

Obtaining spherical metal particles in a liquid anode setup

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This paper presents the results of experimental studies on a facility with a liquid anode for plasma sputtering of various metals. The process of plasma sputtering of a metal cathode, which is a metal wire or shavings from various metals (stainless steel, iron, galvanized iron, titanium, tungsten, nickel-chromium alloy, copper, tin, aluminum, zirconium), has been studied. For some materials, a powder of an ideal spherical shape has been obtained, which may be of interest for various technologies, including additive ones.

Keywords: liquid anode, liquid discharge, spherical metal particles.

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