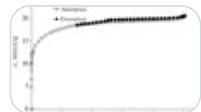




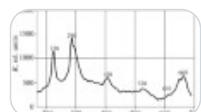
19 articles in this issue

**Direct Sorption Capture of CO<sub>2</sub> from Air**



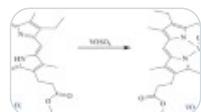
PHYSICOCHEMICAL PROCESSES AT THE INTERFACES | 06 February 2026 | Pages: 1239 - 1246

**On the Formation of Hollow Metal-Oxide Particles in the Oxidation of Compacted Iron Powder**



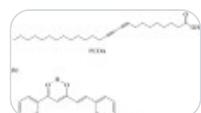
PHYSICOCHEMICAL PROCESSES AT THE INTERFACES | 06 February 2026 | Pages: 1247 - 1255

**Synthesis, Structure, and Comparative Analysis of Photo- and Electroluminescence Spectra of Vanadyl Mesoporphyrinate in PVK:PBD Composite**



NANOSCALE AND NANOSTRUCTURED MATERIALS AND COATINGS | 06 February 2026 | Pages: 1256 - 1262

**The Synergistic Effect of Introducing Hemicurcuminoid into a Planar Polydiacetylene Platform for Optical Detection of Lead Ions**



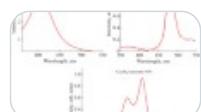
NANOSCALE AND NANOSTRUCTURED MATERIALS AND COATINGS | 06 February 2026 | Pages: 1263 - 1277

**Enhancement of Electron Mobility and Optoelectrical Performance Behaviour of Polycarbazoles Featured with Zinc Oxide Nanoparticles**



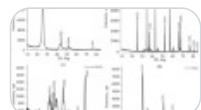
NANOSCALE AND NANOSTRUCTURED MATERIALS AND COATINGS | 06 February 2026 | Pages: 1278 - 1288

**Enhanced Antibacterial Activity of Co<sub>3</sub>O<sub>4</sub> Nanoparticles Functionalized with Curcuma: A Synergistic Approach**



NANOSCALE AND NANOSTRUCTURED MATERIALS AND COATINGS | 06 February 2026 | Pages: 1289 - 1296

**Friction and Wear Behavior of Al<sub>2</sub>O<sub>3</sub>–YSZ–CNT Based Nanocomposites Prepared by Spark Plasma Sintering**



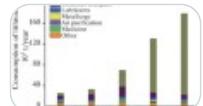
NANOSCALE AND NANOSTRUCTURED MATERIALS AND COATINGS | 06 February 2026 | Pages: 1297 - 1305

## **Tribological and Anticorrosive Performances of EP/PAI/PI-PTFE Coatings Filled with ZnO and Ce<sub>2</sub>O<sub>3</sub>**



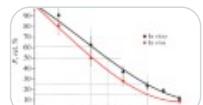
NANOSCALE AND NANOSTRUCTURED MATERIALS AND COATINGS | 06 February 2026 | Pages: 1306 - 1320

## **Modern Approaches to the Processing of Used Lithium-Ion Batteries**



NEW SUBSTANCES, MATERIALS, AND COATINGS | 06 February 2026 | Pages: 1321 - 1328

## **Bioresorbable Threads In Vitro and In Vivo: Common and Distinctive Features**



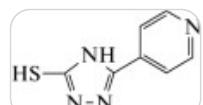
NEW SUBSTANCES, MATERIALS, AND COATINGS | 06 February 2026 | Pages: 1329 - 1339

## **The Study of Practical Adhesion of a Layer/Substrate System on an AISI 8620 Steel Exposed to Boriding and Borocarburizing**



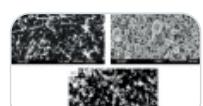
NEW SUBSTANCES, MATERIALS AND COATINGS | 06 February 2026 | Pages: 1340 - 1345

## **Corrosion Protection of Mild Steel in 1 M HCl Solution Using the Triazole Derivative**



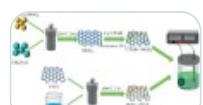
PHYSICOCHEMICAL PROBLEMS OF MATERIALS PROTECTION | 06 February 2026 | Pages: 1346 - 1361

## **Enhancement of Mechanical Properties and Corrosion Resistance in SiC<sub>w</sub> Reinforced Al-Zn-Mg-Cu Composites via Controlled Aging Treatments**



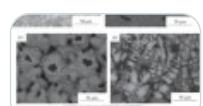
PHYSICOCHEMICAL PROBLEMS OF MATERIALS PROTECTION | 06 February 2026 | Pages: 1362 - 1373

## **Effect of PTFE in the Ni-P-MoS<sub>2</sub> Alloy Based Composite Coating on Corrosion and Wear Resistance**



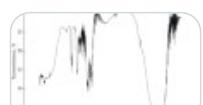
PHYSICOCHEMICAL PROBLEMS OF MATERIALS PROTECTION | 06 February 2026 | Pages: 1374 - 1385

## **Investigation on the Influence of Sn on the Microstructure and Corrosion Behavior of Mg-0.8% Si Alloy**

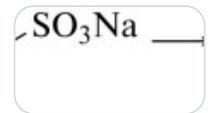


PHYSICOCHEMICAL PROBLEMS OF MATERIALS PROTECTION | 06 February 2026 | Pages: 1386 - 1396

## **Prickly Pear Peel Extract as a Green Corrosion Inhibitor for API 5L X70 Steel in Hydrochloric Acid Environment**

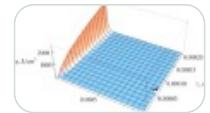


**A Novel Corrosion Inhibition of Dodecylamine Ethyl Sulfonate on Titanium in Hydrochloric Acid Medium**



PHYSICOCHEMICAL PROBLEMS OF MATERIALS PROTECTION | 06 February 2026 | Pages: 1408 - 1420

**Restructuring of the Phase Boundary during the Implementation of High-Energy Chemical and Electrochemical Reactions and the Influence of Restructuring on Characteristics of Coatings**



INVESTIGATION METHODS FOR PHYSICOCHEMICAL SYSTEMS | 06 February 2026 | Pages: 1421 - 1431

**Angular Correlation of the Annihilation Radiation Method in Comparative Analysis of the Atomic–Electron Structure of Various Carbon Materials**



INVESTIGATION METHODS FOR PHYSICOCHEMICAL SYSTEMS | 06 February 2026 | Pages: 1432 - 1439