

CO_2 ADSORPTION CHARACTERISTICS OF N-AC-NANOALUMINA COMPOSITE DERIVED FROM SEA ALMOND SHELL

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Carbon dioxide adsorption has become an essential need in day today life. The abnormal rise in the amount of CO_2 in the atmosphere has become threat to the environment causing Global warming and Climate Change. To reduce the contribution of fossil fuel combustion to atmospheric CO_2 levels, carbon capture and mitigation technologies have been introduced. Adsorption mechanism using solid adsorbents with porous carbonaceous materials are developed for post-combustion CO_2 capture. Though N-doped Activated Carbon derived from Sea almond shells functionalized with Alumina with high thermal stability and large surface area is synthesized and characterized its surface morphology using SEM, FTIR, BET, TGA and adsorption studies done using setup fabricated and isotherms.

Biography

Mohammed Mudassir currently pusuing my Mtech in Nanotechnology PhD at School of Materials Science and Engineering from National Institute of Technology Calicut . My current research on CO_2 adsorption material studies is undergoing in the Nanotechnology Research Laboratory under Guidence of Dr.Shijo Thomas Assistant Professor at NITC.

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