

# Two-Dimensional Zeolites: Current Status and Perspectives

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Preferential Location of Germanium in the UTL and IPC-2a Zeolites. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26939-26946.	1.5	17
4	The Assembly–Disassembly–Organization–Reassembly Mechanism for 3D→2D Transformation of Germanosilicate IWW Zeolite. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7048-7052.	7.2	62
5	Metal-organic framework nanosheets as building blocks for molecular sieving membranes. <i>Science</i> , 2014, 346, 1356-1359.	6.0	1,432
6	Post-synthesis and catalytic performance of FER type sub-zeolite Ti-ECNU-8. <i>Chinese Chemical Letters</i> , 2014, 25, 1511-1514.	4.8	16
7	From Double–Four–Ring Germanosilicates to New Zeolites: In Silico Investigation. <i>ChemPhysChem</i> , 2014, 15, 2972-2976.	1.0	31
8	Atomic Force Microscopy of Novel Zeolitic Materials Prepared by Top–Down Synthesis and ADOR Mechanism. <i>Chemistry - A European Journal</i> , 2014, 20, 10446-10450.	1.7	9
9	Advanced Nanoporous Materials for Micro-Gravimetric Sensing to Trace-Level Bio/Chemical Molecules. <i>Sensors</i> , 2014, 14, 19023-19056.	2.1	51
10	Heterogeneous Pd catalysts supported on silica matrices. <i>RSC Advances</i> , 2014, 4, 65137-65162.	1.7	137
11	Exploring Zeolite Chemistry with the Tools of Surface Science: Challenges, Opportunities, and Limitations. <i>Catalysis Letters</i> , 2014, 144, 1987-1995.	1.4	28
12	Creation of Nickel-Based Active Species within a Macroreticular Acidic Resin: A Noble-Metal-Free Heterogeneous Catalyst for Visible-Light-Driven H <sub>2</sub> Evolution from Water. <i>ACS Catalysis</i> , 2014, 4, 4129-4135.	5.5	23
13	Swelling and pillaring of the layered precursor IPC-1P: tiny details determine everything. <i>Dalton Transactions</i> , 2014, 43, 10548.	1.6	23
14	Synthesis of hierarchical zeolites using an inexpensive mono-quaternary ammonium surfactant as mesopore. <i>Chemical Communications</i> , 2014, 50, 14658-14661.	2.2	48
15	High performance nanosheet-like silicoaluminophosphate molecular sieves: synthesis, 3D EDT structural analysis and MTO catalytic studies. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17828-17839.	5.2	96
16	Peculiar behavior of MWW materials in aldol condensation of furfural and acetone. <i>Dalton Transactions</i> , 2014, 43, 10628.	1.6	52
17	Theoretical investigation of layered zeolites with MWW topology: MCM-22P vs. MCM-56. <i>Dalton Transactions</i> , 2014, 43, 10443-10450.	1.6	33
18	The aqueous colloidal suspension of ultrathin 2D MCM-22P crystallites. <i>Chemical Communications</i> , 2014, 50, 7378.	2.2	16
19	Activity enhancement of zeolite MCM-22 by interlayer expansion enabling higher Ce loading and room temperature CO oxidation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15722-15725.	5.2	29
20	The role of boric acid in the synthesis of Eni Carbon Silicates. <i>Dalton Transactions</i> , 2014, 43, 10617.	1.6	8

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21	Germanosilicate Precursors of ADORable Zeolites Obtained by Disassembly of ITH, ITR, and IWR Zeolites. <i>Chemistry of Materials</i> , 2014, 26, 5789-5798.	3.2	60
22	Silylation of Layered Silicate RUB-51 with SiCl <sub>4</sub> and Conversion of the Silylated Derivative to a Crystalline Microporous Material. <i>Chemistry of Materials</i> , 2014, 26, 3796-3803.	3.2	18
23	Ru-Based Complexes with Quaternary Ammonium Tags Immobilized on Mesoporous Silica as Olefin Metathesis Catalysts. <i>ACS Catalysis</i> , 2014, 4, 3227-3236.	5.5	52
24	High acidity unilamellar zeolite MCM-56 and its pillared and delaminated derivatives. <i>Dalton Transactions</i> , 2014, 43, 10501.	1.6	44
25	Application of quasi-equilibrated thermodesorption of linear and di-branched paraffin molecules for detailed porosity characterization of the mono-layered zeolite MCM-56, in comparison with MCM-22 and ZSM-5. <i>Dalton Transactions</i> , 2014, 43, 10574-10583.	1.6	15
26	High-resolution adsorption analysis of pillared zeolites IPC-3PI and MCM-36. <i>Dalton Transactions</i> , 2014, 43, 10558-10565.	1.6	20
27	NMR Evidence for Specific Germanium Siting in IM-12 Zeolite. <i>Chemistry of Materials</i> , 2014, 26, 5556-5565.	3.2	41
28	Zeolites with Continuously Tuneable Porosity. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13210-13214.	7.2	104
29	Recent Advances in Reactions of Alkylbenzenes Over Novel Zeolites: The Effects of Zeolite Structure and Morphology. <i>Catalysis Reviews - Science and Engineering</i> , 2014, 56, 333-402.	5.7	148
30	On the Rotational Intergrowth of Hierarchical FAU/EMT Zeolites. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9456-9461.	7.2	90
31	Reactivity and applications of layered silicates and layered double hydroxides. <i>Dalton Transactions</i> , 2014, 43, 10365.	1.6	98
32	Computational Investigation of the Lewis Acidity in Three-Dimensional and Corresponding Two-Dimensional Zeolites: UTL vs IPC-1P. <i>Journal of Physical Chemistry A</i> , 2014, 118, 7526-7534.	1.1	16
34	Ultra-thin silicate films on metals. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 443001.	0.7	12
35	Interlayer Condensation of Protonated Layered Silicate Magadiite through Refluxing in <i>N</i> -Methylformamide. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 1241-1249.	2.0	7
38	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
39	Ru complexes of Hoveyda-Grubbs type immobilized on lamellar zeolites: activity in olefin metathesis reactions. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 2087-2096.	1.3	19
40	Zeolite Membranes in Catalysis—From Separate Units to Particle Coatings. <i>Catalysts</i> , 2015, 5, 2161-2222.	1.6	30
41	Nb and Zr modified MWW zeolites—characterisation and catalytic activity. <i>RSC Advances</i> , 2015, 5, 22326-22333.	1.7	12

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42	Quantification of thickness and wrinkling of exfoliated two-dimensional zeolite nanosheets. <i>Nature Communications</i> , 2015, 6, 7128.	5.8	39
43	Synthesis and characterization of Si/Ga Eni Carbon Silicates. <i>Chinese Journal of Catalysis</i> , 2015, 36, 813-819.	6.9	6
44	Potential of Sustainable Hierarchical Zeolites in the Valorization of $\alpha$ -Pinene. <i>ChemSusChem</i> , 2015, 8, 1197-1205.	3.6	41
45	Abatement of toluene from polluted air over Mn/Clinoptilolite-CeO <sub>2</sub> nanopowder: Impregnation vs. ultrasound assisted synthesis with various Mn-loading. <i>Advanced Powder Technology</i> , 2015, 26, 602-611.	2.0	40
46	Function-led design of new porous materials. <i>Science</i> , 2015, 348, aaa8075.	6.0	1,272
47	Recent advances of pore system construction in zeolite-catalyzed chemical industry processes. <i>Chemical Society Reviews</i> , 2015, 44, 8877-8903.	18.7	279
48	The ADOR synthesis of new zeolites: In silico investigation. <i>Catalysis Today</i> , 2015, 243, 32-38.	2.2	30
49	Remarkable catalytic properties of hierarchical zeolite-Beta in epoxide rearrangement reactions. <i>Catalysis Today</i> , 2015, 243, 141-152.	2.2	27
50	Facile evaluation of the crystallization and quality of the transient layered zeolite MCM-56 by infrared spectroscopy. <i>Catalysis Today</i> , 2015, 243, 39-45.	2.2	31
51	Na <sub>2</sub> B <sub>10</sub> O <sub>17</sub> ·H <sub>2</sub> O: a three-dimensional open-framework layered borate co-templated by inorganic cations and organic amines. <i>Chemical Communications</i> , 2015, 51, 5066-5068.	2.2	61
52	Comparative Study of Vanadium Supported on MCM-36 and MCM-22 and Their Catalytic Performance in C <sub>3</sub> -ODH. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 2030-2039.	1.8	7
53	Synthesis of Organic Pillared MFI Zeolite as Bifunctional Acid-Base Catalyst. <i>Chemistry of Materials</i> , 2015, 27, 1479-1487.	3.2	41
54	Spatial distribution and catalytic performance of metal-acid sites in Mo/MFI catalysts with tunable meso-/microporous lamellar zeolite structures. <i>Journal of Catalysis</i> , 2015, 323, 100-111.	3.1	52
55	Fabrication of Hybrid Organic-Inorganic Materials with Tunable Porosity for Catalytic Application. <i>ChemPlusChem</i> , 2015, 80, 599-605.	1.3	4
56	Role of zeolite catalysts for benzene removal from gasoline via alkylation: A review. <i>Microporous and Mesoporous Materials</i> , 2015, 213, 169-180.	2.2	38
57	Alkali treatment upon MCM-49 zeolite with various contents of HMI in the presence of CTAB and application in anisole acylation with acetic anhydride. <i>Applied Catalysis A: General</i> , 2015, 495, 152-161.	2.2	14
58	Synthesis of new zeolite structures. <i>Chemical Society Reviews</i> , 2015, 44, 7112-7127.	18.7	460
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60	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
61	Zeolite membranes – a review and comparison with MOFs. <i>Chemical Society Reviews</i> , 2015, 44, 7128-7154.	18.7	594
62	Mesoporous Y zeolite through ionic liquid based surfactant templating. <i>Microporous and Mesoporous Materials</i> , 2015, 217, 81-86.	2.2	30
63	Syntheses, structure solutions, and catalytic performance of two novel layered silicates. <i>Dalton Transactions</i> , 2015, 44, 15567-15575.	1.6	3
64	Ultratrace Measurement of Acetone from Skin Using Zeolite: Toward Development of a Wearable Monitor of Fat Metabolism. <i>Analytical Chemistry</i> , 2015, 87, 7588-7594.	3.2	29
65	Nanocrystalline ZSM-5 based bi-functional catalyst for two step and three step tandem reactions. <i>RSC Advances</i> , 2015, 5, 25998-26006.	1.7	18
66	Swelling and Interlayer Chemistry of Layered MWW Zeolites MCM-22 and MCM-56 with High Al Content. <i>Chemistry of Materials</i> , 2015, 27, 4620-4629.	3.2	64
67	Sonication-Free Exfoliation of Graphite Oxide via Rapid Phase Change of Water. <i>Topics in Catalysis</i> , 2015, 58, 522-528.	1.3	9
68	Exploiting chemically selective weakness in solids as a route to new porous materials. <i>Nature Chemistry</i> , 2015, 7, 381-388.	6.6	153
69	New mesoporous titanosilicate MCM-36 material synthesized by pillaring layered ERB-1 precursor. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8715-8724.	5.2	37
70	Bifunctional Metal-Free Catalysis of Mesoporous Noble Carbons for Oxygen Reduction and Evolution Reactions. <i>ChemSusChem</i> , 2015, 8, 1156-1160.	3.6	89
71	Morphology-induced shape selectivity in zeolite catalysis. <i>Journal of Catalysis</i> , 2015, 327, 22-32.	3.1	64
72	Advances in theory and their application within the field of zeolite chemistry. <i>Chemical Society Reviews</i> , 2015, 44, 7044-7111.	18.7	405
73	Glycerol dehydration catalyzed by MWW zeolites and the changes in the catalyst deactivation caused by porosity modification. <i>Applied Catalysis A: General</i> , 2015, 495, 84-91.	2.2	52
74	Transformation from NaA to MCM-49 Zeolite and Its Catalytic Alkylation Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 3123-3135.	1.8	22
75	Molecular sieve membranes: From 3D zeolites to 2D MOFs. <i>Chinese Journal of Catalysis</i> , 2015, 36, 692-697.	6.9	23
76	Macrophage Cell Membrane Camouflaged Mesoporous Silica Nanocapsules for In Vivo Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2015, 4, 1645-1652.	3.9	259
77	Design of Lewis-acid centres in zeolitic matrices for the conversion of renewables. <i>Chemical Society Reviews</i> , 2015, 44, 7025-7043.	18.7	175

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79	Cubic Pm3n mesoporous aluminosilicates assembled from zeolite seeds as strong acidic catalysts. <i>Catalysis Science and Technology</i> , 2015, 5, 3182-3193.	2.1	2
80	Mesoporous MFI Zeolite Nanosponge as a High-Performance Catalyst in the Pechmann Condensation Reaction. <i>ACS Catalysis</i> , 2015, 5, 2596-2604.	5.5	74
81	A zeolitic Cd(II) boron imidazolate framework with sensing and catalytic properties. <i>Journal of Solid State Chemistry</i> , 2015, 231, 185-189.	1.4	11
82	Filling the Gaps between Graphene Oxide: A General Strategy toward Nanolayered Oxides. <i>Advanced Functional Materials</i> , 2015, 25, 5683-5690.	7.8	31
83	Design of Microporous Material HUS-10 with Tunable Hydrophilicity, Molecular Sieving, and CO <sub>2</sub> Adsorption Ability Derived from Interlayer Silylation of Layered Silicate HUS-2. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 24360-24369.	4.0	20
84	Structural analysis of hierarchically organized zeolites. <i>Nature Communications</i> , 2015, 6, 8633.	5.8	206
85	Acidity of two-dimensional zeolites. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27873-27882.	1.3	32
86	Synthesis of layered titanosilicate JDF-L1 for fabrication of composite polyamide 6 film. <i>Applied Clay Science</i> , 2015, 118, 151-157.	2.6	7
87	Local environments of boron heteroatoms in non-crystalline layered borosilicates. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21664-21682.	1.3	11
88	One-pot synthesis of MWW zeolite nanosheets using a rationally designed organic structure-directing agent. <i>Chemical Science</i> , 2015, 6, 6320-6324.	3.7	118
89	Structural stability and Lewis acidity of tetravalent Ti, Sn, or Zr-linked interlayer-expanded zeolite COE-4: A DFT study. <i>Microporous and Mesoporous Materials</i> , 2015, 218, 160-166.	2.2	11
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91	Intergrown Zeolite MWW Polymorphs Prepared by the Rapid Dissolution-Recrystallization Route. <i>Chemistry of Materials</i> , 2015, 27, 7852-7860.	3.2	36
92	Catalytic behavior of metal-organic frameworks and zeolites: Rationalization and comparative analysis. <i>Catalysis Today</i> , 2015, 243, 2-9.	2.2	29
93	From Layered Zeolite Precursors to Zeolites with a Three-Dimensional Porosity: Textural and Structural Modifications through Alkaline Treatment. <i>Chemistry of Materials</i> , 2015, 27, 316-326.	3.2	16
94	Germanosilicate UTL and its rich chemistry of solid-state transformations towards IPC-2 (OKO) zeolite. <i>Catalysis Today</i> , 2015, 243, 23-31.	2.2	13
95	Epoxidation of bulky organic molecules over pillared titanosilicates. <i>Catalysis Today</i> , 2015, 243, 134-140.	2.2	57

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100	Hierarchically Nanoporous Zeolites and Their Heterogeneous Catalysis: Current Status and Future Perspectives. Catalysis Letters, 2015, 145, 193-213.	1.4	85
101	Opportunities for zeolites in biomass upgrading – Lessons from the refining and petrochemical industry. Catalysis Today, 2015, 243, 10-22.	2.2	81
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106	Synthesis of Novel Titanosilicate Catalysts by Simultaneous Isomorphous Substitution and Interlayer Expansion of Zeolitic Layered Silicates. Chemistry of Materials, 2016, 28, 5295-5303.	3.2	26
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113	Ring opening of hydrocarbons for diesel and aromatics production: Design of heterogeneous catalytic systems. Fuel, 2016, 181, 618-629.	3.4	44

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114	Catalytic oxidation of volatile organic compounds (VOCs) – A review. <i>Atmospheric Environment</i> , 2016, 140, 117-134.	1.9	1,137
115	The assessment of pore connectivity in hierarchical zeolites using positron annihilation lifetime spectroscopy: instrumental and morphological aspects. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9211-9219.	1.3	26
116	The interaction of Pd clusters with the bulk and layered two-dimensional Silicalite-1 supports. <i>Catalysis Today</i> , 2016, 277, 108-117.	2.2	2
117	Synthesis and properties of MFI zeolites with microporous, mesoporous and macroporous hierarchical structures by a gel-casting technique. <i>New Journal of Chemistry</i> , 2016, 40, 4398-4405.	1.4	25
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119	Genetic engineering of inorganic functional modular materials. <i>Chemical Science</i> , 2016, 7, 3472-3481.	3.7	10
120	The delaminating and pillaring of MCM-22 for Fischer-Tropsch synthesis over cobalt. <i>Catalysis Today</i> , 2016, 274, 109-115.	2.2	21
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122	PKU-20: A new silicogermanate constructed from sti and asv layers. <i>Microporous and Mesoporous Materials</i> , 2016, 224, 384-391.	2.2	5
123	Synthesis and crystal structures of a novel layered silicate SSA-1 and its microporous derivatives by topotactic transformation. <i>Dalton Transactions</i> , 2016, 45, 16335-16344.	1.6	4
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125	Anionic porous polymers with tunable structures and catalytic properties. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15162-15168.	5.2	29
126	Simple Quaternary Ammonium Cations-Templated Syntheses of Extra-Large Pore Germanosilicate Zeolites. <i>Chemistry of Materials</i> , 2016, 28, 6455-6458.	3.2	46
127	Accessibility enhancement of TS-1-based catalysts for improving the epoxidation of plant oil-derived substrates. <i>Catalysis Science and Technology</i> , 2016, 6, 7280-7288.	2.1	39
128	High surface area mesoporous alumina nanosheets and nanorolls from an aluminum based metal organic framework. <i>Ceramics International</i> , 2016, 42, 17742-17748.	2.3	25
129	Combined PDF and Rietveld studies of ADORable zeolites and the disordered intermediate IPC-1P. <i>Dalton Transactions</i> , 2016, 45, 14124-14130.	1.6	9
130	Sn-based catalysts for Baeyer-Villiger oxidations by using hydrogen peroxide as oxidant. <i>Science China Materials</i> , 2016, 59, 675-700.	3.5	18
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133	Synthesis of Zeolites Using the ADOR (Assembly-Disassembly-Organization-Reassembly) Route. <i>Journal of Visualized Experiments</i> , 2016, , e53463.	0.2	3
134	Manganese Oxide Nanorod-Decorated Mesoporous ZSM-5 Composite as a Precious-Metal-Free Electrode Catalyst for Oxygen Reduction. <i>ChemSusChem</i> , 2016, 9, 1010-1019.	3.6	12
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136	Intrusion-extrusion spring performance of COK-14 zeolite enhanced by structural changes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18795-18801.	1.3	11
137	Interconversion of the CDO Layered Precursor ZSM-55 between FER and CDO Frameworks by Controlled Deswelling and Reassembly. <i>Chemistry of Materials</i> , 2016, 28, 3616-3619.	3.2	16
138	Self-Assembly of Cetyltrimethylammonium Bromide and Lamellar Zeolite Precursor for the Preparation of Hierarchical MWW Zeolite. <i>Chemistry of Materials</i> , 2016, 28, 4512-4521.	3.2	88
139	Water adsorption on two-dimensional silica films. <i>Applied Surface Science</i> , 2016, 364, 822-828.	3.1	10
140	The role of external acidity of meso-/microporous zeolites in determining selectivity for acid-catalyzed reactions of benzyl alcohol. <i>Journal of Catalysis</i> , 2016, 335, 165-174.	3.1	46
141	Fluoride-assisted synthesis of bimodal microporous SSZ-13 zeolite. <i>Chemical Communications</i> , 2016, 52, 3227-3230.	2.2	36
142	Disruptive catalysis by zeolites. <i>Catalysis Science and Technology</i> , 2016, 6, 2485-2501.	2.1	68
143	Catalytic cracking of Arabian Light VGO over novel zeolites as FCC catalyst additives for maximizing propylene yield. <i>Fuel</i> , 2016, 167, 226-239.	3.4	67
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145	Diversity of layered zeolites: from synthesis to structural modifications. <i>New Journal of Chemistry</i> , 2016, 40, 3968-3981.	1.4	44
146	Size-controlled synthesis of MFI metallosilicate and their catalytic performance on acetone to olefins reaction. <i>Microporous and Mesoporous Materials</i> , 2016, 224, 68-74.	2.2	14
147	Core-shell zeolite@aqueous miscible organic-layered double hydroxides. <i>Chemical Science</i> , 2016, 7, 1457-1461.	3.7	41
148	Bayberry-like ZnO/MFI zeolite as high performance methanol-to-aromatics catalyst. <i>Chemical Communications</i> , 2016, 52, 2011-2014.	2.2	77
149	Influencing the activity and selectivity of alkylaromatic catalytic transformations by varying the degree of delamination in MWW zeolites. <i>Catalysis Science and Technology</i> , 2016, 6, 3166-3181.	2.1	18

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151	Organosilane with Gemini-Type Structure as the Mesoporegen for the Synthesis of the Hierarchical Porous ZSM-5 Zeolite. <i>Langmuir</i> , 2016, 32, 2085-2092.	1.6	21
152	Towards molecular control of elementary reactions in zeolite catalysis by advanced molecular simulations mimicking operating conditions. <i>Catalysis Science and Technology</i> , 2016, 6, 2686-2705.	2.1	38
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