



coatings



Special Issue Reprint

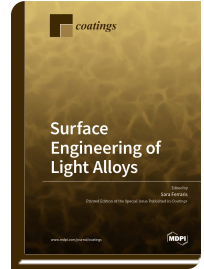
Surface Engineering of Light Alloys

www.mdpi.com/books/reprint/3588

Edited by
Sara Ferraris

ISBN 978-3-0365-0120-8 (Hardback)

ISBN 978-3-0365-0121-5 (PDF)



Light alloys (aluminum, magnesium, and titanium alloys) are gaining increasing interest in the scientific and technological community in many different application fields, from automotive to medicine, thanks to their light weight coupled with interesting mechanical properties. The functional performances of light alloys can be significantly affected by their surface properties; in fact, the surface can be considered as the “visiting card” of the material for its working environment (e.g., it can drive the biological response upon implantation for titanium alloys intended for biomedical implants or it can affect the joining ability of aluminum and magnesium alloys) as well as for its further material working steps (e.g., coatings). Surface engineering is a versatile tool for the modification of material surfaces in order to tailor and improve their functional properties. The aim of the present Special Issue is to present the latest development in this field through research and review papers. In particular, the topics of interest include, but are not limited to, surface engineering of light alloys for biomedical applications, surface engineering of light alloys for joining and coatings applications, surface engineering of light alloys for corrosion protection, and surface engineering of light alloys for antibacterial/antifouling purposes.



Order Your Print Copy
You can order print copies at
www.mdpi.com/books/reprint/3588

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.