

Abstract Submitted
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Modelling of capacitive coupled RF discharge in wide pressure range¹ VIKTOR ZHELTUKHIN², Retired, VIOLETTA CHEBAKOVA³, Kazan Federal University — A model of capacitive coupled RF discharge in argon at both atmospheric and low pressures between two parallel plates is described. Various approaches to simulate the RF discharge depending on pressure rates are used. A nonlocal approximation is used for simulating the capacitive coupled RF discharge at low pressure. A local approximation considering both dimers and molecular ions is used for simulating the discharge at high pressure. Results are in agreement with experimental data.

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