

Catalytic Hydrocracking – Mechanisms and Versatility

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Effect of Pressure on the Hydrocracking of Light Cycle Oil with a Pt/Pd/HY Catalyst. Energy & Fuels, 2012, 26, 5897-5904.	2.5	27
2	H ₂ PtCl ₆ -derived Pt nanoparticles on USY zeolite: A qualitative and quantitative electron tomography study. Microporous and Mesoporous Materials, 2012, 164, 99-103.	2.2	11
3	Characterization of shape selective properties of zeolites via hydroisomerization of n-hexane. Microporous and Mesoporous Materials, 2012, 164, 71-81.	2.2	29
4	Comparison of the performances of Pt/HBEA nano dispersed over alumina and Pt/ZSM-22 catalysts in n-hexadecane hydroisomerization. Reaction Kinetics, Mechanisms and Catalysis, 2012, 107, 285-294.	0.8	15
6	Deactivation of a Pt/Silica-Alumina Catalyst and Effect on Selectivity in the Hydrocracking of n-Hexadecane. Topics in Catalysis, 2013, 56, 594-601.	1.3	5
7	n-Hexadecane hydroisomerization over Pt-HBEA catalysts. Quantification and effect of the intimacy between metal and protonic sites. Journal of Catalysis, 2013, 307, 122-131.	3.1	183
8	Catalytic Reduction of Biomass-Derived Furanic Compounds with Hydrogen. ACS Catalysis, 2013, 3, 2655-2668.	5.5	584
9	â€œIdealâ€-bifunctional catalysis over Pt-acid zeolites. Catalysis Today, 2013, 218-219, 123-134.	2.2	168
10	Morphology and atomic-scale structure of single-layer WS ₂ nanoclusters. Physical Chemistry Chemical Physics, 2013, 15, 15971.	1.3	65
11	Heterogeneities of the Nanostructure of Platinum/Zeolite Y Catalysts Revealed by Electron Tomography. ACS Nano, 2013, 7, 3698-3705.	7.3	85
12	Effect of Noble Metals on the Strength of Brønsted Acid Sites in Bifunctional Zeolites. ChemCatChem, 2013, 5, 1524-1530.	1.8	24
13	Bifunctional Hydrogenating/Acid Catalysis: Quantification of the Intimacy Criterion. Catalysis Letters, 2013, 143, 587-591.	1.4	53
14	High-performance ring-opening catalysts based on iridium-containing zeolite Beta in the hydroconversion of decalin. Applied Catalysis A: General, 2013, 455, 46-57.	2.2	43
16	Single-Event Kinetic Model for Cracking and Isomerization of 1-Hexene on ZSM-5. Industrial & Engineering Chemistry Research, 2014, 53, 19460-19470.	1.8	18
18	A comparative study of the adsorption of water and methanol in zeolite BEA: a molecular simulation study. Molecular Simulation, 2014, 40, 1113-1124.	0.9	11
19	Selective Synthesis of Gasoline-Ranged Hydrocarbons from Syngas over Hybrid Catalyst Consisting of Metal-Loaded ZSM-5 Coupled with Copper-Zinc Oxide. Catalysts, 2014, 4, 116-128.	1.6	26
20	Synthesis of diesel range alkanes with 2-methylfuran and mesityl oxide from lignocellulose. Catalysis Today, 2014, 234, 91-99.	2.2	39
21	Synthesis of renewable diesel range alkanes by hydrodeoxygenation of furans over Ni/H ₂ under mild conditions. Green Chemistry, 2014, 16, 594-599.	4.6	79

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22	Catalytic activation of OKO zeolite with intersecting pores of 10- and 12-membered rings using atomic layer deposition of aluminium. <i>Chemical Communications</i> , 2014, 50, 4610-4612.	2.2	24
23	Catalytic materials for the hydrogenolysis of glycerol to 1,3-propanediol. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6688-6702.	5.2	166
24	Hydrocracking under Fischerâ€Tropsch conditions; the effect of CO on the mass transfer resistance by metal clusters. <i>Journal of Catalysis</i> , 2014, 317, 318-325.	3.1	21
25	Will Zeoliteâ€Based Catalysis be as Relevant in Future Biorefineries as in Crude Oil Refineries?. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8621-8626.	7.2	132
26	Density functional theory simulations of complex catalytic materials in reactive environments: beyond the ideal surface at low coverage. <i>Catalysis Science and Technology</i> , 2014, 4, 2797-2813.	2.1	57
27	Effect of metal loading on activity, selectivity and deactivation behavior of Pd/silicaâ€alumina catalysts in the hydroconversion of n-hexadecane. <i>Catalysis Today</i> , 2014, 223, 87-96.	2.2	52
28	Hydroconversion of n-hexadecane on Pt/silica-alumina catalysts: Effect of metal loading and support acidity on bifunctional and hydrogenolytic activity. <i>Applied Catalysis A: General</i> , 2014, 469, 328-339.	2.2	50
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30	Catalytic Production of Branched Small Alkanes from Biohydrocarbons. <i>ChemSusChem</i> , 2015, 8, 2472-2475.	3.6	52
32	From catalyst preparation toward catalyst synthesis. <i>Journal of Catalysis</i> , 2015, 328, 72-74.	3.1	14
33	Nanoscale intimacy in bifunctional catalysts for selective conversion of hydrocarbons. <i>Nature</i> , 2015, 528, 245-248.	13.7	450
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39	Nanostructured Encapsulated Catalysts for Combination of Fischerâ€Tropsch Synthesis and Hydroprocessing. <i>ChemCatChem</i> , 2015, 7, 1018-1022.	1.8	39
40	Catalytic Total Hydrodeoxygenation of Biomassâ€Derived Polyfunctionalized Substrates to Alkanes. <i>ChemSusChem</i> , 2015, 8, 1114-1132.	3.6	123
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43	The Catalyst Selectivity Index (CSI): A Framework and Metric to Assess the Impact of Catalyst Efficiency Enhancements upon Energy and CO ₂ Footprints. <i>Topics in Catalysis</i> , 2015, 58, 682-695.	1.3	18
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47	Conversion of vegetable oils on Pt/Al ₂ O ₃ /SAPO-11 to diesel and jet fuels containing aromatics. <i>Fuel</i> , 2015, 161, 287-294.	3.4	95
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49	Isostructural Zeolite-Supported Rhodium and Iridium Complexes: Tuning Catalytic Activity and Selectivity by Ligand Modification. <i>ACS Catalysis</i> , 2015, 5, 5647-5656.	5.5	58
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51	Catalytic transformation of cellulose and its derived carbohydrates into chemicals involving C-C bond cleavage. <i>Journal of Energy Chemistry</i> , 2015, 24, 595-607.	7.1	55
52	Optimization of Heavy Oil Upgrading Using Dispersed Nanoparticulate Iron Oxide as a Catalyst. <i>Energy & Fuels</i> , 2015, 29, 6306-6316.	2.5	59
53	Maximizing n-alkane hydroisomerization: the interplay of phase, feed complexity and zeolite catalyst mixing. <i>Catalysis Science and Technology</i> , 2015, 5, 2053-2058.	2.1	21
54	Selective Transformation of Syngas into Gasoline-Range Hydrocarbons over Mesoporous H ₂ ZSM-5-Supported Cobalt Nanoparticles. <i>Chemistry - A European Journal</i> , 2015, 21, 1928-1937.	1.7	110
55	Pt/Al-SBA-15 catalysts for hydrocracking of C ₂₁ -C ₃₄ n-paraffin mixture into gasoline and diesel fractions. <i>Fuel</i> , 2015, 143, 63-71.	3.4	37
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62	Shape Selectivity in Hydroisomerization of Hexadecane over Pt Supported on 10-Ring Zeolites: ZSM-22, ZSM-23, ZSM-35, and ZSM-48. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 6069-6078.	1.8	96
63	Bifunctional noble metal/zeolite catalysts for upgrading low-quality diesel fractions via selective opening of naphthenic rings. <i>Catalysis Science and Technology</i> , 2016, 6, 2528-2542.	2.1	30
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81	A systematic study on mixtures of Pt/zeolite as hydroisomerization catalysts. <i>Catalysis Science and Technology</i> , 2017, 7, 1095-1107.	2.1	30
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84	Mathematical modelling of "reactor" stabilizer column system in catalytic dewaxing of straight run and heavy gasoils. <i>Chemical Engineering Journal</i> , 2017, 329, 283-294.	6.6	13
85	The effect of palladium loading on the catalytic performance of Pd/SAPO-11 for n-decane hydroisomerization. <i>Molecular Catalysis</i> , 2017, 433, 84-90.	1.0	35
86	Production of Gasoline Fuel from Alga-Derived Botryococcene by Hydrogenolysis over Ceria-Supported Ruthenium Catalyst. <i>ChemCatChem</i> , 2017, 9, 2701-2708.	1.8	20
87	A single events microkinetic model for hydrocracking of vacuum gas oil. <i>Computers and Chemical Engineering</i> , 2017, 98, 70-79.	2.0	19
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94	One-Stage Syngas-to-Fuel Conversion with Printed Catalyst Layers in Microstructured Reactors. <i>Chemie-Ingenieur-Technik</i> , 2017, 89, 894-902.	0.4	3
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96	Hydroisomerization of n-hexadecane using Pt/alumina-Beta zeolite catalysts for producing renewable diesel with low pour point. <i>Fuel</i> , 2017, 209, 521-528.	3.4	50
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107	Multi-metal catalysts for slurry-phase hydrocracking of coal-tar vacuum residue: Impact of inherent inorganic minerals. <i>Fuel</i> , 2018, 215, 370-377.	3.4	18
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114	Distribution Features of Products of Long-Chain Alkane Hydrogenolysis over Unpromoted Cobalt Catalysts. <i>Petroleum Chemistry</i> , 2018, 58, 1237-1244.	0.4	3
115	Micropore blocked core-shell ZSM-22 designed via epitaxial growth with enhanced shape selectivity and high n-dodecane hydroisomerization performance. <i>Catalysis Science and Technology</i> , 2018, 8, 6407-6419.	2.1	23
116	Fast detection and structural identification of carbocations on zeolites by dynamic nuclear polarization enhanced solid-state NMR. <i>Chemical Science</i> , 2018, 9, 8184-8193.	3.7	38

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117	Effects of Bifunctional Catalyst Geometry on Vacuum Gas Oil Hydrocracking Conversion and Selectivity for Middle Distillate. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16579-16592.	1.8	4
118	Removal of Basic Compounds and Dealkylation of Alkyl Polycyclic Aromatic Hydrocarbons in Vacuum Gas Oil. <i>Journal of the Japan Petroleum Institute</i> , 2018, 61, 294-301.	0.4	4
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120	Bifunctional MoS ₂ -Silica-Alumina Catalysts for Slurry Phase Phenanthrene-Decalin Hydroconversion. <i>Energy & Fuels</i> , 2018, 32, 10910-10922.	2.5	10
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125	Metal/Acid Bifunctional Catalysis and Intimacy Criterion for Ethylcyclohexane Hydroconversion: When Proximity Does Not Matter. <i>ACS Catalysis</i> , 2018, 8, 6035-6046.	5.5	51
126	Heteroaggregation and Selective Deposition for the Fine Design of Nanoarchitected Bifunctional Catalysts: Application to Hydroisomerization. <i>ACS Catalysis</i> , 2018, 8, 6071-6078.	5.5	41
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128	Morphological and Structural Properties of MoS ₂ and MoS ₂ -Amorphous Silica-Alumina Dispersed Catalysts for Slurry-Phase Hydroconversion. <i>Energy & Fuels</i> , 2018, 32, 7066-7077.	2.5	22
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132	Effects of Pt site distributions on the catalytic performance of Pt/SAPO-11 for n-dodecane hydroisomerization. <i>Catalysis Today</i> , 2018, 316, 43-50.	2.2	40
133	Deactivation Kinetics of Solid Acid Catalyst with Laterally Interacting Protons. <i>ACS Catalysis</i> , 2018, 8, 9016-9033.	5.5	13
134	Effects of Fatty Acid Structures on Ketonization Selectivity and Catalyst Deactivation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13035-13044.	3.2	23

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136	Selective ring opening of decalin over bifunctional RuS ₂ /zeolite catalysts. <i>Catalysis Today</i> , 2019, 323, 105-111.	2.2	10
137	Interplay of the adsorption of light and heavy paraffins in hydroisomerization over H-beta zeolite. <i>Catalysis Science and Technology</i> , 2019, 9, 5368-5382.	2.1	12
138	Designing of Hollow ZSM-5 with Controlled Mesopore Sizes To Boost Gasoline Production from Syngas. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18125-18132.	3.2	40
139	Hierarchical ZSM-48-Supported Nickel Catalysts with Enhanced Hydroisomerization Performance of Hexadecane. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 19855-19861.	1.8	27
140	Single-step hydroconversion of triglycerides into biojet fuel using CO-tolerant PtRe catalyst supported on USY. <i>Journal of Catalysis</i> , 2019, 379, 180-190.	3.1	28
141	Variation of Aluminium Distribution in Small-Sized ZSM-5 Crystals during Desilication. <i>Chemistry - A European Journal</i> , 2019, 25, 15879-15886.	1.7	10
142	Catalytic One-Pot Conversion of Renewable Platform Chemicals to Hydrocarbon and Ether Biofuels through Tandem Hf(OTf) ₄ +Pd/C Catalysis. <i>ChemSusChem</i> , 2019, 12, 5217-5223.	3.6	12
143	Acid sites on silica-supported molybdenum oxides probed by ammonia adsorption: Experiment and theory. <i>Molecular Catalysis</i> , 2019, 478, 110580.	1.0	21
144	Competition of Secondary versus Tertiary Carbenium Routes for the Type B Isomerization of Alkenes over Acid Zeolites Quantified by Ab Initio Molecular Dynamics Simulations. <i>ACS Catalysis</i> , 2019, 9, 9813-9828.	5.5	35
145	Pyrolysis of waste rubber tires with palladium doped zeolite. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103451.	3.3	23
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147	Acidic ionic liquids containing variable cationic head groups for catalytic isomerization of n-hexane. <i>Journal of Molecular Liquids</i> , 2019, 288, 111047.	2.3	12
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