DESCRIPTION

Occurrence of corrosion and its practical control is an area of study covering a wide range of scientific knowledge. *Corrosion Science* provides a medium for the communication of ideas, developments and research in all aspects of this field and includes both metallic and non-metallic corrosion. The scope of this international journal is very extensive. Published papers range from the highly theoretical to the essentially practical and cover such areas as high temperature oxidation, passivity, anodic oxidation, biochemical corrosion, stress corrosion cracking, and mechanisms and methods of corrosion control. This journal publishes original papers and critical reviews in the fields of pure and applied corrosion, the degradation of materials, and both surface science and engineering. It forms an important link between metallurgists, materials scientists and all investigators of corrosion and degradation phenomena.

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AUDIENCE

Corrosion engineers, materials scientists, electrochemists.

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B. TECHNIQUES
C. PROPERTIES AND PHENOMENA

matA. TYPES OF MATERIAL

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alloy
aluminium
brass
carbon steel
ceramic
ceramic matrix composites
cobalt
cement
concrete
copper
electronic materials
glass
intermetallics
iron
low alloy steel
magnesium
metal coatings
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silver
sputtered films
stainless steel
steel
steel reinforced concrete
stonework
sulphuric acid
superalloys
tantalum oxide
tin
titanium
zinc
zirconium

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AFM
AFS (EXAFS & XANES)
cyclic voltammetry
EIS
electrochemical calculation
ellipsometry
EPMA
erosion
galvanostatic
hydrogen permeation
ICP-OES
in-line diffuse reflection spectroscopy
ion implantation
IR spectroscopy
modelling studies
Mössbauer spectroscopy
polarization
potentiostatic
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acid inhibition
alkaline corrosion
amorphous structures
anodic dissolution
anodic films
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