

# Mark E Davis

## List of Publications by Year in descending order

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216  
papers

40,166  
citations

4641

85  
h-index

2375

198  
g-index

224  
all docs

224  
docs citations

224  
times ranked

34806  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ordered porous materials for emerging applications. <i>Nature</i> , 2002, 417, 813-821.	13.7	4,882
2	Nanoparticle therapeutics: an emerging treatment modality for cancer. <i>Nature Reviews Drug Discovery</i> , 2008, 7, 771-782.	21.5	3,710
3	Evidence of RNAi in humans from systemically administered siRNA via targeted nanoparticles. <i>Nature</i> , 2010, 464, 1067-1070.	13.7	2,292
4	Cyclodextrin-based pharmaceuticals: past, present and future. <i>Nature Reviews Drug Discovery</i> , 2004, 3, 1023-1035.	21.5	1,636
5	Zeolite and molecular sieve synthesis. <i>Chemistry of Materials</i> , 1992, 4, 756-768.	3.2	1,362
6	The First Targeted Delivery of siRNA in Humans via a Self-Assembling, Cyclodextrin Polymer-Based Nanoparticle: From Concept to Clinic. <i>Molecular Pharmaceutics</i> , 2009, 6, 659-668.	2.3	884
7	Tin-containing zeolites are highly active catalysts for the isomerization of glucose in water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6164-6168.	3.3	861
8	Impact of tumor-specific targeting on the biodistribution and efficacy of siRNA nanoparticles measured by multimodality <i>in vivo</i> imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15549-15554.	3.3	760
9	Insights into the kinetics of siRNA-mediated gene silencing from live-cell and live-animal bioluminescent imaging. <i>Nucleic Acids Research</i> , 2006, 34, 322-333.	6.5	752
10	A molecular sieve with eighteen-membered rings. <i>Nature</i> , 1988, 331, 698-699.	13.7	689
11	PEGylation significantly affects cellular uptake and intracellular trafficking of non-viral gene delivery particles. <i>European Journal of Cell Biology</i> , 2004, 83, 97-111.	1.6	646
12	Mechanism of active targeting in solid tumors with transferrin-containing gold nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1235-1240.	3.3	614
13	Mechanism of Glucose Isomerization Using a Solid Lewis Acid Catalyst in Water. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8954-8957.	7.2	612
14	One-Pot Synthesis of 5-(Hydroxymethyl)furfural from Carbohydrates using Tin-Beta Zeolite. <i>ACS Catalysis</i> , 2011, 1, 408-410.	5.5	607
15	Sequence-Specific Knockdown of EWS-FLI1 by Targeted, Nonviral Delivery of Small Interfering RNA Inhibits Tumor Growth in a Murine Model of Metastatic Ewing's Sarcoma. <i>Cancer Research</i> , 2005, 65, 8984-8992.	0.4	560
16	Small-Pore Zeolites: Synthesis and Catalysis. <i>Chemical Reviews</i> , 2018, 118, 5265-5329.	23.0	534
17	Molecular imprinting of bulk, microporous silica. <i>Nature</i> , 2000, 403, 286-289.	13.7	500
18	Synthesis of Pure Alumina Mesoporous Materials. <i>Chemistry of Materials</i> , 1996, 8, 1451-1464.	3.2	412

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19	Organic-functionalized molecular sieves as shape-selective catalysts. <i>Nature</i> , 1998, 393, 52-54.	13.7	412
20	New vistas in zeolite and molecular sieve catalysis. <i>Accounts of Chemical Research</i> , 1993, 26, 111-115.	7.6	408
21	Cooperative catalysis by silica-supported organic functional groups. <i>Chemical Society Reviews</i> , 2008, 37, 1118.	18.7	406
22	Non-viral gene delivery systems. <i>Current Opinion in Biotechnology</i> , 2002, 13, 128-131.	3.3	405
23	Transcytosis and brain uptake of transferrin-containing nanoparticles by tuning avidity to transferrin receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8662-8667.	3.3	391
24	Administration in non-human primates of escalating intravenous doses of targeted nanoparticles containing ribonucleotide reductase subunit M2 siRNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5715-5721.	3.3	384
25	Mechanism of Structure Direction in the Synthesis of Si-ZSM-5: An Investigation by Intermolecular <sup>1</sup> H- <sup>29</sup> Si CP MAS NMR. <i>The Journal of Physical Chemistry</i> , 1994, 98, 4647-4653.	2.9	368
26	Metalloenzyme-like catalyzed isomerizations of sugars by Lewis acid zeolites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9727-9732.	3.3	354
27	Activation of Carbonyl-Containing Molecules with Solid Lewis Acids in Aqueous Media. <i>ACS Catalysis</i> , 2011, 1, 1566-1580.	5.5	349
28	Clinical experiences with systemically administered siRNA-based therapeutics in cancer. <i>Nature Reviews Drug Discovery</i> , 2015, 14, 843-856.	21.5	349
29	Hydroformylation by supported aqueous-phase catalysis: a new class of heterogeneous catalysts. <i>Nature</i> , 1989, 339, 454-455.	13.7	342
30	Nanotechnology and Cancer. <i>Annual Review of Medicine</i> , 2008, 59, 251-265.	5.0	337
31	Correlating animal and human phase Ia/Ib clinical data with CALAA-01, a targeted, polymer-based nanoparticle containing siRNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11449-11454.	3.3	325
32	Mechanisms of Structure Direction in the Synthesis of Pure-Silica Zeolites. 1. Synthesis of TPA/Si-ZSM-5. <i>Chemistry of Materials</i> , 1995, 7, 920-928.	3.2	308
33	Polycation-siRNA nanoparticles can disassemble at the kidney glomerular basement membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3137-3142.	3.3	299
34	Functional polarity is introduced by Dicer processing of short substrate RNAs. <i>Nucleic Acids Research</i> , 2005, 33, 4140-4156.	6.5	294
35	Framework and Extraframework Tin Sites in Zeolite Beta React Glucose Differently. <i>ACS Catalysis</i> , 2012, 2, 2705-2713.	5.5	274
36	Physicochemical and Biological Characterization of Targeted, Nucleic Acid-Containing Nanoparticles. <i>Bioconjugate Chemistry</i> , 2007, 18, 456-468.	1.8	270

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37	Active Sites in Sn-Beta for Glucose Isomerization to Fructose and Epimerization to Mannose. ACS Catalysis, 2014, 4, 2288-2297.	5.5	254
38	Synthesis of terephthalic acid via Diels-Alder reactions with ethylene and oxidized variants of 5-hydroxymethylfurfural. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8363-8367.	3.3	248
39	Zeolites from a Materials Chemistry Perspective. Chemistry of Materials, 2014, 26, 239-245.	3.2	242
40	Base catalysis by alkali-modified zeolites I. Catalytic activity. Journal of Catalysis, 1989, 116, 263-278.	3.1	237
41	Design and synthesis of a heterogeneous asymmetric catalyst. Nature, 1994, 370, 449-450.	13.7	236
42	SiO <sub>2</sub> -capped HOSi Hydrogen Bonds in As-Synthesized High-Silica Zeolites. The Journal of Physical Chemistry, 1995, 99, 12588-12596.	2.9	233
43	Rational Catalyst Design via Imprinted Nanostructured Materials. Chemistry of Materials, 1996, 8, 1820-1839.	3.2	226
44	Zeolites and molecular sieves: not just ordinary catalysts. Industrial & Engineering Chemistry Research, 1991, 30, 1675-1683.	1.8	223
45	Increased brain uptake of targeted nanoparticles by adding an acid-cleavable linkage between transferrin and the nanoparticle core. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12486-12491.	3.3	215
46	Preclinical Efficacy of the Camptothecin-Polymer Conjugate IT-101 in Multiple Cancer Models. Clinical Cancer Research, 2006, 12, 1606-1614.	3.2	213
47	Guest/Host Relationships in the Synthesis of the Novel Cage-Based Zeolites SSZ-35, SSZ-36, and SSZ-39. Journal of the American Chemical Society, 2000, 122, 263-273.	6.6	211
48	Thermochemistry of Pure-Silica Zeolites. Journal of Physical Chemistry B, 2000, 104, 10001-10011.	1.2	200
49	Mechanism of Structure Direction in the Synthesis of Pure-Silica Zeolites. 2. Hydrophobic Hydration and Structural Specificity. Chemistry of Materials, 1995, 7, 1453-1463.	3.2	193
50	Imaging the Assembly Process of the Organic-Mediated Synthesis of a Zeolite. Chemistry - A European Journal, 1999, 5, 2083-2088.	1.7	173
51	Investigations into the nature of a silicoaluminophosphate with the faujasite structure. Journal of the American Chemical Society, 1987, 109, 2686-2691.	6.6	171
52	Properties of organic cations that lead to the structure-direction of high-silica molecular sieves. Microporous Materials, 1996, 6, 213-229.	1.6	170
53	Characterization of the Extra-Large-Pore Zeolite UTD-1. Journal of the American Chemical Society, 1997, 119, 8474-8484.	6.6	168
54	Impact of tumor-specific targeting and dosing schedule on tumor growth inhibition after intravenous administration of siRNA-containing nanoparticles. Biotechnology and Bioengineering, 2008, 99, 975-985.	1.7	168

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55	VPI-5: The first molecular sieve with pores larger than 10 Å...ngstroms. <i>Zeolites</i> , 1988, 8, 362-366.	0.9	167
56	Design and development of IT-101, a cyclodextrin-containing polymer conjugate of camptothecin. <i>Advanced Drug Delivery Reviews</i> , 2009, 61, 1189-1192.	6.6	165
57	Clinical Developments in Nanotechnology for Cancer Therapy. <i>Pharmaceutical Research</i> , 2011, 28, 187-199.	1.7	161
58	Pharmacokinetics and tumor dynamics of the nanoparticle IT-101 from PET imaging and tumor histological measurements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11394-11399.	3.3	160
59	Potent siRNA Inhibitors of Ribonucleotide Reductase Subunit RRM2 Reduce Cell Proliferation In vitro and In vivo. <i>Clinical Cancer Research</i> , 2007, 13, 2207-2215.	3.2	155
60	Monosaccharide and disaccharide isomerization over Lewis acid sites in hydrophobic and hydrophilic molecular sieves. <i>Journal of Catalysis</i> , 2013, 308, 176-188.	3.1	150
61	The Quest For Extra Large Pore, Crystalline Molecular Sieves. <i>Chemistry - A European Journal</i> , 1997, 3, 1745-1750.	1.7	148
62	CRLX101 nanoparticles localize in human tumors and not in adjacent, nonneoplastic tissue after intravenous dosing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3850-3854.	3.3	144
63	Pharmacokinetics and biodistribution of the camptothecin polymer conjugate IT-101 in rats and tumor-bearing mice. <i>Cancer Chemotherapy and Pharmacology</i> , 2006, 57, 654-662.	1.1	139
64	Self Pillared, Single Unit Cell MFI Zeolite Nanosheets and Their Use for Glucose and Lactose Isomerization. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10848-10851.	7.2	138
65	CIT-1: A New Molecular Sieve with Intersecting Pores Bounded by 10- and 12-Rings. <i>Journal of the American Chemical Society</i> , 1995, 117, 3766-3779.	6.6	136
66	CIT-5: a high-silica zeolite with 14-ring pores. <i>Chemical Communications</i> , 1997, , 2179-2180.	2.2	134
67	Organizing for better synthesis. <i>Nature</i> , 1993, 364, 391-392.	13.7	129
68	Effect of Cage Size on the Selective Conversion of Methanol to Light Olefins. <i>ACS Catalysis</i> , 2012, 2, 2490-2495.	5.5	128
69	Effect of siRNA nuclease stability on the in vitro and in vivo kinetics of siRNA-mediated gene silencing. <i>Biotechnology and Bioengineering</i> , 2007, 97, 909-921.	1.7	123
70	Beyond shape selective catalysis with zeolites: Hydrophobic void spaces in zeolites enable catalysis in liquid water. <i>AIChE Journal</i> , 2013, 59, 3349-3358.	1.8	120
71	Effect of Heteroatom Concentration in SSZ-13 on the Methanol-to-Olefins Reaction. <i>ACS Catalysis</i> , 2016, 6, 542-550.	5.5	117
72	Impact of Controlling the Site Distribution of Al Atoms on Catalytic Properties in Ferrierite-Type Zeolites. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1096-1102.	1.5	114

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73	Investigations into the Mechanisms of Molecular Recognition with Imprinted Polymers. <i>Macromolecules</i> , 1999, 32, 4113-4121.	2.2	112
74	Synthesis, Characterization, and Structure Solution of CIT-5, a New, High-Silica, Extra-Large-Pore Molecular Sieve. <i>Journal of Physical Chemistry B</i> , 1998, 102, 7139-7147.	1.2	109
75	Enantiomerically enriched, polycrystalline molecular sieves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5101-5106.	3.3	109
76	Base catalysis by alkali-modified zeolites II. Nature of the active site. <i>Journal of Catalysis</i> , 1989, 116, 279-284.	3.1	107
77	ZrO <sub>2</sub> promoted with sulfate, iron and manganese: a solid superacid catalyst capable of low temperature n-butane isomerization. <i>Catalysis Letters</i> , 1994, 25, 21-28.	1.4	102
78	Synthesis of a Specified, Silica Molecular Sieve by Using Computationally Predicted Organic Structure-Directing Agents. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8372-8374.	7.2	100
79	Tandem catalysis for the production of alkyl lactates from ketohexoses at moderate temperatures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11777-11782.	3.3	94
80	Route to Renewable PET: Reaction Pathways and Energetics of Diels-Alder and Dehydrative Aromatization Reactions Between Ethylene and Biomass-Derived Furans Catalyzed by Lewis Acid Molecular Sieves. <i>ACS Catalysis</i> , 2015, 5, 5904-5913.	5.5	92
81	Methanol-to-Olefins Catalysis with Hydrothermally Treated Zeolite SSZ-39. <i>ACS Catalysis</i> , 2015, 5, 6078-6085.	5.5	92
82	Characterization and catalytic activity of titanium containing SSZ-33 and aluminum-free zeolite beta. <i>Applied Catalysis A: General</i> , 1996, 143, 53-73.	2.2	90
83	Organic-functionalized molecular sieves (OFMSs). <i>Microporous and Mesoporous Materials</i> , 1999, 33, 223-240.	2.2	90
84	Challenges of and Insights into Acid-Catalyzed Transformations of Sugars. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22815-22833.	1.5	88
85	Structure-directing effects in the crown ether-mediated syntheses of FAU and EMT zeolites. <i>Microporous Materials</i> , 1993, 1, 265-282.	1.6	87
86	Organic-Free Synthesis of CHA-Type Zeolite Catalysts for the Methanol-to-Olefins Reaction. <i>ACS Catalysis</i> , 2015, 5, 4456-4465.	5.5	87
87	Thermodynamics of Pure-Silica Molecular Sieve Synthesis. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3629-3638.	1.2	86
88	Cage-Defining Ring: A Molecular Sieve Structural Indicator for Light Olefin Product Distribution from the Methanol-to-Olefins Reaction. <i>ACS Catalysis</i> , 2019, 9, 6012-6019.	5.5	84
89	Location of Pyridine Guest Molecules in an Electroneutral {3 <sup>+</sup> }[SiO <sub>4</sub> /2] Host Framework: Single-Crystal Structures of the As-Synthesized and Calcined Forms of High-Silica Ferrierite. <i>The Journal of Physical Chemistry</i> , 1996, 100, 5039-5049.	2.9	79
90	Reflections on Routes to Enantioselective Solid Catalysts. <i>Topics in Catalysis</i> , 2003, 25, 3-7.	1.3	79

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91	Systemic delivery of siRNA nanoparticles targeting RRM2 suppresses head and neck tumor growth. <i>Journal of Controlled Release</i> , 2012, 159, 384-392.	4.8	78
92	Facile Synthesis and Catalysis of Pure-Silica and Heteroatom LTA. <i>Chemistry of Materials</i> , 2015, 27, 7774-7779.	3.2	75
93	SSZ-35 and SSZ-44: Two Related Zeolites Containing Pores Circumscribed by Ten- and Eighteen-Membered Rings. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1269-1272.	7.2	74
94	A Nanoparticle-Based Model Delivery System To Guide the Rational Design of Gene Delivery to the Liver. 2. In Vitro and In Vivo Uptake Results. <i>Bioconjugate Chemistry</i> , 2005, 16, 1071-1080.	1.8	73
95	A Chromium Hydroxide/MIL-101(Cr) MOF Composite Catalyst and Its Use for the Selective Isomerization of Glucose to Fructose. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4926-4930.	7.2	73
96	Imidazolium structure directing agents in zeolite synthesis: Exploring guest/host relationships in the synthesis of SSZ-70. <i>Microporous and Mesoporous Materials</i> , 2010, 130, 255-265.	2.2	71
97	Proton Conductivity of Acid-Functionalized Zeolite Beta, MCM-41, and MCM-48: Effect of Acid Strength. <i>Chemistry of Materials</i> , 2008, 20, 5122-5124.	3.2	67
98	Low-temperature, manganese oxide-based, thermochemical water splitting cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9260-9264.	3.3	62
99	Synthesis and characterization of pure-silica and boron-substituted SSZ-24 using N(16) methylsparteinium bromide as structure-directing agent. <i>Microporous Materials</i> , 1994, 3, 61-69.	1.6	61
100	Catalysis by framework zinc in silica-based molecular sieves. <i>Chemical Science</i> , 2016, 7, 2264-2274.	3.7	61
101	Titanium-Beta Zeolites Catalyze the Stereospecific Isomerization of $\alpha$ -Glucose to $\beta$ -Sorbitose via Intramolecular C5 $\rightarrow$ C1 Hydride Shift. <i>ACS Catalysis</i> , 2013, 3, 1469-1476.	5.5	60
102	Pharmacodynamic and pharmacogenomic study of the nanoparticle conjugate of camptothecin CRLX101 for the treatment of cancer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 1477-1486.	1.7	58
103	Heterogeneous Catalysis for the Conversion of Sugars into Polymers. <i>Topics in Catalysis</i> , 2015, 58, 405-409.	1.3	58
104	Influence of Organic Structure Directing Agent Isomer Distribution on the Synthesis of SSZ-39. <i>Chemistry of Materials</i> , 2015, 27, 2695-2702.	3.2	57
105	SSZ-33: A Promising Material for Use as a Hydrocarbon Trap. <i>Journal of Physical Chemistry B</i> , 2004, 108, 13059-13061.	1.2	56
106	Synthesis and Characterization of CIT-13, a Germanosilicate Molecular Sieve with Extra-Large Pore Openings. <i>Chemistry of Materials</i> , 2016, 28, 6250-6259.	3.2	56
107	Single-Antibody, Targeted Nanoparticle Delivery of Camptothecin. <i>Molecular Pharmaceutics</i> , 2013, 10, 2558-2567.	2.3	55
108	Structural and kinetic changes to small-pore Cu-zeolites after hydrothermal aging treatments and selective catalytic reduction of NO <sub>x</sub> with ammonia. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 168-179.	1.9	54

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109	Synthesis of CIT-6, a zirconosilicate with the *BEA topology. Topics in Catalysis, 1999, 9, 35-42.	1.3	51
110	Synthesis of Hydrophobic Molecular Sieves by Hydrothermal Treatment with Acetic Acid. Chemistry of Materials, 2001, 13, 1041-1050.	3.2	50
111	Preclinical Results of Camptothecin-Polymer Conjugate (IT-101) in Multiple Human Lymphoma Xenograft Models. Clinical Cancer Research, 2009, 15, 4365-4373.	3.2	50
112	VPI-8: A High-Silica Molecular Sieve with a Novel "Pinwheel" Building Unit and Its Implications for the Synthesis of Extra-Large Pore Molecular Sieves. Journal of the American Chemical Society, 1996, 118, 7299-7310.	6.6	48
113	A New Catalyst for the Selective Oxidation of Butane and Propane This work was funded by BP.. Angewandte Chemie - International Edition, 2002, 41, 858.	7.2	48
114	Physicochemical Properties and Catalytic Behavior of the Molecular Sieve SSZ-70. Chemistry of Materials, 2010, 22, 2563-2572.	3.2	47
115	Synthesis of RTH-Type Zeolites Using a Diverse Library of Imidazolium Cations. Chemistry of Materials, 2015, 27, 3756-3762.	3.2	47
116	Organocations in Zeolite Synthesis: Fused Bicyclo [1.m.0] Cations and the Discovery of Zeolite SSZ-48. Journal of the American Chemical Society, 2002, 124, 7024-7034.	6.6	46
117	Carbonylation of Dimethyl Ether to Methyl Acetate over SSZ-13. ACS Catalysis, 2020, 10, 842-851.	5.5	46
118	VPI-5, AlPO4-8, and MCM-9: similarities and differences. Zeolites, 1989, 9, 436-439.	0.9	45
119	Raman and 29Si MAS NMR spectroscopy of framework materials containing three-membered rings. Microporous Materials, 1993, 1, 57-65.	1.6	45
120	Intrazeolite rhodium carbonyl and rhodium carbonyl phosphine complexes. Inorganic Chemistry, 1984, 23, 52-56.	1.9	43
121	Nanoparticle therapeutics: an emerging treatment modality for cancer. , 2009, , 239-250.		43
122	Nickel-Exchanged Zirconosilicate Catalysts for the Oligomerization of Propylene. ACS Catalysis, 2014, 4, 4189-4195.	5.5	42
123	High resolution, quasi-equilibrium sorption studies of molecular sieves. Catalysis Letters, 1990, 5, 333-347.	1.4	41
124	Solid State NMR Characterization of Sn-Beta Zeolites that Catalyze Glucose Isomerization and Epimerization. Topics in Catalysis, 2015, 58, 435-440.	1.3	40
125	CIT-7, a crystalline, molecular sieve with pores bounded by 8 and 10-membered rings. Chemical Science, 2015, 6, 1728-1734.	3.7	40
126	Pillared Sn-MWW Prepared by a Solid-State Exchange Method and its Use as a Lewis Acid Catalyst. ChemCatChem, 2016, 8, 1274-1278.	1.8	40



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127	Further Studies on How the Nature of Zeolite Cavities That Are Bounded by Small Pores Influences the Conversion of Methanol to Light Olefins. <i>ChemPhysChem</i> , 2018, 19, 412-419.	1.0	40
128	Pure-silica LTA, CHA, STT, ITW, and -SVR thin films and powders for low-k applications. <i>Microporous and Mesoporous Materials</i> , 2010, 130, 49-55.	2.2	38
129	Synthesis and Structure of Ultrafine Zeolite KL (LTL) Crystallites and their Use for Thin Film Zeolite Processing. <i>Materials Research Society Symposia Proceedings</i> , 1994, 371, 21.	0.1	37
130	Store-operated Ca <sup>2+</sup> Channels in Mesangial Cells Inhibit Matrix Protein Expression. <i>Journal of the American Society of Nephrology: JASN</i> , 2015, 26, 2691-2702.	3.0	36
131	Analysis of a diffusion-limited hollow fiber reactor for the measurement of effective substrate diffusivities. <i>Biotechnology and Bioengineering</i> , 1985, 27, 182-186.	1.7	35
132	Steam-dealuminated, OSDA-free RHO and KFI-type zeolites as catalysts for the methanol-to-olefins reaction. <i>Microporous and Mesoporous Materials</i> , 2016, 232, 126-137.	2.2	35
133	Synthesis of the RTH-type layer: the first small-pore, two dimensional layered zeolite precursor. <i>Chemical Science</i> , 2015, 6, 5955-5963.	3.7	34
134	Tin Silsesquioxanes as Models for the "Open" Site in Tin-Containing Zeolite Beta. <i>ChemCatChem</i> , 2016, 8, 121-124.	1.8	34
135	Synthesis of Germanosilicate Molecular Sieves from Mono- and Di-Quaternary Ammonium OSDAs Constructed from Benzyl Imidazolium Derivatives: Stabilization of Large Micropore Volumes Including New Molecular Sieve CIT-13. <i>Chemistry of Materials</i> , 2016, 28, 2158-2164.	3.2	34
136	Analysis of a continuous, aerobic, fixed-film bioreactor. I. Steady-state behavior. <i>Biotechnology and Bioengineering</i> , 1984, 26, 457-467.	1.7	32
137	Method of establishing breast cancer brain metastases affects brain uptake and efficacy of targeted, therapeutic nanoparticles. <i>Bioengineering and Translational Medicine</i> , 2019, 4, 30-37.	3.9	32
138	Effect of Pore and Cage Size on the Formation of Aromatic Intermediates During the Methanol-to-Olefins Reaction. <i>Topics in Catalysis</i> , 2015, 58, 416-423.	1.3	31
139	High-silica, heulandite-type zeolites prepared by direct synthesis and topotactic condensation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12890-12897.	5.2	30
140	A Chromium Hydroxide/MIL-101(Cr) MOF Composite Catalyst and Its Use for the Selective Isomerization of Glucose to Fructose. <i>Angewandte Chemie</i> , 2018, 130, 5020-5024.	1.6	30
141	Zinc Containing Small-Pore Zeolites for Capture of Low Concentration Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	30
142	A Thirty-Year Journey to the Creation of the First Enantiomerically Enriched Molecular Sieve. <i>ACS Catalysis</i> , 2018, 8, 10082-10088.	5.5	29
143	Synthesis of (Alumino) Silicate Materials Using Organic Molecules and Self-Assembled Organic Aggregates as Structure-Directing Agents. <i>Materials Research Society Symposia Proceedings</i> , 1994, 346, 831.	0.1	28
144	Chapter 4 Phosphate-based molecular sieves with pores comprised of greater than 12-rings. <i>Catalysis Today</i> , 1994, 19, 61-106.	2.2	28

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145	MATERIALS SCIENCE: Enhanced: Distinguishing the (Almost) Indistinguishable. <i>Science</i> , 2003, 300, 438-439.	6.0	28
146	Analysis of a continuous, aerobic, fixed-film bioreactor. II. Dynamic behavior. <i>Biotechnology and Bioengineering</i> , 1984, 26, 468-476.	1.7	27
147	The synthesis of aluminophosphate and germanosilicate LTA using a triquaternary structure directing agent. <i>Microporous and Mesoporous Materials</i> , 2014, 200, 132-139.	2.2	27
148	Upgrading Light Hydrocarbons: A Tandem Catalytic System for Alkane/Alkene Coupling. <i>Topics in Catalysis</i> , 2015, 58, 494-501.	1.3	27
149	Isobutane alkylation over solid acid catalysts under supercritical conditions. <i>Research on Chemical Intermediates</i> , 1998, 24, 449-459.	1.3	26
150	Fighting cancer with nanoparticle medicines—The nanoscale matters. <i>MRS Bulletin</i> , 2012, 37, 828-835.	1.7	25
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