GÃ¶ran Lindbergh

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2014070/publications.pdf

Version: 2024-02-01

226 papers	8,776 citations	36303 51 h-index	62596 80 g-index
227 all docs	227 docs citations	227 times ranked	8289 citing authors

#	Article	IF	Citations
1	Oxygen Reduction Catalysts for Polymer Electrolyte Fuel Cells from the Pyrolysis of Iron Acetate Adsorbed on Various Carbon Supports. Journal of Physical Chemistry B, 2003, 107, 1376-1386.	2.6	361
2	Electrochemical characterisation and modelling of the mass transport phenomena in LiPF6â€“ECâ€“EMC electrolyte. Electrochimica Acta, 2008, 53, 6356-6365.	5.2	284
3	Oxygen reduction by Fe-based catalysts in PEM fuel cell conditions: Activity and selectivity of the catalysts obtained with two Fe precursors and various carbon supports. Electrochimica Acta, 2006, 51, 3202-3213.	5.2	256
4	A support vector machine-based state-of-health estimation method for lithium-ion batteries under electric vehicle operation. Journal of Power Sources, 2014, 270, 262-272.	7.8	237
5	Single-paper flexible Li-ion battery cells through a paper-making process based on nano-fibrillated cellulose. Journal of Materials Chemistry A, 2013, 1, 4671.	10.3	193
6	Non-uniform aging of cycled commercial LiFePO4//graphite cylindrical cells revealed by post-mortem analysis. Journal of Power Sources, 2014, 257, 126-137.	7.8	179
7	Influence of the composition on the structure and electrochemical characteristics of the PEFC cathode. Electrochimica Acta, 2003, 48, 4175-4187.	5.2	162
8	Quantifying Mass Transport during Polarization in a Li Ion Battery Electrolyte by in Situ ⁷Li NMR Imaging. Journal of the American Chemical Society, 2012, 134, 14654-14657.	13.7	150
9	A novel polymer electrolyte fuel cell for laboratory investigations and in-situ contact resistance measurements. Electrochimica Acta, 2001, 46, 2899-2911.	5.2	145
10	Structural battery composites: a review. Functional Composites and Structures, 2019, 1, 042001.	3.4	133
11	Investigation of Short-Circuit Scenarios in a Lithium-Ion Battery Cell. Journal of the Electrochemical Society, 2012, 159, A848-A859.	2.9	131
12	Experimental and theoretical analysis of LiMn2O4 cathodes for use in rechargeable lithium batteries by electrochemical impedance spectroscopy (EIS). Electrochimica Acta, 2002, 47, 1747-1759.	5.2	128
13	A Model for Predicting Capacity Fade due to SEI Formation in a Commercial Graphite/LiFePO₄Cell. Journal of the Electrochemical Society, 2015, 162, A1003-A1007.	2.9	123
14	Evaluation of TiO2 as catalyst support in Pt-TiO2/C composite cathodes for the proton exchange membrane fuel cell. Journal of Power Sources, 2008, 180, 185-190.	7.8	119
15	Investigation of mass transport in gas diffusion layer at the air cathode of a PEMFC. Electrochimica Acta, 2005, 51, 474-488.	5.2	116
16	Mathematical model of the PEMFC. Journal of Applied Electrochemistry, 2000, 30, 1377-1387.	2.9	104
17	Thin film Pt/TiO2 catalysts for the polymer electrolyte fuel cell. Journal of Power Sources, 2007, 163, 671-678.	7.8	104
18	Effects of external pressure on the performance and ageing of single-layer lithium-ion pouch cells. Journal of Power Sources, 2018, 385, 18-26.	7.8	100

#	Article	IF	Citations
19	Conductivity of SDC and (Li/Na)2CO3 composite electrolytes in reducing and oxidising atmospheres. Journal of Power Sources, 2007, 172, 520-529.	7.8	95
20	Electrochemical Characterization and Temperature Dependency of Mass-Transport Properties of LiPF₆in EC:DEC. Journal of the Electrochemical Society, 2015, 162, A413-A420.	2.9	91
21	Aging in lithium-ion batteries: Model and experimental investigation of harvested LiFePO4 and mesocarbon microbead graphite electrodes. Electrochimica Acta, 2013, 110, 335-348.	5.2	88
22	Lithium iron phosphate coated carbon fiber electrodes for structural lithium ion batteries. Composites Science and Technology, 2018, 162, 235-243.	7.8	87
23	Fast-charging effects on ageing for energy-optimized automotive LiNi1/3Mn1/3Co1/3O2/graphite prismatic lithium-ion cells. Journal of Power Sources, 2019, 422, 175-184.	7.8	86
24	High performance metal nitrides, MN (M = Cr, Co) nanoparticles for non-aqueous hybrid supercapacitors. Advanced Powder Technology, 2015, 26, 783-788.	4.1	85
25	Impact of electrochemical cycling on the tensile properties of carbon fibres for structural lithium-ion composite batteries. Composites Science and Technology, 2012, 72, 792-798.	7.8	84
26	An electrochemical impedance spectroscopy method for prediction of the state of charge of a nickel-metal hydride battery at open circuit and during discharge. Journal of Power Sources, 1998, 72, 118-125.	7.8	77
27	A Structural Battery and its Multifunctional Performance. Advanced Energy and Sustainability Research, 2021, 2, 2000093.	5.8	74
28	Flexible nano-paper-based positive electrodes for Li-ion batteriesâ€"Preparation process and properties. Nano Energy, 2013, 2, 794-800.	16.0	73
29	Expansion of carbon fibres induced by lithium intercalation for structural electrode applications. Carbon, 2013, 59, 246-254.	10.3	71
30	New structural lithium battery electrolytes using thiolâ€"ene chemistry. Solid State Ionics, 2013, 236, 22-29.	2.7	71
31	Fast-charging to a partial state of charge in lithium-ion batteries: A comparative ageing study. Journal of Energy Storage, 2017, 13, 325-333.	8.1	71
32	Membrane Durability in a PEM Fuel Cell Studied Using PVDF Based Radiation Grafted Membranes. Fuel Cells, 2003, 3, 21-27.	2.4	70
33	Li4Ti5O12 flexible, lightweight electrodes based on cellulose nanofibrils as binder and carbon fibers as current collectors for Li-ion batteries. Nano Energy, 2017, 39, 140-150.	16.0	70
34	Solid polymer electrolyte-coated carbon fibres for structural and novel micro batteries. Composites Science and Technology, 2013, 89, 149-157.	7.8	68
35	In-situ measurements of gas permeability in fuel cell membranes using a cylindrical microelectrode. Journal of Electroanalytical Chemistry, 2002, 518, 115-122.	3.8	66
36	The effect of lithium-intercalation on the mechanical properties of carbon fibres. Carbon, 2014, 68, 725-733.	10.3	66

#	Article	IF	Citations
37	Cellulose nanofibril reinforced composite electrolytes for lithium ion battery applications. Journal of Materials Chemistry A, 2014, 2, 13556.	10.3	66
38	Graphitic microstructure and performance of carbon fibre Li-ion structural battery electrodes. Multifunctional Materials, 2018, 1, 015003.	3.7	65
39	On the influence of Pt particle size on the PEMFC cathode performance. Electrochimica Acta, 2007, 52, 6848-6855.	5.2	64
40	High Precision Coulometry of Commercial PAN-Based Carbon Fibers as Electrodes in Structural Batteries. Journal of the Electrochemical Society, 2016, 163, A1790-A1797.	2.9	64
41	The influence of CO2, CO and air bleed on the current distribution of a polymer electrolyte fuel cell. International Journal of Hydrogen Energy, 2008, 33, 2064-2072.	7.1	63
42	Model-Based Lithium-Ion Battery Resistance Estimation From Electric Vehicle Operating Data. IEEE Transactions on Vehicular Technology, 2018, 67, 3720-3728.	6.3	63
43	Alternative Catalysts and Carbon Support Material for PEMFC. Fuel Cells, 2006, 6, 21-25.	2.4	62
44	Photovoltaic/battery system sizing for rural electrification in Bolivia: Considering the suppressed demand effect. Applied Energy, 2019, 235, 519-528.	10.1	62
45	Model of a structural battery and its potential for system level mass savings. Multifunctional Materials, 2019, 2, 035002.	3.7	60
46	Kinetic study of a porous metal hydride electrode. Electrochimica Acta, 1999, 44, 2523-2542.	5.2	59
47	Electrochemical performance of reversible molten carbonate fuel cells. International Journal of Hydrogen Energy, 2014, 39, 12323-12329.	7.1	59
48	Flexible Paper Electrodes for Li-Ion Batteries Using Low Amount of TEMPO-Oxidized Cellulose Nanofibrils as Binder. ACS Applied Materials & Interfaces, 2016, 8, 18097-18106.	8.0	58
49	Lignin as a Binder Material for Eco-Friendly Li-Ion Batteries. Materials, 2016, 9, 127.	2.9	54
50	Inhibition of cathode reactions in sodium hydroxide solution containing chromate. Electrochimica Acta, 1991, 36, 1985-1994.	5.2	53
51	A Two-Phase Non-Isothermal PEFC Model: Theory and Validation. Fuel Cells, 2004, 4, 365-377.	2.4	52
52	Electrochemical Characterization of Lithium Intercalation Processes of PAN-Based Carbon Fibers in a Microelectrode System. Journal of the Electrochemical Society, 2013, 160, A1473-A1481.	2.9	52
53	Synthesis and Performance of LiCoO2 Cathodes for the Molten Carbonate Fuel Cell. Journal of the Electrochemical Society, 1994, 141, 2959-2966.	2.9	50
54	The influence of electrode morphology on the performance of a DMFC anode. Journal of Applied Electrochemistry, 2002, 32, 259-265.	2.9	50

#	Article	IF	Citations
55	The Influence of the Gas Diffusion Layer on Water Management in Polymer Electrolyte Fuel Cells. Fuel Cells, 2007, 7, 306-313.	2.4	50
56	Active Area Determination of Porous Pt Electrodes Used in Polymer Electrolyte Fuel Cells: Temperature and Humidity Effects. Journal of the Electrochemical Society, 2010, 157, B1795.	2.9	49
57	Piezo-Electrochemical Energy Harvesting with Lithium-Intercalating Carbon Fibers. ACS Applied Materials & Interfaces, 2015, 7, 13898-13904.	8.0	49
58	The Effect of Chromate Addition on Cathodic Reduction of Hypochlorite in Hydroxide and Chlorate Solutions. Journal of the Electrochemical Society, 1990, 137, 3094-3099.	2.9	48
59	Comparing shut-down strategies for proton exchange membrane fuel cells. Journal of Power Sources, 2014, 254, 232-240.	7.8	48
60	Aging effects of AC harmonics on lithium-ion cells. Journal of Energy Storage, 2019, 21, 741-749.	8.1	48
61	Lithium Ion Battery Separators Based On Carboxylated Cellulose Nanofibers From Wood. ACS Applied Energy Materials, 2019, 2, 1241-1250.	5.1	48
62	Characterisation and modelling of the transport properties in lithium battery gel electrolytes. Electrochimica Acta, 2004, 49, 3497-3505.	5.2	47
63	Lignin-based carbon fibers for renewable and multifunctional lithium-ion battery electrodes. Holzforschung, 2018, 72, 81-90.	1.9	47
64	Uneven Film Formation across Depth of Porous Graphite Electrodes in Cycled Commercial Li-Ion Batteries. Journal of Physical Chemistry C, 2015, 119, 90-100.	3.1	46
65	Highly proton conductive membranes based on carboxylated cellulose nanofibres and their performance in proton exchange membrane fuel cells. Journal of Materials Chemistry A, 2019, 7, 25032-25039.	10.3	46
66	Impact of the flame retardant additive triphenyl phosphate (TPP) on the performance of graphite/LiFePO4 cells in high power applications. Journal of Power Sources, 2014, 256, 430-439.	7.8	43
67	Comparison of electrochemical and surface characterisation methods for investigation of corrosion of bipolar plate materials in molten carbonate fuel cell. Corrosion Science, 1999, 41, 1497-1513.	6.6	42
68	Characterisation and modelling of the transport properties in lithium battery polymer electrolytes. Electrochimica Acta, 2001, 47, 577-587.	5.2	42
69	Photoinduced free radical polymerization of thermoset lithium battery electrolytes. European Polymer Journal, 2011, 47, 2372-2378.	5.4	42
70	Capturing lithium-ion battery dynamics with support vector machine-based battery model. Journal of Power Sources, 2015, 298, 92-101.	7.8	42
71	Thermal Management of Large-Format Prismatic Lithium-Ion Battery in PHEV Application. Journal of the Electrochemical Society, 2016, 163, A309-A317.	2.9	42
72	The Influence of Catalyst Layer Thickness on the Performance and Degradation of PEM Fuel Cell Cathodes with Constant Catalyst Loading. Electrochimica Acta, 2017, 232, 505-516.	5.2	42

#	Article	IF	Citations
73	Molten carbonate fuel cells for CO2 separation and segregation by retrofitting existing plants â€“ An analysis of feasible operating windows and first experimental findings. International Journal of Greenhouse Gas Control, 2015, 35, 120-130.	4.6	41
74	Current distribution measurements in a PEFC with net flow geometry. Journal of Applied Electrochemistry, 2004, 34, 255-262.	2.9	40
75	Electrokinetic transport of water and methanol in Nafion membranes as observed by NMR spectroscopy. Electrochimica Acta, 2010, 55, 3542-3549.	5.2	39
76	Electrolytically assisted debonding of adhesives: An experimental investigation. International Journal of Adhesion and Adhesives, 2012, 32, 39-45.	2.9	38
77	Analysis of aging of commercial composite metal oxide â€“ Li 4 Ti 5 O 12 battery cells. Journal of Power Sources, 2014, 270, 131-141.	7.8	38
78	Comparing aging of graphite/LiFePO 4 cells at 22ÂÂ°C and 55ÂÂ°C â€“ Electrochemical and photoelectron spectroscopy studies. Journal of Power Sources, 2013, 243, 290-298.	7.8	37
79	Parametrization of physics-based battery models from inputâ€“output data: A review of methodology and current research. Journal of Power Sources, 2022, 521, 230859.	7.8	37
80	The effect of addition of chromate on the hydrogen evolution reaction and on iron oxidation in hydroxide and chlorate solutions. Electrochimica Acta, 1992, 37, 1873-1881.	5.2	36
81	Tungsten oxide in polymer electrolyte fuel cell electrodesâ€”A thin-film model electrode study. Electrochimica Acta, 2011, 56, 9496-9503.	5.2	35
82	Characterization of the Mass-Transport Phenomena in a Superconcentrated LiTFSI:Acetonitrile Electrolyte. Journal of the Electrochemical Society, 2015, 162, A1334-A1340.	2.9	35
83	Piezo-electrochemical effect in lithium-intercalated carbon fibres. Electrochemistry Communications, 2013, 35, 65-67.	4.7	34
84	Operating conditions affecting the contact resistance of bi-polar plates in proton exchange membrane fuel cells. Journal of Power Sources, 2013, 231, 246-255.	7.8	33
85	Investigation of the prospect of energy self-sufficiency and technical performance of an integrated PEMFC (proton exchange membrane fuel cell), dairy farm and biogas plant system. Applied Energy, 2014, 130, 685-691.	10.1	33
86	Surface analysis with ESCA and GD-OES of the film formed by cathodic reduction of chromate. Electrochimica Acta, 1991, 36, 1605-1610.	5.2	32
87	Economic feasibility study of a fuel cell-based combined cooling, heating and power system for a data centre. Energy and Buildings, 2016, 111, 218-223.	6.7	32
88	A Structural Battery and its Multifunctional Performance. Advanced Energy and Sustainability Research, 2021, 2, 2170008.	5.8	32
89	Corrosion behaviour of high-chromium ferritic steels in molten carbonate in cathode environment. Electrochimica Acta, 2001, 46, 2593-2604.	5.2	31
90	Ammonia Contamination of a Proton Exchange Membrane Fuel Cell. Journal of the Electrochemical Society, 2018, 165, F189-F197.	2.9	31

#	Article	IF	Citations
91	Challenging Sinusoidal Ripple-Current Charging of Lithium-Ion Batteries. IEEE Transactions on Industrial Electronics, 2018, 65, 4750-4757.	7.9	31
92	Nanometer-thick films of titanium oxide acting as electrolyte in the polymer electrolyte fuel cell. Electrochimica Acta, 2007, 52, 4239-4245.	5.2	30
93	Studying Lowâ€‘Humidity Effects in PEFCs Using EIS. Journal of the Electrochemical Society, 2012, 159, F369-F378.	2.9	30
94	Studying Low-Humidity Effects in PEFCs Using EIS II. Modeling. Journal of the Electrochemical Society, 2012, 159, F379-F392.	2.9	30
95	Performance and Durability of the Molten Carbonate Electrolysis Cell and the Reversible Molten Carbonate Fuel Cell. Journal of Physical Chemistry C, 2016, 120, 13427-13433.	3.1	30
96	Electrode parameters and operating conditions influencing the performance of anion exchange membrane fuel cells. Electrochimica Acta, 2018, 277, 151-160.	5.2	30
97	Feasibility of Chemically Modified Cellulose Nanofiber Membranes as Lithium-Ion Battery Separators. ACS Applied Materials & Interfaces, 2020, 12, 41211-41222.	8.0	30
98	Graphitised Carbon Nanofibres as Catalyst Support for PEMFC. Fuel Cells, 2011, 11, 715-725.	2.4	29
99	Carbon fiber composites with battery function: Stresses and dimensional changes due to Li-ion diffusion. Journal of Composite Materials, 2018, 52, 2729-2742.	2.4	29
100	Multiphysics modeling of mechanical and electrochemical phenomena in structural composites for energy storage: Single carbon fiber micro-battery. Journal of Reinforced Plastics and Composites, 2018, 37, 701-715.	3.1	29
101	Gas evolution in commercial Li-ion battery cells measured by on-line mass spectrometry â€“ Effects of C-rate and cell voltage. Journal of Power Sources, 2020, 477, 228968.	7.8	29
102	Adhesive copper films for an air-breathing polymer electrolyte fuel cell. Journal of Power Sources, 2005, 144, 113-121.	7.8	28
103	A novel sulfonated dendritic polymer as the acidic component in proton conducting membranes. Solid State Ionics, 2006, 177, 787-794.	2.7	28
104	Electrochemical performance and stability of thin film electrodes with metal oxides in polymer electrolyte fuel cells. Electrochimica Acta, 2010, 55, 7590-7596.	5.2	28
105	Preparation and electrochemical properties of nanocrystalline LiBxMn2â^'xO4 cathode particles for Li-ion batteries by ultrasonic spray pyrolysis method. Journal of Alloys and Compounds, 2015, 620, 399-406.	5.5	28
106	Cycle life evaluation of 3Ah LixMn2O4-based lithium-ion secondary cells for low-earth-orbit satellites. Journal of Power Sources, 2008, 185, 1444-1453.	7.8	27
107	Experimental results from a 5kW PEM fuel cell stack operated on simulated reformate from highly diluted hydrocarbon fuels: Efficiency, dilution, fuel utilisation, CO poisoning and design criteria. International Journal of Hydrogen Energy, 2009, 34, 1508-1514.	7.1	27
108	Performance of LiCoO2 Cathodes, Prepared Using the Pechini Method, in Molten Carbonate Fuel Cells. Journal of the Electrochemical Society, 1997, 144, 2296-2301.	2.9	26

#	Article	IF	Citations
109	On the use of voltammetric methods to determine electrochemical stability limits for lithium battery electrolytes. Journal of Power Sources, 2003, 124, 213-220.	7.8	26
110	Development of cathode materials for lithium ion rechargeable batteries based on the system Li(Ni1/3Mn1/3Co(1/3-x)Mx)O2, (M=Mg, Fe, Al and x=0.00 to 0.33). Solid State Ionics, 2014, 268, 226-230.	2.7	26
111	Influence of gas phase mass transfer limitations on molten carbonate fuel cell cathodes. Journal of Applied Electrochemistry, 1997, 27, 1149-1156.	2.9	25
112	Electrode Kinetics of the Ni Porous Electrode for Hydrogen Production in a Molten Carbonate Electrolysis Cell (MCEC). Journal of the Electrochemical Society, 2015, 162, F1020-F1028.	2.9	25
113	Lignin Based Electrospun Carbon Fiber Anode for Sodium Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A1984-A1990.	2.9	25
114	Characterization of the adhesive properties between structural battery electrolytes and carbon fibers. Composites Science and Technology, 2020, 188, 107962.	7.8	25
115	Effect of Partial Cycling of NCA/Graphite Cylindrical Cells in Different SOC Intervals. Journal of the Electrochemical Society, 2020, 167, 040529.	2.9	25
116	Shape-morphing carbon fiber composite using electrochemical actuation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7658-7664.	7.1	25
117	Investigation of Porous Electrodes by Current Interruption: Application to Molten Carbonate Fuel Cell Cathodes. Journal of the Electrochemical Society, 1995, 142, 787-797.	2.9	24
118	Two-Electron Transfer for Tl(aq)3+/Tl(aq)+Revisited. Common Virtual [TlII-TlII]4+Intermediate for Homogeneous (Superexchange) and Electrode (Sequential) Mechanisms. Inorganic Chemistry, 2002, 41, 1728-1738.	4.0	23
119	Hydrogen oxidation reaction on thin platinum electrodes in the polymer electrolyte fuel cell. Electrochemistry Communications, 2010, 12, 1585-1588.	4.7	23
120	A Simulation of the Tertiary Current Density Distribution from a Chlorate Cell: I. Mathematical Model. Journal of the Electrochemical Society, 2001, 148, D125.	2.9	22
121	Evaluating Real-Life Performance of Lithium-Ion Battery Packs in Electric Vehicles. Journal of the Electrochemical Society, 2012, 159, A1856-A1860.	2.9	22
122	Effects of Different Manufacturing Processes on TEMPO-Oxidized Carboxylated Cellulose Nanofiber Performance as Binder for Flexible Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 37712-37720.	8.0	22
123	Inhomogeneous active layer contact loss in a cycled prismatic lithium-ion cell caused by the jelly-roll curvature. Journal of Energy Storage, 2018, 20, 213-217.	8.1	22
124	Electrochemical performance of poly(arylene piperidinium) membranes and ionomers in anion exchange membrane fuel cells. Journal of Power Sources, 2021, 507, 230287.	7.8	22
125	Concentration Polarization of a Polymer Electrolyte. Journal of the Electrochemical Society, 2002, 149, A1015.	2.9	21
126	The Design and Usage of a Visual Direct Methanol Fuel Cell. Journal of Applied Electrochemistry, 2004, 34, 763-770.	2.9	20

#	Article	IF	Citations
127	Evaluation of a sulfophenylated polysulfone membrane in a fuel cell at 60 to 110ÂÂ°C. Solid State Ionics, 2007, 178, 959-966.	2.7	20
128	Effect of sulfur contaminants on MCFC performance. International Journal of Hydrogen Energy, 2014, 39, 12242-12250.	7.1	20
129	Comparison of electrochemical and surface characterisation methods for investigation of corrosion of bipolar plate materials in molten carbonate fuel cell. Corrosion Science, 1999, 41, 1515-1528.	6.6	19
130	Investigation of LiMn2O4 cathodes for use in rechargeable lithium batteries by linear sweep voltammetry. Journal of Electroanalytical Chemistry, 2001, 506, 82-91.	3.8	19
131	Influence of toluene contamination at the hydrogen Pt/C anode in a proton exchange membrane fuel cell. Electrochimica Acta, 2010, 55, 7643-7651.	5.2	19
132	Methodology for measuring current distribution effects in electrochromic smart windows. Applied Optics, 2011, 50, 5639.	2.1	19
133	Electrochemical properties of nanocrystalline LiFexMn2â”xO4 (x=0.2â€“1.0) cathode particles prepared by ultrasonic spray pyrolysis method. Electrochimica Acta, 2012, 76, 368-374.	5.2	19
134	Corrosion of 304 Stainless Steel in Moltenâ€Carbonate Fuel Cells. Journal of the Electrochemical Society, 1999, 146, 2508-2516.	2.9	18
135	The impact of iridium on the stability of platinum on carbon thin-film model electrodes. Electrochimica Acta, 2013, 111, 152-159.	5.2	18
136	Operating the nickel electrode with hydrogen-lean gases in the molten carbonate electrolysis cell (MCEC). International Journal of Hydrogen Energy, 2016, 41, 18692-18698.	7.1	18
137	Kinetic Study of LiMn[sub 2]O[sub 4] Cathodes by In Situ XRD with Constant-Current Cycling and Potential Stepping. Journal of the Electrochemical Society, 2002, 149, A1164.	2.9	17
138	Electrochemical investigation of LiMn2O4 cathodes in gel electrolyte at various temperatures. Electrochimica Acta, 2002, 48, 171-179.	5.2	17
139	Experimental determination of effective surface area and conductivities in the porous anode of molten carbonate fuel cell. Journal of Power Sources, 2006, 158, 94-102.	7.8	17
140	Preparation and electrochemical properties of spinel LiFexCuyMn1.2O4 by ultrasonic spray pyrolysis. Ceramics International, 2014, 40, 1019-1027.	4.8	17
141	Design of experiment to predict the time between hydrogen purges for an air-breathing PEM fuel cell in dead-end mode in a closed environment. International Journal of Hydrogen Energy, 2021, 46, 13806-13817.	7.1	17
142	Experimental determination of the effective electrolyte conductivity in porous lead electrodes in the lead-acid battery. Electrochimica Acta, 1997, 42, 1239-1246.	5.2	16
143	Altered electrode degradation with temperature in LiFePO4/mesocarbon microbead graphite cells diagnosed with impedance spectroscopy. Electrochimica Acta, 2014, 141, 173-181.	5.2	16
144	Direct sorbitol proton exchange membrane fuel cell using moderate catalyst loadings. Electrochimica Acta, 2014, 116, 379-387.	5.2	16

#	Article	IF	Citations
145	Electrode kinetics of the NiO porous electrode for oxygen production in the molten carbonate electrolysis cell (MCEC). Faraday Discussions, 2015, 182, 493-509.	3.2	16
146	Multifunctional Performance of Sodiated Carbon Fibers. Journal of the Electrochemical Society, 2018, 165, B616-B622.	2.9	16
147	Fuel cell evaluation of anion exchange membranes based on poly(phenylene oxide) with different cationic group placement. Sustainable Energy and Fuels, 2020, 4, 2274-2283.	4.9	16
148	Li Salt Anion Effect on O₂ Solubility in an Liâ€“O₂ Battery. Journal of Physical Chemistry C, 2018, 122, 1913-1920.	3.1	15
149	Investigation of LiMn2O4 cathodes for use in rechargeable lithium batteries by linear sweep voltammetry (LSV). Journal of Electroanalytical Chemistry, 2001, 509, 139-147.	3.8	14
150	Methanol and formic acid oxidation in zinc electrowinning under process conditions. Journal of Applied Electrochemistry, 2007, 38, 17-24.	2.9	14
151	Pore Size Distribution and Water Uptake in Hydrocarbon and Perfluorinated Protonâ€Exchange Membranes as Studied by NMR Cryoporometry. Fuel Cells, 2008, 8, 262-269.	2.4	14
152	Electrochemical properties of nanocrystalline LiCuxMn2â˜xO4 (xÂ=Â0.2â€“0.6) particles prepared by ultrasonic spray pyrolysis method. Materials Chemistry and Physics, 2012, 136, 424-430.	4.0	14
153	Fuel Cell Measurements with Cathode Catalysts of Sputtered Pt₃Y Thin Films. ChemSusChem, 2018, 11, 1438-1445.	6.8	14
154	Cycle life evaluation of 3Ah LixMn2O4-based lithium-ion secondary cells for low-earth-orbit satellites. Journal of Power Sources, 2008, 185, 1454-1464.	7.8	13
155	Li-Ion Pouch Cells for Vehicle Applications â€” Studies of Water Transmission and Packing Materials. Energies, 2013, 6, 400-410.	3.1	13
156	An Experimental Setup with Alternating Current Capability for Evaluating Large Lithium-Ion Battery Cells. Batteries, 2018, 4, 38.	4.5	13
157	Porous Electrode Model with Particle Stress Effects for Li(Ni_{1/3}Co_{1/3}Mn_{1/3})O₂Electrode. Journal of the Electrochemical Society, 2019, 166, A2939-A2949.	2.9	13
158	A Strategy for Sizing and Optimizing the Energy System on Long-Range AUVs. IEEE Journal of Oceanic Engineering, 2021, 46, 1132-1143.	3.8	13
159	Enhanced oxygen reduction activity with rare earth metal alloy catalysts in proton exchange membrane fuel cells. Electrochimica Acta, 2021, 387, 138454.	5.2	13
160	The Effects of Oxidant Gas Composition on the Polarization of Porous LiCoO2 Electrodes for the Molten Carbonate Fuel Cell. Journal of the Electrochemical Society, 1997, 144, 3813-3818.	2.9	12
161	Corrosion behaviour of high aluminium steels in molten carbonate in an anode gas environment. Electrochimica Acta, 2001, 46, 1131-1140.	5.2	12
162	Contact Corrosion Resistance Between the Cathode and Current Collector Plate in the Molten Carbonate Fuel Cell. Journal of the Electrochemical Society, 2001, 148, A38.	2.9	12

#	Article	IF	Citations
163	Investigation of the oxygen evolving electrode in pH-neutral electrolytes. Electrochimica Acta, 2007, 52, 4513-4524.	5.2	12
164	Performance of Phosphonated Hydrocarbon Ionomer in the Fuel Cell Cathode Catalyst Layer. Journal of the Electrochemical Society, 2013, 160, F269-F277.	2.9	12
165	Flexible and Lightweight Lithium-Ion Batteries Based on Cellulose Nanofibrils and Carbon Fibers. Batteries, 2018, 4, 17.	4.5	12
166	Prospective Life Cycle Assessment of a Structural Battery. Sustainability, 2019, 11, 5679.	3.2	12
167	Potassium-insertion in polyacrylonitrile-based carbon fibres for multifunctional energy storage, morphing, and strain-sensing. Carbon, 2021, 171, 671-680.	10.3	12
168	A screen-printing method for manufacturing of current collectors for structural batteries. Multifunctional Materials, 2021, 4, 035002.	3.7	12
169	Conceptual Design of a Hybrid Hydrogen Fuel Cell/Battery Blended-Wing-Body Unmanned Aerial Vehicleâ€"An Overview. Aerospace, 2022, 9, 275.	2.2	12
170	In-situ Measurements of Contact Resistance and In-situ Durability studies of Steels and Coatings to be used as Bipolar Plates in PEMFCs. ECS Transactions, 2009, 25, 1791-1801.	0.5	11
171	The effect of O2 concentration on the reaction mechanism in Li-O2 batteries. Journal of Electroanalytical Chemistry, 2017, 797, 1-7.	3.8	11
172	A residual performance methodology to evaluate multifunctional systems. Multifunctional Materials, 2020, 3, 025002.	3.7	11
173	Multifunctional Carbon Fiber Composites: A Structural, Energy Harvesting, Strain-Sensing Material. ACS Applied Materials & Interfaces, 2022, 14, 33871-33880.	8.0	11
174	Degradation Studies of PEMFC Cathodes Based on Different Types of Carbon. ECS Transactions, 2009, 25, 1241-1250.	0.5	10
175	Active Area Determination for Porous Pt-Electrodes used in PEM Fuel Cells - Temperature And Humidity Effects. ECS Transactions, 2009, 25, 1211-1220.	0.5	10
176	Synthesis and Characterization of LiFePO4â€"PANI Hybrid Material as Cathode for Lithium-Ion Batteries. Materials, 2020, 13, 2834.	2.9	10
177	On resistance and capacity of LiNi1/3Mn1/3Co1/3O2 under high voltage operation. Journal of Energy Storage, 2020, 31, 101616.	8.1	10
178	Feasibility and impact of a Swedish fuel cell-powered rescue boat. Ocean Engineering, 2021, 234, 109259.	4.3	10
179	In-situ activation of hydrogen evolution in pH-neutral electrolytes by additions of multivalent cations. International Journal of Hydrogen Energy, 2012, 37, 9496-9503.	7.1	9
180	Measurements and analysis of battery harmonic currents in a commercial hybrid vehicle. , 2017, , .		9

#	Article	IF	Citations
181	Expanded In Situ Aging Indicators for Lithium-Ion Batteries with a Blended NMC-LMO Electrode Cycled at Sub-Ambient Temperature. Journal of the Electrochemical Society, 2021, 168, 110530.	2.9	9
182	CO[sub 2] Dissolution into a 52/48 Mol % Li/Na Carbonate Melt and the Molten Carbonate Fuel Cell Cathode. Journal of the Electrochemical Society, 2000, 147, 2122.	2.9	8
183	A Sulfophenylated Polysulfone as the DMFC Electrolyte Membrane â€“ an Evaluation of Methanol Permeability and Cell Performance. Fuel Cells, 2006, 6, 340-346.	2.4	8
184	The solubility of Ni in molten Li2CO3â€“Na2CO3 (52/48) in H2/H2O/CO2 atmosphere. Journal of Power Sources, 2007, 166, 59-63.	7.8	8
185	Loss-of-load probability analysis for optimization of small off-grid PV-battery systems in Bolivia. Energy Procedia, 2017, 142, 3715-3720.	1.8	8
186	A model for mass transport in the electrolyte membrane of a DMFC. Journal of Applied Electrochemistry, 2007, 37, 429-438.	2.9	7
187	Methanol Oxidation as Anode Reaction in Zinc Electrowinning. Journal of the Electrochemical Society, 2005, 152, D201.	2.9	6
188	An experimental system for evaluation of well-defined catalysts on nonporous electrodes in realistic DMFC environment. Electrochimica Acta, 2006, 51, 6584-6591.	5.2	6
189	Novel Field Test Equipment for Lithium-Ion Batteries in Hybrid Electrical Vehicle Applications. Energies, 2011, 4, 741-757.	3.1	6
190	The influence of ethene impurities in the gas feed of a PEM fuel cell. International Journal of Hydrogen Energy, 2013, 38, 497-509.	7.1	6
191	A Model for Analysis of the Porous Nickel Electrode Polarization in the Molten Carbonate Electrolysis Cell. Journal of the Electrochemical Society, 2017, 164, H5197-H5201.	2.9	6
192	Lithium insertion in hard carbon as observed by ⁷Li NMR and XRD. The local and mesoscopic order and their relevance for lithium storage and diffusion. Journal of Materials Chemistry A, 2022, 10, 10069-10082.	10.3	6
193	Evaluating Real-Life Performance of Lithium-Ion Battery Packs in Electric Vehicles. ECS Transactions, 2012, 41, 1-11.	0.5	5
194	Sizing the energy system on long-range AUV. , 2018, , .		5
195	Performance Recovery after Contamination with Nitrogen Dioxide in a PEM Fuel Cell. Molecules, 2020, 25, 1115.	3.8	5
196	Two-equivalent electrochemical reduction of a cyano-complex [TlIII(CN)2]+ and the novel di-nuclear compound [(CN)5PtIIâˆ’TlIII]0. Electrochimica Acta, 2005, 50, 4444-4450.	5.2	4
197	Lithium-Ion Battery Cell Cycling and Usage Analysis in a Heavy-Duty Truck Field Study. Energies, 2015, 8, 4513-4528.	3.1	4
198	Evaluation of energy management strategies for fuel cell/battery-powered underwater vehicles against field trial data. Energy Conversion and Management: X, 2022, 14, 100193.	1.6	4

#	Article	IF	Citations
199	Quantifying lithium lost to plating and formation of the solid-electrolyte interphase in graphite and commercial battery components. Applied Materials Today, 2022, 28, 101527.	4.3	4
200	Fuel cell based cogeneration: Comparison of electricity production cost for Swedish conditions. International Journal of Hydrogen Energy, 2013, 38, 3858-3864.	7.1	3
201	The Hydrogen Electrode Reaction in the Anion Exchange Membrane Fuel Cell. Journal of the Electrochemical Society, 2021, 168, 034505.	2.9	3
202	Integration of the components in a small-scale stationary research PEFC system. Journal of Power Sources, 2006, 159, 613-625.	7.8	2
203	On the activity and stability of Sr3NiPtO6 and Sr3CuPtO6 as electrocatalysts for the oxygen reduction reaction in a polymer electrolyte fuel cell. Journal of Power Sources, 2007, 168, 346-350.	7.8	2
204	A New Methodology for Evaluating the High-Power Behavior of a Li-Ion Battery Cell. ECS Transactions, 2009, 25, 253-262.	0.5	2
205	Fuel Cell Performance Using a Phosphonated Polysulphone Ionomer (PSUgPVPA) in the PEM Cathode Electrode. ECS Transactions, 2013, 45, 33-45.	0.5	2
206	Electrochemical techniques for characterizing LiNi Mn Co<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si16.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi><mml:mo>â^'</mml:mo><mml:mi>y</mml:mi></m battery electrodes. Electrochimica Acta, 2020, 359, 136887.	5.2	2
207	Energy Management Strategies for Fuel Cell-Battery Hybrid AUVs. , 2020, , .		2
208	Towards Uncoated Stainless-Steel Bipolar Plates in Automotive PEM Fuel Cells. ECS Meeting Abstracts, 2022, MA2022-01, 1457-1457.	0.0	2
209	HEV Lithium-Ion Battery Testing and Driving Cycle Analysis in a Heavy-Duty Truck Field Study. ECS Transactions, 2012, 41, 13-26.	0.5	1
210	Electrode Kinetics of the Ni Porous Electrode for Hydrogen Production in the Molten Carbonate Electrolysis Cell (MCEC). ECS Transactions, 2015, 66, 93-98.	0.5	1
211	Fundamental electrochemistry: general discussion. Faraday Discussions, 2015, 182, 177-212.	3.2	1
212	Effect of Cathode Slurry Composition on the Electrochemical Properties of Li-Ion Batteries. ECS Transactions, 2015, 66, 285-293.	0.5	1
213	An Aging Study of NCA/Si-Graphite Lithium-Ion Cells for Off-Grid Photovoltaic Systems in Bolivia. Journal of the Electrochemical Society, 2021, 168, 100541.	2.9	1
214	In Situ Measurements of Contact Resistance and In Situ Durability Studies of Steels and Coatings to be Used as Bipolar Plates in PEMFCs. ECS Meeting Abstracts, 2009, , .	0.0	0
215	Investigating the Aging Effect of Current Ripple on Lithium-Ion Cells. ECS Transactions, 2015, 69, 101-106.	0.5	0
216	System studies and understanding durability: general discussion. Faraday Discussions, 2015, 182, 437-456.	3.2	0

#	Article	IF	Citations
217	Fuel Cell Measurements with Cathode Catalysts of Sputtered Pt3 Y Thin Films. ChemSusChem, 2018, 11, 1394-1394.	6.8	0
218	Short-Term Impact of AC Harmonics on Aging of NiMH Batteries for Grid Storage Applications. Materials, 2021, 14, 1248.	2.9	0
219	Global Optimal Experiment Design for Li-Ion Batteries. ECS Meeting Abstracts, 2021, MA2021-01, 63-63.	0.0	0
220	Including Heat Balance When Designing the Energy System of Fuel Cell-Powered AUVs. Energies, 2021, 14, 4920.	3.1	0
221	Crystal structure and Hirshfeld surface analysis of poly[tris(Î¼₄-benzene-1,4-dicarboxylato)tetrakis(dimethylformamide)trinickel(II)]: a two-dimensional coordination network. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 1839-1843.	0.5	0
222	Alkali Ions Transport into Lignin-Based Hard Carbon Fibers. ECS Meeting Abstracts, 2021, MA2021-02, 227-227.	0.0	0
223	Nimh Gas Model for Dynamic Behaviour Study. ECS Meeting Abstracts, 2021, MA2021-02, 171-171.	0.0	0
224	Expanding on Health Indicators for Fast Charging at Sub-Ambient Temperature. ECS Meeting Abstracts, 2021, MA2021-02, 445-445.	0.0	0
225	Investigation of a Symmetric Hydrogen-Purging Strategy for an Air-Breathing PEM Fuel Cell Stack Working in a Closed Environment. ECS Meeting Abstracts, 2021, MA2021-02, 1104-1104.	0.0	0
226	Experimental Characterization of Anisotropic Mechanical and Thermal Properties of Gas Diffusion Layers. ECS Meeting Abstracts, 2022, MA2022-01, 1645-1645.	0.0	0