

Solution of the problem of interaction between capacitive coupled radio-frequency discharge and a sample

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Abstract

© Published under licence by IOP Publishing Ltd. The numerical study of interaction between the capacitive coupled radio frequency (CCRF) discharge and materials is performed. A nonlinear problem, which includes initial boundary value problems for electron, ion, neutral atom, metastable atom, gas temperature and Poisson's equation is solved. A harmonic voltage on the loaded electrodes and Ohm's law for the sample is assumed. A results of calculations of the model problem at pressure $p=760$ Torr, frequency of generator $f=13.76$ MHz in local approximation are presented.

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