

Benedetto Bozzini

List of Publications by Year in descending order

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165
papers

2,827
citations

212478

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40
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169
docs citations

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times ranked

2768
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Insight into the Cycling Behaviour of Metal Anodes, Enabled by X-ray Tomography and Mathematical Modelling. ChemElectroChem, 2022, 9, . | 1.7 | 4 |
| 2 | X-ray imaging and micro-spectroscopy unravel the role of zincate and zinc oxide in the cycling of zinc anodes in mildly acidic aqueous electrolytes. Journal of Power Sources, 2022, 524, 231063. | 4.0 | 5 |
| 3 | Electrodeposition of copper from triethanolamine as a complexing agent in alkaline solution. Electrochimica Acta, 2022, 425, 140654. | 2.6 | 8 |
| 4 | Single Metal Atom Catalysts and ORR: H-Bonding, Solvation, and the Elusive Hydroperoxyl Intermediate. ACS Catalysis, 2022, 12, 7950-7959. | 5.5 | 4 |
| 5 | Quantifying and rationalizing polarization curves of Zn-air fuel-cells: A simple enabling contribution to device-scale analysis and monitoring. Electrochimica Acta, 2022, 425, 140712. | 2.6 | 1 |
| 6 | Turing-Hopf patterns in a morphochemical model for electrodeposition with cross-diffusion. Applications in Engineering Science, 2021, 5, 100034. | 0.5 | 2 |
| 7 | Ultrafast Charge Carrier Dynamics in CuWO ₄ Photoanodes. Journal of Physical Chemistry C, 2021, 125, 5692-5699. | 1.5 | 8 |
| 8 | Fourier analysis of an electrochemical phase formation model enables the rationalization of zinc-anode battery dynamics. Applications in Engineering Science, 2021, 5, 100033. | 0.5 | 0 |
| 9 | Model-reduction techniques for PDE models with Turing type electrochemical phase formation dynamics. Applications in Engineering Science, 2021, 8, 100074. | 0.5 | 2 |
| 10 | Operando XAS of a Bifunctional Gas Diffusion Electrode for Zn-Air Batteries under Realistic Application Conditions. Applied Sciences (Switzerland), 2021, 11, 11672. | 1.3 | 6 |
| 11 | Electrodeposition of Zinc from Alkaline Electrolytes Containing Quaternary Ammonium Salts and Ionomers: Impact of Cathodic-Anodic Cycling Conditions. ChemElectroChem, 2020, 7, 1752-1764. | 1.7 | 8 |
| 12 | The role of chromium in the corrosion performance of cobalt- and cobalt-nickel based hardmetal binders: A study centred on X-ray absorption microspectroscopy. International Journal of Refractory Metals and Hard Materials, 2020, 92, 105320. | 1.7 | 11 |
| 13 | An Erosion-Corrosion Investigation of Coated Steel for Applications in the Oil and Gas Field, Based on Bipolar Electrochemistry. Coatings, 2020, 10, 92. | 1.2 | 12 |
| 14 | Morphological Evolution of Zn-Sponge Electrodes Monitored by In Situ X-ray Computed Microtomography. ACS Applied Energy Materials, 2020, 3, 4931-4940. | 2.5 | 17 |
| 15 | In situ photoelectron spectromicroscopy for the investigation of solid oxide-based electrochemical systems. , 2020, , 55-89. | | 0 |
| 16 | Parameter estimation for a morphochemical reaction-diffusion model of electrochemical pattern formation. Inverse Problems in Science and Engineering, 2019, 27, 618-647. | 1.2 | 21 |
| 17 | In Operando Photoelectrochemical Femtosecond Transient Absorption Spectroscopy of WO ₃ /BiVO ₄ Heterojunctions. ACS Energy Letters, 2019, 4, 2213-2219. | 8.8 | 42 |
| 18 | Spiral waves on the sphere for an alloy electrodeposition model. Communications in Nonlinear Science and Numerical Simulation, 2019, 79, 104930. | 1.7 | 11 |

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|----|---|-----|-----------|
| 19 | In situ near-ambient pressure X-ray photoelectron spectroscopy discloses the surface composition of operating NdBaCo ₂ O _{5+δ} solid oxide fuel cell cathodes. <i>Journal of Power Sources</i> , 2019, 436, 226815. | 4.0 | 12 |
| 20 | Spatially Resolved XPS Characterization of Electrochemical Surfaces. <i>Surfaces</i> , 2019, 2, 295-314. | 1.0 | 3 |
| 21 | Operando soft X-ray microscope study of rechargeable Zn-air battery anodes in deep eutectic solvent electrolyte. <i>X-Ray Spectrometry</i> , 2019, 48, 527-535. | 0.9 | 8 |
| 22 | Cross-diffusion effects on a morphochemical model for electrodeposition. <i>Applied Mathematical Modelling</i> , 2018, 57, 492-513. | 2.2 | 16 |
| 23 | Dy- and Tb-doped CeO ₂ -Ni cermets for solid oxide fuel cell anodes: electrochemical fabrication, structural characterization, and electrocatalytic performance. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 3761-3773. | 1.2 | 5 |
| 24 | Monitoring dynamic electrochemical processes with in situ ptychography. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 627-636. | 1.6 | 5 |
| 25 | Depth-Dependent Scanning Photoelectron Microspectroscopy Unravels the Mechanism of Dynamic Pattern Formation in Alloy Electrodeposition. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15996-16007. | 1.5 | 7 |
| 26 | Turing pattern formation on the sphere for a morphochemical reaction-diffusion model for electrodeposition. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 48, 484-508. | 1.7 | 43 |
| 27 | In situ observation of dynamic electrodeposition processes by soft x-ray fluorescence microspectroscopy and keyhole coherent diffractive imaging. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 124001. | 1.3 | 10 |
| 28 | A comprehensive assessment of the performance of corrosion resistant alloys in hot acidic brines for application in oil and gas production. <i>Corrosion Engineering Science and Technology</i> , 2017, 52, 99-113. | 0.7 | 3 |
| 29 | An in situ near-ambient pressure X-ray photoelectron spectroscopy study of CO ₂ reduction at Cu in a SOE cell. <i>Journal of Electroanalytical Chemistry</i> , 2017, 799, 17-25. | 1.9 | 8 |
| 30 | Characterization of the particulate anode of a laboratory flow Zn-air fuel cell. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 877-888. | 1.5 | 30 |
| 31 | Soft X-ray ptychography as a tool for in operando morphochemical studies of electrodeposition processes with nanometric lateral resolution. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 220, 147-155. | 0.8 | 10 |
| 32 | Novel insight into bronze disease gained by synchrotron-based photoelectron spectro-microscopy, in support of electrochemical treatment strategies. <i>Studies in Conservation</i> , 2017, 62, 465-473. | 0.6 | 13 |
| 33 | XRF map identification problems based on a PDE electrodeposition model. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 154002. | 1.3 | 8 |
| 34 | In situ SERS and ERS assessment of the effect of triethanolamine on zinc electrodeposition on a gold electrode. <i>Electrochimica Acta</i> , 2017, 248, 270-280. | 2.6 | 9 |
| 35 | Parameter identification in ODE models with oscillatory dynamics: a Fourier regularization approach. <i>Inverse Problems</i> , 2017, 33, 124009. | 1.0 | 7 |
| 36 | Electrodeposition of Mn-Co/Polypyrrole Nanocomposites: An Electrochemical and In Situ Soft-X-ray Microspectroscopic Investigation. <i>Polymers</i> , 2017, 9, 17. | 2.0 | 20 |

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| 37 | Accurate Assessment of the Oxygen Reduction Electrocatalytic Activity of Mn/Polypyrrole Nanocomposites Based on Rotating Disk Electrode Measurements, Complemented with Multitechnique Structural Characterizations. <i>Journal of Analytical Methods in Chemistry</i> , 2016, 2016, 1-16. | 0.7 | 5 |
| 38 | ORR stability of Mn-Co/polypyrrole nanocomposite electrocatalysts studied by quasi in-situ identical-location photoelectron microspectroscopy. <i>Electrochemistry Communications</i> , 2016, 69, 50-54. | 2.3 | 15 |
| 39 | Shedding light on electrodeposition dynamics tracked in situ via soft X-ray coherent diffraction imaging. <i>Nano Research</i> , 2016, 9, 2046-2056. | 5.8 | 16 |
| 40 | Corrosion of cemented carbide grades in petrochemical slurries. Part I - Electrochemical adsorption of CN ⁻ , SCN ⁻ and MBT: A study based on in situ SFG. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016, 60, 37-51. | 1.7 | 21 |
| 41 | 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. <i>Electrochimica Acta</i> , 2016, 218, 208-215. | 2.6 | 18 |
| 42 | Potential-dependent reactivity of adsorbed cyanide during the electrodeposition of silver from cyanocomplexes: a study based on in-situ surface-enhanced Raman spectroscopy. <i>Transactions of the Institute of Metal Finishing</i> , 2015, 93, 82-88. | 0.6 | 4 |
| 43 | In situ soft x-ray fluorescence and absorption microspectroscopy: A study of Mn-Co/polypyrrole electrodeposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015, 33, . | 0.9 | 15 |
| 44 | High-resolution X-ray fluorescence microspectroscopy and dynamic mathematical modelling as tools for the study of electrodeposited electrocatalysts. <i>X-Ray Spectrometry</i> , 2015, 44, 263-275. | 0.9 | 22 |
| 45 | Electrodeposition and Ageing of Mn-Based Binary Composite Oxygen Reduction Reaction Electrocatalysts. <i>ChemElectroChem</i> , 2015, 2, 1541-1550. | 1.7 | 18 |
| 46 | Coelectrodeposition of Ternary Mn-Oxide/Polypyrrole Composites for ORR Electrocatalysts: A Study Based on Micro-X-ray Absorption Spectroscopy and X-ray Fluorescence Mapping. <i>Energies</i> , 2015, 8, 8145-8164. | 1.6 | 15 |
| 47 | Spatio-temporal organization in a morphochemical electrodeposition model: Hopf and Turing instabilities and their interplay. <i>European Journal of Applied Mathematics</i> , 2015, 26, 143-173. | 1.4 | 38 |
| 48 | An in situ near-ambient pressure X-ray Photoelectron Spectroscopy study of Mn polarised anodically in a cell with solid oxide electrolyte. <i>Electrochimica Acta</i> , 2015, 174, 532-541. | 2.6 | 20 |
| 49 | Morphochemical evolution during ageing of pyrolysed Mn/polypyrrole nanocomposite oxygen reduction electrocatalysts: A study based on quasi-in situ photoelectron spectromicroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2015, 758, 191-200. | 1.9 | 10 |
| 50 | Electrodeposition and pyrolysis of Mn/polypyrrole nanocomposites: a study based on soft X-ray absorption, fluorescence and photoelectron microspectroscopies. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19155-19167. | 5.2 | 26 |
| 51 | Weakly nonlinear analysis of Turing patterns in a morphochemical model for metal growth. <i>Computers and Mathematics With Applications</i> , 2015, 70, 1948-1969. | 1.4 | 36 |
| 52 | Spectroelectrochemical investigation of the anodic and cathodic behaviour of zinc in 5.3M KOH. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 43-50. | 1.5 | 18 |
| 53 | Electrodeposition of DLC films on carbon steel from acetic acid solutions. <i>Transactions of the Institute of Metal Finishing</i> , 2014, 92, 183-188. | 0.6 | 5 |
| 54 | Electrodeposition of a Mn-Cu-ZnO Hybrid Material for Supercapacitors: A Soft X-ray Fluorescence and Absorption Microspectroscopy Study. <i>ChemElectroChem</i> , 2014, 1, 392-399. | 1.7 | 4 |

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| 55 | Quasi-in-Situ Single-Grain Photoelectron Microspectroscopy of Co/PPy Nanocomposites under Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19621-19629. | 4.0 | 17 |
| 56 | Electrochemical reconstruction of a heavily corroded Tarentum hemiobolus silver coin: a study based on microfocus X-ray computed microtomography. <i>Journal of Archaeological Science</i> , 2014, 52, 24-30. | 1.2 | 11 |
| 57 | Spatio-Temporal Organization in a Morphochemical Electrodeposition Model: Analysis and Numerical Simulation of Spiral Waves. <i>Acta Applicandae Mathematicae</i> , 2014, 132, 377-389. | 0.5 | 21 |
| 58 | Electrodeposition of nanostructured bioactive hydroxyapatite-heparin composite coatings on titanium for dental implant applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 1425-1434. | 1.7 | 15 |
| 59 | Materials science aspects of zinc-air batteries: a review. <i>Materials for Renewable and Sustainable Energy</i> , 2014, 3, 1. | 1.5 | 186 |
| 60 | Fabrication of a Sealed Electrochemical Microcell for in Situ Soft X-ray Microspectroscopy and Testing with in Situ Co-Polypyrrole Composite Electrodeposition for Pt-Free Oxygen Electrocatalysis. <i>Analytical Chemistry</i> , 2014, 86, 664-670. | 3.2 | 37 |
| 61 | Pulse-Plating of Mn-Cu-ZnO for Supercapacitors: A Study Based on Soft X-ray Fluorescence and Absorption Microspectroscopy. <i>ChemElectroChem</i> , 2014, 1, 1161-1172. | 1.7 | 2 |
| 62 | Electrosynthesis of Co/PPy nanocomposites for ORR electrocatalysis: a study based on quasi-in situ X-ray absorption, fluorescence and in situ Raman spectroscopy. <i>Electrochimica Acta</i> , 2014, 137, 535-545. | 2.6 | 39 |
| 63 | Materials science aspects of zinc-air batteries: a review. , 2014, 3, 1. | | 1 |
| 64 | Electrodeposition of Co/CoO nanoparticles onto graphene for ORR electrocatalysis: a study based on micro-X-ray absorption spectroscopy and X-ray fluorescence mapping. <i>Acta Chimica Slovenica</i> , 2014, 61, 263-71. | 0.2 | 16 |
| 65 | Corrosion of stainless steel grades in H ₂ O/KOH 50% at 120°C: AISI304 austenitic and 2205 duplex. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2013, 64, 988-995. | 0.8 | 2 |
| 66 | Spectroelectrochemical study of the electro-oxidation of ethanol on WC-supported Pt - Part III: Monitoring of electrodeposited-Pt catalyst ageing by in situ Fourier transform infrared spectroscopy, in situ sum frequency generation spectroscopy and ex situ photoelectron spectromicroscopy. <i>Journal of Power Sources</i> , 2013, 231, 6-17. | 4.0 | 12 |
| 67 | In-situ Photoelectron Microspectroscopy and Imaging of Electrochemical Processes at the Electrodes of a Self-driven Cell. <i>Scientific Reports</i> , 2013, 3, 2848. | 1.6 | 22 |
| 68 | In Situ Soft X-ray Microscopy Study of Fe Interconnect Corrosion in Ionic Liquid-Based Nano-PEMFC Half-Cells. <i>Fuel Cells</i> , 2013, 13, 196-202. | 1.5 | 5 |
| 69 | Spatio-temporal organization in alloy electrodeposition: a morphochemical mathematical model and its experimental validation. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 467-479. | 1.2 | 48 |
| 70 | 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. <i>Electrochimica Acta</i> , 2013, 114, 889-896. | 2.6 | 7 |
| 71 | Wireless system for biological signal recording with Gallium Arsenide high electron mobility transistors as sensing elements. <i>Microelectronic Engineering</i> , 2013, 111, 354-359. | 1.1 | 3 |
| 72 | Electrochemical fabrication of nanoporous gold-supported manganese oxide nanowires based on electrodeposition from eutectic urea/choline chloride ionic liquid. <i>Electrochimica Acta</i> , 2013, 87, 918-924. | 2.6 | 23 |

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| 73 | Electrodeposition of a Au-Dy ₂ O ₃ Composite Solid Oxide Fuel Cell Catalyst from Eutectic Urea/Choline Chloride Ionic Liquid. <i>Energies</i> , 2012, 5, 5363-5371. | 1.6 | 6 |
| 74 | Numerical approximation of oscillating Turing patterns in a reaction-diffusion model for electrochemical material growth. <i>AIP Conference Proceedings</i> , 2012, , . | 0.3 | 9 |
| 75 | Electrodeposition of Y ₂ O ₃ –Au composite coatings for SOFC interconnects: in situ monitoring of film growth by surface enhanced Raman spectroscopy. <i>Transactions of the Institute of Metal Finishing</i> , 2012, 90, 30-37. | 0.6 | 6 |
| 76 | Electrodeposition of Ni/ceria composites: an in situ visible reflectance investigation. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 3429-3441. | 1.2 | 8 |
| 77 | Coupling of Morphology and Chemistry Leads to Morphogenesis in Electrochemical Metal Growth: A Review of the Reaction-Diffusion Approach. <i>Acta Applicandae Mathematicae</i> , 2012, 122, 53. | 0.5 | 25 |
| 78 | In-situ photoelectron microspectroscopy during the operation of a single-chamber SOFC. <i>Electrochemistry Communications</i> , 2012, 24, 104-107. | 2.3 | 25 |
| 79 | Microscale Evolution of Surface Chemistry and Morphology of the Key Components in Operating Hydrocarbon-Fuelled SOFCs. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23188-23193. | 1.5 | 12 |
| 80 | In Situ Electrochemical X-ray Spectromicroscopy Investigation of the Reduction/Reoxidation Dynamics of Ni–Cu Solid Oxide Fuel Cell Anodic Material in Contact with a Cr Interconnect in 2 Å–10 ⁶ mbar O ₂ . <i>Journal of Physical Chemistry C</i> , 2012, 116, 7243-7248. | 1.5 | 13 |
| 81 | In Situ Electrochemical SFG/DFG Study of CN [−] and Nitrile Adsorption at Au from 1-Butyl-1-methyl-pyrrolidinium Bis(trifluoromethylsulfonyl) Amide Ionic Liquid ([BMP][TFSA]) Containing 4-{2-[1-(2-Cyanoethyl)-1,2,3,4-tetrahydroquinolin-6-yl]diazanyl} Benzonitrile (CTDB) and K[Au(CN) ₂]. <i>Molecules</i> , 2012, 17, 7722-7736. | 1.7 | 10 |
| 82 | Corrosion of stainless steel grades in molten NaOH/KOH eutectic at 250%°C: AISI304 austenitic and 2205 duplex. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2012, 63, n/a-n/a. | 0.8 | 4 |
| 83 | Soft X-ray Imaging and Spectromicroscopy: New Insights in Chemical State and Morphology of the Key Components in Operating Fuel Cells. <i>Chemistry - A European Journal</i> , 2012, 18, 10196-10210. | 1.7 | 29 |
| 84 | Numerical approximation of Turing patterns in electrodeposition by ADI methods. <i>Journal of Computational and Applied Mathematics</i> , 2012, 236, 4132-4147. | 1.1 | 33 |
| 85 | Electrodeposition of manganese oxide from eutectic urea/choline chloride ionic liquid: An in situ study based on soft X-ray spectromicroscopy and visible reflectivity. <i>Journal of Power Sources</i> , 2012, 211, 71-76. | 4.0 | 23 |
| 86 | Corrosion Performance of Austenitic Stainless Steel Bipolar Plates for Nafion- and Room-Temperature Ionic-Liquid-Based PEMFCs. <i>Open Fuels and Energy Science Journal</i> , 2012, 5, 47-52. | 0.2 | 8 |
| 87 | Investigation of Au electrodeposition from [BMP][TFSA] room-temperature ionic liquid containing K[Au(CN) ₂] by in situ two-dimensional sum frequency generation spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2011, 661, 20-24. | 1.9 | 15 |
| 88 | Corrosion of Ni in 1-butyl-1-methyl-pyrrolidinium bis (trifluoromethylsulfonyl) amide room-temperature ionic liquid: an in situ X-ray imaging and spectromicroscopy study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7968. | 1.3 | 19 |
| 89 | Numerical modelling of MCFC cathode degradation in terms of morphological variations. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10403-10413. | 3.8 | 16 |
| 90 | Electrochemical behaviour and surface characterisation of Zr exposed to an SBF solution containing glycine, in view of dental implant applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 193-200. | 1.7 | 15 |

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| 91 | Travelling waves in a reaction-diffusion model for electrodeposition. <i>Mathematics and Computers in Simulation</i> , 2011, 81, 1027-1044. | 2.4 | 17 |
| 92 | In situ X-ray Spectromicroscopy Investigation of the Material Stability of SOFC Metal Interconnects in Operating Electrochemical Cells. <i>ChemSusChem</i> , 2011, 4, 1099-1103. | 3.6 | 19 |
| 93 | Study of a proton exchange membrane fuel cells catalyst subjected to anodic operating conditions, by synchrotron-based scanning photoelectron microscopy (SPEM) and high lateral-resolution X-ray photoelectron spectroscopy. <i>Journal of Power Sources</i> , 2011, 196, 2513-2518. | 4.0 | 11 |
| 94 | In situ X-ray spectromicroscopy study of bipolar plate material stability for nano-fuel-cells with ionic-liquid electrolyte. <i>Microelectronic Engineering</i> , 2011, 88, 2456-2458. | 1.1 | 14 |
| 95 | Electrodeposition of Au from [EMIm][TfSA] room-temperature ionic liquid: An electrochemical and Surface-Enhanced Raman Spectroscopy study. <i>Journal of Electroanalytical Chemistry</i> , 2011, 651, 1-11. | 1.9 | 17 |
| 96 | A study of external magnetic-field effects on nickel-iron alloy electrodeposition, based on linear and non-linear differential AC electrochemical response measurements. <i>Journal of Electroanalytical Chemistry</i> , 2011, 651, 197-203. | 1.9 | 17 |
| 97 | Scanning photoelectron microscopy investigation of the initial stages of the electrochemical reduction of Cr(VI) at Pt(111) electrode. <i>Journal of Electroanalytical Chemistry</i> , 2011, 657, 113-116. | 1.9 | 8 |
| 98 | Localised corrosion processes of austenitic stainless steel bipolar plates for polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 3590-3596. | 4.0 | 31 |
| 99 | In situ spectroelectrochemical measurements during the electro-oxidation of ethanol on WC-supported Pt-black, based on sum-frequency generation spectroscopy. <i>Journal of Power Sources</i> , 2010, 195, 4119-4123. | 4.0 | 24 |
| 100 | Electrodeposition of yttria/cobalt oxide and yttria/gold coatings onto ferritic stainless steel for SOFC interconnects. <i>Journal of Power Sources</i> , 2010, 195, 4772-4778. | 4.0 | 32 |
| 101 | Silver electrodeposition from water-acetonitrile mixed solvents. Part III: an in situ investigation by optical second harmonic generation spectroscopy. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 989-995. | 1.2 | 3 |
| 102 | Cathodic chloride extraction treatment of a late bronze-age artifact affected by bronze disease in room-temperature ionic-liquid 1-ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide (EMI-TFSI). <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 479-494. | 1.2 | 12 |
| 103 | Metallic Plate Corrosion and Uptake of Corrosion Products by Nafion in Polymer Electrolyte Membrane Fuel Cells. <i>ChemSusChem</i> , 2010, 3, 846-850. | 3.6 | 27 |
| 104 | In situ spectroelectrochemical measurements during the electro-oxidation of ethanol on WC-supported Pt-black. Part II: Monitoring of catalyst aging by in situ Fourier transform infrared spectroscopy. <i>Journal of Power Sources</i> , 2010, 195, 7968-7973. | 4.0 | 7 |
| 105 | Unusual coin from the Parabita hoard: combined use of surface and micro-analytical techniques for its characterisation. <i>Journal of Cultural Heritage</i> , 2010, 11, 233-238. | 1.5 | 3 |
| 106 | An SFG/DFG investigation of CN ⁻ adsorption at an Au electrode in 1-butyl-1-methyl-pyrrolidinium bis(trifluoromethylsulfonyl) amide ionic liquid. <i>Electrochemistry Communications</i> , 2010, 12, 56-60. | 2.3 | 35 |
| 107 | A SERS investigation of Cu electrodeposition in the presence of the model leveller 4-{2-[1-(2-cyanoethyl)-1,2,3,4-tetrahydroquinolin-6-yl]diazanyl} benzonitrile. <i>Electrochimica Acta</i> , 2010, 55, 3279-3285. | 2.6 | 5 |
| 108 | Morphological spatial patterns in a reaction diffusion model for metal growth. <i>Mathematical Biosciences and Engineering</i> , 2010, 7, 237-258. | 1.0 | 19 |

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| 109 | A STM Investigation on Step Dynamics during Cu Electrodeposition. Part I - Development of the Electrolyte.. ECS Transactions, 2009, 16, 37-52. | 0.3 | 0 |
| 110 | Silver electrodeposition from water/acetonitrile mixed solvents in the presence of tetrabutylammonium perchlorate. Journal of Solid State Electrochemistry, 2009, 13, 1553-1559. | 1.2 | 9 |
| 111 | Silver electrodeposition from water/acetonitrile mixed solvents and mixed electrolytes in the presence of tetrabutylammonium perchlorate. Part II "electrochemical nucleation on glassy carbon electrode. Journal of Solid State Electrochemistry, 2009, 13, 1577-1584. | 1.2 | 15 |
| 112 | Electrodeposition of NiO/YSZ from hydroalcoholic solutions containing Chitosan. Surface and Coatings Technology, 2009, 203, 3427-3434. | 2.2 | 10 |
| 113 | Corrosion of electrodeposited copper by exposure to volatile organic compounds. Journal of Materials Science: Materials in Electronics, 2009, 20, 666-670. | 1.1 | 2 |
| 114 | A novel selective removal process of cobalt silicide. Journal of Materials Science: Materials in Electronics, 2009, 20, 1164-1171. | 1.1 | 0 |
| 115 | Nucleation and growth of thin nickel layers under the influence of a magnetic field. Journal of Electroanalytical Chemistry, 2009, 626, 174-182. | 1.9 | 37 |
| 116 | In situ femtosecond spectroelectrochemistry of Au(111) in an aqueous chloride solution. Electrochemistry Communications, 2009, 11, 799-803. | 2.3 | 5 |
| 117 | An in Situ Synchrotron-Based Soft X-ray Microscopy Investigation of Ni Electrodeposition in a Thin-Layer Cell. Journal of Physical Chemistry C, 2009, 113, 9783-9787. | 1.5 | 38 |
| 118 | An investigation of the corrosion of WC-Co cermets in CN ⁻ -containing aqueous solutions. Part II: Synchrotron-based high lateral-resolution XPS study. Corrosion Science, 2009, 51, 1675-1678. | 3.0 | 12 |
| 119 | A SERS study of the galvanostatic sequence used for the electrochemical deposition of copper from baths employed in the fabrication of interconnects. Journal of Materials Science: Materials in Electronics, 2009, 20, 217-222. | 1.1 | 10 |
| 120 | A Mathematical Model for the Corrosion of Metallic Bipolar Plates in PEM Fuel Cells: Numerical and Experimental Issues. SIAM Journal on Applied Mathematics, 2009, 70, 579-599. | 0.8 | 8 |
| 121 | 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. Journal of Applied Electrochemistry, 2008, 38, 897-906. | 1.5 | 4 |
| 122 | An SFG and DFG investigation of Au(111), Au(100), Au(110) and Au(210) electrodes in contact with aqueous solutions containing KCN. Journal of Solid State Electrochemistry, 2008, 12, 303-313. | 1.2 | 10 |
| 123 | A class of mathematical models for alternated-current electrochemical measurements accounting for non-linear effects. Nonlinear Analysis: Real World Applications, 2008, 9, 412-429. | 0.9 | 11 |
| 124 | Magnetic field effects on the initial stages of electrodeposition processes. Journal of Electroanalytical Chemistry, 2008, 615, 191-196. | 1.9 | 37 |
| 125 | In situ soft X-ray dynamic microscopy of electrochemical processes. Electrochemistry Communications, 2008, 10, 1680-1683. | 2.3 | 34 |
| 126 | A SERS Investigation of Cyanide Adsorption and Reactivity during the Electrodeposition of Gold, Silver, and Copper from Aqueous Cyanocomplexes Solutions. Journal of Physical Chemistry C, 2008, 112, 6352-6358. | 1.5 | 45 |

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| 127 | A computational approach to morphological control in electrodeposition by molecular targeting. <i>Computational Materials Science</i> , 2008, 42, 394-406. | 1.4 | 2 |
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