> , 2017 , 139, 3627-3630	16.4	79
257	Propane Dehydrogenation over Alumina-Supported Iron/Phosphorus Catalysts: Structural Evolution of Iron Species Leading to High Activity and Propylene Selectivity. <i>ACS Catalysis</i> , 2016 , 6, 5673-5683	13.1	79
256	A High-Performance Gas-Separation Membrane Containing Submicrometer-Sized Metal-Organic Framework Crystals. <i>Angewandte Chemie</i> , 2010 , 122, 10059-10062	3.6	79
255	Fluidic Processing of High-Performance ZIF-8 Membranes on Polymeric Hollow Fibers: Mechanistic Insights and Microstructure Control. <i>Advanced Functional Materials</i> , 2016 , 26, 5011-5018	15.6	79
254	Acid-Base Bifunctional Shell Cross-Linked Micelle Nanoreactor for One-Pot Tandem Reaction. <i>ACS Catalysis</i> , 2016 , 6, 784-787	13.1	78
253	A practical one-pot synthesis of enantiopure unsymmetrical salen ligands. <i>Journal of Organic Chemistry</i> , 2006 , 71, 2903-6	4.2	77
252	Synergy between Ceria Oxygen Vacancies and Cu Nanoparticles Facilitates the Catalytic Conversion of CO ₂ to CO under Mild Conditions. <i>ACS Catalysis</i> , 2018 , 8, 12056-12066	13.1	76
251	Modified Mesoporous Silica Gas Separation Membranes on Polymeric Hollow Fibers. <i>Chemistry of Materials</i> , 2011 , 23, 3025-3028	9.6	75
250	Dehydration, dehydroxylation, and rehydroxylation of single-walled aluminosilicate nanotubes. <i>ACS Nano</i> , 2010 , 4, 4897-907	16.7	74
249	Design, Behavior, and Recycling of Silica-Supported CuBr ₂ -Bipyridine ATRP Catalysts. <i>Macromolecules</i> , 2004 , 37, 1190-1203	5.5	74
248	Poly(L-lysine) brush-mesoporous silica hybrid material as a biomolecule-based adsorbent for CO ₂ capture from simulated flue gas and air. <i>Chemistry - A European Journal</i> , 2011 , 17, 10556-61	4.8	73
247	Continuous Reversible Addition-Fragmentation Chain Transfer Polymerization in Miniemulsion Utilizing a Multi-Tube Reaction System. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 1064-1068	4.8	73
246	Systems Design and Economic Analysis of Direct Air Capture of CO ₂ through Temperature Vacuum Swing Adsorption Using MIL-101(Cr)-PEI-800 and mmen-Mg ₂ (dobpdc) MOF Adsorbents. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 750-764	3.9	71
245	Post-spinning infusion of poly(ethyleneimine) into polymer/silica hollow fiber sorbents for carbon dioxide capture. <i>Chemical Engineering Journal</i> , 2013 , 221, 166-175	14.7	71
244	Direct synthesis of single-walled aminoaluminosilicate nanotubes with enhanced molecular adsorption selectivity. <i>Nature Communications</i> , 2014 , 5, 3342	17.4	70
243	Direct CO ₂ Capture from Air using Poly(ethyleneimine)-Loaded Polymer/Silica Fiber Sorbents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5264-5273	8.3	67

242	Steam induced structural changes of a poly(ethylenimine) impregnated alumina sorbent for CO ₂ extraction from ambient air. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9245-55	9.5	67
241	Tuning of higher alcohol selectivity and productivity in CO hydrogenation reactions over K/MoS ₂ domains supported on mesoporous activated carbon and mixed MgAl oxide. <i>Journal of Catalysis</i> , 2015 , 324, 88-97	7.3	66
240	Continuous Living Polymerization in Miniemulsion Using Reversible Addition Fragmentation Chain Transfer (RAFT) in a Tubular Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 2484-2493	3.9	66
239	Single-Walled Aluminosilicate Nanotubes with Organic-Modified Interiors. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7676-7685	3.8	65
238	Enhanced cooperativity through design: pendant Co(III)-salen polymer brush catalysts for the hydrolytic kinetic resolution of epichlorohydrin (salen=N,N'-bis(salicylidene)ethylenediamine dianion). <i>Chemistry - A European Journal</i> , 2008 , 14, 7306-13	4.8	65
237	Oxidative Stability of Amino Polymer-Alumina Hybrid Adsorbents for Carbon Dioxide Capture. <i>Energy & Fuels</i> , 2013 , 27, 1547-1554	4.1	64
236	Facilely synthesized meso-macroporous polymer as support of poly(ethyleneimine) for highly efficient and selective capture of CO ₂ . <i>Chemical Engineering Journal</i> , 2017 , 314, 466-476	14.7	63
235	Catalytic propane dehydrogenation over In ₂ O ₃ -ZnO mixed oxides. <i>Applied Catalysis A: General</i> , 2015 , 498, 167-175	5.1	62
234	Homogeneous and heterogeneous 4-(N,N-dialkylamino)pyridines as effective single component catalysts in the synthesis of propylene carbonate. <i>Journal of Molecular Catalysis A</i> , 2007 , 261, 160-166		62
233	Hybrid Sulfonic Acid Catalysts Based on Silica-Supported Poly(Styrene Sulfonic Acid) Brush Materials and Their Application in Ester Hydrolysis. <i>ACS Catalysis</i> , 2011 , 1, 674-681	13.1	60
232	Magnetic Nanoparticle Polymer Brush Catalysts: Alternative Hybrid Organic/Inorganic Structures to Obtain High, Local Catalyst Loadings for Use in Organic Transformations. <i>Catalysis Letters</i> , 2009 , 131, 425-431	2.8	59
231	Formation and Oxidation/Gasification of Carbonaceous Deposits: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 9760-9818	3.9	59
230	Vapor phase hydrogenation of furfural over nickel mixed metal oxide catalysts derived from layered double hydroxides. <i>Applied Catalysis A: General</i> , 2016 , 517, 187-195	5.1	58
229	Evaluation of CO ₂ adsorption dynamics of polymer/silica supported poly(ethylenimine) hollow fiber sorbents in rapid temperature swing adsorption. <i>International Journal of Greenhouse Gas Control</i> , 2014 , 21, 61-71	4.2	58
228	Hierarchical Ga-MFI Catalysts for Propane Dehydrogenation. <i>Chemistry of Materials</i> , 2017 , 29, 7213-7229	9.6	58
227	Kinetic and Mechanistic Examination of Acid-Base Bifunctional Aminosilica Catalysts in Aldol and Nitroaldol Condensations. <i>ACS Catalysis</i> , 2016 , 6, 460-468	13.1	56
226	Silica-immobilized chiral dirhodium(II) catalyst for enantioselective carbenoid reactions. <i>Organic Letters</i> , 2013 , 15, 6136-9	6.2	56
225	Reaction pathways over copper and cerium oxide catalysts for direct synthesis of imines from amines under aerobic conditions. <i>Journal of Catalysis</i> , 2013 , 301, 116-124	7.3	55

224	Dynamics of CO ₂ Adsorption on Amine Adsorbents. 1. Impact of Heat Effects. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 15145-15152	3.9	54
223	Monolith-Supported Amine-Functionalized Mg(dobpdc) Adsorbents for CO Capture. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17042-17050	9.5	53
222	Miniemulsion reversible addition fragmentation chain transfer polymerization of vinyl acetate. <i>Journal of Polymer Science Part A</i> , 2005 , 43, 2188-2193	2.5	53
221	Effect of support structure on CO ₂ adsorption properties of pore-expanded hyperbranched aminosilicas. <i>Microporous and Mesoporous Materials</i> , 2012 , 151, 231-240	5.3	52
220	Stability of Supported Amine Adsorbents to SO ₂ and NO _x in Postcombustion CO ₂ Capture. 2. Multicomponent Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 12103-12110	3.9	51
219	Functionalization of the Internal Surface of Pure-Silica MFI Zeolite with Aliphatic Alcohols. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3543-3551	3.8	51
218	RAFT Inverse Miniemulsion Polymerization of Acrylamide. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 1010-1016	4.8	51
217	Synthesis of Block Copolymers Using RAFT Miniemulsion Polymerization in a Train of CSTRs. <i>Macromolecules</i> , 2004 , 37, 9345-9354	5.5	51
216	Shaping amine-based solid CO ₂ adsorbents: Effects of pelletization pressure on the physical and chemical properties. <i>Microporous and Mesoporous Materials</i> , 2015 , 204, 34-42	5.3	50
215	Spatial arrangement and acid strength effects on acid-base cooperatively catalyzed aldol condensation on aminosilica materials. <i>Journal of Catalysis</i> , 2015 , 325, 19-25	7.3	50
214	Dynamic CO ₂ adsorption performance of internally cooled silica-supported poly(ethylenimine) hollow fiber sorbents. <i>AIChE Journal</i> , 2014 , 60, 3878-3887	3.6	50
213	Origins of Unusual Alcohol Selectivities over Mixed MgAl Oxide-Supported K/MoS ₂ Catalysts for Higher Alcohol Synthesis from Syngas. <i>ACS Catalysis</i> , 2013 , 3, 1665-1675	13.1	50
212	Probing Intramolecular versus Intermolecular CO ₂ Adsorption on Amine-Grafted SBA-15. <i>Langmuir</i> , 2015 , 31, 13350-60	4	49
211	Silica-Immobilized Zinc Diimine Catalysts for the Copolymerization of Epoxides and Carbon Dioxide. <i>Organometallics</i> , 2003 , 22, 2571-2580	3.8	49
210	Effect of Humidity on the CO ₂ Adsorption of Tertiary Amine Grafted SBA-15. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23480-23487	3.8	48
209	Composite polymer/oxide hollow fiber contactors: versatile and scalable flow reactors for heterogeneous catalytic reactions in organic synthesis. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6470-4	16.4	47
208	Continuous Zeolite MFI Membranes Fabricated from 2D MFI Nanosheets on Ceramic Hollow Fibers. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8201-8205	16.4	45
207	Poly(amide-imide)/silica supported PEI hollow fiber sorbents for postcombustion CO ₂ capture by RTSA. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19336-46	9.5	45

206	Guanidinylated poly(allylamine) supported on mesoporous silica for CO ₂ capture from flue gas. <i>Fuel</i> , 2014 , 121, 79-85	7.1	45
205	Poly(ethylenimine)-Functionalized Monolithic Alumina Honeycomb Adsorbents for CO ₂ Capture from Air. <i>ChemSusChem</i> , 2016 , 9, 1859-68	8.3	45
204	A Mesoporous Cobalt Aluminate Spinel Catalyst for Nonoxidative Propane Dehydrogenation. <i>ChemCatChem</i> , 2017 , 9, 3330-3337	5.2	44
203	An efficient low-temperature route to nitrogen-doping and activation of mesoporous carbons for CO ₂ capture. <i>Chemical Communications</i> , 2015 , 51, 17261-4	5.8	44
202	PIM-1 as a Solution-Processable Molecular Basket for CO ₂ Capture from Dilute Sources. <i>ACS Macro Letters</i> , 2015 , 4, 1415-1419	6.6	44
201	Vapor-Phase Transport as A Novel Route to Hyperbranched Polyamine-Oxide Hybrid Materials. <i>Chemistry of Materials</i> , 2013 , 25, 613-622	9.6	44
200	Tailoring molecular sieve properties during SDA removal via solvent extraction. <i>Microporous and Mesoporous Materials</i> , 2001 , 48, 57-64	5.3	44
199	Aminopolymer-Impregnated Hierarchical Silica Structures: Unexpected Equivalent CO ₂ Uptake under Simulated Air Capture and Flue Gas Capture Conditions. <i>Chemistry of Materials</i> , 2019 , 31, 5229-5237	9.6	43
198	Solvothermal deposition and characterization of magnesium hydroxide nanostructures on zeolite crystals. <i>Microporous and Mesoporous Materials</i> , 2011 , 139, 120-129	5.3	43
197	Importance of counterion reactivity on the deactivation of Co-salen catalysts in the hydrolytic kinetic resolution of epichlorohydrin. <i>Inorganic Chemistry</i> , 2007 , 46, 8887-96	5.1	43
196	Synthesis of Hydrophobic Molecular Sieves by Hydrothermal Treatment with Acetic Acid. <i>Chemistry of Materials</i> , 2001 , 13, 1041-1050	9.6	43
195	Emulsion and controlled miniemulsion polymerization of the renewable monomer ϵ -methyl- ϵ -methylene- ϵ -butyrolactone. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 5929-5944	2.5	42
194	Thin Hydrogen-Selective SAPO-34 Zeolite Membranes for Enhanced Conversion and Selectivity in Propane Dehydrogenation Membrane Reactors. <i>Chemistry of Materials</i> , 2016 , 28, 4397-4402	9.6	41
193	Enhanced formaldehyde-vapor adsorption capacity of polymeric amine-incorporated aminosilicas. <i>Chemistry - A European Journal</i> , 2014 , 20, 6381-90	4.8	41
192	Propane Dehydrogenation over In ₂ O ₃ /Ga ₂ O ₃ /Al ₂ O ₃ Mixed Oxides. <i>ChemCatChem</i> , 2016 , 8, 214-221	5.2	41
191	The "Missing" Bicarbonate in CO Chemisorption Reactions on Solid Amine Sorbents. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8648-8651	16.4	41
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