

The metal surface cleaning using a vapor-gas discharge

Gabdrakhmanov A., Israphilov I., Shafigullin L.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2018 Institute of Physics Publishing. All rights reserved. In this paper, the study results of the surface of samples after their purification using a vapor-gas discharge are presented.

<http://dx.doi.org/10.1088/1742-6596/1058/1/012009>

References

- [1] Gabdrakhmanov A. T., Israphilov I. H. and Galiakbarov A. T. 2017 Preparation of metal surfaces for application of functional coatings IOP Conf. Series: Journal of Physics: Conf. Series 789 012009 Article number
- [2] Gabdrakhmanov Az.T., Gabdrakhmanov Al.T. and Galiakbarov A.T. 2016 Online electronic scientific and technical journal "Socio-economic and technical systems: research, design, optimization" 3 (Chelny: K (P) FU) Investigation of the characteristics of a gas-vapor discharge with an aluminum anode and a liquid cathode Nab
- [3] Shakirov Yu. I, Valiev R.I., Khafizov A.A., Valiev R.A. and Khakimov R.G. 2016 Erosion of electrode metal in the electric discharge under the exposure of the electrolyte stream J. of Phys.: Conf. Ser. 669 012064
- [4] Khafizov A.A., Shakirov Y.I., Valiev R.A., Valiev R.I. and Khafizova G.M. 2016 Study of thermal and electrical parameters of workpieces during spray coating by electrolytic plasma jet J. of Phys.: Conf. Ser. 669 012030
- [5] Khafizov A.A., Valiev R.I., Shakirov Yu.I and Valiev R.A. 2014 Steel surface modification with plasma spraying electrothermal installation using a liquid electrode J. of Phys.: Conf. Ser. 567 012026
- [6] Denisov D.G., Kashapov N.F. and Kashapov R.N. 2015 The appearance of shock waves in the plasma electrolytic processing IOP conference series: materials science and engineering 012005
- [7] Gabdrakhmanov Az.T 2011 Online electronic scientific and technical journal "Socio-economic and technical systems" 2 (Chelny: INEKA) Features of the current-voltage characteristics of pulsed plasma generator Nab
- [8] Israfilov I.H., Saubanov R.R. and Rakhimov R.R. 2011 Prospective application of highly concentrated energy for the surface heat treatment products Socio-economic and technical systems: research, design, optimization 1 25-30
- [9] Zvezdin V.V., Galiakbarov A.T., Nugumanova A.I., Gabdrakhmanov Az.T and Saubanov R.R. 2010 The investigation of the influence the parameters the pulsed plasma generator on quality process Bulletin KSTU. AN Tupolev s.50-52
- [10] Denisov D.G., Kashapov N.F. and Kashapov R.N. The appearance of shock waves in the plasma electrolytic processing IOP conference series: materials science and engineering - 2015 012005