

Journal of Physics: Conference Series 2014 vol.567 N1

The model of the positive column of a glow discharge with the influence of the acoustic oscillations

Kashapov N., Saifutdinov A., Fadeev S.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© Published under licence by IOP Publishing Ltd. In article the model of the positive column of a glow discharge with the influence of acoustic waves is developed. It is shown that the radial convective flow caused by the acoustic streaming leads to a redistribution of the gas temperature, and reduces its gradient between the axis and the wall of the discharge chamber.

<http://dx.doi.org/10.1088/1742-6596/567/1/012004>
