

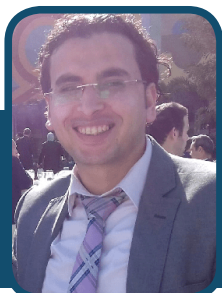
ANNUAL PHARMA PRICING & MARKETING CONGRESS

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New green nanomaterials for applications in energy sector

During the exploration and production of oil and gas, vast quantities of chemicals about two-hundred thousand tons are consumed. Moreover, it is interesting to note that of these two thousand tons, over one hundred thousand tons are lost into the environment each year causing great damage. As a consequence, there are strong regulatory pressures on the oil and gas companies to move towards the use of Eco-friendly “green” chemicals. The desire to replace petroleum-based materials with environmentally friendly and sustainable alternatives has stimulated the development of vegetable oil-based materials as petroleum additives. The advantages of petroleum additives from renewable sources have long been recognize. In general, petroleum additives based on renewable sources have very low or almost negligible aquatic toxicity and are, in most

cases, readily biodegradable. The triglyceride oil can be further broken down to yield free fatty acid. The fatty acid can be modified by chemical reaction to give a range of other functional groups, amides, amines, esters. these chemically modified fatty acid are useful especially for petroleum-related applications, used as demulsifier ,corrosion inhibitor and bactericides , works with organophilic clay to produce an amine-treated clay (mud) used for filtration control in oil drilling base mud and synthetic base. This workshop aims to produce a new methods to prepare a new Nano-formulations from renewable resources have multifunctional properties to replace the existed commercial formulation for gas and oil-field industries. The new Nano-synthesized multifunctional are of superior results compared with the reference samples

Biography

Moneer Moneer is currently a Doctor specializing in Nano technology and Nanomaterials. 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 (CNPRI) as Talent Young Scientist, the Ministry of Science and Technology china.

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