

Michael Stockenhuber

List of Publications by Year in descending order

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times ranked

2858
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#	ARTICLE	IF	CITATIONS
1	Preparation, Characterization, and Performance of Fe ²⁺ -ZSM-5 Catalysts. <i>Journal of Physical Chemistry B</i> , 1999, 103, 5963-5976.	2.6	271
2	Brønsted Acid Site and Pore Controlled Siting of Alkane Sorption in Acidic Molecular Sieves. <i>Journal of Physical Chemistry B</i> , 1997, 101, 5414-5419.	2.6	242
3	Preparation of Barium Titanates from Oxalates. <i>Journal of the American Ceramic Society</i> , 1993, 76, 1185-1190.	3.8	132
4	Unusual structure and stability of iron-oxygen nano-clusters in Fe-ZSM-5 catalysts. <i>Catalysis Letters</i> , 1997, 45, 15-19.	2.6	79
5	The role of acid and metal sites in hydrodeoxygenation of guaiacol over Ni/Beta catalysts. <i>Catalysis Science and Technology</i> , 2020, 10, 810-825.	4.1	69
6	Ambient temperature carbon monoxide oxidation using copper manganese oxide catalysts: Effect of residual Na ⁺ acting as catalyst poison. <i>Catalysis Communications</i> , 2003, 4, 17-20.	3.3	67
7	Preparation, Characterization, and Unusual Reactivity of Fe-MCM-41. <i>Journal of Physical Chemistry B</i> , 2000, 104, 3370-3374.	2.6	64
8	Highly-dispersed Ni on BEA catalyst prepared by ion-exchange-deposition-precipitation for improved hydrodeoxygenation activity. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118690.	20.2	55
9	Role of metal support during ru-catalysed hydrodeoxygenation of biocrude oil. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119470.	20.2	54
10	Natural zeolite supported Ni catalysts for hydrodeoxygenation of anisole. <i>Green Chemistry</i> , 2021, 23, 4673-4684.	9.0	53
11	The Room Temperature, Stoichiometric Conversion of N ₂ O to Adsorbed NO by Fe-MCM-41 and Fe-ZSM-5. <i>Journal of Catalysis</i> , 2000, 196, 126-133.	6.2	49
12	Experimental study on the precipitation of magnesite from thermally activated serpentine for CO ₂ sequestration. <i>Chemical Engineering Journal</i> , 2016, 303, 439-449.	12.7	47
13	A temperature programmed desorption study of the interaction of acetic anhydride with zeolite beta (BEA). <i>Catalysis Today</i> , 2003, 81, 653-658.	4.4	45
14	Sorption of light alkanes on H-ZSM5 and H-mordenite. <i>Studies in Surface Science and Catalysis</i> , 1995, , 495-500.	1.5	44
15	On the Chemistry of Iron Oxide Supported on γ -Alumina and Silica Catalysts. <i>ACS Omega</i> , 2018, 3, 5362-5374.	3.5	44
16	The utilisation of feed and byproducts of mineral carbonation processes as pozzolanic cement replacements. <i>Journal of Cleaner Production</i> , 2018, 186, 499-513.	9.3	43
17	The stability of Co ₃ O ₄ , Fe ₂ O ₃ , Au/Co ₃ O ₄ and Au/Fe ₂ O ₃ catalysts in the catalytic combustion of lean methane mixtures in the presence of water. <i>Catalysis Today</i> , 2015, 258, 276-283.	4.4	42
18	Insights into the dissolution kinetics of thermally activated serpentine for CO ₂ sequestration. <i>Chemical Engineering Journal</i> , 2017, 330, 1174-1186.	12.7	42

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19	Transition metal containing mesoporous silicas â€“ redox properties, structure and catalytic activity. <i>Microporous and Mesoporous Materials</i> , 2001, 44-45, 367-375.	4.4	41
20	In-situ FTIR study on the mechanism of both steps of zeolite-catalysed hydroesterification reaction in the context of biodiesel manufacturing. <i>Fuel</i> , 2018, 232, 12-26.	6.4	41
21	Formation of PCDD/Fs in Oxidation of 2-Chlorophenol on Neat Silica Surface. <i>Environmental Science & Technology</i> , 2016, 50, 1412-1418.	10.0	39
22	Understanding Structureâ€“Function Relationships in Zeolite-Supported Pd Catalysts for Oxidation of Ventilation Air Methane. <i>ACS Catalysis</i> , 2018, 8, 5852-5863.	11.2	39
23	Titanium Oxide Species in Molecular Sieves: Materials for the Optical Sensing of Reductive Gas Atmospheres. <i>Chemistry of Materials</i> , 2002, 14, 2458-2466.	6.7	38
24	Zeolite-supported iron catalysts for allyl alcohol synthesis from glycerol. <i>Applied Catalysis A: General</i> , 2016, 509, 130-142.	4.3	38
25	Hydrogen/Deuterium Exchange during n-Butane Conversion on H-ZSM-5. <i>Journal of Catalysis</i> , 1996, 160, 183-189.	6.2	37
26	Selective oxidation of benzene to phenol over FeAlPO catalysts using nitrous oxide as oxidant. <i>Chemical Communications</i> , 2006, , 4955.	4.1	36
27	A mechanistic study of the Knoevenagel condensation reaction: new insights into the influence of acid and base properties of mixed metal oxide catalysts on the catalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26630-26644.	2.8	34
28	Study on mineral carbonation of heat activated lizardite at pilot and laboratory scale. <i>Journal of CO2 Utilization</i> , 2018, 26, 230-238.	6.8	34
29	Characterization and removal of extra lattice species in faujasites. <i>Microporous Materials</i> , 1995, 3, 457-465.	1.6	33
30	The local structure of aluminium sites in zeolites. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 5435.	2.8	33
31	Hydrodeoxygenation of guaiacol over ion-exchanged ruthenium ZSM-5 and BEA zeolites. <i>Journal of Catalysis</i> , 2021, 396, 157-165.	6.2	33
32	Development of Combustion Technology for Methane Emitted from Coalâ€“Mine Ventilation Air Systems. <i>Energy Technology</i> , 2017, 5, 521-538.	3.8	32
33	Comparison of Direct, Selective Oxidation of Methane by N ₂ O over Fe-ZSM-5, Fe-Beta, and Fe-FER Catalysts. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27436-27447.	3.1	31
34	In situ XAS and IR studies on Cu:SAPO-5 and Cu:SAPO-11: the contributory role of monomeric linear copper(i) species in the selective catalytic reduction of NOx by propene. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5476.	2.8	30
35	Development of Concurrent grinding for application in aqueous mineral carbonation. <i>Journal of Cleaner Production</i> , 2019, 212, 151-161.	9.3	30
36	The stability of Pd/TS-1 and Pd/silicalite-1 for catalytic oxidation of methane â€“ understanding the role of titanium. <i>Catalysis Science and Technology</i> , 2020, 10, 1193-1204.	4.1	30

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37	Shape selectivity of zeolite catalysts for the hydrodeoxygenation of biocrude oil and its model compounds. <i>Microporous and Mesoporous Materials</i> , 2020, 309, 110561.	4.4	30
38	Direct aqueous carbonation of heat activated serpentine: Discovery of undesirable side reactions reducing process efficiency. <i>Applied Energy</i> , 2019, 242, 1369-1382.	10.1	29
39	On the mechanism of aromatic acylation over zeolites. <i>Microporous and Mesoporous Materials</i> , 2007, 104, 217-224.	4.4	28
40	Maceral separation from coal by the Reflux Classifier. <i>Fuel Processing Technology</i> , 2016, 143, 43-50.	7.2	28
41	Mechanistic insights into the Knoevenagel condensation reaction over ZnO catalysts: Direct observation of surface intermediates using in situ FTIR. <i>Journal of Catalysis</i> , 2019, 369, 157-167.	6.2	28
42	Modelling aromatics in siliceous zeolites: a new forcefield from thermochemical studies. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 3759-3768.	1.7	25
43	Selective catalytic reduction of NO _x over microporous CuAPO-5: structural characterisation by XAS and XRD. <i>Journal of Materials Chemistry</i> , 2005, 15, 204.	6.7	24
44	Effect of Manganese on the Selective Catalytic Hydrogenation of CO _x in the Presence of Light Hydrocarbons Over Ni/Al ₂ O ₃ : An Experimental and Computational Study. <i>ACS Catalysis</i> , 2020, 10, 1535-1547.	11.2	24
45	Hydrodeoxygenation of guaiacol over BEA supported bimetallic Ni-Fe catalysts with varied impregnation sequence. <i>Journal of Catalysis</i> , 2021, 404, 1-11.	6.2	23
46	Catalytic conversion of glycerol to allyl alcohol; effect of a sacrificial reductant on the product yield. <i>Catalysis Science and Technology</i> , 2014, 4, 3090-3098.	4.1	22
47	Formation of Surface Oxygen Species and the Conversion of Methane to Value-Added Products with N ₂ O as Oxidant over Fe-Ferrierite Catalysts. <i>ACS Catalysis</i> , 2020, 10, 1406-1416.	11.2	22
48	Catalytic combustion of ventilation air methane (VAM) – long term catalyst stability in the presence of water vapour and mine dust. <i>Catalysis Science and Technology</i> , 2014, 4, 1793-1802.	4.1	21
49	Dissolution of heat activated serpentine for CO ₂ sequestration: The effect of silica precipitation at different temperature and pH values. <i>Journal of CO₂ Utilization</i> , 2019, 30, 123-129.	6.8	20
50	A Melamine-Modified Zeolite with Enhanced CO ₂ Capture Properties. <i>Energy Technology</i> , 2013, 1, 345-349.	3.8	18
51	ACEME: Synthesis and characterization of reactive silica residues from two stage mineral carbonation Process. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, e13066.	2.3	18
52	Partial oxidation of methane with nitrous oxide forms synthesis gas over cobalt exchanged ZSM-5. <i>Catalysis Communications</i> , 2014, 53, 42-46.	3.3	17
53	Towards understanding the improved stability of palladium supported on TS-1 for catalytic combustion. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10528-10537.	2.8	17
54	The use of LDI-TOF imaging mass spectroscopy to study heated coal with a temperature gradient incorporating the plastic layer and semi-coke. <i>Fuel</i> , 2016, 165, 33-40.	6.4	17

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55	Adsorption of 2-Chlorophenol on the Surface of Silica and Alumina-Supported Iron Oxide: An FTIR and XPS Study. <i>ChemCatChem</i> , 2017, 9, 481-491.	3.7	17
56	Methane oxidation by N ₂ O over Fe-FER catalysts prepared by different methods: Nature of active iron species, stability of surface oxygen species and selectivity to products. <i>Journal of Catalysis</i> , 2021, 400, 10-19.	6.2	17
57	Activity of carbonaceous deposits in the selective reduction of nitrogen oxides. <i>Chemical Communications</i> , 1997, , 185-186.	4.1	16
58	Probing possible structure sensitivity in the exchange of isotopic oxygen with the surface of MgO. <i>Journal of Catalysis</i> , 2005, 234, 14-23.	6.2	16
59	A designed organic-zeolite hybrid acid-base catalyst. <i>Journal of Catalysis</i> , 2012, 285, 10-18.	6.2	16
60	Influence of impurities on the epoxidation of allyl alcohol to glycidol with hydrogen peroxide over titanium silicate TS-1. <i>Applied Catalysis A: General</i> , 2015, 489, 241-246.	4.3	16
61	Structure of Silica Polymers and Reaction Mechanism for Formation of Silica-Rich Precipitated Phases in Direct Aqueous Carbon Mineralization. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6828-6839.	3.7	16
62	Study on Catalyst Deactivation During the Hydrodeoxygenation of Model Compounds. <i>Topics in Catalysis</i> , 2020, 63, 778-792.	2.8	16
63	Novel hierarchical core-shell BEA@NanoZSM-5 zeolite for improved cracking performance for 1,3,5-triisopropylbenzene and n-hexadecane. <i>Microporous and Mesoporous Materials</i> , 2021, 328, 111399.	4.4	16
64	An Hermite expansion method for EXAFS data treatment and its application to Fe K-edge spectra. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 5743-5749.	2.8	15
65	ACEME: Direct Aqueous Mineral Carbonation of Dunite Rock. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, e13075.	2.3	15
66	Insights into chemical stability of Mg-silicates and silica in aqueous systems using ²⁵ Mg and ²⁹ Si solid-state MAS NMR spectroscopy: Applications for CO ₂ capture and utilisation. <i>Chemical Engineering Journal</i> , 2021, 420, 127656.	12.7	15
67	The influence of silicon on the catalytic properties of CuSAPO-5 towards the selective reduction of NO _x in the presence of propene. <i>Microporous and Mesoporous Materials</i> , 2005, 84, 261-274.	4.4	13
68	A temperature programmed desorption study of the interaction of ethyl cyanoacetate and benzaldehyde on metal oxide surfaces. <i>Catalysis Today</i> , 2015, 245, 108-115.	4.4	13
69	The Catalyzed Conversion of Methane to Value-Added Products. <i>Energy Technology</i> , 2020, 8, 1900665.	3.8	13
70	A promoter effect on hydrodeoxygenation reactions of oleic acid by zeolite beta catalysts. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 155, 105044.	5.5	13
71	Influence of Promoters (Fe, Mo, W) on the Structural and Catalytic Properties of Ni/BEA for Guaiacol Hydrodeoxygenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 15673-15682.	6.7	13
72	Oxidative Coupling and Hydroxylation of Phenol over Transition Metal and Acidic Zeolites: Insights into Catalyst Function. <i>Catalysis Letters</i> , 2014, 144, 9-15.	2.6	12

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73	Evidence of the Formation of Surface Palladium Carbide during the Catalytic Combustion of Lean Methane/Air Mixtures. <i>Energy Technology</i> , 2014, 2, 243-249.	3.8	12
74	Mass transfer and kinetic study on BEA zeolite-catalysed oil hydroesterification. <i>Renewable Energy</i> , 2019, 135, 417-425.	8.9	12
75	Application of a concurrent grinding technique for two-stage aqueous mineral carbonation. <i>Journal of CO2 Utilization</i> , 2020, 42, 101347.	6.8	12
76	Separation and analysis of high range extractable molecules formed during coal pyrolysis using coupled thin layer chromatography-imaging mass spectrometry (TLC-LDI-IMS). <i>Fuel</i> , 2017, 196, 269-279.	6.4	11
77	An experimental investigation on the effects of adding a transition metal to Ni/Al ₂ O ₃ for catalytic hydrogenation of CO and CO ₂ in presence of light alkanes and alkenes. <i>Catalysis Today</i> , 2018, 307, 277-285.	4.4	11
78	CO ₂ Capture Modeling Using Heat-Activated Serpentinite Slurries. <i>Energy & Fuels</i> , 2019, 33, 1753-1766.	5.1	11
79	Kinetics of Decomposition of PFOS Relevant to Thermal Desorption Remediation of Soils. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 9080-9087.	3.7	11
80	The role of Ni sites located in mesopores in the selectivity of anisole hydrodeoxygenation. <i>Catalysis Science and Technology</i> , 2022, 12, 2184-2196.	4.1	10
81	Adsorption studies of acylation reagents and products on zeolite beta catalysts. <i>Studies in Surface Science and Catalysis</i> , 2004, , 2724-2730.	1.5	9
82	Application of concurrent grinding in direct aqueous carbonation of magnesium silicates. <i>Journal of CO2 Utilization</i> , 2021, 48, 101516.	6.8	9
83	2.6 Elementary Steps of Acid-Base Catalyzed Reactions in Molecular Sieves. <i>Studies in Surface Science and Catalysis</i> , 1994, 90, 147-156.	1.5	8
84	An X-ray absorption study on copper-containing AlPO ₄ -5 for selective catalytic reduction of NO _x by propene. <i>Journal of Materials Chemistry</i> , 2001, 11, 1441-1446.	6.7	8
85	Mechanism and Rate of Thermal Decomposition of Hexachlorocyclopentadiene and Its Importance in PCDD/F Formation from the Combustion of Cyclodiene Pesticides. <i>Journal of Physical Chemistry A</i> , 2017, 121, 5871-5883.	2.5	8
86	Products and mechanism of thermal decomposition of chlorpyrifos under inert and oxidative conditions. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 2084-2094.	3.5	8
87	A glimpse of the inner workings of the templated site. <i>Chemical Communications</i> , 2009, , 165-167.	4.1	7
88	HCl Adsorption on Copper-Modified ZSM-5: FTIR and DFT Study. <i>Journal of Physical Chemistry C</i> , 2013, , 130912084723007.	3.1	7
89	The effect of catalyst modification on the conversion of glycerol to allyl alcohol. <i>Applied Catalysis B: Environmental</i> , 2014, 152-153, 117-128.	20.2	7
90	Catalytic conversion of glycerol to polymers in the presence of ammonia. <i>Chemical Engineering Journal</i> , 2016, 291, 279-286.	12.7	7

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91	Catalytic coupling of CH ₄ with CHF ₃ for the synthesis of VDF over LaOF catalyst. , 2018, 8, 587-602.		7
92	Modeling and Experimental Study on the Thermal Decomposition of Perfluorooctanesulfonic Acid (PFOS) in an γ -Alumina Reactor. Industrial & Engineering Chemistry Research, 2022, 61, 5453-5463.	3.7	7
93	Peroxydisulfate in MCM-48 silicas: powerful and clean materials for the removal of toxic gases. Journal of Materials Chemistry, 2004, 14, 1180.	6.7	6
94	A soft X-ray exafs study of the local structure of tetrahedral aluminium in zeolites. Studies in Surface Science and Catalysis, 2004, , 1406-1410.	1.5	6
95	Accelerated hydrothermal ageing of Pd/Al ₂ O ₃ for catalytic combustion of ventilation air methane. Catalysis Science and Technology, 2015, 5, 4008-4016.	4.1	6
96	Gas Phase Thermal Oxidation of Endosulfan and Formation of Polychlorinated Dibenzo- <i>p</i> -dioxins and Dibenzofurans. Environmental Science & Technology, 2016, 50, 10106-10113.	10.0	6
97	Hydroesterification of bio-oils over HZSM-5, BETA and Y zeolites. Clean Technologies and Environmental Policy, 2018, 20, 727-738.	4.1	6
98	Magnesium Leachability of Mg-Silicate Peridotites: The Effect on Magnesite Yield of a Mineral Carbonation Process. Minerals (Basel, Switzerland), 2020, 10, 1091.	2.0	6
99	Synthesis, Structure, and Reactivity of Iron-Sulfur Species in Zeolites. Catalysis Letters, 2003, 85, 193-197.	2.6	5
100	An Al K-edge EXAFS study of MoO ₃ /H-ZSM-5 catalyst precursors. Microporous and Mesoporous Materials, 2007, 104, 97-102.	4.4	5
101	Nitridation of MoO ₃ /HZSM-5 and Fe-MoO ₃ /HZSM-5. Topics in Catalysis, 2009, 52, 1559-1565.	2.8	5
102	Water formation via HCl oxidation on Cu(100). Applied Surface Science, 2014, 299, 156-161.	6.1	5
103	The effect of synthesis gas composition on the performance of Ni-based solid oxide fuel cells. Chemical Engineering Research and Design, 2015, 101, 22-26.	5.6	5
104	Gas phase pyrolysis of endosulfan and formation of dioxin precursors of polychlorinated dibenzo- <i>p</i> -dioxins and dibenzofurans (PCDD/F). Proceedings of the Combustion Institute, 2017, 36, 1119-1127.	3.9	5
105	Mechanisms of thermal decomposition of cyclodiene pesticides, identification and possible mitigation of their toxic products. Proceedings of the Combustion Institute, 2019, 37, 1143-1150.	3.9	5
106	Thermal oxidation of dieldrin and concomitant formation of toxic products including polychlorinated dibenzo- <i>p</i> -dioxin and dibenzofuran (PCDD/F). Chemosphere, 2019, 225, 209-216.	8.2	5
107	Enhancing allyl alcohol selectivity in the catalytic conversion of glycerol; influence of product distribution on the subsequent epoxidation step. Asia-Pacific Journal of Chemical Engineering, 2015, 10, 598-606.	1.5	4
108	Reaction of dichloromethane under non-oxidative conditions in a dielectric barrier discharge reactor and characterisation of the resultant polymer. Chemical Engineering Journal, 2016, 290, 499-506.	12.7	4

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109	Reaction of nitrous oxide with methane to synthesis gas: A thermodynamic and catalytic study. <i>Journal of Energy Chemistry</i> , 2017, 26, 155-162.	12.9	4
110	A proposed reaction mechanism for the selective oxidation of methane with nitrous oxide over Co-ZSM-5 catalyst forming synthesis gas (CO+H ₂). <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13133-13144.	7.1	4
111	Formation of magnesite and hydromagnesite from direct aqueous carbonation of thermally activated lizardite. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, e13244.	2.3	4
112	Utilization of Glycerol and its Derivatives in a Nickel-Based SOFC. <i>Energy Technology</i> , 2019, 7, 80-85.	3.8	4
113	A soft X-ray EXAFS study of the variation of the local aluminium structure on adsorption of bases in various zeolite types. <i>Studies in Surface Science and Catalysis</i> , 2007, 170, 756-761.	1.5	3
114	Reaction of carbon tetrachloride with methane in a non-equilibrium plasma at atmospheric pressure, and characterisation of the polymer thus formed. <i>Journal of Hazardous Materials</i> , 2014, 280, 38-45.	12.4	3
115	Cobalt Species Active for Nitrous Oxide (N ₂ O) Decomposition within a Temperature Range of 300-600°C. <i>Australian Journal of Chemistry</i> , 2017, 70, 1138.	0.9	3
116	A comparative study of literature methods of introducing acidity into MCM-41. <i>Studies in Surface Science and Catalysis</i> , 2004, 154, 446-452.	1.5	1
117	Editorial: The 9th International Conference on Environmental Catalysis (ICEC). <i>Applied Catalysis B: Environmental</i> , 2018, 223, 1.	20.2	1
118	Process for Chloroform Decomposition: Nonthermal Plasma Polymerization with Methane and Hydrogen. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 9075-9082.	3.7	1
119	Insights on the stability of cuprous chloride under high pressure: An equilibrium ab initio atomistic thermodynamics study. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 136, 109158.	4.0	1
120	In Situ XAFS Study of a Modified TS-1 Framework for Carbonyl Formation. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16483-16488.	3.1	1
121	Hydrodeoxygenation of oleic acid for effective diesel-like hydrocarbon production using zeolite-based catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2021, 134, 1069.	1.7	1
122	Synthesis, structure, and reactivity of iron-sulfur species in zeolite ZSM-5. <i>Studies in Surface Science and Catalysis</i> , 2002, 142, 511-516.	1.5	0
123	A low energy pathway to CuCl ₂ : A theoretical investigation. <i>Chemical Physics Letters</i> , 2017, 672, 54-56.	2.6	0
124	Catalysis Society of Australia. <i>ChemCatChem</i> , 2018, 10, 1481-1482.	3.7	0
125	Introduction to the special section: Papers from the International Conference on Accelerated Carbonation for Environmental and Material Engineering. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, e13245.	2.3	0