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Upgrading of heavy crude oil by thermal and catalytic cracking in the presence of NiCr/WC catalyst

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Journal of the Taiwan Institute of Chemical Engineers,  
2020, 112, 97-105.

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#	Paper	IF	Citations
18	Fungal bioleaching of metals from refinery spent catalysts: A critical review of current research, challenges, and future directions. <i>Journal of Environmental Management</i> , <b>2021</b> , 280, 111789	7.9	14
17	Transformation of Resinous Components of the Ashalcha Field Oil during Catalytic Aquathermolysis in the Presence of a Cobalt-Containing Catalyst Precursor. <i>Catalysts</i> , <b>2021</b> , 11, 745	4	4
16	NiO based catalysts obtained in-situ for heavy crude oil upgrading: effect of NiO precursor on the catalytic cracking products composition. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2021</b> , 127, 151-156	5.3	4
15	Calculation of the Kinetic Parameters for the Reactions of Formation and Decomposition of Thiophene Derivatives in the Process of High-Sulfur Natural Bitumens Cracking. <i>Petroleum Chemistry</i> , <b>2021</b> , 61, 1319	1.1	0
14	Thermodynamic analysis of fuel oil blended stock (FOBS) model compound, n-eicosane to hydrogen via oxidative cracking. <i>Chemical Engineering Research and Design</i> , <b>2022</b> , 178, 340-355	5.5	1
13	Development of a catalyst based on mixed iron oxides for intensification the production of heavy hydrocarbon feedstocks. <i>Fuel</i> , <b>2022</b> , 312, 123005	7.1	2
12	Kinetic modeling and CFD simulation of catalytic upgrading reactions: From batch to continuous reactors. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2022</b> , 134, 104254	5.3	0
11	Reaction kinetics and coke forming propensities of Arabian mix asphalt vis-a-vis Arabian mix vacuum residue. <i>Petroleum Science and Technology</i> , <b>2022</b> , 40, 1333-1348	1.4	
10	Transformation of asphaltenes of vacuum residues in thermal and thermocatalytic processes. <i>Petroleum Science and Technology</i> , <b>2022</b> , 40, 980-994	1.4	1
9	Kinetics of heavy oil cracking in the presence of ferrospheres. <i>AIP Conference Proceedings</i> , <b>2022</b> ,	0	
8	Thermal cracking of heavy residues in the presence of catalytic systems modified by polyoxomolybdate compounds. <i>AIP Conference Proceedings</i> , <b>2022</b> ,	0	
7	Effect of pre-oxidation of dispersed catalysts on heavy oil cracking. <i>Petroleum Science and Technology</i> , 1-15	1.4	1
6	Catalytic upgrading of heavy oil from the Ashalchinskoye oilfield. <i>Petroleum Science and Technology</i> , 1-16	1.4	1
5	Spatially resolved micron-scale wrinkle structures at asphaltene films induced by mild thermal treatment and its impact on emulsion stability. <b>2022</b> ,		
4	Thermal Cracking Processes Up-to-dateness for Oil Vacuum Residual and Bio-Raw Materials: A Perspective for Municipal Solid Waste. <b>2022</b> , 635-647		0
3	Characteristics of Products of Thermal and Catalytic Cracking of Heavy Oil Asphaltenes under Supercritical Water Conditions. <b>2022</b> , 105784		0
2	Effect of Hydrogen-Donor of Heavy Crude Oil Catalytic Aquathermolysis in the Presence of a Nickel-Based Catalyst. <b>2022</b> , 12, 1154		0

1 GC-MS analysis of hydrocarbons formed after catalytic cracking of heavy oil. 1-13

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