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Radiation assisted polymerization methodology: Its significance and applications

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Radiation induced polymerization methodology has got much importance nowadays due to the advantages associated with it as it proceeds without addition of any additive or catalyst for initiating a polymerization reaction. Among the various processes involved, the radiation induced graft polymerization is of prime interest which makes use of ionizing radiation (γ -radiation) thus giving rise to polymerize products including variety of commercial products such as radiation cross-linked Teflon and polyswitches etc. Based on the significance of radiation technology in polymer industry, our lab is working on the utilization of Co-60 i.e., the γ -radiation source for grafting different polymeric base materials such as graphene, sepiolite and silica etc., that are later on functionalized to produce modified nanostructures for various environmental applications.

Biography

Asma Khurshid has completed her PhD Chemistry in 2017 from Quaid-i-Azam University, Pakistan. Part of her PhD research has been carried out at Oxford University; United Kingdom. Up till now she has 7 publications on her part in Journals of International repute. She has been selected as Young Scientist among global competition for participation in 67th Chemistry Lindau Nobel Laureates Meeting in Chemistry, Germany 2017. Presently, she is serving as Assistant Professor in Department of Chemistry (working in Advanced Polymer Chemistry Laboratory), Pakistan Institute of Engineering & Applied Sciences, Pakistan.

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