

Azfar Hassan

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,665
citations

361296

20
h-index

315616

38
g-index

40
all docs

40
docs citations

40
times ranked

1091
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal Oxide Nanoparticles for Asphaltene Adsorption and Oxidation. <i>Energy & Fuels</i> , 2011, 25, 1017-1023.	2.5	255
2	Application of Nanotechnology for Heavy Oil Upgrading: Catalytic Steam Gasification/Cracking of Asphaltenes. <i>Energy & Fuels</i> , 2011, 25, 1566-1570.	2.5	180
3	Iron oxide nanoparticles for rapid adsorption and enhanced catalytic oxidation of thermally cracked asphaltenes. <i>Fuel</i> , 2012, 95, 257-262.	3.4	139
4	Effect of surface acidity and basicity of aluminas on asphaltene adsorption and oxidation. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 233-238.	5.0	126
5	Effect of the Particle Size on Asphaltene Adsorption and Catalytic Oxidation onto Alumina Particles. <i>Energy & Fuels</i> , 2011, 25, 3961-3965.	2.5	94
6	Comparing kinetics and mechanism of adsorption and thermo-oxidative decomposition of Athabasca asphaltenes onto TiO ₂ , ZrO ₂ , and CeO ₂ nanoparticles. <i>Applied Catalysis A: General</i> , 2014, 484, 161-171.	2.2	84
7	Kinetics of the catalytic thermo-oxidation of asphaltenes at isothermal conditions on different metal oxide nanoparticle surfaces. <i>Catalysis Today</i> , 2013, 207, 127-132.	2.2	69
8	Thermogravimetric studies on catalytic effect of metal oxide nanoparticles on asphaltene pyrolysis under inert conditions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 1327-1332.	2.0	67
9	Effect of oxide support on Ni-Pd bimetallic nanocatalysts for steam gasification of n-C 7 asphaltenes. <i>Fuel</i> , 2015, 156, 110-120.	3.4	57
10	Maghemite nanosorbents for methylene blue adsorption and subsequent catalytic thermo-oxidative decomposition: Computational modeling and thermodynamics studies. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 396-408.	5.0	52
11	Silica-alumina composite as an effective adsorbent for the removal of metformin from water. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102994.	3.3	51
12	A comparison between β - and USY-zeolite-based hydrocracking catalysts. <i>Applied Catalysis A: General</i> , 2001, 220, 59-68.	2.2	40
13	Development of a support for a NiO catalyst for selective adsorption and post-adsorption catalytic steam gasification of thermally converted asphaltenes. <i>Catalysis Today</i> , 2013, 207, 112-118.	2.2	33
14	Highly active, selective and stable Mo/Ru-HZSM-5 catalysts for oxygen-free methane aromatization. <i>Applied Catalysis A: General</i> , 2006, 297, 159-164.	2.2	32
15	Development of an alternative setup for the estimation of microcarbon residue for heavy oil and fractions: Effects derived from air presence. <i>Fuel</i> , 2008, 87, 3631-3639.	3.4	30
16	Comparative study on thermal cracking of Athabasca bitumen. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 114, 465-472.	2.0	27
17	Effects of the size of NiO nanoparticles on the catalytic oxidation of Quinolin-65 as an asphaltene model compound. <i>Fuel</i> , 2017, 207, 423-437.	3.4	27
18	Nanosize effects of NiO nanosorbents on adsorption and catalytic thermo-oxidative decomposition of vacuum residue asphaltenes. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1864-1874.	0.9	25

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19	Adsorption of Athabasca Vacuum Residues and Their Visbroken Products over Macroporous Solids: Influence of Their Molecular Characteristics. <i>Energy & Fuels</i> , 2011, 25, 4049-4054.	2.5	24
20	Thermochemical CO ₂ splitting using double perovskite-type Ba ₂ Ca _{0.66} Nb _{1.34} xFe _x O ₆ . <i>Journal of Materials Chemistry A</i> , 2017, 5, 6874-6883.	5.2	23
21	Synergetic effects of cerium and nickel in Ce-Ni-MFI catalysts on low-temperature water-gas shift reaction. <i>Fuel</i> , 2019, 237, 361-372.	3.4	21
22	Theoretical and thermogravimetric study on the thermo-oxidative decomposition of Quinolin-65 as an asphaltene model molecule. <i>RSC Advances</i> , 2016, 6, 54418-54430.	1.7	20
23	A review on the application of differential scanning calorimetry (DSC) to petroleum products. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 3485-3510.	2.0	20
24	Experimental and theoretical studies on the thermal decomposition of metformin. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 433-441.	2.0	19
25	Profound Understanding of Effect of Transition Metal Dopant, Sintering Temperature, and O_2 on the Electrical and Optical Properties of Proton Conducting BaCe _{0.9} Sm _{0.1} O ₃ . <i>Inorganic Chemistry</i> , 2016, 55, 729-744.	1.9	16
26	Metformin Removal from Water Using Fixed-bed Column of Silica-Alumina Composite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 597, 124814.	2.3	16
27	Regiochemistry and mechanism of oxidation of N-benzyl-N-alkylhydroxylamines to nitrones. <i>Journal of Physical Organic Chemistry</i> , 2000, 13, 443-451.	0.9	14
28	Detecting CO ₂ at ppm level in synthetic air using mixed conducting double perovskite-type metal oxides. <i>Sensors and Actuators B: Chemical</i> , 2013, 178, 598-605.	4.0	14
29	New Insights into the Kinetics of Structural Transformation and Hydrogenation Activity of Nano-crystalline Molybdenum Carbide. <i>Catalysis Letters</i> , 2018, 148, 904-923.	1.4	13
30	Catalytic steam gasification of n-C5 asphaltenes by kaolin-based catalysts in a fixed-bed reactor. <i>Applied Catalysis A: General</i> , 2015, 507, 149-161.	2.2	12
31	Enhancement of petroleum coke thermal reactivity using Oxy-cracking technique. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 2794-2803.	0.9	11
32	Development and characterization of novel combinations of Ce-Ni-MFI solids for water gas shift reaction. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 140-151.	0.9	11
33	Mechanism of Hierarchical Porosity Development in Hexagonal Boron Nitride Nanocrystalline Microstructures for Biomedical and Industrial Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 4491-4501.	2.4	9
34	Enhanced Settling and Dewatering of Oil Sands Mature Fine Tailings with Titanomagnetite Nanoparticles Grafted with Polyacrylamide and Lauryl Sulfate. <i>ACS Applied Nano Materials</i> , 2022, 5, 7679-7695.	2.4	9
35	Effect of O ₂ on Microcarbon Residue Standards Analysis. <i>Energy & Fuels</i> , 2008, 22, 4062-4069.	2.5	8
36	Kinetic study of the thermo-oxidative decomposition of metformin by isoconversional and theoretical methods. <i>Thermochimica Acta</i> , 2020, 694, 178797.	1.2	8

#	ARTICLE	IF	CITATIONS
37	Oxidation of Oils and Bitumen at Various O ₂ Concentrations. Energy & Fuels, 2010, 24, 5378-5386.	2.5	5
38	Catalytic Steam Gasification of Athabasca Visbroken Residue by NiO-Kaolin-Based Catalysts in a Fixed-Bed Reactor. Energy & Fuels, 2017, 31, 7396-7404.	2.5	4
39	O-exchange evidenced in Ce-Ni-MFI catalysts during water gas shift reaction: Use of isotopic water (50% H ₂ ¹⁸ O - 50% H ₂ ¹⁶ O). Applied Catalysis B: Environmental, 2020, 263, 118365.	10.8	0