

Abnormal glow discharge in crossed electric and magnetic fields in the presence of reactive gas

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Abstract

The results of investigations of the low-temperature plasma at process of reactive magnetron sputtering of Ti target in the presence of reactive gas are described. Discharge volt-ampere characteristics for different schemas of reactive gas input are build. Optimal regimes of making strengthening coatings are defined. TiO_x ($0 < x < 2$) strengthening coatings at plastics are made. Coatings showed high consumer qualities. © Published under licence by IOP Publishing Ltd.

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