Special Issue

Plasma Nitriding of Steels, Titanium and Aluminum Alloys for Manufacturing

Message from the Guest Editor

Plasma nitriding has been widely utilized to harden dies and molds, as well as mechanical and structural parts, instead of using case hardening and gas-/liquid-phase nitriding processes. Various nitriding systems have been developed in recent years, e.g., DC-plasma, DC-pulsed plasma, RF-plasma, beam-assisted plasma, RF/DC plasmas and plasma-enhanced CVD (Chemical Vapor Deposition) systems. In parallel with these instrumental developments, plasma chemistry related to plasma nitriding was also investigated via plasma diagnosis. Various methods and devices have been proposed to improve nitrogen ion and electron density.

Guest Editor

Prof. Dr. Tatsuhiko Aizawa
Surface Engineering Design Laboratory, Shibaura Institute of Technology, Tokyo 144-0045, Japan

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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