

Carlos Ponce de Leon

List of Publications by Year in descending order

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176
papers

10,109
citations

41258

49
h-index

39575

94
g-index

181
all docs

181
docs citations

181
times ranked

7840
citing authors

#	ARTICLE	IF	CITATIONS
1	Redox flow cells for energy conversion. <i>Journal of Power Sources</i> , 2006, 160, 716-732.	4.0	991
2	Progress in redox flow batteries, remaining challenges and their applications in energy storage. <i>RSC Advances</i> , 2012, 2, 10125.	1.7	778
3	Electrochemical synthesis of hydrogen peroxide from water and oxygen. <i>Nature Reviews Chemistry</i> , 2019, 3, 442-458.	13.8	544
4	Recent developments in organic redox flow batteries: A critical review. <i>Journal of Power Sources</i> , 2017, 360, 243-283.	4.0	396
5	Developments in electrode materials and electrolytes for aluminium-air batteries. <i>Journal of Power Sources</i> , 2013, 236, 293-310.	4.0	364
6	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> , 2014, 92, 83-98.	0.6	300
7	Engineering aspects of the design, construction and performance of modular redox flow batteries for energy storage. <i>Journal of Energy Storage</i> , 2017, 11, 119-153.	3.9	229
8	Direct borohydride fuel cells. <i>Journal of Power Sources</i> , 2006, 155, 172-181.	4.0	227
9	Characterization of a zinc-cerium flow battery. <i>Journal of Power Sources</i> , 2011, 196, 5174-5185.	4.0	201
10	A Review of the Iron-Air Secondary Battery for Energy Storage. <i>ChemPlusChem</i> , 2015, 80, 323-335.	1.3	178
11	Graphite felt as a versatile electrode material: Properties, reaction environment, performance and applications. <i>Electrochimica Acta</i> , 2017, 258, 1115-1139.	2.6	171
12	Developments in direct borohydride fuel cells and remaining challenges. <i>Journal of Power Sources</i> , 2012, 219, 339-357.	4.0	160
13	A direct borohydride-Acid peroxide fuel cell. <i>Journal of Power Sources</i> , 2007, 164, 441-448.	4.0	137
14	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> , 2011, 56, 6536-6546.	2.6	125
15	Redox flow batteries for energy storage: their promise, achievements and challenges. <i>Current Opinion in Electrochemistry</i> , 2019, 16, 117-126.	2.5	117
16	Electrochemical characterisation of the porosity and corrosion resistance of electrochemically deposited metal coatings. <i>Surface and Coatings Technology</i> , 2008, 202, 5092-5102.	2.2	103
17	The characterisation of PbO ₂ -coated electrodes prepared from aqueous methanesulfonic acid under controlled deposition conditions. <i>Electrochimica Acta</i> , 2010, 55, 2163-2172.	2.6	99
18	Highlights during the development of electrochemical engineering. <i>Chemical Engineering Research and Design</i> , 2013, 91, 1998-2020.	2.7	97

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19	Progress in electrochemical flow reactors for laboratory and pilot scale processing. <i>Electrochimica Acta</i> , 2018, 280, 121-148.	2.6	97
20	Removal of formaldehyde from aqueous solutions via oxygen reduction using a reticulated vitreous carbon cathode cell. <i>Journal of Applied Electrochemistry</i> , 1995, 25, 307-314.	1.5	95
21	An undivided zinc-cerium redox flow battery operating at room temperature (295 K). <i>Electrochemistry Communications</i> , 2011, 13, 770-773.	2.3	95
22	3D-printed porous electrodes for advanced electrochemical flow reactors: A Ni/stainless steel electrode and its mass transport characteristics. <i>Electrochemistry Communications</i> , 2017, 77, 133-137.	2.3	93
23	The preparation of PbO ₂ coatings on reticulated vitreous carbon for the electro-oxidation of organic pollutants. <i>Electrochimica Acta</i> , 2011, 56, 5158-5165.	2.6	87
24	Versatile electrochemical coatings and surface layers from aqueous methanesulfonic acid. <i>Surface and Coatings Technology</i> , 2014, 259, 676-697.	2.2	85
25	Ce(III)/Ce(IV) in methanesulfonic acid as the positive half cell of a redox flow battery. <i>Electrochimica Acta</i> , 2011, 56, 2145-2153.	2.6	82
26	The filter-press FM01-LC laboratory flow reactor and its applications. <i>Electrochimica Acta</i> , 2015, 163, 338-354.	2.6	82
27	A direct borohydride-peroxide fuel cell using a Pd/Ir alloy coated microfibrinous carbon cathode. <i>Electrochemistry Communications</i> , 2008, 10, 1610-1613.	2.3	81
28	Mass transport in the rectangular channel of a filter-press electrolyzer (the FM01-LC reactor). <i>AIChE Journal</i> , 2005, 51, 682-687.	1.8	79
29	The Rotating Cylinder Electrode (RCE) and its Application to the Electrodeposition of Metals. <i>Australian Journal of Chemistry</i> , 2005, 58, 246.	0.5	79
30	The continued development of reticulated vitreous carbon as a versatile electrode material: Structure, properties and applications. <i>Electrochimica Acta</i> , 2016, 215, 566-591.	2.6	78
31	The deposition of nanostructured PbO_2 coatings from aqueous methanesulfonic acid for the electrochemical oxidation of organic pollutants. <i>Electrochemistry Communications</i> , 2010, 12, 70-74.	2.3	77
32	The characteristics and performance of hybrid redox flow batteries with zinc negative electrodes for energy storage. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 90, 992-1016.	8.2	77
33	Degradation of paracetamol by advance oxidation processes using modified reticulated vitreous carbon electrodes with TiO ₂ and CuO/TiO ₂ /Al ₂ O ₃ . <i>Chemosphere</i> , 2012, 89, 1195-1201.	4.2	74
34	The reaction environment in a filter-press laboratory reactor: the FM01-LC flow cell. <i>Electrochimica Acta</i> , 2015, 161, 436-452.	2.6	74
35	The Development of Zn-Ce Hybrid Redox Flow Batteries for Energy Storage and Their Continuing Challenges. <i>ChemPlusChem</i> , 2015, 80, 288-311.	1.3	69
36	Electrodeposition of polypyrrole-titanate nanotube composites coatings and their corrosion resistance. <i>Electrochimica Acta</i> , 2011, 56, 1323-1328.	2.6	68

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37	Electrochemical degradation of RB-5 dye by anodic oxidation, electro-Fenton and by combining anodic oxidation with electro-Fenton in a filter-press flow cell. <i>Journal of Electroanalytical Chemistry</i> , 2016, 765, 179-187.	1.9	67
38	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> , 1996, 41, 533-541.	2.6	66
39	3D-Printing of Redox Flow Batteries for Energy Storage: A Rapid Prototype Laboratory Cell. <i>ECS Journal of Solid State Science and Technology</i> , 2015, 4, P3080-P3085.	0.9	66
40	Electrodeposited conductive polymers for controlled drug release: polypyrrole. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 839-859.	1.2	63
41	Review—The Design, Performance and Continuing Development of Electrochemical Reactors for Clean Electrosynthesis. <i>Journal of the Electrochemical Society</i> , 2020, 167, 155525.	1.3	62
42	Effective Hydrogen Peroxide Production from Electrochemical Water Oxidation. <i>ACS Energy Letters</i> , 2021, 6, 2369-2377.	8.8	60
43	Rating a Stationary Energy Storage System Within a Fast Electric Vehicle Charging Station Considering User Waiting Times. <i>IEEE Transactions on Transportation Electrification</i> , 2019, 5, 879-889.	5.3	59
44	Recent Advances in Electrochemical Water Oxidation to Produce Hydrogen Peroxide: A Mechanistic Perspective. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 76-91.	3.2	59
45	The oxidation of borohydride ion at titanate nanotube supported gold electrodes. <i>Electrochemistry Communications</i> , 2006, 8, 1655-1660.	2.3	58
46	Effect of RVC porosity on the performance of PbO ₂ composite coatings with titanate nanotubes for the electrochemical oxidation of azo dyes. <i>Electrochimica Acta</i> , 2016, 204, 9-17.	2.6	58
47	Methodology to determine the heat capacity of lithium-ion cells. <i>Journal of Power Sources</i> , 2018, 395, 369-378.	4.0	57
48	Review of current progress in non-aqueous aluminium batteries. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 133, 110100.	8.2	57
49	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> , 2016, 221, 154-166.	2.6	56
50	Boron-Doped Diamond Electrocatalyst for Enhanced Anodic H ₂ O ₂ Production. <i>ACS Applied Energy Materials</i> , 2020, 3, 3169-3173.	2.5	54
51	Strategies for the determination of the convective-diffusion limiting current from steady state linear sweep voltammetry. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 1261-1270.	1.5	53
52	Electrochemical redox processes involving soluble cerium species. <i>Electrochimica Acta</i> , 2016, 205, 226-247.	2.6	51
53	Electrochemically deposited polypyrrole films and their characterization. <i>Surface and Coatings Technology</i> , 2007, 201, 6025-6034.	2.2	50
54	Three-dimensional porous metal electrodes: Fabrication, characterisation and use. <i>Current Opinion in Electrochemistry</i> , 2019, 16, 1-9.	2.5	50

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55	The limiting current for reduction of ferricyanide ion at nickel: The importance of experimental conditions. <i>AICHE Journal</i> , 2008, 54, 802-810.	1.8	48
56	Characterization of the reaction environment in a filter-press redox flow reactor. <i>Electrochimica Acta</i> , 2007, 52, 5815-5823.	2.6	47
57	Copper and Antimony Recovery from Electronic Waste by Hydrometallurgical and Electrochemical Techniques. <i>ACS Omega</i> , 2020, 5, 12355-12363.	1.6	46
58	Pd-Ir alloy as an anode material for borohydride oxidation. <i>Journal of Power Sources</i> , 2014, 269, 498-508.	4.0	45
59	Developments on carbon dioxide reduction: Their promise, achievements, and challenges. <i>Current Opinion in Electrochemistry</i> , 2020, 20, 88-98.	2.5	44
60	The application of flow dispersion models to the FM01-LC laboratory filter-press reactor. <i>Electrochimica Acta</i> , 2006, 52, 604-613.	2.6	43
61	A Rechargeable, Aqueous Iron Air Battery with Nanostructured Electrodes Capable of High Energy Density Operation. <i>Journal of the Electrochemical Society</i> , 2017, 164, A1148-A1157.	1.3	43
62	A nonaqueous organic redox flow battery using multi-electron quinone molecules. <i>Journal of Power Sources</i> , 2021, 500, 229942.	4.0	42
63	The influence of operational parameters on the performance of an undivided zinc-cerium flow battery. <i>Electrochimica Acta</i> , 2012, 80, 7-14.	2.6	41
64	Decolorization of Methyl Orange Dye at $\text{IrO}_2/\text{SnO}_2/\text{SnO}_2/\text{SnO}_2/\text{O}_5$ Coated Titanium Anodes. <i>Chemical Engineering and Technology</i> , 2013, 36, 123-129.	0.9	41
65	A nanostructured bifunctional Pd/C gas-diffusion electrode for metal-air batteries. <i>Electrochimica Acta</i> , 2015, 174, 508-515.	2.6	41
66	Critical Review "The Versatile Plane Parallel Electrode Geometry: An Illustrated Review. <i>Journal of the Electrochemical Society</i> , 2020, 167, 023504.	1.3	41
67	The effects of manifold flow on mass transport in electrochemical filter-press reactors. <i>AICHE Journal</i> , 2008, 54, 811-823.	1.8	39
68	Extraction and separation of rare earth elements from hydrothermal metalliferous sediments. <i>Minerals Engineering</i> , 2018, 118, 106-121.	1.8	39
69	Corrosion of the zinc negative electrode of zinc-cerium hybrid redox flow batteries in methanesulfonic acid. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 1025-1035.	1.5	37
70	Developments in electrode design: structure, decoration and applications of electrodes for electrochemical technology. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 3073-3090.	1.6	37
71	Computational fluid dynamics simulations of single-phase flow in a filter-press flow reactor having a stack of three cells. <i>Electrochimica Acta</i> , 2016, 216, 490-498.	2.6	36
72	Pressure drop through platinumized titanium porous electrodes for cerium-based redox flow batteries. <i>AICHE Journal</i> , 2018, 64, 1135-1146.	1.8	36

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73	Electrochemical deposition of silver and gold from cyanide leaching solutions. <i>Hydrometallurgy</i> , 2002, 65, 187-203.	1.8	35
74	Mass transfer to a nanostructured nickel electrodeposit of high surface area in a rectangular flow channel. <i>Electrochimica Acta</i> , 2013, 90, 507-513.	2.6	35
75	Simulation of velocity profiles in a laboratory electrolyser using computational fluid dynamics. <i>Electrochimica Acta</i> , 2010, 55, 3437-3445.	2.6	33
76	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> , 2016, 163, A5170-A5179.	1.3	33
77	Developments in plane parallel flow channel cells. <i>Current Opinion in Electrochemistry</i> , 2019, 16, 10-18.	2.5	32
78	The use of electrolyte redox potential to monitor the Ce(IV)/Ce(III) couple. <i>Journal of Environmental Management</i> , 2008, 88, 1417-1425.	3.8	31
79	Rechargeable Multi-Valent Metal-Air Batteries. <i>Johnson Matthey Technology Review</i> , 2018, 62, 134-149.	0.5	31
80	Reviewâ€”Progress in Electrolytes for Rechargeable Aluminium Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 056509.	1.3	31
81	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> , 2011, 56, 9357-9363.	2.6	30
82	Simulation of current distribution along a planar electrode under turbulent flow conditions in a laboratory filter-press flow cell. <i>Electrochimica Acta</i> , 2015, 154, 352-360.	2.6	30
83	Polymers with intrinsic microporosity (PIMs) for targeted CO ₂ reduction to ethylene. <i>Chemosphere</i> , 2020, 248, 125993.	4.2	30
84	Photoelectrocatalytic Oxidation of Methyl Orange on a TiO ₂ Nanotubular Anode Using a Flow Cell. <i>Chemical Engineering and Technology</i> , 2016, 39, 135-141.	0.9	29
85	Perspectiveâ€”State of the Art of Rechargeable Aluminum Batteries in Non-Aqueous Systems. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3499-A3502.	1.3	29
86	Editors' Choiceâ€”Electrodeposition of Platinum on Titanium Felt in a Rectangular Channel Flow Cell. <i>Journal of the Electrochemical Society</i> , 2017, 164, D57-D66.	1.3	28
87	Understanding the charge storage mechanism of conductive polymers as hybrid battery-capacitor materials in ionic liquids by <i>in situ</i> atomic force microscopy and electrochemical quartz crystal microbalance studies. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17787-17799.	5.2	28
88	Removal of methylene blue from aqueous solutions using an Fe ²⁺ catalyst and in-situ H ₂ O ₂ generated at gas diffusion cathodes. <i>Electrochimica Acta</i> , 2019, 308, 45-53.	2.6	28
89	Improvements in direct borohydride fuel cells using three-dimensional electrodes. <i>Catalysis Today</i> , 2011, 170, 148-154.	2.2	27
90	Electrochemical recovery of silver from cyanide leaching solutions. <i>Journal of Applied Electrochemistry</i> , 2002, 32, 473-479.	1.5	26

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91	New Insights into the Electrochemical Formation of Magnetite Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2017, 164, D184-D191.	1.3	26
92	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> , 2017, 21, 3237-3246.	1.2	26
93	Characterisation of a re-cast composite Nafion® 1100 series of proton exchange membranes incorporating inert inorganic oxide particles. <i>Electrochimica Acta</i> , 2010, 55, 6818-6829.	2.6	25
94	A high-performance, bifunctional oxygen electrode catalysed with palladium and nickel-iron hexacyanoferrate. <i>Electrochimica Acta</i> , 2016, 206, 127-133.	2.6	25
95	Anodic production of hydrogen peroxide using commercial carbon materials. <i>Applied Catalysis B: Environmental</i> , 2022, 303, 120848.	10.8	25
96	The Ionic Conductivity of a Nafion® 1100 Series of Proton-exchange Membranes Re-cast from Butanol and Propanol. <i>Fuel Cells</i> , 2010, 10, 567-574.	1.5	24
97	Aluminium-poly(3,4-ethylenedioxythiophene) rechargeable battery with ionic liquid electrolyte. <i>Journal of Energy Storage</i> , 2020, 28, 101176.	3.9	24
98	Simulations of fluid flow, mass transport and current distribution in a parallel plate flow cell during nickel electrodeposition. <i>Journal of Electroanalytical Chemistry</i> , 2020, 873, 114359.	1.9	24
99	CFD evaluation of internal manifold effects on mass transport distribution in a laboratory filter-press flow cell. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 453-465.	1.5	23
100	Decolourisation of reactive black-5 at an RVC substrate decorated with PbO ₂ /TiO ₂ nanosheets prepared by anodic electrodeposition. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2889-2900.	1.2	23
101	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> , 2015, 93, 241-247.	0.6	21
102	Electro-polymerisation and characterisation of PEDOT in Lewis basic, neutral and acidic EMImCl-AlCl ₃ ionic liquid. <i>Electrochimica Acta</i> , 2018, 263, 176-183.	2.6	21
103	In situ anodic generation of hydrogen peroxide. <i>Nature Catalysis</i> , 2020, 3, 96-97.	16.1	21
104	Effectiveness factors in an electrochemical reactor with rotating cylinder electrode for the acid-cupric/copper cathode interface process. <i>Chemical Engineering Science</i> , 2001, 56, 2695-2702.	1.9	20
105	Current Progress and Future Perspectives of Electrolytes for Rechargeable Aluminum-ion Batteries. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	20
106	Multihierarchical electrodes based on titanate nanotubes and zinc oxide nanorods for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 944-952.	5.2	19
107	Effect of airbrush type on sprayed platinum and platinum-cobalt catalyst inks: Benchmarking as PEMFC and performance in an electrochemical hydrogen pump. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 27392-27403.	3.8	19
108	Mass Transport and Flow Dispersion in the Compartments of a Modular 10 Cell Filter-Press Stack. <i>Australian Journal of Chemistry</i> , 2008, 61, 797.	0.5	18

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109	Prediction of mass transport profiles in a laboratory filter-press electrolyser by computational fluid dynamics modelling. <i>Electrochimica Acta</i> , 2010, 55, 3446-3453.	2.6	18
110	A gold-coated titanium oxide nanotube array for the oxidation of borohydride ions. <i>Electrochemistry Communications</i> , 2012, 22, 166-169.	2.3	18
111	Future perspectives for the advancement of electrochemical hydrogen peroxide production. <i>Current Opinion in Electrochemistry</i> , 2021, 30, 100792.	2.5	18
112	Carbonate-Induced Electrosynthesis of Hydrogen Peroxide via Two-Electron Water Oxidation. <i>ChemSusChem</i> , 2022, 15, .	3.6	18
113	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> , 2008, 91, 98-103.	1.8	17
114	Copper deposition at segmented, reticulated vitreous carbon cathode in Hull cell. <i>Transactions of the Institute of Metal Finishing</i> , 2010, 88, 84-92.	0.6	17
115	Mass-Transfer Measurements at Porous 3D Pt-Ir/Ti Electrodes in a Direct Borohydride Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2018, 165, F198-F206.	1.3	17
116	Modelling and simulation of H ₂ -H ₂ O bubbly flow through a stack of three cells in a pre-pilot filter press electrocoagulation reactor. <i>Separation and Purification Technology</i> , 2021, 261, 118235.	3.9	17
117	The corrosion behaviour of nanograined metals and alloys. <i>Revista De Metalurgia</i> , 2012, 48, 377-394.	0.1	17
118	Characterisation of platinum electrodeposits on a titanium micromesh stack in a rectangular channel flow cell. <i>Electrochimica Acta</i> , 2017, 247, 994-1005.	2.6	16
119	X-ray computed micro-tomography of reticulated vitreous carbon. <i>Carbon</i> , 2018, 135, 85-94.	5.4	16
120	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> , 2004, 79, 946-953.	1.6	15
121	The effect of surfactants on the kinetics of borohydride oxidation and hydrolysis in the DBFC. <i>Electrochimica Acta</i> , 2014, 133, 539-545.	2.6	15
122	Platinum-free lead dioxide electrode for electrooxidation of organic compounds. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1167-1173.	1.2	15
123	The electrochemical reduction of Cr(VI) ions in acid solution at titanium and graphite electrodes. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 3610-3617.	3.3	15
124	Monitoring of zincate pre-treatment of aluminium prior to electroless nickel plating. <i>Transactions of the Institute of Metal Finishing</i> , 2017, 95, 97-105.	0.6	15
125	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> , 2015, 93, 74-81.	0.6	14
126	Improving the stability and discharge capacity of nanostructured Fe ₂ O ₃ /C anodes for iron-air batteries and investigation of 1-octanethiol as an electrolyte additive. <i>Electrochimica Acta</i> , 2019, 318, 625-634.	2.6	14

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127	Aluminium Deposition in EMImCl-AlCl ₃ Ionic Liquid and Ionogel for Improved Aluminium Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 040516.	1.3	14
128	Pressure drop analysis on the positive half-cell of a cerium redox flow battery using computational fluid dynamics: Mathematical and modelling aspects of porous media. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 399-409.	2.3	14
129	Anion influence in lead removal from aqueous solution by deposition onto a vitreous carbon electrode. <i>Electrochimica Acta</i> , 1999, 44, 2633-2643.	2.6	13
130	On the determination of limiting current density from uncertain data. <i>Journal of Applied Electrochemistry</i> , 2000, 30, 1087-1090.	1.5	13
131	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> , 2015, 93, 209-224.	0.6	13
132	A new procedure for the template synthesis of metal nanowires. <i>Electrochemistry Communications</i> , 2018, 87, 58-62.	2.3	13
133	Electrodeposition of platinum on 3D-printed titanium mesh to produce tailored, high area anodes. <i>Transactions of the Institute of Metal Finishing</i> , 2020, 98, 48-52.	0.6	13
134	A computational chemistry approach to modelling conducting polymers in ionic liquids for next generation batteries. <i>Energy Reports</i> , 2020, 6, 198-208.	2.5	13
135	Lead deposition onto fractured vitreous carbon: influence of electrochemical pretreated electrode. <i>Applied Surface Science</i> , 2000, 153, 245-258.	3.1	12
136	SECONDARY BATTERIES – ZINC SYSTEMS Zinc–Bromine. , 2009, , 487-496.		12
137	Zinc-based flow batteries for medium- and large-scale energy storage. , 2015, , 293-315.		12
138	Enhanced mass transport to a reticulated vitreous carbon rotating cylinder electrode using jet flow. <i>Electrochimica Acta</i> , 2006, 51, 2728-2736.	2.6	11
139	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> , 2011, 41, 89-97.	1.5	11
140	Electro-polymerisation of 3,4-ethylenedioxythiophene on reticulated vitreous carbon in imidazolium-based chloroaluminate ionic liquid as energy storage material. <i>Electrochemistry Communications</i> , 2018, 89, 52-56.	2.3	11
141	Electrochemical Degradation of Reactive Blue 19 Dye by Combining Boron-Doped Diamond and Reticulated Vitreous Carbon Electrodes. <i>ChemElectroChem</i> , 2019, 6, 3516-3524.	1.7	11
142	Photocatalytic degradation of methylene blue dye on reticulated vitreous carbon decorated with electrophoretically deposited TiO ₂ nanotubes. <i>Diamond and Related Materials</i> , 2020, 109, 108001.	1.8	11
143	Research and Development Techniques 1: Potentiodynamic Studies of Copper Metal Deposition. <i>Transactions of the Institute of Metal Finishing</i> , 2003, 81, B95-B100.	0.6	10
144	Mathematical modelling of direct borohydride fuel cells. <i>Journal of Power Sources</i> , 2013, 221, 157-171.	4.0	10

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145	Electrodeposition of copper from mixed sulphate-chloride acidic electrolytes at a rotating disc electrode. Transactions of the Institute of Metal Finishing, 2014, 92, 282-288.	0.6	10
146	The reduction of hydrogen peroxide at an Au-coated nanotubular TiO ₂ array. Journal of Applied Electrochemistry, 2014, 44, 169-177.	1.5	10
147	Hydrophobic thiol coatings to facilitate a triphasic interface for carbon dioxide reduction to ethylene at gas diffusion electrodes. Faraday Discussions, 2021, 230, 375-387.	1.6	10
148	Full factorial design applied to the synthesis of Pd-Ag nanobars by the polyol method and the perspective for ethanol oxidation. RSC Advances, 2014, 4, 16632-16640.	1.7	9
149	The importance of the film structure during self-powered ibuprofen salicylate drug release from polypyrrole electrodeposited on AZ31 Mg. Journal of Solid State Electrochemistry, 2016, 20, 3375-3382.	1.2	9
150	A Comparison of Pd/C, Perovskite, and Ni-Fe Hexacyanoferrate Bifunctional Oxygen Catalysts, at Different Loadings and Catalyst Layer Thicknesses on an Oxygen Gas Diffusion Electrode. Journal of the Electrochemical Society, 2018, 165, A1254-A1262.	1.3	9
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