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Current-Voltage Characteristics and Photoresponse of Metal Metal Devices

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Abstract: Thin films (35 \AA) of Al_2O_3 on glass slides have been used for the fabrication of Al/Al_2O_3/Al, Ag/Al_2O_3/Al and Cu/Al_2O_3/Al devices. The room temperature current-voltage characteristics and the dependence of current densities of these devices at various wavelength (◖) of light were measured. The results obtained on current density and photocurrent show that Al_2O_3 films have the potential for wider applications like antireflective coatings or treatments in photovoltaic devices, transparent insulation materials, and optical trapping surfaces in many electronic devices.

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