

STUDY OF MULTICOMPONENT PLASMA  
PARAMETERS IN THE PULSED  
REFLEX DISCHARGE

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S u m m a r y

Parameters of a dense ( $10^{13} - 10^{14} \text{ cm}^{-3}$ ) multicomponent gas-metal plasma in the pulsed reflex discharge with a moderate power ( $W \leq 10 \text{ MW}$ ) have been studied. The dynamics of the plasma density in time, the mass-element composition of the plasma generated, the radial distribution of the electron density in plasma, the rotation velocity and the rotation frequency of a plasma layer with  $n_p \geq n_{\text{crit}}$ , the radial electric field strength, and the recombination factor at the stage of plasma density decay in the discharge have been determined. The plasma particle separation factor has been evaluated.