

Supervisor's opinion on PhD thesis of Muhammad Salman Naeem

Topic: Development and Application of Activated Carbon Web Prepared from Acrylic Fibrous Waste

I am writing this recommendation letter for Muhammad Salman Naeem regarding his final defense. Mr. Muhammad Salman Naeem has been studying and doing research work under my supervision for the last three and half years. He is intelligent, positive minded, agile and good in research work.

The main objective of this research work was to use acrylic fibrous waste for the formation of activated carbon and to find suitable applications. The optimization of parameters for getting higher values of surface area and electrical conductivity have been successfully performed. XRD, SEM, EDX and BET analysis were performed to analyze change in structure and surface at different temperatures. Later the developed activated carbon web was successfully employed for electrical conductivity, EMI shielding application and adsorption performance was evaluated with and without metal impregnation.

The thesis is well written, concise and compact. His publications are quite worthy and good addition in the field of activated carbon. He has published 4 (Four) papers in impact factor journals (another 2 papers are under review), 1 (One) in Scopus indexed journal, 3 (Three) book chapters and 6 (six) presentations in international conferences.

By concluding I can say that it is a novel method for converting acrylic fibrous waste into activated carbon. I strongly recommend him for the defense as he has completed all the necessary requirements and good work he has done.

27.03.017


prof. Ing. Jiří Militký, CSc. EURING
Supervisor