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Selected Publications (2008-2011)

Nashaat N. Nassar∗, Azfar Hassan, Pedro Pereira-Almao, 2011, "Comparative oxidation of adsorbed asphaltenes onto transition metal oxide nanoparticles". Colloids and Surfaces A: Physicochem. Eng. Aspects 384: 145– 149.

Nassar N.N., Hassan A., Carbognani L., Lopez-Linares F., Pereira-Almao P., 2011, Iron oxide nanoparticles for rapid adsorption and enhanced catalytic oxidation of thermally cracked asphaltenes. In press in Fuel.

Nassar N.N., Hassan A., Pereira-Almao P., 2011, Effect of surface acidity and basicity of aluminas on asphaltene adsorption and oxidation. Journal of Colloid and Interface Science, 360: 233–238.

Vitale G., Frauwallner M.L., Hernandezb E., Scottb C.E., Pereira-Almao P., 2011. Low temperature synthesis of cubic molybdenum carbide catalysts via pressure induced crystallographic orientation of MoO3 precursor, Applied Catalysis A: General 400: 221–229.

Frauwallner M.L., López-Linares F., Lara-Romero J., Scott C.E., Ali V., Hernández E., Pereira-Almao P., 2011. Toluene hydrogenation at low temperature using a molybdenum carbide catalyst. Applied Catalysis A: General 394: 62–70.

Nassar N.N., Hassan A., Pereira-Almao P., 2011. Metal Oxide Nanoparticles for Asphaltene Adsorption and Oxidation. Energy Fuels, 25: 1017–1023.

Nassar N.N., Hassan A., Pereira-Almao P., 2011. Application of Nanotechnology for Heavy Oil Upgrading: Catalytic Steam Gasification/Cracking of Asphaltenes. Energy Fuels 25: 1566–1570.

Carbognani L., Carbognani-Arambarri L., Lopez-Linares F., Pereira-Almao P., 2011. Suitable Density Determination for Heavy Hydrocarbons by Solution Pycnometry: Virgin and Thermal Cracked Athabasca Vacuum Residue Fractions. Energy Fuels 2011, 25, 3663–3670.

Fathi M.M., Pereira-Almao P, 2011. Catalytic Aqua processing of Arab Light Vacuum Residue via Short Space Times, *Energy Fuels*, "Just Accepted Manuscript", DOI: 10.1021/ef200936k.

Lopez-Linares F., Carbognani L., Spencer R.J., Pereira-Almao P., 2011. Adsorption Studies in Athabasca Core Sample: Virgin and Mild Thermal Cracked Residua. Energy Fuels 25: 3657–3662.

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Selected Publications (2008-2011)

Nassar N.N., Hassan A., Pereira-Almao P., 2011. Effect of the Particle Size on Asphaltene Adsorption and Catalytic Oxidation onto Alumina Particles,. Energy Fuels 25: 3961–3965

Lopez-Linares F., Carbognani L., Hassan A., Pereira-Almao P., Rogel E., Ovalles C., Pradhan A., Zintsmaster J., 2011. Adsorption of Athabasca Vacuum Residues and Their Visbroken Products over Macroporous Solids: Influence of Their Molecular Characteristics. Energy Fuels 25: 4049–4054.

Zamani A., Maini B., Pereira-Almao P., 2011. Flow of Nanodispersed Catalyst Particles Through Porous Media: Effect of Permeability and Temperature. THE CANADIAN JOURNAL OF CHEMICAL ENGINEERING 9999: 1-11.

Pereira-Almao P., Alberto V., Marcano A., Lopez-Linares F. and Vasquez A., 2011. Ultradispersed catalyst compositions and methods of preparation. US patent 2011/0105307 A1.

Last Updated. December, 2011.