2003

[1] B. Bozzini, A. Fanigliulo, C. Mele
An Electrochemical and Spectroelectrochemical Study of the Electrodeposition of Gold from KAu(CN)₂ Solutions Containing 4-Cyanopyridine and Cetylpyridinium Chloride


An Electrochemical and In-Situ Sers Study of Au Electrodeposition from a Thiourea Solution
Transactions of the Institute of Metal Finishing, 81(3) (2003) 75-78.

Electrodeposition of Au-Sn Alloys from Acid Au(III) Baths


Electrodeposition of White Gold Alloys: An Electrochemical and Spectroelectrochemical Study of the Electrodeposition of Au-Sn Alloys in the Presence of 4-Cyanopyridine


Voltammetric and in Situ FTIRS Study on CN⁻ and Au(CN)ₓ⁻ Complexes at the Polycrystalline Gold Surface in Citrate Medium Journal of Electroanalytical Chemistry, 569 (2004) 53–60


2005

[16] Bozzini, L. D’Urzo, C. Mele

Corrosion Behaviour of the CoW_{0.00}C_{0.00} Alloy in Acidic Sulphate Aqueous Solutions containing Sodium Lauryl Sulphate and Sodium Citrate

2006

An investigation into the corrosion of Ag coins from the Greek colonies of Southern Italy. Part I - An in situ FT-IR and ERS investigation of the behaviour of Ag in contact with aqueous solutions containing 4-cyanopyridine

Electrodeposition of Cu from Acidic Sulphate Solutions in the Presence of PEG - Part II Visible Electroreflectance Spectroscopy Measurements during Electrodeposition

Electrodeposition of Cu from Acidic Sulphate Solutions in the Presence of Bis-(3-sulfopropyl)-disulfide (SPS) and chloride ions

[22] B. Bozzini, C. Mele, V. Romanello
Time-dependent in situ SERS study of CN¯ adsorbed on gold

Electrodeposition of Cu from Acidic Sulphate Solutions in the Presence of Bis-(3-sulfopropyl)-disulfide (SPS)
Transactions of the Institute of Metal Finishing, 84 N°2 (2006) 83-93

Electrodeposition of Cu from acidic sulphate solutions in the presence of PEG: an electrochemical and spectroelectrochemical investigation - Part I

An Electrochemical and in situ SERS Study of Cu Electrodeposition from Acidic Sulphate Solution in the Presence of 3-Diethylamino-7-(4-dimethylaminoethylphenylazo)-5-phenylphenazinium chloride (Janus Green B)

[26] B. Bozzini, L. D’Urzo, C. Mele, V. Romanello
Electrodeposition of Cu from Acidic Sulphate Solutions in the Presence of Polyethylene glycol and chloride ions.

[27] B. Bozzini, C. Mele, L. D’Urzo, V. Romanello, G. Giovannelli
Study on Levellers for Cu Electrodeposition from Acidic Sulphate Solution: an in situ Spectroelectrochemical Approach

Controlled Corrosion of Micrometric and Submicrometric Metal Powders in a Fluidised Bed Reactor
Transactions of the Institute of Metal Finishing, 84 N°3 (2006) 154-158

2007

[29] B. Bozzini, G. Giovannelli, C. Mele
Electrochemical Dynamics and Structure of the Ag/AgCl Interface in Chloride-containing Aqueous Solutions
Surface & Coatings Technology, 201 (2007) 4619-4627

An SFG and DFG investigation of polycrystalline Au, Au-Cu and Au-Ag-Cu electrodes in contact with aqueous solutions containing KCN

[31] B. Bozzini, V. Romanello, C. Mele, F. Bogani
A SERS investigation of carbon steel in contact with aqueous solutions containing BenzylDiMethylPhenylAmmonium Chloride

[32] B. Bozzini, V. Romanello, C. Mele,
A SERS investigation of the electrodeposition of Au in a phosphate solution
Surface & Coatings Technology, 201 (2007) 6267-6272

An in situ SFG and SERS Investigation into the Electrodeposition of Au from Au(CN)_{2} and Au(CN)_{2} Solutions
[34] B. Bozzini, L. D’Urzo, C. Mele
A novel polymeric leveller for the electrodeposition of copper from acidic sulphate bath: A spectroelectrochemical investigation
Electrochimica Acta 52 (2007) 4767-4777

An SFG and ERS investigation of the corrosion of CoW_{0.013}C_{0.001} alloys and WC-Co cerments in CN-containing aqueous solutions
Corrosion Science 49 (2007) 2392-2405

[36] B. Bozzini, C. Mele, V. Romanello
An in situ FT-IR study evaluation of candidate organic corrosion inhibitors for carbon steel in contact with alkaline aqueous solutions.
Werkstoffe und Korrosion / Materials and Corrosion, 58 (2007) 362-368

[37] B. Bozzini, C. Mele, L. D’Urzo
An Optical Impedance Investigation of a Gold Electrodeposition System

2008

[38] B. Bozzini, B. Busson, G.P. De Gaudenzi, C. Mele, A. Tadjeddine
An SFG and DFG Investigation of Au(111), Au(100), Au(110) And Au(210) Electrodes in Contact with Aqueous Solutions containing KCN

A SERS Investigation of Cyanide Adsorption and Reactivity during the Electrodeposition of Gold, Silver, and Copper from Aqueous Cyanocomplexes Solutions

[40] L. Peraldo Bicelli , B. Bozzini, C. Mele, L. D’Urzo
A Review of Nanostructural Aspects of Metal Electrodeposition

[41] B. Bozzini, B. Busson, C. Mele, A. Tadjeddine
SFG and DFG Investigation Of Au(111), Au(210), Polycrystalline Au, Au-Cu And Au-Ag-Cu Electrodes In Contact With Aqueous Solutions Containing KCN and 4-Cyanopyridine

Doubly Resonant Sum Frequency Generation Spectroscopy of Adsorbates At An Electrochemical Interface

An Electrochemical Impedance Investigation of The Behaviour of Anodically Oxidised Titanium in Human Plasma and Cognate Fluids, Relevant to Dental Applications

[44] B. Bozzini B. L. D’Urzo, C. Mele
Electrochemical Fabrication of Nano- and Micrometric Cu Particles: In Situ Investigation By Electroreflectance and Optical Second Harmonic Generation
Transactions of The Institute of Metal Finishing, 86 N°5 (2008) 267-274

2009

Silver electrodeposition from water-acetonitrile mixed solvents and mixed electrolytes, in the presence of tetrabutylammonium perchlorate. Part I – Electrochemical nucleation on glassy carbon electrode

[46] C. Mele, B. Bozzini
Silver Electrodeposition from water-acetonitrile mixed solvents in the presence of tetrabutylammonium perchlorate. Part II - A SERS study of acetonitrile reactivity and tetrabutylammonium adsorption

Investigation into dynamics of Au electrodeposition based on analysis of SERS spectral time series
Transactions of the Institute of Metal Finishing, 87 (2009) 193-200

2010

An SFG/DFG investigation of CN adsorption at an Au electrode in 1-butyl-1-methyl-pyrrolidinium bis(trifluoromethylsulfonyl) amide ionic liquid
Electrochemistry Communications, 12 (2010) 56-60


2011


2012


In situ electrochemical SFG/DFG study of CN⁻ and nitrile adsorption at Au from 1-butyl-1-methyl-pyrrolidinium bis(trifluoromethylsulfonfonyl) amide ionic liquid ([BMP][TFSA]) containing 4-[2-[1-(2-cyanoethyl)-1,2,3,4-tetrahydroquinolin-6-yl]diazenyl] benzonitrile (CTDB) and K[Au(CN)2]. Molecules 17 (2012) 7722-7736.

In situ photoelectron microspectroscopy during the operation of a single-chamber SOFC
Electrochemistry Communications 24 (2012) 104-107

[65] B. Bozzini, D. Lacitignola, C. Mele, I. Sgura
Coupling of Morphology and Chemistry Leads to Morphogenesis in Electrochemical Metal Growth: a Review of the Reaction-Diffusion Approach
Acta Appl Math, 122 n.1 (2012), 53-68

[66] B. Bozzini, D. Lacitignola, C. Mele, I. Sgura
Morphogenesis in metal electrodeposition
Note di Matematica 32 n. 1 (2012), 7–46.

[67] C. Mele, B. Bozzini
Electrodeposition of a Au-Dy$_2$O$_3$ composite solid oxide fuel cell catalyst from eutectic urea/choline chloride ionic liquid.
Energies, 5 (2012) 5363-5371

2013

[68] B Bozzini, A. Gianoncelli, B. Kaulich, C. Mele, M. Prasciolu, M. Kiskinova
In situ Soft X-ray Microscopy Study of Fe Interconnect Corrosion in Ionic Liquid-Based Nano-PEMFC Half-Cells

[69] C. Mele, M. Catalano, A. Taurino, B. Bozzini
Electrochemical fabrication of nanoporous gold-supported manganese oxide nanowires based on electrodeposition from eutectic urea/choline chloride ionic liquid

Spectroelectrochemical study of the electro-oxidation of ethanol on WC-supported Pt – Part III: Monitoring of electrodeposited-Pt catalyst aging by in situ Fourier transform infrared spectroscopy, in situ sum Frequency generation spectroscopy and ex situ photoelectron spectromicroscopy.

[71] A. Gianoncelli, B. Kaulich, M. Kiskinova, C. Mele, M. Prasciolu, I. Sgura, B. Bozzini
Fabrication and testing of an electrochemical microcell for in situ soft X-ray microspectroscopy measurements.

[72] B. Bozzini, A. Gianoncelli, C. Mele, M. Kiskinova
Electrochemical fabrication of nanoporous gold decorated with manganese oxide nanowires from eutectic urea/choline chloride ionic liquid. Part II - Electrodeposition of Au-Mn: A study based on soft X-ray microspectroscopy
Electrochimica Acta 114 (2013) 535-545

2014

[73] B. Bozzini, A. Barca, F. Bogani, M. Boniardi, P. Carlino, C. Mele, T. Verri, A. Romano
Electrodeposition of nanostructured bioactive hydroxyapatite-heparin composite coatings on titanium for dental implant applications.

[74] B. Bozzini, A. Gianoncelli, C. Mele, I. Sgura, M. Kiskinova
Electrodeposition of a Mn-Cu-ZnO Hybrid Material for Supercapacitors: A Soft X-ray Fluorescence and Absorption Microspectroscopy Study
ChemElectroChem 1 (2014) 392-399

Pulse-Plating of Mn-Cu-ZnO for Supercapacitors: A Study Based on Soft X-ray Fluorescence and Absorption Microspectroscopy
ChemElectroChem 1 (2014) 1161-1172

[76] H. Hassannejad, F. Bogani, M. Boniardi, A. Casaroli, C. Mele, B. Bozzini
Electrodeposition of DLC films on carbon steel from acetic acid solutions
Transactions of the Institute of Metal Finishing, 92 (2014) 183-188.

[77] B. Bozzini, P. Bocchetta, A. Gianoncelli, C. Mele, M. Kiskinova
Electrodeposition of Co/CoO nanoparticles onto graphene for oor electrolysis: A study based on micro-x-ray absorption spectroscopy and x-ray fluorescence mapping

Electrosynthesis of Co/PPy nanocomposites for ORR electrocatalysis: A study based on quasi-in situ X-ray absorption, fluorescence and in situ Raman spectroscopy
[79] B. Bozzini, A. Gianoncelli, C. Mele, A. Siciliano, L. Mancini
Electrochemical reconstruction of a heavily corroded Tarentum hemiobolus silver coin: A study based on microfocus X-ray computed microtomography

2015
[80] C. Mele, B. Bozzini
Spectroelectrochemical investigation of the anodic and cathodic behaviour of zinc in 5.3 M KOH
[81] B. Bozzini, P. Bocchetta, A. Gianoncelli, C. Mele, M. Kiskinova
Electrodeposition and Ageing of Mn-Based Binary Composite Oxygen Reduction Reaction Electrocatalysts
In Situ X-ray Microspectroelectrochemical Methods for the Study of Zinc-air Batteries

2016
Corrosion of cemented carbide grades in petrochemical slurries. Part I - Electrochemical adsorption of CN-, SCN- and MBT: A study based on in situ SFG
Electrochemical fabrication of nanoporous gold decorated with manganese oxide nanowires from eutectic urea/choline chloride ionic liquid. Part III – Electrodeposition of Au–Mn: a study based on in situ Sum-Frequency Generation and Raman spectroscopies
ORR stability of Mn-Co/polypyrrole nanocomposite electrocatalysts studied by quasi in-situ identical-location photoelectron microspectroscopy
Electrochemistry Communications, 69 (2016) 50-54

2017
A comprehensive assessment of the performance of corrosion resistant alloys in hot acidic brines for application in oil and gas production
Corrosion Engineering, Science and Technology, 55:2 (2017) 99-113
[87] C. Mele, B. Bozzini
A simple and safe method to implement corrosion experiments with 1 bar of H2S
Corrosion Engineering, Science and Technology, 52:5 (2017) 325-331
GO/PEDOT:PSS nanocomposites: effect of different dispersing agents on rheological, thermal, wettability and electrochemical properties
Nanotechnology, 28 (2017) 174001 (11 pp)
An in situ near-ambient pressure X-ray Photoelectron Spectroscopy study of CO2 reduction at Cu in a SOE cell
[90] C. Mele, P. Bocchetta, B. Bozzini
Characterization of the particulate anode of a laboratory flow Zn-air fuel cell