

Study of the combined laser-plasma effect on metals

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Abstract

© Published under licence by IOP Publishing Ltd. Interaction processes of laser radiation with the metal surface layer during laser effect, and the main factors influencing the absorption capacity of the metal with a surface processing by a laser beam are considered. The method is proposed for increasing the absorption capacity of laser radiation by plasmatron pre-heating of the material. The results of the combined laser-plasma effect are presented.

<http://dx.doi.org/10.1088/1757-899X/240/1/012015>

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