Yaquan Wang

List of Publications by Year
in descending order

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124 papers	3,239 citations	126708 33 h-index	197535 49 g-index
126 all docs	126 docs citations	126 times ranked	3554 citing authors

#	Article	IF	Citations
1	Thermodynamic analysis of autothermal steam and CO2 reforming of methane. International Journal of Hydrogen Energy, 2008, 33, 2507-2514.	3.8	166
2	Lightweight UiO-66/cellulose aerogels constructed through self-crosslinking strategy for adsorption applications. Chemical Engineering Journal, 2019, 371, 138-144.	6.6	143
3	Alginate-based attapulgite foams as efficient and recyclable adsorbents for the removal of heavy metals. Journal of Colloid and Interface Science, 2018, 514, 190-198.	5.0	126
4	In-situ gelation of sodium alginate supported on melamine sponge for efficient removal of copper ions. Journal of Colloid and Interface Science, 2018, 512, 7-13.	5.0	102
5	Dry reforming of ethanol for hydrogen production: Thermodynamic investigation. International Journal of Hydrogen Energy, 2009, 34, 5382-5389.	3.8	90
6	Designing of Recyclable Attapulgite for Wastewater Treatments: A Review. ACS Sustainable Chemistry and Engineering, 2019, 7, 1855-1869.	3.2	81
7	Epoxidation of propylene with H2O2 catalyzed by supported TS-1 catalyst in a fixed-bed reactor: Experiments and kinetics. Chemical Engineering Journal, 2013, 215-216, 306-314.	6.6	78
8	Selective adsorption of CO on CuCl/Y adsorbent prepared using CuCl 2 as precursor: Equilibrium and thermodynamics. Chemical Engineering Journal, 2016, 290, 418-427.	6.6	75
9	Furfuryl alcohol modified melamine sponge for highly efficient oil spill clean-up and recovery. Journal of Materials Chemistry A, 2017, 5, 21893-21897.	5.2	75
10	Thermodynamic analysis of hydrogen production via partial oxidation of ethanol. International Journal of Hydrogen Energy, 2008, 33, 5035-5044.	3.8	72
11	Conversion of methanol to propylene over nano-sized ZSM-5 zeolite aggregates synthesized by a modified seed-induced method with CTAB. RSC Advances, 2016, 6, 76642-76651.	1.7	61
12	Highly transparent graphene oxide/cellulose composite film bearing ultraviolet shielding property. International Journal of Biological Macromolecules, 2020, 145, 663-667.	3.6	60
13	Facile synthesis of a superior MTP catalyst: Hierarchical micro-meso-macroporous ZSM-5 zeolites. Applied Catalysis A: General, 2018, 551, 34-48.	2.2	59
14	Construction of hydrophobic alginate-based foams induced by zirconium ions for oil and organic solvent cleanup. Journal of Colloid and Interface Science, 2019, 533, 182-189.	5.0	51
15	Simple fabrication of easy handling millimeter-sized porous attapulgite/polymer beads for heavy metal removal. Journal of Colloid and Interface Science, 2017, 502, 52-58.	5.0	50
16	Direct synthesis of hierarchical ZnZSM-5 with addition of CTAB in a seeding method and improved catalytic performance in methanol to aromatics reaction. Catalysis Today, 2018, 316, 91-98.	2.2	50
17	Selective CO adsorbent CuCl/AC prepared using CuCl₂ as a precursor by a facile method. RSC Advances, 2016, 6, 34439-34446.	1.7	48
18	Aggregates of superfine ZSM-5 crystals: The effect of NaOH on the catalytic performance of methanol to propylene reaction. Microporous and Mesoporous Materials, 2017, 244, 301-309.	2.2	47

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19	Methanol to gasoline over zeolite ZSM-5: improved catalyst performance by treatment with HF. RSC Advances, 2016, 6, 58586-58593.	1.7	44
20	Improvement of the functions of osteoblasts seeded on modified poly(D,L-lactic acid) with poly(aspartic acid). Journal of Biomedical Materials Research Part B, 2002, 62, 283-291.	3.0	42
21	Zirconium ion modified melamine sponge for oil and organic solvent cleanup. Journal of Colloid and Interface Science, 2020, 566, 242-247.	5.0	42
22	Photocatalytic hydrogen evolution from water on SiC under visible light irradiation. Reaction Kinetics and Catalysis Letters, 2007, 91, 13-19.	0.6	41
23	Synthesis of hierarchical ZSM-5 zeolites with CTAB-containing seed silicalite-1 and its catalytic performance in methanol to propylene. Catalysis Communications, 2018, 112, 10-14.	1.6	40
24	Novel preparation of binder-free Y/ZSM-5 zeolite composites for VOCs adsorption. Chemical Engineering Journal, 2021, 417, 129172.	6.6	40
25	CTAB resulted direct synthesis and properties of hierarchical ZSM-11/5 composite zeolite in the absence of template. Microporous and Mesoporous Materials, 2017, 243, 271-280.	2.2	36
26	A green strategy for preparing durable underwater superoleophobic calcium alginate hydrogel coated-meshes for oil/water separation. International Journal of Biological Macromolecules, 2019, 136, 13-19.	3.6	36
27	Liquid phase hydrogenation of 2-ethylanthraquinone over La-doped Niâ€“B amorphous alloy catalysts. Materials Letters, 2004, 58, 1267-1271.	1.3	35
28	Production of hydrogen by ethanol steam reforming over nickel-metal oxide catalysts prepared via urea-nitrate combustion method. International Journal of Energy Research, 2011, 35, 501-506.	2.2	35
29	Effect of TS-1 treatment by tetrapropyl ammonium hydroxide on cyclohexanone ammoximation. Catalysis Communications, 2014, 50, 59-62.	1.6	35
30	Sustainable and scalable in-situ synthesis of hydrochar-wrapped Ti3AlC2-derived nanofibers as adsorbents to remove heavy metals. Bioresource Technology, 2019, 282, 222-227.	4.8	35
31	Synthesis of nano-sized SAPO-34 with morpholine-treated micrometer-seeds and their catalytic performance in methanol-to-olefin reactions. Applied Catalysis A: General, 2020, 589, 117314.	2.2	35
32	Title is missing!. Reaction Kinetics and Catalysis Letters, 2002, 77, 73-81.	0.6	34
33	Oxidative reformings of methane to syngas with steam and CO2 catalyzed by metallic Ni based monolithic catalysts. Catalysis Communications, 2008, 9, 1040-1044.	1.6	34
34	Gasâ^'Liquidâ^'Liquid Three-Phase Reactive Extraction for the Hydrogen Peroxide Preparation by Anthraquinone Process. Industrial & Engineering Chemistry Research, 2008, 47, 7414-7418.	1.8	34
35	Direct synthesis of hierarchical binder-free ZSM-5 and catalytic properties for MTP. Microporous and Mesoporous Materials, 2020, 292, 109731.	2.2	34
36	Periodically operated trickle-bed reactor for EAQs hydrogenation: Experiments and modeling. Chemical Engineering Science, 2005, 60, 6270-6278.	1.9	33

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37	Oxidative desulfurization of model diesel oil over Ti-containing molecular sieves using hydrogen peroxide. Reaction Kinetics and Catalysis Letters, 2007, 92, 155-163.	0.6	32
38	Yttrium-stabilized zirconia-promoted metallic nickel catalysts for the partial oxidation of methane to hydrogen. International Journal of Hydrogen Energy, 2009, 34, 2252-2259.	3.8	31
39	Aggregates of nano-sized ZSM-5 crystals synthesized with template-free and alkali-treated seeds for improving the catalytic performance in MTP reaction. Catalysis Communications, 2017, 100, 107-111.	1.6	31
40	Ethylene/ethane separation by CuCl/AC adsorbent prepared using CuCl2 as a precursor. Adsorption, 2016, 22, 1013-1022.	1.4	29
41	Stability of Coâ€“Ceâ€“Mn mixed-oxide catalysts for CO preferential oxidation in H2-rich gases. Chemical Engineering Journal, 2010, 165, 846-850.	6.6	28
42	Mesoâ€“macroporous monolithic CuOâ€“CeO2/Î³/Î±-Al2O3 catalysts for CO preferential oxidation in hydrogen-rich gas: Effect of loading methods. International Journal of Hydrogen Energy, 2010, 35, 6113-6122.	3.8	28
43	Metal nanoparticle-embedded bacterial cellulose aerogels via swelling-induced adsorption for nitrophenol reduction. International Journal of Biological Macromolecules, 2020, 143, 922-927.	3.6	26
44	Integrated Process of H2O2 Generation through Anthraquinone Hydrogenationâ^'Oxidation Cycles and the Ammoximation of Cyclohexanone. Industrial & Engineering Chemistry Research, 2004, 43, 166-172.	1.8	25
45	Beckmann rearrangement of cyclohexanone oxime over HÎ² zeolite and HÎ² zeolite-supported boride. Catalysis Communications, 2005, 6, 53-56.	1.6	25
46	Preparation of Niâ€“B amorphous alloy catalyst from nickel hydrazine complex with ultrasonic assistance. Catalysis Communications, 2011, 16, 86-89.	1.6	25
47	Effects of nickel ethylenediamine complex on the preparation of Niâ€“B amorphous alloy catalyst with ultrasonic assistance. Materials Letters, 2012, 67, 151-153.	1.3	25
48	Title is missing!. Reaction Kinetics and Catalysis Letters, 2001, 74, 71-77.	0.6	24
49	Influence of Brâ^' and Na+ in synthesis of Silicalite-1 on catalytic performance in vapor phase Beckmann rearrangement of cyclohexanone oxime. Journal of Molecular Catalysis A, 2011, 335, 105-111.	4.8	24
50	Direct synthesis of high-silica nano ZSM-5 aggregates with controllable mesoporosity and enhanced catalytic properties. RSC Advances, 2016, 6, 99129-99138.	1.7	24
51	Seed-assisted synthesis of hierarchical SAPO-18/34 intergrowth and SAPO-34 zeolites and their catalytic performance for the methanol-to-olefin reaction. Catalysis Today, 2020, 355, 188-198.	2.2	24
52	Partial oxidation of methane to syngas over nickel monolithic catalysts. AICHE Journal, 2006, 52, 4276-4279.	1.8	23
53	Synthesis of ZSM-5 aggregates by a seed-induced method and catalytic performance in methanol-to-gasoline conversion. Comptes Rendus Chimie, 2017, 20, 385-394.	0.2	23
54	Experimental investigation and simulation of gasâ€“liquidâ€“liquid reactive extraction process for the production of hydrogen peroxide. Chemical Engineering Science, 2005, 60, 6298-6306.	1.9	22

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55	Influences of synthesis conditions on the content of framework Cu species in Cu-AlPO<Subscript>4</Subscript>-5 molecular sieve. Reaction Kinetics and Catalysis Letters, 2005, 84, 327-334.	0.6	22
56	Asymmetric Michael addition promoted by (R,R)-trans-1,2-diaminocyclohexane in ionic liquids. Journal of Organometallic Chemistry, 2005, 690, 3535-3539.	0.8	21
57	Yttria promoted metallic nickel catalysts for the partial oxidation of methane to synthesis gas. Journal of Natural Gas Chemistry, 2008, 17, 344-350.	1.8	21
58	Fluoride-treated HZSM-5 as a highly stable catalyst for the reaction of methanol to gasoline. Catalysis Today, 2017, 298, 226-233.	2.2	21
59	Controllable fabrication of single-crystalline, ultrafine and high-silica hierarchical ZSM-5 aggregates via solid-like state conversion. RSC Advances, 2017, 7, 25605-25620.	1.7	21
60	Organosilane-assistant synthesis of hierarchical SAPO-34 aggregates with superior MTO performance. Microporous and Mesoporous Materials, 2021, 310, 110619.	2.2	21
61	Metallic Ni monolithâ€“Ni/MgAl2O4 dual bed catalysts for the autothermal partial oxidation of methane to synthesis gas. International Journal of Hydrogen Energy, 2010, 35, 8182-8190.	3.8	19
62	Zirconia promoted metallic nickel catalysts for the partial oxidation of methane to synthesis gas. Catalysis Communications, 2009, 10, 940-944.	1.6	17
63	Effect of triethylamine treatment of titanium silicalite-1 on cyclohexanone ammoximation in a continuous system. Reaction Kinetics, Mechanisms and Catalysis, 2015, 114, 735-752.	0.8	17
64	Hydration of cyclohexene over zeolite ZSM-5: improved catalyst performance by alkali treatment. Reaction Kinetics, Mechanisms and Catalysis, 2016, 119, 671-683.	0.8	17
65	Vapor phase Beckmann rearrangement of cyclohexanone oxime on HÎ²-zeolites treated by ammonia. Microporous and Mesoporous Materials, 2008, 107, 247-251.	2.2	16
66	Synthesis of acetone oxime through acetone ammoximation over TS-1. Reaction Kinetics and Catalysis Letters, 2004, 82, 333-337.	0.6	15
67	Epoxidation of allyl choride with molecular oxygen and 2-ethyl-anthrahydroquinone catalyzed by TS-1. Journal of Molecular Catalysis A, 2005, 229, 71-75.	4.8	15
68	Mesoâ€“macro-porous monolithic Ptâ€“Ni/Al₂O₃catalysts used for miniaturizing preferential carbon monoxideoxidation reactor. Chemical Communications, 2010, 46, 634-636.	2.2	15
69	Adsorptive separation of ethylene/ethane mixtures with CuCl@HY adsorbent: equilibrium and reversibility. Journal of Porous Materials, 2017, 24, 713-719.	1.3	15
70	Reaction mechanism of the ammoximation of ketones catalyzed by TS-1. Reaction Kinetics and Catalysis Letters, 2005, 87, 25-32.	0.6	14
71	Photocatalytic H2 evolution from water in the presence of carbon dioxide over NiO/Ca2Fe2O5. Reaction Kinetics, Mechanisms and Catalysis, 2010, 99, 485.	0.8	14
72	Liquid phase propylene epoxidation with H₂O₂on TS-1/SiO₂catalyst in a fixed-bed reactor: experiments and deactivation kinetics. Journal of Chemical Technology and Biotechnology, 2015, 90, 1489-1496.	1.6	14

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73	Synthesis of a hierarchical ZSM-11/5 composite zeolite of high SiO2/Al2O3 ratio and catalytic performance in the methanol-to-olefins reaction. Comptes Rendus Chimie, 2017, 20, 1083-1092.	0.2	14
74	Seed-induced synthesis of multilamellar ZSM-5 nanosheets directed by amphiphilic organosilane. New Journal of Chemistry, 2018, 42, 17043-17055.	1.4	14
75	Synthesis of hierarchical ZSM-5 aggregates by an alkali-treated seeds method with cetyltrimethylammonium bromide for the methanol to gasoline reaction. Reaction Kinetics, Mechanisms and Catalysis, 2019, 128, 1079-1096.	0.8	14
76	The beneficial effects of molybdenum addition on Niâ€“B amorphous alloy catalyst used in 2-ethylanthraquinone hydrogenation. Journal of Materials Science, 2005, 40, 6585-6588.	1.7	13
77	Effect of triethylamine treatment of titanium silicalite-1 on propylene epoxidation. Frontiers of Chemical Science and Engineering, 2014, 8, 478-487.	2.3	13
78	Effect of phosphorus on the performance of IM-5 for the alkylation of toluene with methanol into p-xylene. Comptes Rendus Chimie, 2019, 22, 13-21.	0.2	13
79	An efficient route for synthesis of ERI zeolite through conversion of FAU zeolite in the presence of N,N-dimethylpiperidinium hydroxide. Microporous and Mesoporous Materials, 2019, 279, 407-415.	2.2	13
80	Influences of ethylenediamine treatment of Silicalite-1 on the catalytic vapor-phase Beckmann rearrangement of cyclohexanone oxime. Catalysis Communications, 2007, 8, 16-20.	1.6	12
81	Fabrication of hierarchical ZnSAPO-34 by alkali treatment with improved catalytic performance in the methanol-to-olefin reaction. Comptes Rendus Chimie, 2018, 21, 61-70.	0.2	12
82	Study on the Polymerization of Aspartic Acid Catalyzed by Phosphoric Acid. Journal of Macromolecular Science - Pure and Applied Chemistry, 2003, 40, 293-307.	1.2	11
83	Effect of sodium ions in synthesis of titanium silicalite-1 on its catalytic performance for cyclohexanone ammoximation. Frontiers of Chemical Science and Engineering, 2014, 8, 149-155.	2.3	11
84	Alloy Formation and Strength of Ni-Cu Interaction in Ni-Cu/ZnO Catalysts. Reaction Kinetics and Catalysis Letters, 2000, 70, 91-96.	0.6	10
85	Influence of seeds on the synthesis of TS-1 with inorganic materials. Reaction Kinetics and Catalysis Letters, 2006, 89, 219-227.	0.6	10
86	Dehydrocoupling of methanol to methyl formate overa a Cu/Cr2O3 catalyst. Reaction Kinetics and Catalysis Letters, 1999, 67, 305-310.	0.6	9
87	Partial oxidation of methane to syngas catalyzed by a nickel nanowire catalyst. Journal of Natural Gas Chemistry, 2009, 18, 98-103.	1.8	9
88	Synthesis of mesoporous titanium silicalite-1 with high stability in cyclohexanone ammoximation. Transactions of Tianjin University, 2016, 22, 254-260.	3.3	9
89	CO Hydrogenation Catalyzed by Supported Ni-Cu Bimetallic Catalysts. Reaction Kinetics and Catalysis Letters, 2000, 70, 213-217.	0.6	8
90	PROBING STUDY OF Rh CATALYSTS ON DIFFERENT SUPPORTS IN CO HYDROGENATION. Reaction Kinetics and Catalysis Letters, 2002, 76, 141-150.	0.6	8

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91	Meso-macroporous monolithic CuOâ€“CeO2/Î³-Al2O3 catalysts and their catalytic performance for preferential oxidation of CO. Journal of Materials Science, 2010, 45, 5660-5668.	1.7	8
92	Epoxidation of Propylene Over Titanosilicate-1 in Fixed-bed Reactor: Experiments and Kinetics. Asian Journal of Chemistry, 2014, 26, 943-950.	0.1	8
93	Ni3Bâ€“Ni nanocomposites for improved electrocatalytic activity in methanol oxidation reaction. Journal of Applied Electrochemistry, 2016, 46, 1177-1186.	1.5	8
94	Effect of TS-1 Treatment by Mixed Alkaline on Propylene Epoxidation. Transactions of Tianjin University, 2018, 24, 25-31.	3.3	8
95	Study on deactivation and regeneration of Pd/Al2O3catalyst in hydrogen peroxide production by the anthraquinone process. Reaction Kinetics and Catalysis Letters, 2004, 81, 297-304.	0.6	7
96	Allyl chloride epoxidation with H2O2 on TS-1/SiO2 catalyst in a fixed-bed reactor: experiments and deactivation kinetics. Reaction Kinetics, Mechanisms and Catalysis, 2014, 112, 267-282.	0.8	7
97	Effect of Extra-Framework Titanium in TS-1 on the Ammoximation of Cyclohexanone. Transactions of Tianjin University, 2017, 23, 230-236.	3.3	7
98	Performance of Methanol-to-Olefins Catalytic Reactions by the Addition of PEG in the Synthesis of SAPO-34. Transactions of Tianjin University, 2017, 23, 501-510.	3.3	7
99	Facile fabrication of ZIFâ€8 embedded millimeterâ€sized porous polyethersulfone beads for selective dye removal. Polymer Composites, 2018, 39, 3896-3902.	2.3	7
100	Seed-Assisted Synthesis and Catalytic Performance of Nano-sized ZSM-5 Aggregates in a One-Step Crystallization Process. Transactions of Tianjin University, 2020, 26, 292-304.	3.3	7
101	Effects of lanthanum addition on Ni-B amorphous alloy catalysts used in anthraquinone hydrogenation. Reaction Kinetics and Catalysis Letters, 2003, 80, 233-239.	0.6	6
102	Steam reforming of ethanol to hydrogen over nickel metal catalysts. International Journal of Energy Research, 2010, 34, n/a-n/a.	2.2	6
103	GAS-AGITATED LIQUID AND OXIDATIVE EXTRACTION IN THE ALKYL ANTHRAQUINONE PROCESS FOR THE PREPARATION OF HYDROGEN PEROXIDE. Chemical Engineering Communications, 2004, 191, 1554-1563.	1.5	5
104	Process integration of H2O2 generation and the ammoximation of cyclohexanone. Journal of Chemical Technology and Biotechnology, 2004, 79, 658-662.	1.6	5
105	Influence of Na+ on the synthesis of silicalite-1 catalysts for use in the vapor phase Beckmann rearrangement of cyclohexanone oxime. Frontiers of Chemical Science and Engineering, 2011, 5, 401-408.	2.3	5
106	Deactivation and regeneration of TS-1/SiO2 catalyst for epoxidation of propylene with hydrogen peroxide in a fixed-bed reactor. Frontiers of Chemical Science and Engineering, 2013, 7, 202-209.	2.3	5
107	Effect of NaOH Treatment on Catalytic Performance of ZSM-5 in Cyclohexene Hydration. Transactions of Tianjin University, 2017, 23, 43-50.	3.3	5
108	Synthesis of Ti-HÎ² zeolites by liquid-solid isomorphous substitution and the catalytic properties in the vapor phase Beckmann rearrangement of cyclohexanone oxime. Reaction Kinetics and Catalysis Letters, 2007, 90, 365-372.	0.6	4

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109	Effects of organic solvent addition on the epoxidation of propene catalyzed by TS-1. Reaction Kinetics and Catalysis Letters, 2007, 92, 49-54.	0.6	4
110	Effects of the amount of tetrapropyl ammonium hydroxide in synthesis on TS-1 properties and catalytic performance in epoxidation of propylene. Transactions of Tianjin University, 2016, 22, 458-465.	3.3	4
111	Preparation of hollow ZSM-11 and its enhanced catalytic properties in the methanol to hydrocarbons reaction. Reaction Kinetics, Mechanisms and Catalysis, 2017, 122, 1231-1244.	0.8	4
112	Facile One-Pot Synthesis of ZSM-5 Aggregates with Inter- and Intra-Crystalline Mesopores for Methanol to Gasoline Conversion. Transactions of Tianjin University, 2019, 25, 9-22.	3.3	4
113	Novel synthesis and catalytic performance of hierarchical MOR. New Journal of Chemistry, 2021, 45, 8629-8638.	1.4	4
114	SiO2-Supported Highly Dispersed Rh Catalysts. Reaction Kinetics and Catalysis Letters, 2001, 73, 381-389.	0.6	3
115	Epoxidation of cyclohexene on modified Ti-containing mesoporous MCM-41. Reaction Kinetics and Catalysis Letters, 2007, 90, 77-84.	0.6	3
116	A Novel Kinetics Study on H2O2 Decomposition inthe Propylene Epoxidation System in a Fixed-Bed Reactor. International Journal of Chemical Reactor Engineering, 2013, 11, 265-269.	0.6	2
117	Nanoscale Niâ€“B Electrocatalyst Prepared from Nickel Ethylenediamine Complex for Direct Ethanol Electrocatalytic Oxidation. Journal of Nanoscience and Nanotechnology, 2014, 14, 7319-7324.	0.9	2
118	Direct synthesis of H type ZSM-5 in shaped form and catalytic properties in methanol-to-hydrocarbon reaction. Journal of Porous Materials, 2022, 29, 1165-1175.	1.3	2
119	Effect of metal oxides on the reforming of methane with carbon dioxide. Reaction Kinetics and Catalysis Letters, 1999, 68, 183-190.	0.6	1
120	Intrinsic kinetic study on the oxidation of 6-pentyl-1,2,3,4-tetrahydroanthacene-9,10-diol. Reaction Kinetics and Catalysis Letters, 2004, 83, 71-77.	0.6	1
121	Kinetics of dehydrationâ€“polymerization of aspartic acid and synthesis of polyaspartate catalyzed by potassium bisulfate. Polymer International, 2004, 53, 156-162.	1.6	1
122	Post-treatment of TS-1 with Mixtures of TPAOH and Ammonium Salts and the Catalytic Properties in Propylene Epoxidation. Transactions of Tianjin University, 2018, 24, 461-470.	3.3	1
123	Oxidative conversion of methane to syngas on metallic Ni monolith with Mg promotion. Reaction Kinetics and Catalysis Letters, 2008, 93, 249-255.	0.6	0
124	Octanol/Water Partition Coefficients of Pyridinium-Based Ionic Liquids. Asian Journal of Chemistry, 2015, 27, 2819-2822.	0.1	0