

PO2076

**Progress in Research of CCAg Thin Films**

Xuelel Li, Yudong Feng, Zhimin Wang, Yi Wang

Lanzhou institute of physics, Lanzhou, China

xueleili35910@sina.com

The organization structure and properties of silver composite coatings were reviewed in this paper. Various preparation methods of aluminium oxide thin films were systematically described, including but not limited to vacuum vapor deposition, DC reactive magnetron sputtering, radio frequency magnetron sputtering, and radio-, medium- and pulse-reaction magnetron sputtering, ion beam assisted deposition, pulsed laser deposition, plasma enhanced chemical vapor deposition, metal-organic chemical vapor deposition and sol-gel method, respectively. The advantages and disadvantages of these preparation methods were compared too. The new preparation technology of aluminium oxide thin films on flexible polyimide substrate was put forward. The current research and prospect of CCAg thin films were elaborated.

**Keywords**CCA<sub>g</sub>

properties

preparation

thermal control film

low temperature deposition