

Modified Gasoline Fuel Using Bio Waste of Coconut and Calotropis Procera as Natural Plant

Ahmed Al-Mifragi*, Bakhit Salim Jadad, Abdulsalam Mohammed Ali AL Maashani, Abdul Aziz Al-Badi, Hassan Salim BA Alwi and Said Ahmed Jaboob
Chemical Engineering Department, College of Engineering, Dhofar University, Oman

The aim of this workplace, try to improve quality grid of Oman's gasoline fuel using the shield of coconut as bio waste adsorbent. Three treatments have been used for bio waste physical, mechanical and chemical treatments using solvents to increase the ability of the adsorbent to reduce sulfur, water and carbon di oxide contents in gasoline fuel about 32.7 %, 100 % and 11.84 % respectively. Chemical compound extracts from the natural plant Calotropisprocera has been used to increase the octane number of gasoline from 95 to 98 due to its chemical properties.

Keyword: Gasoline; Modified activated carbon; Coconut; Caltropic procera

Biography:

I hold a Ph.D. in Chemical Engineering from University of Malaya – Malaysia. I am presently working in the chemical engineering department at the University of Dhofar. I have both teaching and research experience over 10 years at Iraqi, Malaysian and Oman universities. I have more than 160 articles with 9 books under different fields of chemical engineering. I also have practical experience in modeling, Bioengineering, chemical reaction, separation process and applied computer skills, food science, renewable energy and process computations.