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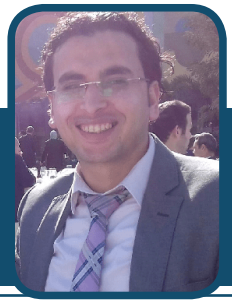

Moneer Moneer Basuni

Faculty of Science, Menoufia University, Egypt

Biomass Refinery - A modern way to produce green nano-value added products for oil and gas industry

Nowadays, Petroleum drilling is the primordial step in the success of oilfield exploration and drilling fluids, which represent (15 to 18%) of the total cost of well petroleum drilling. Drilling mud classified in three families, The Water Base Mud (WBM), The Oil Base Mud (OBM) and Comprises Gas Aerated Mud. Principal components of drilling fluids are water, oil/gas and chemical additives. The drilling fluid composed of aqueous solutions of polymers and clays in water or brines, with different types of additives, these additives are used to lubricate the drill bit and suspend cuttings .The problem with the current drilling mud system is that some of these additives are toxic and causes greet damage for environment, drilling fluid development needs to design new families of environmental of additives. The desire to replace petroleum-based materials with environmentally friendly and sustainable alternatives has stimulated the development of lignin materials as green nano-petroleum additives. Lignins are the second most abundant renewable organic material on Earth, immediately after cellulose, in wood, straw and other plant tissues, represents a vastly underutilized natural polymer, in addition to biomass are representing the largest quantity of crop residue in the world, but have limited industrial applications. They discarded as waste or burned on the spot, which causes a greet damage for soil microorganisms, human health and environment. This workshop is conduct on drilling fluid additives based on lignin as renewable resources which have been proposed for use as multifunctional additives for hydrocarbon drilling industries. Due to their desirable, low cost, non-toxic and easily biodegradable to produce a number of value-added products such as, corrosion inhibitor, scale inhibitors combination between corrosion and scale inhibitors, emulsifiers, rheology modifier, biocide, temrature resistance, filtration control and ph. controlling agent.

Biography

Moneer Moneer is currently a Doctor specializing in Nano technology and Nanomaterial's. Moneer earned his Bachelor of Science degree, with honors, in chemistry (top scholar) and his Master of Science degree in polymer chemistry from Menoufia University in Egypt. He earned his Doctor of Philosophy degree in Nano-Conversion Technologies of Biobased Resources from Menoufia University in 2018.Moneer is the head of the petroleum R&D group at EBC R&D centers, at the same time, he is working in the field of Nanotechnology at Zewail City. He is currently an elected member of (CNPPRI) as Talent Young Scientist, the Ministry of Science and Technology china.

mon_sci_2007@yahoo.com

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