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The effect of cathode workfunction on plasma parameters produced by radio frequency magnetron plasma sputtering

Ali A-K.hussain, Kadhim A. Aadim* and Harith M. Dawood

Department of Physics, College of Science, University of Baghdad, Baghdad, Iraq

Abstract:In this work, the spectra for glow discharge produced by RF magnetron plasma were studied, with argon gas using planar electrode with different target material (Cd, Ag, Pb, Zn, Sn and Cu) at certain working pressure and applied voltage with two space between electrodes 2cm and 4cm to study the effect of metal work function and the inter-electrode distance on plasma parameters by comparing the produced lines with neutral and ionic standard lines for used target materials and argon.

Keywords: RF magnetron; spectroscopy; work function, secondary electron emission coefficient.

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