



materials



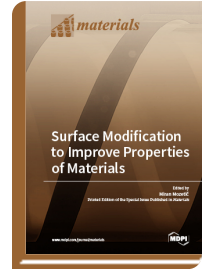
Special Issue Reprint

Surface Modification to Improve Properties of Materials

www.mdpi.com/books/reprint/1239

Edited by
Miran Mozetič

ISBN 978-3-03897-796-4 (Softback)
ISBN 978-3-03897-797-1 (PDF)



This book contains selected contributions on surface modification to improve the properties of solid materials. The surface properties are tailored either by functionalization, etching, or deposition of a thin coating. Functionalization is achieved by a brief treatment with non-equilibrium gaseous plasma containing suitable radicals that interact chemically with the material surface and thus enable the formation of rather stable functional groups. Etching is performed in order to modify the surface morphology. The etching parameters are selected in such a way that a rich morphology of the surfaces is achieved spontaneously on the sub-micrometer scale, without using masks. The combination of adequate surface morphology and functionalization of materials leads to superior surface properties which are particularly beneficial for the desired response upon incubation with biological matter. Alternatively, the materials are coated with a suitable thin film that is useful in various applications from food to aerospace industries.



Order Your Print Copy
You can order print copies at
www.mdpi.com/books/reprint/1239

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.