

# Carlos Ponce de Leon

## List of Publications by Citations

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173  
papers

7,580  
citations

45  
h-index

82  
g-index

180  
ext. papers

8,779  
ext. citations

5.6  
avg, IF

6.51  
L-index

#	Paper	IF	Citations
173	Redox flow cells for energy conversion. <i>Journal of Power Sources</i> , <b>2006</b> , 160, 716-732	8.9	872
172	Progress in redox flow batteries, remaining challenges and their applications in energy storage. <i>RSC Advances</i> , <b>2012</b> , 2, 10125	3.7	660
171	Developments in electrode materials and electrolytes for aluminium-air batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 236, 293-310	8.9	291
170	Recent developments in organic redox flow batteries: A critical review. <i>Journal of Power Sources</i> , <b>2017</b> , 360, 243-283	8.9	282
169	A review of the electrodeposition of metal matrix composite coatings by inclusion of particles in a metal layer: an established and diversifying technology. <i>Transactions of the Institute of Metal Finishing</i> , <b>2014</b> , 92, 83-98	1.3	237
168	Electrochemical synthesis of hydrogen peroxide from water and oxygen. <i>Nature Reviews Chemistry</i> , <b>2019</b> , 3, 442-458	34.6	235
167	Direct borohydride fuel cells. <i>Journal of Power Sources</i> , <b>2006</b> , 155, 172-181	8.9	211
166	Characterization of a zinc-mercury flow battery. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 5174-5185	8.9	169
165	Engineering aspects of the design, construction and performance of modular redox flow batteries for energy storage. <i>Journal of Energy Storage</i> , <b>2017</b> , 11, 119-153	7.8	160
164	Developments in direct borohydride fuel cells and remaining challenges. <i>Journal of Power Sources</i> , <b>2012</b> , 219, 339-357	8.9	135
163	A Review of the Iron-Air Secondary Battery for Energy Storage. <i>ChemPlusChem</i> , <b>2015</b> , 80, 323-335	2.8	129
162	A direct borohydride-acid peroxide fuel cell. <i>Journal of Power Sources</i> , <b>2007</b> , 164, 441-448	8.9	126
161	Graphite felt as a versatile electrode material: Properties, reaction environment, performance and applications. <i>Electrochimica Acta</i> , <b>2017</b> , 258, 1115-1139	6.7	112
160	Zinc deposition and dissolution in methanesulfonic acid onto a carbon composite electrode as the negative electrode reactions in a hybrid redox flow battery. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 6536-6546	6.7	103
159	Electrochemical characterisation of the porosity and corrosion resistance of electrochemically deposited metal coatings. <i>Surface and Coatings Technology</i> , <b>2008</b> , 202, 5092-5102	4.4	91
158	The characterisation of PbO <sub>2</sub> -coated electrodes prepared from aqueous methanesulfonic acid under controlled deposition conditions. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 2163-2172	6.7	87
157	Removal of formaldehyde from aqueous solutions via oxygen reduction using a reticulated vitreous carbon cathode cell. <i>Journal of Applied Electrochemistry</i> , <b>1995</b> , 25, 307-314	2.6	84

156	Highlights during the development of electrochemical engineering. <i>Chemical Engineering Research and Design</i> , <b>2013</b> , 91, 1998-2020	5.5	83
155	An undivided zinc/berium redox flow battery operating at room temperature (295 K). <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 770-773	5.1	81
154	A direct borohydride/peroxide fuel cell using a Pd/Ir alloy coated microfibrinous carbon cathode. <i>Electrochemistry Communications</i> , <b>2008</b> , 10, 1610-1613	5.1	79
153	Ce(III)/Ce(IV) in methanesulfonic acid as the positive half cell of a redox flow battery. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 2145-2153	6.7	74
152	The preparation of PbO <sub>2</sub> coatings on reticulated vitreous carbon for the electro-oxidation of organic pollutants. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 5158-5165	6.7	73
151	The deposition of nanostructured PbO <sub>2</sub> coatings from aqueous methanesulfonic acid for the electrochemical oxidation of organic pollutants. <i>Electrochemistry Communications</i> , <b>2010</b> , 12, 70-74	5.1	68
150	Mass transport in the rectangular channel of a filter-press electrolyzer (the FM01-LC reactor). <i>AIChE Journal</i> , <b>2005</b> , 51, 682-687	3.6	67
149	Progress in electrochemical flow reactors for laboratory and pilot scale processing. <i>Electrochimica Acta</i> , <b>2018</b> , 280, 121-148	6.7	66
148	The Rotating Cylinder Electrode (RCE) and its Application to the Electrodeposition of Metals. <i>Australian Journal of Chemistry</i> , <b>2005</b> , 58, 246	1.2	65
147	3D-printed porous electrodes for advanced electrochemical flow reactors: A Ni/stainless steel electrode and its mass transport characteristics. <i>Electrochemistry Communications</i> , <b>2017</b> , 77, 133-137	5.1	64
146	Electrodeposition of polypyrrole/titanate nanotube composites coatings and their corrosion resistance. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 1323-1328	6.7	63
145	Versatile electrochemical coatings and surface layers from aqueous methanesulfonic acid. <i>Surface and Coatings Technology</i> , <b>2014</b> , 259, 676-697	4.4	62
144	Degradation of paracetamol by advance oxidation processes using modified reticulated vitreous carbon electrodes with TiO <sub>2</sub> and CuO/TiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> . <i>Chemosphere</i> , <b>2012</b> , 89, 1195-201	8.4	62
143	The reaction environment in a filter-press laboratory reactor: the FM01-LC flow cell. <i>Electrochimica Acta</i> , <b>2015</b> , 161, 436-452	6.7	61
142	The filter-press FM01-LC laboratory flow reactor and its applications. <i>Electrochimica Acta</i> , <b>2015</b> , 163, 338-354	6.7	60
141	The continued development of reticulated vitreous carbon as a versatile electrode material: Structure, properties and applications. <i>Electrochimica Acta</i> , <b>2016</b> , 215, 566-591	6.7	59
140	Redox flow batteries for energy storage: their promise, achievements and challenges. <i>Current Opinion in Electrochemistry</i> , <b>2019</b> , 16, 117-126	7.2	56
139	The oxidation of borohydride ion at titanate nanotube supported gold electrodes. <i>Electrochemistry Communications</i> , <b>2006</b> , 8, 1655-1660	5.1	55

138	The removal of Pb(II) from aqueous solutions using a reticulated vitreous carbon cathode cell: the influence of the electrolyte medium. <i>Electrochimica Acta</i> , <b>1996</b> , 41, 533-541	6.7	54
137	3D-Printing of Redox Flow Batteries for Energy Storage: A Rapid Prototype Laboratory Cell. <i>ECS Journal of Solid State Science and Technology</i> , <b>2015</b> , 4, P3080-P3085	2	53
136	Electrochemical degradation of RB-5 dye by anodic oxidation, electro-Fenton and by combining anodic oxidation-electro-Fenton in a filter-press flow cell. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 765, 179-187	4.1	52
135	The Development of Zn/Ce Hybrid Redox Flow Batteries for Energy Storage and Their Continuing Challenges. <i>ChemPlusChem</i> , <b>2015</b> , 80, 288-311	2.8	52
134	The characteristics and performance of hybrid redox flow batteries with zinc negative electrodes for energy storage. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 90, 992-1016	16.2	51
133	Effect of RVC porosity on the performance of PbO <sub>2</sub> composite coatings with titanate nanotubes for the electrochemical oxidation of azo dyes. <i>Electrochimica Acta</i> , <b>2016</b> , 204, 9-17	6.7	50
132	Electrodeposited conductive polymers for controlled drug release: polypyrrole. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 839-859	2.6	49
131	Strategies for the determination of the convective-diffusion limiting current from steady state linear sweep voltammetry. <i>Journal of Applied Electrochemistry</i> , <b>2007</b> , 37, 1261-1270	2.6	49
130	Electrochemically deposited polypyrrole films and their characterization. <i>Surface and Coatings Technology</i> , <b>2007</b> , 201, 6025-6034	4.4	46
129	Characterization of the reaction environment in a filter-press redox flow reactor. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 5815-5823	6.7	45
128	Pd/C alloy as an anode material for borohydride oxidation. <i>Journal of Power Sources</i> , <b>2014</b> , 269, 498-508	8.9	42
127	Mass transport and active area of porous Pt/Ti electrodes for the Zn-Ce redox flow battery determined from limiting current measurements. <i>Electrochimica Acta</i> , <b>2016</b> , 221, 154-166	6.7	39
126	Decolorization of Methyl Orange Dye at IrO <sub>2</sub> -SnO <sub>2</sub> -Sb <sub>2</sub> O <sub>5</sub> Coated Titanium Anodes. <i>Chemical Engineering and Technology</i> , <b>2013</b> , 36, 123-129	2	39
125	The influence of operational parameters on the performance of an undivided zinc/mercury flow battery. <i>Electrochimica Acta</i> , <b>2012</b> , 80, 7-14	6.7	38
124	The limiting current for reduction of ferricyanide ion at nickel: The importance of experimental conditions. <i>AIChE Journal</i> , <b>2008</b> , 54, 802-810	3.6	38
123	Electrochemical redox processes involving soluble cerium species. <i>Electrochimica Acta</i> , <b>2016</b> , 205, 226-247	4.7	38
122	A Rechargeable, Aqueous Iron Air Battery with Nanostructured Electrodes Capable of High Energy Density Operation. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A1148-A1157	3.9	36
121	. <i>IEEE Transactions on Transportation Electrification</i> , <b>2019</b> , 5, 879-889	7.6	36

120	A nanostructured bifunctional Pd/C gas-diffusion electrode for metal-air batteries. <i>Electrochimica Acta</i> , <b>2015</b> , 174, 508-515	6.7	34
119	The application of flow dispersion models to the FM01-LC laboratory filter-press reactor. <i>Electrochimica Acta</i> , <b>2006</b> , 52, 604-613	6.7	34
118	The effects of manifold flow on mass transport in electrochemical filter-press reactors. <i>AIChE Journal</i> , <b>2008</b> , 54, 811-823	3.6	33
117	Methodology to determine the heat capacity of lithium-ion cells. <i>Journal of Power Sources</i> , <b>2018</b> , 395, 369-378	8.9	31
116	Corrosion of the zinc negative electrode of zinc/berium hybrid redox flow batteries in methanesulfonic acid. <i>Journal of Applied Electrochemistry</i> , <b>2014</b> , 44, 1025-1035	2.6	30
115	Mass transfer to a nanostructured nickel electrodeposit of high surface area in a rectangular flow channel. <i>Electrochimica Acta</i> , <b>2013</b> , 90, 507-513	6.7	30
114	Three-dimensional porous metal electrodes: Fabrication, characterisation and use. <i>Current Opinion in Electrochemistry</i> , <b>2019</b> , 16, 1-9	7.2	30
113	Simulation of velocity profiles in a laboratory electrolyser using computational fluid dynamics. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 3437-3445	6.7	29
112	Extraction and separation of rare earth elements from hydrothermal metalliferous sediments. <i>Minerals Engineering</i> , <b>2018</b> , 118, 106-121	4.9	28
111	Electrochemical deposition of silver and gold from cyanide leaching solutions. <i>Hydrometallurgy</i> , <b>2002</b> , 65, 187-203	4	28
110	Review of current progress in non-aqueous aluminium batteries. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 133, 110100	16.2	28
109	Pressure drop through platinized titanium porous electrodes for cerium-based redox flow batteries. <i>AIChE Journal</i> , <b>2018</b> , 64, 1135-1146	3.6	27
108	Developments in plane parallel flow channel cells. <i>Current Opinion in Electrochemistry</i> , <b>2019</b> , 16, 10-18	7.2	26
107	Developments in electrode design: structure, decoration and applications of electrodes for electrochemical technology. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2018</b> , 93, 3073-3090	3.5	26
106	Simulation of current distribution along a planar electrode under turbulent flow conditions in a laboratory filter-press flow cell. <i>Electrochimica Acta</i> , <b>2015</b> , 154, 352-360	6.7	25
105	The use of electrolyte redox potential to monitor the Ce(IV)/Ce(III) couple. <i>Journal of Environmental Management</i> , <b>2008</b> , 88, 1417-25	7.9	25
104	Editors' Choice Electrodeposition of Platinum on Titanium Felt in a Rectangular Channel Flow Cell. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, D57-D66	3.9	24
103	A comparison of the electrochemical recovery of palladium using a parallel flat plate flow-by reactor and a rotating cylinder electrode reactor. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 9357-9363	6.7	24

102	Improvements in direct borohydride fuel cells using three-dimensional electrodes. <i>Catalysis Today</i> , <b>2011</b> , 170, 148-154	5.3	24
101	Computational fluid dynamics simulations of single-phase flow in a filter-press flow reactor having a stack of three cells. <i>Electrochimica Acta</i> , <b>2016</b> , 216, 490-498	6.7	24
100	Boron-Doped Diamond Electrocatalyst for Enhanced Anodic H <sub>2</sub> O <sub>2</sub> Production. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 3169-3173	6.1	23
99	Rechargeable Multi-Valent Metal-Air Batteries. <i>Johnson Matthey Technology Review</i> , <b>2018</b> , 62, 134-149	2.5	23
98	The Importance of Cell Geometry and Electrolyte Properties to the Cell Potential of Zn-Ce Hybrid Flow Batteries. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A5170-A5179	3.9	23
97	Review The Design, Performance and Continuing Development of Electrochemical Reactors for Clean Electrosynthesis. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 1555-1565	3.9	23
96	Copper and Antimony Recovery from Electronic Waste by Hydrometallurgical and Electrochemical Techniques. <i>ACS Omega</i> , <b>2020</b> , 5, 12355-12363	3.9	22
95	Perspective State of the Art of Rechargeable Aluminum Batteries in Non-Aqueous Systems. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A3499-A3502	3.9	22
94	Recent Advances in Electrochemical Water Oxidation to Produce Hydrogen Peroxide: A Mechanistic Perspective. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 76-91	8.3	22
93	CFD evaluation of internal manifold effects on mass transport distribution in a laboratory filter-press flow cell. <i>Journal of Applied Electrochemistry</i> , <b>2013</b> , 43, 453-465	2.6	21
92	Electrochemical recovery of silver from cyanide leaching solutions. <i>Journal of Applied Electrochemistry</i> , <b>2002</b> , 32, 473-479	2.6	21
91	Critical Review The Versatile Plane Parallel Electrode Geometry: An Illustrated Review. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 023504	3.9	20
90	Characterisation of a re-cast composite Nafion <sup>®</sup> 1100 series of proton exchange membranes incorporating inert inorganic oxide particles. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 6818-6829	6.7	20
89	The Ionic Conductivity of a Nafion <sup>®</sup> 1100 Series of Proton-exchange Membranes Re-cast from Butan-1-ol and Propan-2-ol. <i>Fuel Cells</i> , <b>2010</b> , 10, 567-574	2.9	20
88	A high-performance, bifunctional oxygen electrode catalysed with palladium and nickel-iron hexacyanoferrate. <i>Electrochimica Acta</i> , <b>2016</b> , 206, 127-133	6.7	20
87	New Insights into the Electrochemical Formation of Magnetite Nanoparticles. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, D184-D191	3.9	19
86	Photoelectrocatalytic Oxidation of Methyl Orange on a TiO <sub>2</sub> Nanotubular Anode Using a Flow Cell. <i>Chemical Engineering and Technology</i> , <b>2016</b> , 39, 135-141	2	19
85	Decolourisation of reactive black-5 at an RVC substrate decorated with PbO <sub>2</sub> /TiO <sub>2</sub> nanosheets prepared by anodic electrodeposition. <i>Journal of Solid State Electrochemistry</i> , <b>2018</b> , 22, 2889-2900	2.6	19

84	Removal of methylene blue from aqueous solutions using an Fe <sup>2+</sup> catalyst and in-situ H <sub>2</sub> O <sub>2</sub> generated at gas diffusion cathodes. <i>Electrochimica Acta</i> , <b>2019</b> , 308, 45-53	6.7	18
83	Understanding the charge storage mechanism of conductive polymers as hybrid battery-capacitor materials in ionic liquids by in situ atomic force microscopy and electrochemical quartz crystal microbalance studies. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 17787-17799	13	18
82	Preparation and characterization of a rechargeable battery based on poly-(3,4-ethylenedioxythiophene) and aluminum in ionic liquids. <i>Journal of Solid State Electrochemistry</i> , <b>2017</b> , 21, 3237-3246	2.6	18
81	Prediction of mass transport profiles in a laboratory filter-press electrolyser by computational fluid dynamics modelling. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 3446-3453	6.7	18
80	Developments on carbon dioxide reduction: Their promise, achievements, and challenges. <i>Current Opinion in Electrochemistry</i> , <b>2020</b> , 20, 88-98	7.2	18
79	Multihierarchical electrodes based on titanate nanotubes and zinc oxide nanorods for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 944-952	13	17
78	Effective Hydrogen Peroxide Production from Electrochemical Water Oxidation. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2369-2377	20.1	17
77	The formation of nanostructured surfaces by electrochemical techniques: a range of emerging surface finishes. Part 2: examples of nanostructured surfaces by plating and anodising with their applications. <i>Transactions of the Institute of Metal Finishing</i> , <b>2015</b> , 93, 241-247	1.3	16
76	A gold-coated titanium oxide nanotube array for the oxidation of borohydride ions. <i>Electrochemistry Communications</i> , <b>2012</b> , 22, 166-169	5.1	16
75	Mass Transport and Flow Dispersion in the Compartments of a Modular 10 Cell Filter-Press Stack. <i>Australian Journal of Chemistry</i> , <b>2008</b> , 61, 797	1.2	16
74	Effectiveness factors in an electrochemical reactor with rotating cylinder electrode for the acid-cupric/copper cathode interface process. <i>Chemical Engineering Science</i> , <b>2001</b> , 56, 2695-2702	4.4	16
73	The corrosion behaviour of nanograined metals and alloys. <i>Revista De Metalurgia</i> , <b>2012</b> , 48, 377-394	0.4	16
72	The effect of surfactants on the kinetics of borohydride oxidation and hydrolysis in the DBFC. <i>Electrochimica Acta</i> , <b>2014</b> , 133, 539-545	6.7	15
71	Polymers with intrinsic microporosity (PIMs) for targeted CO reduction to ethylene. <i>Chemosphere</i> , <b>2020</b> , 248, 125993	8.4	14
70	X-ray computed micro-tomography of reticulated vitreous carbon. <i>Carbon</i> , <b>2018</b> , 135, 85-94	10.4	14
69	Aluminium-poly(3,4-ethylenedioxythiophene) rechargeable battery with ionic liquid electrolyte. <i>Journal of Energy Storage</i> , <b>2020</b> , 28, 101176	7.8	14
68	Electro-polymerisation and characterisation of PEDOT in Lewis basic, neutral and acidic EMImCl-AlCl <sub>3</sub> ionic liquid. <i>Electrochimica Acta</i> , <b>2018</b> , 263, 176-183	6.7	13
67	Characterisation of platinum electrodeposits on a titanium micromesh stack in a rectangular channel flow cell. <i>Electrochimica Acta</i> , <b>2017</b> , 247, 994-1005	6.7	13

66	The application of reticulated vitreous carbon rotating cylinder electrodes to the removal of cadmium and copper ions from solution. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2004</b> , 79, 946-953	3.5	13
65	Platinum-free lead dioxide electrode for electrooxidation of organic compounds. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 1167-1173	2.6	13
64	Monitoring of zincate pre-treatment of aluminium prior to electroless nickel plating. <i>Transactions of the Institute of Metal Finishing</i> , <b>2017</b> , 95, 97-105	1.3	12
63	Copper deposition at segmented, reticulated vitreous carbon cathode in Hull cell. <i>Transactions of the Institute of Metal Finishing</i> , <b>2010</b> , 88, 84-92	1.3	12
62	A new procedure for the template synthesis of metal nanowires. <i>Electrochemistry Communications</i> , <b>2018</b> , 87, 58-62	5.1	12
61	Simulations of fluid flow, mass transport and current distribution in a parallel plate flow cell during nickel electrodeposition. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 873, 114359	4.1	11
60	Mass-Transfer Measurements at Porous 3D Pt-Ir/Ti Electrodes in a Direct Borohydride Fuel Cell. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, F198-F206	3.9	11
59	The formation of nanostructured surfaces by electrochemical techniques: a range of emerging surface finishes [Part 1: achieving nanostructured surfaces by electrochemical techniques. <i>Transactions of the Institute of Metal Finishing</i> , <b>2015</b> , 93, 209-224	1.3	11
58	Determination of the effective thickness of a porous electrode in a flow-through reactor; effect of the specific surface area of stainless steel fibres, used as a porous cathode, during the deposition of Ag(I) ions. <i>Hydrometallurgy</i> , <b>2008</b> , 91, 98-103	4	11
57	The electrochemical reduction of Cr(VI) ions in acid solution at titanium and graphite electrodes. <i>Journal of Environmental Chemical Engineering</i> , <b>2016</b> , 4, 3610-3617	6.8	11
56	Improving the stability and discharge capacity of nanostructured Fe <sub>2</sub> O <sub>3</sub> /C anodes for iron-air batteries and investigation of 1-octanethiol as an electrolyte additive. <i>Electrochimica Acta</i> , <b>2019</b> , 318, 625-634	6.7	10
55	Electrochemical Degradation of Reactive Blue 19 Dye by Combining Boron-Doped Diamond and Reticulated Vitreous Carbon Electrodes. <i>ChemElectroChem</i> , <b>2019</b> , 6, 3516-3524	4.3	10
54	The reduction of hydrogen peroxide at an Au-coated nanotubular TiO <sub>2</sub> array. <i>Journal of Applied Electrochemistry</i> , <b>2014</b> , 44, 169-177	2.6	10
53	Enhanced mass transport to a reticulated vitreous carbon rotating cylinder electrode using jet flow. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 2728-2736	6.7	10
52	On the determination of limiting current density from uncertain data. <i>Journal of Applied Electrochemistry</i> , <b>2000</b> , 30, 1087-1090	2.6	10
51	Zinc-based flow batteries for medium- and large-scale energy storage <b>2015</b> , 293-315		9
50	Mathematical modelling of direct borohydride fuel cells. <i>Journal of Power Sources</i> , <b>2013</b> , 221, 157-171	8.9	9
49	The use of a rotating cylinder electrode to selective recover palladium from acid solutions used to manufacture automotive catalytic converters. <i>Journal of Applied Electrochemistry</i> , <b>2011</b> , 41, 89-97	2.6	9



48	Anion influence in lead removal from aqueous solution by deposition onto a vitreous carbon electrode. <i>Electrochimica Acta</i> , <b>1999</b> , 44, 2633-2643	6.7	9
47	The importance of the film structure during self-powered ibuprofen salicylate drug release from polypyrrole electrodeposited on AZ31 Mg. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 3375-3382	2.6	9
46	Full factorial design applied to the synthesis of PdAg nanobars by the polyol method and the perspective for ethanol oxidation. <i>RSC Advances</i> , <b>2014</b> , 4, 16632-16640	3.7	8
45	Copper deposition and dissolution in mixed chloride-sulphate acidic electrolytes: cyclic voltammetry at static disc electrode. <i>Transactions of the Institute of Metal Finishing</i> , <b>2015</b> , 93, 74-81	1.3	8
44	Electrodeposition of copper from mixed sulphate-chloride acidic electrolytes at a rotating disc electrode. <i>Transactions of the Institute of Metal Finishing</i> , <b>2014</b> , 92, 282-288	1.3	8
43	Lead deposition onto fractured vitreous carbon: influence of electrochemical pretreated electrode. <i>Applied Surface Science</i> , <b>2000</b> , 153, 245-258	6.7	8
42	Electrodeposition of platinum on 3D-printed titanium mesh to produce tailored, high area anodes. <i>Transactions of the Institute of Metal Finishing</i> , <b>2020</b> , 98, 48-52	1.3	8
41	Photocatalytic degradation of methylene blue dye on reticulated vitreous carbon decorated with electrophoretically deposited TiO <sub>2</sub> nanotubes. <i>Diamond and Related Materials</i> , <b>2020</b> , 109, 108001	3.5	8
40	A nonaqueous organic redox flow battery using multi-electron quinone molecules. <i>Journal of Power Sources</i> , <b>2021</b> , 500, 229942	8.9	8
39	Current distribution in a rectangular flow channel manufactured by 3-D printing. <i>AIChE Journal</i> , <b>2017</b> , 63, 1144-1151	3.6	7
38	SECONDARY BATTERIES ZINC SYSTEMS   Zinc-Bromine <b>2009</b> , 487-496		7
37	Research and Development Techniques 1: Potentiodynamic Studies of Copper Metal Deposition. <i>Transactions of the Institute of Metal Finishing</i> , <b>2003</b> , 81, B95-B100	1.3	7
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13	Dynamic charging algorithm for energy storage devices at high rate EV chargers for integration of solar energy. <i>Energy Procedia</i> , <b>2018</b> , 151, 2-6	2.3	2

12	The influence of iodate ion additions to the bath on the deposition of electroless nickel on mild steel. <i>Transactions of the Institute of Metal Finishing</i> , <b>2018</b> , 96, 275-284	1.3	2
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