Yair Ein-Eli

List of Publications by Citations

159 papers	6,968 citations	38 h-index	79 g-index
169 ext. papers	7,914 ext. citations	7.2 avg, IF	6.51 L-index

#	Paper	IF	Citations
159	On the correlation between surface chemistry and performance of graphite negative electrodes for Li ion batteries. *Electrochimica Acta*, **1999**, 45, 67-86	6.7	780
158	Higher, Stronger, Better… A Review of 5 Volt Cathode Materials for Advanced Lithium-Ion Batteries. *Advanced Energy Materials*, **2012**, 2, 922-939	21.8	527
157	Review on Li–air batteries—Opportunities, limitations and perspective. *Journal of Power Sources*, **2011**, 196, 886-893	8.9	488
156	Review of Advanced Materials for Proton Exchange Membrane Fuel Cells. *Energy & Fuels*, **2014**, 28, 7303-7330	4.1	437
155	Recent studies on the correlation between surface chemistry, morphology, three-dimensional structures and performance of Li and Li-C intercalation anodes in several important electrolyte systems. *Journal of Power Sources*, **1997**, 68, 91-98	8.9	377
154	A critical review on lithium-air battery electrolytes. *Physical Chemistry Chemical Physics*, **2014**, 16, 2801-23	3.6	357
153	The dependence of the performance of Li-C intercalation anodes for Li-ion secondary batteries on the electrolyte solution composition. *Electrochimica Acta*, **1994**, 39, 2559-2569	6.7	186
152	A New Perspective on the Formation and Structure of the Solid Electrolyte Interface at the Graphite Anode of Li-Ion Cells. *Electrochemical and Solid-State Letters*, **1999**, 2, 212		144
151	Review on copper chemical–mechanical polishing (CMP) and post-CMP cleaning in ultra large system integrated (ULSI)—An electrochemical perspective. *Electrochimica Acta*, **2007**, 52, 1825-1838	6.7	139
150	The impact of nano-scaled materials on advanced metal–air battery systems. *Nano Energy*, **2013**, 2, 468-480	17.1	126
149	Conveying Advanced Li-ion Battery Materials into Practice The Impact of Electrode Slurry Preparation Skills. *Advanced Energy Materials*, **2016**, 6, 1600655	21.8	119
148	Electrochemical and surface studies of zinc in alkaline solutions containing organic corrosion inhibitors. *Journal of Power Sources*, **2003**, 114, 330-337	8.9	111
147	Aluminum–air battery based on an ionic liquid electrolyte. *Journal of Materials Chemistry A*, **2014**, 2, 20237-20242	13	102
146	Reduced contact resistance of PEM fuel cell's bipolar plates via surface texturing. *Journal of Power Sources*, **2007**, 164, 697-703	8.9	93
145	Electrochemical Impedance Spectroscopy of Porous TiO2 for Photocatalytic Applications. *Journal of Physical Chemistry C*, **2010**, 114, 9781-9790	3.8	89
144	A Critical Review on Functionalization of Air-Cathodes for Nonaqueous Li–O2 Batteries. *Advanced Functional Materials*, **2020**, 30, 1808303	15.6	77
143	Enhanced inactivation of E. coli bacteria using immobilized porous TiO2 photoelectrocatalysis. *Electrochimica Acta*, **2009**, 54, 3381-3386	6.7	75

142	In situ synchrotron X-ray studies on copper–nickel 5 V Mn oxide spinel cathodes for Li-ion batteries. *Electrochimica Acta*, **2004**, 49, 3373-3382	6.7	72
141	Fast Charging of Lithium-Ion Batteries: A Review of Materials Aspects. *Advanced Energy Materials*, **2021**, 11, 2101126	21.8	65
140	Side by Side Battery Technologies with Lithium-Ion Based Batteries. *Advanced Energy Materials*, **2020**, 10, 2000089	21.8	64
139	Silicon–air batteries. *Electrochemistry Communications*, **2009**, 11, 1916-1918	5.1	64
138	A critical review-promises and barriers of conversion electrodes for Li-ion batteries. *Journal of Solid State Electrochemistry*, **2017**, 21, 1907-1923	2.6	63
137	Influence of Sulfone Linkage on the Stability of Aromatic Quaternary Ammonium Polymers for Alkaline Fuel Cells. *Journal of the Electrochemical Society*, **2014**, 161, F615-F621	3.9	61
136	Acid-Functionalized Mesostructured Aluminosilica for Hydrophilic Proton Conduction Membranes. *Advanced Materials*, **2007**, 19, 2580-2587	24	61
135	Aluminum corrosion mitigation in alkaline electrolytes containing hybrid inorganic/organic inhibitor system for power sources applications. *Journal of Power Sources*, **2015**, 285, 100-108	8.9	56
134	Realization of an Artificial Three-Phase Reaction Zone in a Li–Air Battery. *ChemElectroChem*, **2014**, 1, 90-94	4.3	56
133	Copper corrosion mitigation by binary inhibitor compositions of potassium sorbate and benzotriazole. *Corrosion Science*, **2014**, 82, 271-279	6.8	54
132	The Superiority of Asymmetric Alkyl Methyl Carbonates. *Journal of the Electrochemical Society*, **1998**, 145, L1-L3	3.9	54
131	Bicarbonate and chloride anion transport in anion exchange membranes. *Journal of Membrane Science*, **2016**, 514, 125-134	9.6	53
130	Study and development of non-aqueous silicon-air battery. *Journal of Power Sources*, **2010**, 195, 4963-4970	8.9	51
129	The Compatibility of Copper CMP Slurries with CMP Requirements. *Journal of the Electrochemical Society*, **2003**, 150, C646	3.9	48
128	Characterization and Chemical Stability of Anion Exchange Membranes Cross-Linked with Polar Electron-Donating Linkers. *Journal of the Electrochemical Society*, **2015**, 162, F1047-F1055	3.9	46
127	Photocatalytic inactivation of microorganisms using nanotubular TiO2. *Applied Catalysis B: Environmental*, **2011**, 101, 212-219	21.8	45
126	Enhanced photo-efficiency of immobilized TiO2 catalyst via intense anodic bias. *Electrochemistry Communications*, **2007**, 9, 1684-1688	5.1	43
125	Bundled and densified carbon nanotubes (CNT) fabrics as flexible ultra-light weight Li-ion battery anode current collectors. *Journal of Power Sources*, **2016**, 312, 109-115	8.9	42

124	Electrochemical aspects of copper chemical mechanical planarization (CMP) in peroxide based slurries containing BTA and glycine. *Electrochimica Acta*, **2004**, 49, 1499-1503	6.7	42
123	Liquid-Free Lithium□Oxygen Batteries. *Angewandte Chemie*, **2015**, 127, 446-450	3.6	40
122	Enhanced copper surface protection in aqueous solutions containing short-chain alkanoic acid potassium salts. *Langmuir*, **2007**, 23, 11281-8	4	38
121	Low voltage electric potential as a driving force to hinder biofouling in self-supporting carbon nanotube membranes. *Water Research*, **2018**, 129, 143-153	12.5	37
120	An aluminum□ionic liquid interface sustaining a durable Al-air battery. *Journal of Power Sources*, **2017**, 364, 110-120	8.9	36
119	Atomic Layer Deposition of a Particularized Protective MgF2 Film on a Li-Ion Battery LiMn1.5Ni0.5O4 Cathode Powder Material. *ChemNanoMat*, **2015**, 1, 577-585	3.5	36
118	Atomic layer deposition (ALD) of lithium fluoride (LiF) protective film on Li-ion battery LiMn1.5Ni0.5O4 cathode powder material. *Journal of Power Sources*, **2020**, 448, 227373	8.9	36
117	In-situ Raman spectroscopy mapping of Si based anode material lithiation. *Journal of Power Sources* , **2015**, 282, 294-298	8.9	35
116	Copper vanadate as promising high voltage cathodes for Li thermal batteries. *Journal of Power Sources*, **2013**, 229, 112-116	8.9	33
115	Low temperature performance of copper/nickel modified LiMn2O4 spinels. *Electrochimica Acta*, **2005**, 50, 1931-1937	6.7	32
114	Ruthenium electrodeposition on silicon from a room-temperature ionic liquid. *Electrochimica Acta*, **2009**, 54, 6042-6045	6.7	31
113	Potassium sorbate□A new aqueous copper corrosion inhibitor. *Electrochimica Acta*, **2007**, 52, 1975-1982	6.7	31
112	In-Situ Spectro□Electrochemical Insight Revealing Distinctive Silicon Anode Solid Electrolyte Interphase Formation in a Lithium□Ion Battery. *ChemistrySelect*, **2016**, 1, 572-576	1.8	30
111	Electrochemical Behavior of Copper in Conductive Peroxide Solutions. *Journal of the Electrochemical Society*, **2004**, 151, G236	3.9	29
110	Robust AlF3 Atomic Layer Deposition Protective Coating on LiMn1.5Ni0.5O4 Particles: An Advanced Li-Ion Battery Cathode Material Powder. *ACS Applied Energy Materials*, **2018**, 1, 6809-6823	6.1	29
109	Liquid-free lithium-oxygen batteries. *Angewandte Chemie - International Edition*, **2015**, 54, 436-40	16.4	28
108	Comprehensive Route to the Formation of Alloy Interface in Core/Shell Colloidal Quantum Dots. *Journal of Physical Chemistry C*, **2015**, 119, 12749-12756	3.8	26
107	Remarkable impact of water on the discharge performance of a silicon-air battery. *ChemSusChem*, **2011**, 4, 1124-9	8.3	25

106	In situ STM studies of zinc in aqueous solutions containing PEG DiAcid inhibitor: Correlation with electrochemical performances of zinc–air fuel cells. *Journal of Power Sources*, **2006**, 157, 584-591	8.9	25
105	The correlation between the cycling efficiency, surface chemistry and morphology of Li electrodes in electrolyte solutions based on methyl formate. *Journal of Power Sources*, **1995**, 54, 281-288	8.9	25
104	Hybrid mesostructured electrodes for fast-switching proton-based solid state electrochromic devices. *Journal of Materials Chemistry C*, **2013**, 1, 151-159	7.1	24
103	Origin of 5 V Electrochemical Activity Observed in Non-Redox Reactive Divalent Cation Doped LiM[sub 0.5]Mn[sub 1.5+x]O[sub 4] (0 0.5)Cathode Materials. *Journal of the Electrochemical Society*, **2005**, 152, A1902	3.9	24
102	Enhanced reversible electrochromism via in situ phase transformation in tungstate monohydrate. *Chemical Communications*, **2009**, 7396-8	5.8	23
101	Electrochemical deposition of ultrathin ruthenium films on Au(111) from an ionic liquid. *Chemical Physics Letters*, **2008**, 460, 178-181	2.5	23
100	Enhanced tungstate electrochromism via formation of transparent conductive networks. *Electrochemistry Communications*, **2008**, 10, 1210-1213	5.1	23
99	The Behavior of Zinc Metal in Alkaline Solution Containing Organic Inhibitors. *Journal of the Electrochemical Society*, **2003**, 150, A1606	3.9	22
98	Unexpected 5 V Behavior of Zn-Doped Mn Spinel Cathode Material. *Electrochemical and Solid-State Letters*, **2005**, 8, A141		22
97	Initiation of copper dissolution in sodium chloride electrolytes. *Electrochimica Acta*, **2006**, 51, 5660-5668	6.7	21
96	Improvement of Aluminum-Air Battery Performances by the Application of Flax Straw Extract. *ChemSusChem*, **2016**, 9, 2103-11	8.3	21
95	New insight into the discharge mechanism of silicon-air batteries using electrochemical impedance spectroscopy. *Physical Chemistry Chemical Physics*, **2013**, 15, 3256-63	3.6	19
94	Copper Repassivation Characteristics in Carbonate-Based Solutions. *Journal of the Electrochemical Society*, **2006**, 153, B337	3.9	19
93	Dithiocarbonic anhydride (CS2)– new additive in Li-ion battery electrolytes. *Journal of Electroanalytical Chemistry*, **2002**, 531, 95-99	4.1	19
92	Enhanced Inhibition of Zinc Corrosion in Alkaline Solutions Containing Carboxylic Acid Modified PEG. *Journal of the Electrochemical Society*, **2005**, 152, A1158	3.9	19
91	Molecular Engineering Approaches to Fabricate Artificial Solid-Electrolyte Interphases on Anodes for Li-Ion Batteries: A Critical Review. *Advanced Energy Materials*, **2021**, 11, 2101173	21.8	19
90	Long run discharge, performance and efficiency of primary Silicon–air cells with alkaline electrolyte. *Electrochimica Acta*, **2017**, 225, 215-224	6.7	18
89	Meso-pores carbon nano-tubes (CNTs) tissues-perfluorocarbons (PFCs) hybrid air-electrodes for Li-O2 battery. *Journal of Power Sources*, **2018**, 379, 219-227	8.9	18

88	Limitation of discharge capacity and mechanisms of air-electrode deactivation in silicon-air batteries. *ChemSusChem*, **2012**, 5, 2278-85	8.3	18
87	PEM FC with improved water management. *Journal of Power Sources*, **2006**, 160, 194-201	8.9	18
86	The Behavior of Zinc Metal in Alkaline Solution Containing Organic Inhibitors. *Journal of the Electrochemical Society*, **2003**, 150, A1614	3.9	18
85	The Role of Air-Electrode Structure on the Incorporation of Immiscible PFCs in Nonaqueous Li-O Battery. *ACS Applied Materials & Interfaces*, **2017**, 9, 9726-9737	9.5	17
84	Bottom-Up Synthesis of Advanced Carbonaceous Anode Materials Containing Sulfur for Na-Ion Batteries. *Advanced Functional Materials*, **2020**, 30, 2000592	15.6	16
83	Layered Boron-Nitrogen-Carbon-Oxygen Materials with Tunable Composition as Lithium-Ion Battery Anodes. *ChemSusChem*, **2018**, 11, 2912-2920	8.3	16
82	Na-ion battery cathode materials prepared by electrochemical ion exchange from alumina-coated Li1+xMn0.54Co0.13Ni0.1+yO2. *Journal of Materials Chemistry A*, **2018**, 6, 14816-14827	13	16
81	Phenomenological Transition of an Aluminum Surface in an Ionic Liquid and Its Beneficial Implementation in Batteries. *Langmuir*, **2015**, 31, 13860-6	4	16
80	Anodic electrode reaction of p-type silicon in 1-ethyl-3-methylimidazolium fluorohydrogenate room-temperature ionic liquid. *Electrochimica Acta*, **2008**, 53, 3650-3655	6.7	16
79	Silicon Texturing in Alkaline Media Conducted Under Extreme Negative Potentials. *Electrochemical and Solid-State Letters*, **2003**, 6, C47		16
78	Tetra-butyl ammonium fluoride – An advanced activator of aluminum surfaces in organic electrolytes for aluminum-air batteries. *Energy Storage Materials*, **2018**, 15, 465-474	19.4	16
77	Challenges and Prospect of Non-aqueous Non-alkali (NANA) Metal-Air Batteries. *Topics in Current Chemistry*, **2016**, 374, 82	7.2	15
76	Seedless copper electroplating on Ta from a single electrolytic bath. *Electrochimica Acta*, **2010**, 55, 1656-1663	6.7	15
75	Electrospun Ionomeric Fibers with Anion Conducting Properties. *Advanced Functional Materials*, **2020**, 30, 1901733	15.6	15
74	Diffusivity and Solubility of Oxygen in Solvents for Metal/Oxygen Batteries: A Combined Theoretical and Experimental Study. *Journal of the Electrochemical Society*, **2018**, 165, A3095-A3099	3.9	15
73	Porous Silicon Formation in Fluorohydrogenate Ionic Liquids. *Journal of the Electrochemical Society*, **2010**, 157, H281	3.9	14
72	Macroporous Silicon Formation on n-Si in Room-Temperature Fluorohydrogenate Ionic Liquid. *Electrochemical and Solid-State Letters*, **2007**, 10, D25		14
71	Dimethyl carbonate (DMC) electrolytes – the effect of solvent purity on Li-ion intercalation into graphite anodes. *Electrochemistry Communications*, **2002**, 4, 644-648	5.1	14

70	A silicon–air battery utilizing a composite polymer electrolyte. *Electrochimica Acta*, **2011**, 58, 161-164	6.7	13
69	An alternative isolation of tungsten tips for a scanning tunneling microscope. *Review of Scientific Instruments*, **2005**, 76, 106105	1.7	13
68	Between Liquid and All Solid: A Prospect on Electrolyte Future in Lithium-Ion Batteries for Electric Vehicles. *Energy Technology*, **2020**, 8, 2000580	3.5	13
67	Understanding the Role of Alumina (Al2O3), Pentalithium Aluminate (Li5AlO4), and Pentasodium Aluminate (Na5AlO4) Coatings on the Li and Mn-Rich NCM Cathode Material 0.33Li2MnO3·0.67Li(Ni0.4Co0.2Mn0.4)O2 for Enhanced Electrochemical Performance. *Advanced Functional Materials*, **2021**, 31, 2008083	15.6	13
66	A Critical Review: The Impact of the Battery Electrode Material Substrate on the Composition and Properties of Atomic Layer Deposition (ALD) Coatings. *Advanced Materials Interfaces*, **2019**, 6, 1901455	4.6	12
65	Direct Pre-lithiation of Electropolymerized Carbon Nanotubes for Enhanced Cycling Performance of Flexible Li-Ion Micro-Batteries. *Polymers*, **2020**, 12,	4.5	12
64	PFC and Triglyme for Li-Air Batteries: A Molecular Dynamics Study. *Journal of Physical Chemistry B*, **2016**, 120, 3370-7	3.4	12
63	Reference electrode assembly and its use in the study of fluorohydrogenate ionic liquid silicon electrochemistry. *Physical Chemistry Chemical Physics*, **2013**, 15, 17837-45	3.6	12
62	Food Preservatives Serving as Nonselective Metal and Alloy Corrosion Inhibitors. *Electrochemical and Solid-State Letters*, **2006**, 9, B5		12
61	Enhanced Corrosion Inhibition of Zn in Alkaline Solutions Containing Poly(ethylene glycol) Diacid. *Electrochemical and Solid-State Letters*, **2004**, 7, B5		12
60	Internal pressure in superconducting Cu-intercalated Bi2Se3. *Physical Review B*, **2016**, 93,	3.3	11
59	Potassium sorbate as an inhibitor in copper chemical mechanical planarization slurries. Part II: Effects of sorbate on chemical mechanical planarization performance. *Electrochimica Acta*, **2010**, 55, 2810-2816	6.7	11
58	Potassium sorbate as an inhibitor in copper chemical mechanical planarization slurry. Part I. Elucidating slurry chemistry. *Electrochimica Acta*, **2010**, 55, 3560-3571	6.7	11
57	Enhanced Li-O2 Battery Performance in a Binary Ionic Liquid Teflon and Dual Redox Mediators. *Advanced Materials Technologies*, **2019**, 4, 1800645	6.8	10
56	Hybrid Ionic Liquid Propylene Carbonate-Based Electrolytes for Aluminum–Air Batteries. *ACS Applied Energy Materials*, **2020**, 3, 2585-2592	6.1	10
55	Electrochemical analysis and mixed potentials theory of ionic liquid based Metal–Air batteries with Al/Si alloy anodes. *Electrochimica Acta*, **2018**, 276, 399-411	6.7	10
54	A peculiar cathodic process during iron and steel corrosion in sulfate reducing bacteria (SRB) media. *Corrosion Science*, **2010**, 52, 1536-1540	6.8	10
53	Potassium sorbate solutions as copper chemical mechanical planarization (CMP) based slurries. *Electrochimica Acta*, **2007**, 52, 5150-5158	6.7	10

52	Reduced light reflection of textured multicrystalline silicon via NPD for solar cells applications. *Solar Energy Materials and Solar Cells*, **2006**, 90, 1764-1772	6.4	10
51	Enhancing oxygen adsorption capabilities in Li□O2 battery cathodes through solid perfluorocarbons. *Journal of Materials Chemistry A*, **2017**, 5, 14152-14164	13	10
50	Chemical and Thermal Stability of Poly(phenylene oxide)-Based Anion Exchange Membranes Containing Alkyl Side Chains. *Journal of the Electrochemical Society*, **2018**, 165, F1133-F1138	3.9	10
49	Distinct Copper Electrodeposited Carbon Nanotubes (CNT) Tissues as Anode Current Collectors in Li-ion Battery. *Electrochimica Acta*, **2017**, 229, 404-414	6.7	9
48	Challenges and Perspectives of Metal-Based Proton Exchange Membrane's Bipolar Plates: Exploring Durability and Longevity. *Energy Technology*, **2020**, 8, 2000007	3.5	9
47	Molecular optimization of multiply-functionalized mesoporous films with ion conduction properties. *Journal of the American Chemical Society*, **2011**, 133, 16023-36	16.4	9
46	Perspective on Si Negative Potential Dissolution Mechanism. *Electrochemical and Solid-State Letters* , **2004**, 7, G168		9
45	Carbon nanotube tissue as anode current collector for flexible Li-ion batteries□Understanding the controlling parameters influencing the electrochemical performance. *APL Materials*, **2018**, 6, 111102	5.7	9
44	Influence of solution volume on the dissolution rate of silicon dioxide in hydrofluoric acid. *ChemPhysChem*, **2015**, 16, 370-6	3.2	8
43	Operando Micro-Raman Study Revealing Enhanced Connectivity of Plasmonic Metals Decorated Silicon Anodes for Lithium-Ion Batteries. *ACS Applied Energy Materials*, **2018**, 1, 1096-1105	6.1	8
42	Proton exchange membrane (PEM) fuel cell bipolar plates prepared from a physical vapor deposition (PVD) titanium nitride (TiN) coated AISI416 stainless-steel. *SN Applied Sciences*, **2019**, 1, 1	1.8	8
41	Influence of Dopant Type and Orientation of Silicon Anodes on Performance, Efficiency and Corrosion of Silicon□Air Cells with EMIm(HF)2.3F Electrolyte. *Journal of the Electrochemical Society*, **2017**, 164, A2310-A2320	3.9	8
40	Electrochemical Grignard Reagent Synthesis for Ionic-Liquid-Based Magnesium□Air Batteries. *ChemElectroChem*, **2014**, 1, 1319-1326	4.3	8
39	Seedless copper electroplating on Ta from an alkaline activated bath. *Electrochimica Acta*, **2012**, 82, 367-371	5.7	8
38	The use of S,S-dialkyl dithiocarbonates in Li ion battery electrolytes. *Journal of Solid State Electrochemistry*, **1997**, 1, 227-231	2.6	8
37	Observation of Extended Copper Passivity in Carbonate Solutions and Its Future Application in Copper CMP. *Electrochemical and Solid-State Letters*, **2005**, 8, B69		8
36	Electrodeposition of polymer electrolyte into carbon nanotube tissues for high performance flexible Li-ion microbatteries. *APL Materials*, **2019**, 7, 031506	5.7	7
35	Unveiling ionic diffusion in MgNiMnO4 cathode material for Mg-ion batteries via combined computational and experimental studies. *Journal of Solid State Electrochemistry*, **2019**, 23, 3209-3216	2.6	7

34	Copper sulfates as cathode materials for Li batteries. *Journal of Power Sources*, **2011**, 196, 1461-1468	8.9	7
33	Texturing of As-cut Silicon Conducted under Negative Potentials. *Electrochemical and Solid-State Letters*, **2004**, 7, G75		7
32	Aluminum-ion battery technology: a rising star or a devastating fall?. *Journal of Solid State Electrochemistry*, **2020**, 24, 2067-2071	2.6	7
31	Investigation of the corrosion behavior of highly As-doped crystalline Si in alkaline Si–air batteries. *Electrochimica Acta*, **2018**, 265, 292-302	6.7	6
30	Investigation of Rechargeable Poly(ethylene oxide)-Based Solid Lithium–Oxygen Batteries. *ACS Applied Energy Materials*, **2018**, 1, 3048-3056	6.1	6
29	Negative potential dissolution (NPD)-advanced and rapid texturing method of as-cut silicon. *Electrochimica Acta*, **2005**, 50, 5313-5321	6.7	6
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26	Catalyst-Free Electrochemical Grignard Reagent Synthesis with Room-Temperature Ionic Liquids. *ChemElectroChem*, **2014**, 1, 362-365	4.3	5
25	Distinct view on batteries performance analysis. *Journal of Electroanalytical Chemistry*, **2013**, 707, 85-88	4.1	5
24	Aluminum electrodeposition from a non-aqueous electrolyte– combined computational and experimental study. *Journal of Solid State Electrochemistry*, **2020**, 24, 2833-2846	2.6	4
23	Comment on Oxygen Solubility Measurements in Non-Aqueous Electrolytes. *Journal of the Electrochemical Society*, **2011**, 158, S13	3.9	4
22	End-point detection of copper super-filling in small features under a potentiostatic mode of operation. *Electrochimica Acta*, **2008**, 53, 7884-7889	6.7	4
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20	Insights into the surface and stress behavior of manganese-oxide catalyst during oxygen reduction reaction. *Journal of Power Sources*, **2020**, 450, 227545	8.9	4
19	Analysis on discharge behavior and performance of As- and B-doped silicon anodes in non-aqueous Si–air batteries under pulsed discharge operation. *Journal of Applied Electrochemistry*, **2020**, 50, 93-109	2.6	4
18	Interphases Formation and Analysis at the Lithium–Aluminum–Titanium–Phosphate (LATP) and Lithium–Manganese Oxide Spinel (LMO) Interface during High-Temperature Bonding. *Energy Technology*, **2020**, 8, 2000634	3.5	4
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16	Reprint of Potassium sorbate solutions as copper chemical mechanical planarization (CMP) based slurries *Electrochimica Acta*, **2007**, 53, 1021-1029	6.7	3
15	Hybridization of carbon nanotube tissue and MnO2 as a generic advanced air cathode in metal–air batteries. *Journal of Power Sources*, **2021**, 514, 230597	8.9	3
14	A binary carbon-free aluminum anode for lithium-ion batteries. *Journal of Power Sources*, **2021**, 498, 229902	8.9	3
13	Electrochemical and Thermal Behavior of Modified Li and Mn-Rich Cathode Materials in Battery Prototypes: Impact of Pentasodium Aluminate Coating and Comprehensive Understanding of Its Evolution upon Cycling through Solid-State Nuclear Magnetic Resonance Analysis. *Advanced Energy and Sustainability Research*, **2021**, 2, 2000089	1.6	3
12	Enhanced zinc corrosion mitigation via a tuned thermal pretreatment in an alkaline solution containing an organic inhibitor. *Journal of Solid State Electrochemistry*, **2018**, 22, 2217-2226	2.6	2
11	Silicon Oxide Dissolution in Fluorohydrogenates Ionic Liquid. *Journal of the Electrochemical Society*, **2016**, 163, E135-E141	3.9	2
10	Corrosion Inhibition of Copper by Dinitrobenzimidazole in Phosphate Solutions. *Electrochemical and Solid-State Letters*, **2009**, 12, C21		2
9	Achieving Extreme Etching Rates by Overcoming Silicon Passivity. *Electrochemical and Solid-State Letters*, **2010**, 13, H185		1
8	From Food Preservation to Surface Protection: Enhanced Corrosion Protection by Fatty Acid Salts. *Israel Journal of Chemistry*, **2008**, 48, 319-332	3.4	1
7	Molten state synthesis of nickel phosphides: mechanism and composition-activity correlation for electrochemical applications. *Journal of Materials Chemistry A*, **2021**, 9, 27629-27638	13	1
6	Copper Passivity in Carbonate Base Solutions and its Application in Chemical Mechanical Planarization (CMP) **2006**, 125-130		1
5	Atomic Layer Deposition (ALD) of Alumina over Activated Carbon Electrodes Enabling a Stable 4 V Supercapacitor Operation. *ChemistryOpen*, **2021**, 10, 402-407	2.3	1
4	Electrochemical View of Copper Chemical-Mechanical Polishing (CMP) **2009**, 359-378		1
3	Synergistic air electrode combining carbon nanotube tissue and fluorinated graphite material in hybrid nonaqueous aluminum batteries. *Journal of Solid State Electrochemistry*,1	2.6	0
2	Silicon Texturing Under Negative Potential Dissolution (NPD) Conditions **2006**, 251-255		
1	Exploring the mechanical stability of manganese oxide as an electrocatalyst via in-situ surface stress and electrochemical quartz crystal microbalance studies. *Journal of Power Sources*, **2021**, 506, 230137	8.9	