

Benedetto Bozzini

List of Publications by Year in descending order

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165
papers

2,827
citations

186265

28
h-index

289244

40
g-index

169
all docs

169
docs citations

169
times ranked

2492
citing authors

#	ARTICLE	IF	CITATIONS
1	Materials science aspects of zinc-air batteries: a review. <i>Materials for Renewable and Sustainable Energy</i> , 2014, 3, 1.	3.6	186
2	Evaluation of erosion-corrosion in multiphase flow via CFD and experimental analysis. <i>Wear</i> , 2003, 255, 237-245.	3.1	106
3	Electrodeposition of Zn-Mn alloys in the presence of thiocarbamide. <i>Surface and Coatings Technology</i> , 2002, 154, 294-303.	4.8	63
4	Electrochemical oxidation of WC in acidic sulphate solution. <i>Corrosion Science</i> , 2004, 46, 453-469.	6.6	50
5	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.	2.5	48
6	A SERS Investigation of Cyanide Adsorption and Reactivity during the Electrodeposition of Gold, Silver, and Copper from Aqueous Cyanocomplexes Solutions. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6352-6358.	3.1	45
7	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.	3.3	43
8	In Operando Photoelectrochemical Femtosecond Transient Absorption Spectroscopy of WO ₃ /BiVO ₄ Heterojunctions. <i>ACS Energy Letters</i> , 2019, 4, 2213-2219.	17.4	42
9	A SERS investigation of the electrodeposition of Ag-Au alloys from free-cyanide solutions. <i>Journal of Electroanalytical Chemistry</i> , 2004, 563, 133-143.	3.8	39
10	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.	5.2	39
11	An in Situ Synchrotron-Based Soft X-ray Microscopy Investigation of Ni Electrodeposition in a Thin-Layer Cell. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9783-9787.	3.1	38
12	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.	2.9	38
13	Magnetic field effects on the initial stages of electrodeposition processes. <i>Journal of Electroanalytical Chemistry</i> , 2008, 615, 191-196.	3.8	37
14	Nucleation and growth of thin nickel layers under the influence of a magnetic field. <i>Journal of Electroanalytical Chemistry</i> , 2009, 626, 174-182.	3.8	37
15	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.	6.5	37
16	Weakly nonlinear analysis of Turing patterns in a morphochemical model for metal growth. <i>Computers and Mathematics With Applications</i> , 2015, 70, 1948-1969.	2.7	36
17	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.	4.7	35
18	Electrochemical dynamics and structure of the Ag/AgCl interface in chloride-containing aqueous solutions. <i>Surface and Coatings Technology</i> , 2007, 201, 4619-4627.	4.8	34

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19	A novel polymeric leveller for the electrodeposition of copper from acidic sulphate bath: A spectroelectrochemical investigation. <i>Electrochimica Acta</i> , 2007, 52, 4767-4777.	5.2	34
20	In situ soft X-ray dynamic microscopy of electrochemical processes. <i>Electrochemistry Communications</i> , 2008, 10, 1680-1683.	4.7	34
21	Numerical approximation of Turing patterns in electrodeposition by ADI methods. <i>Journal of Computational and Applied Mathematics</i> , 2012, 236, 4132-4147.	2.0	33
22	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.	7.8	32
23	Numerical issues related to the modelling of electrochemical impedance data by non-linear least-squares. <i>International Journal of Non-Linear Mechanics</i> , 2005, 40, 557-570.	2.6	31
24	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.	7.8	31
25	An in situ SFG and SERS investigation into the electrodeposition of Au from and solutions. <i>Journal of Electroanalytical Chemistry</i> , 2007, 602, 61-69.	3.8	30
26	Characterization of the particulate anode of a laboratory flow Zn-air fuel cell. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 877-888.	2.9	30
27	An SFG investigation of Au(111) and Au(210) electrodes in aqueous solutions containing KCN and cetylpyridinium chloride. <i>Journal of Electroanalytical Chemistry</i> , 2004, 574, 85-94.	3.8	29
28	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.	3.3	29
29	Mass-transport effects on texture formation of nickel electrodeposits. <i>Materials Chemistry and Physics</i> , 2000, 66, 278-285.	4.0	28
30	Voltammetric and in situ FTIRS study on CN^{\bullet} and $Au(CN)^{\bullet}_x$ complexes at the polycrystalline gold surface in citrate medium. <i>Journal of Electroanalytical Chemistry</i> , 2004, 569, 53-60.	3.8	28
31	Electrodeposition of Cu from acidic sulphate solutions containing cetyltrimethylammonium bromide (CTAB). <i>Journal of Applied Electrochemistry</i> , 2008, 38, 1561-1569.	2.9	28
32	Doubly Resonant Sum Frequency Generation Spectroscopy of Adsorbates at an Electrochemical Interface. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11791-11795.	3.1	27
33	Metallic Plate Corrosion and Uptake of Corrosion Products by Nafion in Polymer Electrolyte Membrane Fuel Cells. <i>ChemSusChem</i> , 2010, 3, 846-850.	6.8	27
34	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.	10.3	26
35	Effects of Tl on the electrocrystallisation of thick Au layers from $KAu(CN)_2$ solutions. <i>Journal of Crystal Growth</i> , 2002, 243, 190-203.	1.5	25
36	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.	1.0	25

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37	In-situ photoelectron microspectroscopy during the operation of a single-chamber SOFC. <i>Electrochemistry Communications</i> , 2012, 24, 104-107.	4.7	25
38	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.	7.8	24
39	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.	7.8	23
40	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.	5.2	23
41	In-situ Photoelectron Microspectroscopy and Imaging of Electrochemical Processes at the Electrodes of a Self-driven Cell. <i>Scientific Reports</i> , 2013, 3, 2848.	3.3	22
42	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.	1.4	22
43	Electrodeposition of white gold alloys: an electrochemical, spectroelectrochemical and structural study of the electrodeposition of Au-Sn alloys in the presence of 4-cyanopyridine. <i>Journal of Solid State Electrochemistry</i> , 2004, 8, 147-158.	2.5	21
44	Spatio-Temporal Organization in a Morphochemical Electrodeposition Model: Analysis and Numerical Simulation of Spiral Waves. <i>Acta Applicandae Mathematicae</i> , 2014, 132, 377-389.	1.0	21
45	Corrosion of cemented carbide grades in petrochemical slurries. Part I - Electrochemical adsorption of CN_3^- , SCN_3^- and MBT: A study based on in situ SFG. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016, 60, 37-51.	3.8	21
46	Parameter estimation for a morphochemical reaction-diffusion model of electrochemical pattern formation. <i>Inverse Problems in Science and Engineering</i> , 2019, 27, 618-647.	1.2	21
47	A SERS investigation of the electrodeposition of Ag-Au alloys from free-cyanide solutions " part II. <i>Journal of Electroanalytical Chemistry</i> , 2004, 570, 29-34.	3.8	20
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.	5.2	20
49	Electrodeposition of Mn-Co/Polypyrrole Nanocomposites: An Electrochemical and In Situ Soft-X-ray Microspectroscopic Investigation. <i>Polymers</i> , 2017, 9, 17.	4.5	20
50	Morphological spatial patterns in a reaction diffusion model for metal growth. <i>Mathematical Biosciences and Engineering</i> , 2010, 7, 237-258.	1.9	19
51	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.	2.8	19
52	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.	6.8	19
53	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. <i>Corrosion Science</i> , 2006, 48, 193-208.	6.6	18
54	Electrodeposition and Ageing of Mn-Based Binary Composite Oxygen Reduction Reaction Electrocatalysts. <i>ChemElectroChem</i> , 2015, 2, 1541-1550.	3.4	18

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55	Spectroelectrochemical investigation of the anodic and cathodic behaviour of zinc in 5.3 M KOH. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 43-50.	2.9	18
56	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.	5.2	18
57	Experience with a pilot plant for the electrodeposition of Zn-Mn on wire. <i>Transactions of the Institute of Metal Finishing</i> , 1998, 76, 171-178.	1.3	17
58	Travelling waves in a reaction-diffusion model for electrodeposition. <i>Mathematics and Computers in Simulation</i> , 2011, 81, 1027-1044.	4.4	17
59	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.	3.8	17
60	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.	3.8	17
61	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.	8.0	17
62	Morphological Evolution of Zn-Sponge Electrodes Monitored by In Situ X-ray Computed Microtomography. <i>ACS Applied Energy Materials</i> , 2020, 3, 4931-4940.	5.1	17
63	A non-linear AC spectrometry study of the electrodeposition of Cu from acidic sulphate solutions in the presence of PEG. <i>Journal of Applied Electrochemistry</i> , 2006, 36, 983-989.	2.9	16
64	Numerical modelling of MCFC cathode degradation in terms of morphological variations. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10403-10413.	7.1	16
65	Shedding light on electrodeposition dynamics tracked in situ via soft X-ray coherent diffraction imaging. <i>Nano Research</i> , 2016, 9, 2046-2056.	10.4	16
66	Cross-diffusion effects on a morphochemical model for electrodeposition. <i>Applied Mathematical Modelling</i> , 2018, 57, 492-513.	4.2	16
67	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.	0.6	16
68	Hydrodynamic problems related to the electrodeposition of AuCu/B4C composites. <i>Electrochimica Acta</i> , 2000, 45, 3431-3438.	5.2	15
69	Silver electrodeposition from water–acetonitrile mixed solvents and mixed electrolytes in the presence of tetrabutylammonium perchlorate. Part I – electrochemical nucleation on glassy carbon electrode. <i>Journal of Solid State Electrochemistry</i> , 2009, 13, 1577-1584.	2.5	15
70	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.	3.8	15
71	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.	3.6	15
72	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.	3.6	15

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73	<i>In situ</i> 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, .	2.1	15
74	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.	3.1	15
75	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.	4.7	15
76	Raman Spectroscopy of Organic Species Incorporated into Electrodeposited Gold Layers. <i>Transactions of the Institute of Metal Finishing</i> , 2002, 80, 25-28.	1.3	14
77	Prediction of Morphological Properties of Smart-Coatings for Cr Replacement, Based on Mathematical Modelling. <i>Advanced Materials Research</i> , 0, 138, 93-106.	0.3	14
78	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.	2.4	14
79	An Electrochemical and Spectroelectrochemical Study of the Electrodeposition of Au from KAu(CN) ₂ Solutions containing 4-Cyanopyridine and Cetylpyridinium Chloride. <i>Transactions of the Institute of Metal Finishing</i> , 2003, 81, 59-67.	1.3	13
80	Electrochemical adsorption of cyanide on Ag(111) in the presence of cetylpyridinium chloride. <i>Journal of Crystal Growth</i> , 2004, 271, 274-286.	1.5	13
81	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 × 10 ⁻⁶ mbar O ₂ . <i>Journal of Physical Chemistry C</i> , 2012, 116, 7243-7248.	3.1	13
82	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.	1.1	13
83	Preparation of InAs by annealing of two-layer In-As electrodeposits. <i>Journal of Alloys and Compounds</i> , 2004, 366, 152-160.	5.5	12
84	An SFG and ERS investigation of the corrosion of CoW _{0.013} Co _{0.001} alloys and WC-Co cermets in CN ⁻ -containing aqueous solutions. <i>Corrosion Science</i> , 2007, 49, 2392-2405.	6.6	12
85	An investigation of the corrosion of WC-Co cermets in CN ⁻ -containing aqueous solutions. Part II: Synchrotron-based high lateral-resolution XPS study. <i>Corrosion Science</i> , 2009, 51, 1675-1678.	6.6	12
86	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.	2.5	12
87	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.	3.1	12
88	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.	7.8	12
89	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.	7.8	12
90	An Erosion-Corrosion Investigation of Coated Steel for Applications in the Oil and Gas Field, Based on Bipolar Electrochemistry. <i>Coatings</i> , 2020, 10, 92.	2.6	12

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91	On the observation of inductive high-frequency impedance behaviour during the electrodeposition of Au–Sn alloys. <i>Journal of Applied Electrochemistry</i> , 2004, 34, 277-281.	2.9	11
92	A class of mathematical models for alternated-current electrochemical measurements accounting for non-linear effects. <i>Nonlinear Analysis: Real World Applications</i> , 2008, 9, 412-429.	1.7	11
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.	7.8	11
94	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.	2.4	11
95	Spiral waves on the sphere for an alloy electrodeposition model. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 79, 104930.	3.3	11
96	The role of chromium in the corrosion performance of cobalt- and cobalt-nickel based hardmetal binders: A study centred on X-ray absorption microspectroscopy. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 92, 105320.	3.8	11
97	An SFG and DFG investigation of polycrystalline Au, Au–Cu and Au–Ag–Cu electrodes in contact with aqueous solutions containing KCN. <i>Journal of Alloys and Compounds</i> , 2007, 427, 341-349.	5.5	10
98	A SERS investigation of the electrodeposition of Au in a phosphate solution. <i>Surface and Coatings Technology</i> , 2007, 201, 6267-6272.	4.8	10
99	An SFG and DFG investigation of Au(111), Au(100), Au(110) and Au(210) electrodes in contact with aqueous solutions containing KCN. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 303-313.	2.5	10
100	Electrodeposition of NiO/YSZ from hydroalcoholic solutions containing Chitosan. <i>Surface and Coatings Technology</i> , 2009, 203, 3427-3434.	4.8	10
101	A SERS study of the galvanostatic sequence used for the electrochemical deposition of copper from baths employed in the fabrication of interconnects. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 217-222.	2.2	10
102	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.	3.8	10
103	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.	3.8	10
104	<i>In situ</i> 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.	2.8	10
105	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.	1.7	10
106	Silver electrodeposition from water–acetonitrile mixed solvents in the presence of tetrabutylammonium perchlorate. <i>Journal of Solid State Electrochemistry</i> , 2009, 13, 1553-1559.	2.5	9
107	Numerical approximation of oscillating Turing patterns in a reaction-diffusion model for electrochemical material growth. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	9
108	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.	5.2	9

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109	Morphological Artefacts in EDX Analyses of Electrodeposited Zn-Mn Films. Transactions of the Institute of Metal Finishing, 2000, 78, 93-95.	1.3	8
110	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.	1.8	8
111	Scanning photoelectron microscopy investigation of the initial stages of the electrochemical reduction of Cr(VI) at Pt(111) electrode. Journal of Electroanalytical Chemistry, 2011, 657, 113-116.	3.8	8
112	Electrodeposition of Ni/ceria composites: an in situ visible reflectance investigation. Journal of Solid State Electrochemistry, 2012, 16, 3429-3441.	2.5	8
113	An in situ near-ambient pressure X-ray photoelectron spectroscopy study of CO ₂ reduction at Cu in a SOE cell. Journal of Electroanalytical Chemistry, 2017, 799, 17-25.	3.8	8
114	XRF map identification problems based on a PDE electrodeposition model. Journal Physics D: Applied Physics, 2017, 50, 154002.	2.8	8
115	Operando soft X-ray microscope study of rechargeable Zn-air battery anodes in deep eutectic solvent electrolyte. X-Ray Spectrometry, 2019, 48, 527-535.	1.4	8
116	Electrodeposition of Zinc from Alkaline Electrolytes Containing Quaternary Ammonium Salts and Ionomers: Impact of Cathodic-Anodic Cycling Conditions. ChemElectroChem, 2020, 7, 1752-1764.	3.4	8
117	Ultrafast Charge Carrier Dynamics in CuWO ₄ Photoanodes. Journal of Physical Chemistry C, 2021, 125, 5692-5699.	3.1	8
118	Corrosion Performance of Austenitic Stainless Steel Bipolar Plates for Nafion- and Room-Temperature Ionic-Liquid-Based PEMFCs. Open Fuels and Energy Science Journal, 2012, 5, 47-52.	0.2	8
119	Electrodeposition of copper from triethanolamine as a complexing agent in alkaline solution. Electrochimica Acta, 2022, 425, 140654.	5.2	8
120	Metastable structures in electrodeposited AuCu. Scripta Materialia, 2000, 43, 877-880.	5.2	7
121	Study of Surface Compositional Waves in Electrodeposited Au-Cu Alloys by Synchrotron-Based High Lateral-Resolution X-Ray Photoemission Spectroscopy. Journal of the Electrochemical Society, 2008, 155, F165.	2.9	7
122	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. Journal of Power Sources, 2010, 195, 7968-7973.	7.8	7
123	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, 2013, 114, 889-896.	5.2	7
124	Parameter identification in ODE models with oscillatory dynamics: a Fourier regularization approach. Inverse Problems, 2017, 33, 124009.	2.0	7
125	Depth-Dependent Scanning Photoelectron Microspectroscopy Unravels the Mechanism of Dynamic Pattern Formation in Alloy Electrodeposition. Journal of Physical Chemistry C, 2018, 122, 15996-16007.	3.1	7
126	Formation of GaAs by annealing of two-layer Ga-As electrodeposits. Journal of Alloys and Compounds, 2004, 379, 209-215.	5.5	6

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127	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.	3.1	6
128	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.	1.3	6
129	Operando XAS of a Bifunctional Gas Diffusion Electrode for Zn-Air Batteries under Realistic Application Conditions. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11672.	2.5	6
130	In situ femtosecond spectroelectrochemistry of Au(111) in an aqueous chloride solution. <i>Electrochemistry Communications</i> , 2009, 11, 799-803.	4.7	5
131	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.	5.2	5
132	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.	2.4	5
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