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T Theivasanthi
Kalasalingam University, India

This work reports aspect related to the semiconducting nature of nano-sized particles of lead. This attempt finds its semiconducting behaviours elaborately and such advanced insight has so far not been said in literature. New findings of Pb nanopowder (metal) by optical, fluorescence, cyclic voltammetry and four probe studies are presented in this study. UV-Vis analysis confirms the nano nature of the

sample i.e. 5 nm and SPR peak confirms its metallic nature. The successful calculations of the band gap, temperature-dependent resistance value confirm its semiconducting nature and explore its potential application in various industries. This work throws some light on and helps further research.

ttheivasanthi@gmail.com