



*materials*



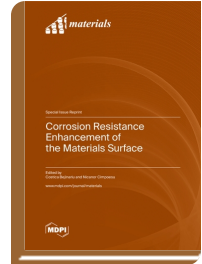
*Special Issue Reprint*

## **Corrosion Resistance Enhancement of the Materials Surface**

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ISBN 978-3-0365-8029-6 (Hardback)  
ISBN 978-3-0365-8028-9 (PDF)



This reprint contains different corrosion resistance topics like: corrosion behavior of coated low-carbon steel in a simulated PEMFC environment; some brassicaceae extracts as potential antioxidants and green corrosion inhibitors; electrochemical impedance analysis for corrosion rate monitoring of Sol-Gel protective coatings in contact with nitrate molten salts for CSP applications; comparing the corrosion resistance of 5083 Al and Al<sub>2</sub>O<sub>3</sub>3D/5083 Al composite in a chloride environment; microstructural, corrosion resistance, and tribological properties of Al<sub>2</sub>O<sub>3</sub> coatings prepared by atmospheric plasma spraying; the influence of friction stir surface processing on the corrosion resistance of Al 6061; the preparation of one-dimensional polyaniline nanotubes as anticorrosion coatings; in vitro analysis of FeMn-Si smart biodegradable alloy; corrosion resistance of electrochemically synthesized modified zaccagnaite LDH-type films on steel substrates; new Zn3Mg-xY alloys; characteristics, microstructural evolution, and corrosion and immersion behaviors of carbon steel; phosphate carbon steel and phosphate and painted carbon steel in saltwater.



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