

Yair Ein-Eli

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Molten state synthesis of nickel phosphides: mechanism and composition-activity correlation for electrochemical applications. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 27629-27638 | 13 | 1 |
| 158 | Hybridization of carbon nanotube tissue and MnO ₂ as a generic advanced air cathode in metal-air batteries. <i>Journal of Power Sources</i> , 2021 , 514, 230597 | 8.9 | 3 |
| 157 | Molecular Engineering Approaches to Fabricate Artificial Solid-Electrolyte Interphases on Anodes for Li-Ion Batteries: A Critical Review. <i>Advanced Energy Materials</i> , 2021 , 11, 2101173 | 21.8 | 19 |
| 156 | A binary carbon-free aluminum anode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2021 , 498, 229802 | 8.9 | 3 |
| 155 | Understanding the Role of Alumina (Al ₂ O ₃), Pentalithium Aluminate (Li ₅ AlO ₄), and Pentasodium Aluminate (Na ₅ AlO ₄) Coatings on the Li and Mn-Rich NCM Cathode Material 0.33Li ₂ MnO ₃ ·0.67Li(Ni _{0.4} Co _{0.2} Mn _{0.4})O ₂ for Enhanced Electrochemical Performance. <i>Advanced Energy Materials</i> , 2021 , 11, 2000089 | 15.6 | 13 |
| 154 | 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. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000089 | 1.6 | 3 |
| 153 | Atomic Layer Deposition (ALD) of Alumina over Activated Carbon Electrodes Enabling a Stable 4 V Supercapacitor Operation. <i>ChemistryOpen</i> , 2021 , 10, 402-407 | 2.3 | 1 |
| 152 | Fast Charging of Lithium-Ion Batteries: A Review of Materials Aspects. <i>Advanced Energy Materials</i> , 2021 , 11, 2101126 | 21.8 | 65 |
| 151 | AZ31 Magnesium Alloy Foils as Thin Anodes for Rechargeable Magnesium Batteries. <i>ChemSusChem</i> , 2021 , 14, 4690-4696 | 8.3 | 4 |
| 150 | Exploring the mechanical stability of manganese oxide as an electrocatalyst via in-situ surface stress and electrochemical quartz crystal microbalance studies. <i>Journal of Power Sources</i> , 2021 , 506, 230137 | 8.9 | |
| 149 | Side by Side Battery Technologies with Lithium-Ion Based Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2000089 | 21.8 | 64 |
| 148 | Aluminum electrodeposition from a non-aqueous electrolyte – combined computational and experimental study. <i>Journal of Solid State Electrochemistry</i> , 2020 , 24, 2833-2846 | 2.6 | 4 |
| 147 | Challenges and Perspectives of Metal-Based Proton Exchange Membrane's Bipolar Plates: Exploring Durability and Longevity. <i>Energy Technology</i> , 2020 , 8, 2000007 | 3.5 | 9 |
| 146 | Bottom-Up Synthesis of Advanced Carbonaceous Anode Materials Containing Sulfur for Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2000592 | 15.6 | 16 |
| 145 | Hybrid Ionic Liquid Propylene Carbonate-Based Electrolytes for Aluminum-Air Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2585-2592 | 6.1 | 10 |
| 144 | Direct Pre-lithiation of Electropolymerized Carbon Nanotubes for Enhanced Cycling Performance of Flexible Li-Ion Micro-Batteries. <i>Polymers</i> , 2020 , 12, | 4.5 | 12 |
| 143 | Insights into the surface and stress behavior of manganese-oxide catalyst during oxygen reduction reaction. <i>Journal of Power Sources</i> , 2020 , 450, 227545 | 8.9 | 4 |

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| 142 | Atomic layer deposition (ALD) of lithium fluoride (LiF) protective film on Li-ion battery LiMn _{1.5} Ni _{0.5} O ₄ cathode powder material. <i>Journal of Power Sources</i> , 2020 , 448, 227373 | 8.9 | 36 |
| 141 | Analysis on discharge behavior and performance of As- and B-doped silicon anodes in non-aqueous Si ₃ N ₄ batteries under pulsed discharge operation. <i>Journal of Applied Electrochemistry</i> , 2020 , 50, 93-109 | 2.6 | 4 |
| 140 | Interphases Formation and Analysis at the Lithium-Aluminum-Titanium-Phosphate (LATP) and Lithium-Manganese Oxide Spinel (LMO) Interface during High-Temperature Bonding. <i>Energy Technology</i> , 2020 , 8, 2000634 | 3.5 | 4 |
| 139 | Between Liquid and All Solid: A Prospect on Electrolyte Future in Lithium-Ion Batteries for Electric Vehicles. <i>Energy Technology</i> , 2020 , 8, 2000580 | 3.5 | 13 |
| 138 | A Critical Review on Functionalization of Air-Cathodes for Nonaqueous Li-O ₂ Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1808303 | 15.6 | 77 |
| 137 | Electrospun Ionomeric Fibers with Anion Conducting Properties. <i>Advanced Functional Materials</i> , 2020 , 30, 1901733 | 15.6 | 15 |
| 136 | Aluminum-ion battery technology: a rising star or a devastating fall?. <i>Journal of Solid State Electrochemistry</i> , 2020 , 24, 2067-2071 | 2.6 | 7 |
| 135 | A Critical Review: The Impact of the Battery Electrode Material Substrate on the Composition and Properties of Atomic Layer Deposition (ALD) Coatings. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901455 | 4.6 | 12 |
| 134 | Enhanced Li-O ₂ Battery Performance in a Binary Liquid Teflon and Dual Redox Mediators. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800645 | 6.8 | 10 |
| 133 | Electrodeposition of polymer electrolyte into carbon nanotube tissues for high performance flexible Li-ion microbatteries. <i>APL Materials</i> , 2019 , 7, 031506 | 5.7 | 7 |
| 132 | Proton exchange membrane (PEM) fuel cell bipolar plates prepared from a physical vapor deposition (PVD) titanium nitride (TiN) coated AISI416 stainless-steel. <i>SN Applied Sciences</i> , 2019 , 1, 1 | 1.8 | 8 |
| 131 | Unveiling ionic diffusion in MgNiMnO ₄ cathode material for Mg-ion batteries via combined computational and experimental studies. <i>Journal of Solid State Electrochemistry</i> , 2019 , 23, 3209-3216 | 2.6 | 7 |
| 130 | Meso-pores carbon nano-tubes (CNTs) tissues-perfluorocarbons (PFCs) hybrid air-electrodes for Li-O ₂ battery. <i>Journal of Power Sources</i> , 2018 , 379, 219-227 | 8.9 | 18 |
| 129 | Enhanced zinc corrosion mitigation via a tuned thermal pretreatment in an alkaline solution containing an organic inhibitor. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 2217-2226 | 2.6 | 2 |
| 128 | Investigation of the corrosion behavior of highly As-doped crystalline Si in alkaline Si ₃ N ₄ batteries. <i>Electrochimica Acta</i> , 2018 , 265, 292-302 | 6.7 | 6 |
| 127 | Operando Micro-Raman Study Revealing Enhanced Connectivity of Plasmonic Metals Decorated Silicon Anodes for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1096-1105 | 6.1 | 8 |
| 126 | Electrochemical analysis and mixed potentials theory of ionic liquid based Metal-Air batteries with Al/Si alloy anodes. <i>Electrochimica Acta</i> , 2018 , 276, 399-411 | 6.7 | 10 |
| 125 | Layered Boron-Nitrogen-Carbon-Oxygen Materials with Tunable Composition as Lithium-Ion Battery Anodes. <i>ChemSusChem</i> , 2018 , 11, 2912-2920 | 8.3 | 16 |

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| 124 | Na-ion battery cathode materials prepared by electrochemical ion exchange from alumina-coated $\text{Li}_{1+x}\text{Mn}_{0.54}\text{Co}_{0.13}\text{Ni}_{0.1+y}\text{O}_2$. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14816-14827 | 13 | 16 |
| 123 | This electrode is best served cold— reversible electrochemical lithiation of a gray cubic tin. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 3303-3310 | 2.6 | 5 |
| 122 | Investigation of Rechargeable Poly(ethylene oxide)-Based Solid Lithium-Oxygen Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3048-3056 | 6.1 | 6 |
| 121 | Low voltage electric potential as a driving force to hinder biofouling in self-supporting carbon nanotube membranes. <i>Water Research</i> , 2018 , 129, 143-153 | 12.5 | 37 |
| 120 | Carbon nanotube tissue as anode current collector for flexible Li-ion batteries—Understanding the controlling parameters influencing the electrochemical performance. <i>APL Materials</i> , 2018 , 6, 111102 | 5.7 | 9 |
| 119 | Robust AlF ₃ Atomic Layer Deposition Protective Coating on LiMn _{1.5} Ni _{0.5} O ₄ Particles: An Advanced Li-Ion Battery Cathode Material Powder. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6809-6823 | 6.1 | 29 |
| 118 | Diffusivity and Solubility of Oxygen in Solvents for Metal/Oxygen Batteries: A Combined Theoretical and Experimental Study. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A3095-A3099 | 3.9 | 15 |
| 117 | Chemical and Thermal Stability of Poly(phenylene oxide)-Based Anion Exchange Membranes Containing Alkyl Side Chains. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F1133-F1138 | 3.9 | 10 |
| 116 | Tetra-butyl ammonium fluoride —An advanced activator of aluminum surfaces in organic electrolytes for aluminum-air batteries. <i>Energy Storage Materials</i> , 2018 , 15, 465-474 | 19.4 | 16 |
| 115 | The Role of Air-Electrode Structure on the Incorporation of Immiscible PFCs in Nonaqueous Li-O Battery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9726-9737 | 9.5 | 17 |
| 114 | Distinct Copper Electrodeposited Carbon Nanotubes (CNT) Tissues as Anode Current Collectors in Li-ion Battery. <i>Electrochimica Acta</i> , 2017 , 229, 404-414 | 6.7 | 9 |
| 113 | A critical review-promises and barriers of conversion electrodes for Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 1907-1923 | 2.6 | 63 |
| 112 | Long run discharge, performance and efficiency of primary Silicon—air cells with alkaline electrolyte. <i>Electrochimica Acta</i> , 2017 , 225, 215-224 | 6.7 | 18 |
| 111 | Influence of Dopant Type and Orientation of Silicon Anodes on Performance, Efficiency and Corrosion of Silicon—air Cells with EMIm(HF) ₂ .3F Electrolyte. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2310-A2320 | 3.9 | 8 |
| 110 | An aluminum —ionic liquid interface sustaining a durable Al-air battery. <i>Journal of Power Sources</i> , 2017 , 364, 110-120 | 8.9 | 36 |
| 109 | Enhancing oxygen adsorption capabilities in Li—O ₂ battery cathodes through solid perfluorocarbons. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14152-14164 | 13 | 10 |
| 108 | Challenges and Prospect of Non-aqueous Non-alkali (NANA) Metal-Air Batteries. <i>Topics in Current Chemistry</i> , 2016 , 374, 82 | 7.2 | 15 |
| 107 | Internal pressure in superconducting Cu-intercalated Bi ₂ Se ₃ . <i>Physical Review B</i> , 2016 , 93, | 3.3 | 11 |

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| 106 | Bicarbonate and chloride anion transport in anion exchange membranes. <i>Journal of Membrane Science</i> , 2016 , 514, 125-134 | 9.6 | 53 |
| 105 | PFC and Triglyme for Li-Air Batteries: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 3370-7 | 3.4 | 12 |
| 104 | Bundled and densified carbon nanotubes (CNT) fabrics as flexible ultra-light weight Li-ion battery anode current collectors. <i>Journal of Power Sources</i> , 2016 , 312, 109-115 | 8.9 | 42 |
| 103 | Silicon Oxide Dissolution in Fluorohydrogenates Ionic Liquid. <i>Journal of the Electrochemical Society</i> , 2016 , 163, E135-E141 | 3.9 | 2 |
| 102 | Improvement of Aluminum-Air Battery Performances by the Application of Flax Straw Extract. <i>ChemSusChem</i> , 2016 , 9, 2103-11 | 8.3 | 21 |
| 101 | Conveying Advanced Li-ion Battery Materials into Practice The Impact of Electrode Slurry Preparation Skills. <i>Advanced Energy Materials</i> , 2016 , 6, 1600655 | 21.8 | 119 |
| 100 | In-Situ Spectroelectrochemical Insight Revealing Distinctive Silicon Anode Solid Electrolyte Interphase Formation in a Lithium-Ion Battery. <i>ChemistrySelect</i> , 2016 , 1, 572-576 | 1.8 | 30 |
| 99 | Aluminum corrosion mitigation in alkaline electrolytes containing hybrid inorganic/organic inhibitor system for power sources applications. <i>Journal of Power Sources</i> , 2015 , 285, 100-108 | 8.9 | 56 |
| 98 | Characterization and Chemical Stability of Anion Exchange Membranes Cross-Linked with Polar Electron-Donating Linkers. <i>Journal of the Electrochemical Society</i> , 2015 , 162, F1047-F1055 | 3.9 | 46 |
| 97 | Influence of solution volume on the dissolution rate of silicon dioxide in hydrofluoric acid. <i>ChemPhysChem</i> , 2015 , 16, 370-6 | 3.2 | 8 |
| 96 | Liquid-free lithium-oxygen batteries. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 436-40 | 16.4 | 28 |
| 95 | Atomic Layer Deposition of a Particularized Protective MgF ₂ Film on a Li-Ion Battery LiMn _{1.5} Ni _{0.5} O ₄ Cathode Powder Material. <i>ChemNanoMat</i> , 2015 , 1, 577-585 | 3.5 | 36 |
| 94 | Comprehensive Route to the Formation of Alloy Interface in Core/Shell Colloidal Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 12749-12756 | 3.8 | 26 |
| 93 | Phenomenological Transition of an Aluminum Surface in an Ionic Liquid and Its Beneficial Implementation in Batteries. <i>Langmuir</i> , 2015 , 31, 13860-6 | 4 | 16 |
| 92 | Liquid-Free Lithium-Oxygen Batteries. <i>Angewandte Chemie</i> , 2015 , 127, 446-450 | 3.6 | 40 |
| 91 | In-situ Raman spectroscopy mapping of Si based anode material lithiation. <i>Journal of Power Sources</i> , 2015 , 282, 294-298 | 8.9 | 35 |
| 90 | A critical review on lithium-air battery electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 2801-2836 | 3.6 | 357 |
| 89 | Copper corrosion mitigation by binary inhibitor compositions of potassium sorbate and benzotriazole. <i>Corrosion Science</i> , 2014 , 82, 271-279 | 6.8 | 54 |

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| 88 | Features of Copper Passivity in Alkaline Solutions at Potentials below Cu ₂ O Formation. <i>Journal of the Electrochemical Society</i> , 2014 , 161, C77-C82 | 3.9 | 5 |
| 87 | Catalyst-Free Electrochemical Grignard Reagent Synthesis with Room-Temperature Ionic Liquids. <i>ChemElectroChem</i> , 2014 , 1, 362-365 | 4.3 | 5 |
| 86 | Aluminum-air battery based on an ionic liquid electrolyte. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20237-20242 | 3.9 | 5 |
| 85 | Review of Advanced Materials for Proton Exchange Membrane Fuel Cells. <i>Energy & Fuels</i> , 2014 , 28, 7303-7330 | 4.1 | 437 |
| 84 | Electrochemical Grignard Reagent Synthesis for Ionic-Liquid-Based Magnesium-air Batteries. <i>ChemElectroChem</i> , 2014 , 1, 1319-1326 | 4.3 | 8 |
| 83 | Realization of an Artificial Three-Phase Reaction Zone in a Li-air Battery. <i>ChemElectroChem</i> , 2014 , 1, 90-94 | 4.3 | 56 |
| 82 | Influence of Sulfone Linkage on the Stability of Aromatic Quaternary Ammonium Polymers for Alkaline Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F615-F621 | 3.9 | 61 |
| 81 | Hybrid mesostructured electrodes for fast-switching proton-based solid state electrochromic devices. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 151-159 | 7.1 | 24 |
| 80 | Distinct view on batteries performance analysis. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 707, 85-88 | 4.1 | 5 |
| 79 | Copper vanadate as promising high voltage cathodes for Li thermal batteries. <i>Journal of Power Sources</i> , 2013 , 229, 112-116 | 8.9 | 33 |
| 78 | The impact of nano-scaled materials on advanced metal-air battery systems. <i>Nano Energy</i> , 2013 , 2, 468-480 | 7.1 | 126 |
| 77 | Reference electrode assembly and its use in the study of fluorohydrogenate ionic liquid silicon electrochemistry. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 17837-45 | 3.6 | 12 |
| 76 | New insight into the discharge mechanism of silicon-air batteries using electrochemical impedance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3256-63 | 3.6 | 19 |
| 75 | Limitation of discharge capacity and mechanisms of air-electrode deactivation in silicon-air batteries. <i>ChemSusChem</i> , 2012 , 5, 2278-85 | 8.3 | 18 |
| 74 | Seedless copper electroplating on Ta from an alkaline activated bath. <i>Electrochimica Acta</i> , 2012 , 82, 367-371 | 6.7 | 8 |
| 73 | Higher, Stronger, Better—A Review of 5 Volt Cathode Materials for Advanced Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2012 , 2, 922-939 | 21.8 | 527 |
| 72 | Comment on Oxygen Solubility Measurements in Non-Aqueous Electrolytes. <i>Journal of the Electrochemical Society</i> , 2011 , 158, S13 | 3.9 | 4 |
| 71 | A silicon-air battery utilizing a composite polymer electrolyte. <i>Electrochimica Acta</i> , 2011 , 58, 161-164 | 6.7 | 13 |

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| 70 | Review on Li-air batteries: Opportunities, limitations and perspective. <i>Journal of Power Sources</i> , 2011 , 196, 886-893 | 8.9 | 488 |
| 69 | Remarkable impact of water on the discharge performance of a silicon-air battery. <i>ChemSusChem</i> , 2011 , 4, 1124-9 | 8.3 | 25 |
| 68 | Molecular optimization of multiply-functionalized mesoporous films with ion conduction properties. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16023-36 | 16.4 | 9 |
| 67 | Photocatalytic inactivation of microorganisms using nanotubular TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2011 , 101, 212-219 | 21.8 | 45 |
| 66 | Copper sulfates as cathode materials for Li batteries. <i>Journal of Power Sources</i> , 2011 , 196, 1461-1468 | 8.9 | 7 |
| 65 | Porous Silicon Formation in Fluorohydrogenate Ionic Liquids. <i>Journal of the Electrochemical Society</i> , 2010 , 157, H281 | 3.9 | 14 |
| 64 | Achieving Extreme Etching Rates by Overcoming Silicon Passivity. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, H185 | | 1 |
| 63 | A peculiar cathodic process during iron and steel corrosion in sulfate reducing bacteria (SRB) media. <i>Corrosion Science</i> , 2010 , 52, 1536-1540 | 6.8 | 10 |
| 62 | Electrochemical Impedance Spectroscopy of Porous TiO ₂ for Photocatalytic Applications. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 9781-9790 | 3.8 | 89 |
| 61 | Potassium sorbate as an inhibitor in copper chemical mechanical planarization slurries. Part II: Effects of sorbate on chemical mechanical planarization performance. <i>Electrochimica Acta</i> , 2010 , 55, 2810-2816 | 6.7 | 11 |
| 60 | Study and development of non-aqueous silicon-air battery. <i>Journal of Power Sources</i> , 2010 , 195, 4963-4970 | 8.0 | 51 |
| 59 | Potassium sorbate as an inhibitor in copper chemical mechanical planarization slurry. Part I. Elucidating slurry chemistry. <i>Electrochimica Acta</i> , 2010 , 55, 3560-3571 | 6.7 | 11 |
| 58 | Seedless copper electroplating on Ta from a single electrolytic bath. <i>Electrochimica Acta</i> , 2010 , 55, 1656-1663 | 6.7 | 15 |
| 57 | Corrosion Inhibition of Copper by Dinitrobenzimidazole in Phosphate Solutions. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, C21 | | 2 |
| 56 | Enhanced inactivation of E. coli bacteria using immobilized porous TiO ₂ photoelectrocatalysis. <i>Electrochimica Acta</i> , 2009 , 54, 3381-3386 | 6.7 | 75 |
| 55 | Silicon-air batteries. <i>Electrochemistry Communications</i> , 2009 , 11, 1916-1918 | 5.1 | 64 |
| 54 | Ruthenium electrodeposition on silicon from a room-temperature ionic liquid. <i>Electrochimica Acta</i> , 2009 , 54, 6042-6045 | 6.7 | 31 |
| 53 | Enhanced reversible electrochromism via in situ phase transformation in tungstate monohydrate. <i>Chemical Communications</i> , 2009 , 7396-8 | 5.8 | 23 |

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| 52 | Electrochemical View of Copper Chemical-Mechanical Polishing (CMP) 2009 , 359-378 | | 1 |
| 51 | From Food Preservation to Surface Protection: Enhanced Corrosion Protection by Fatty Acid Salts. <i>Israel Journal of Chemistry</i> , 2008 , 48, 319-332 | 3-4 | 1 |
| 50 | Anodic electrode reaction of p-type silicon in 1-ethyl-3-methylimidazolium fluorohydrogenate room-temperature ionic liquid. <i>Electrochimica Acta</i> , 2008 , 53, 3650-3655 | 6.7 | 16 |
| 49 | End-point detection of copper super-filling in small features under a potentiostatic mode of operation. <i>Electrochimica Acta</i> , 2008 , 53, 7884-7889 | 6.7 | 4 |
| 48 | Electrochemical deposition of ultrathin ruthenium films on Au(111) from an ionic liquid. <i>Chemical Physics Letters</i> , 2008 , 460, 178-181 | 2.5 | 23 |
| 47 | Enhanced tungstate electrochromism via formation of transparent conductive networks. <i>Electrochemistry Communications</i> , 2008 , 10, 1210-1213 | 5.1 | 23 |
| 46 | Enhanced copper surface protection in aqueous solutions containing short-chain alkanolic acid potassium salts. <i>Langmuir</i> , 2007 , 23, 11281-8 | 4 | 38 |
| 45 | Acid-Functionalized Mesostructured Aluminosilica for Hydrophilic Proton Conduction Membranes. <i>Advanced Materials</i> , 2007 , 19, 2580-2587 | 24 | 61 |
| 44 | Potassium sorbate: A new aqueous copper corrosion inhibitor. <i>Electrochimica Acta</i> , 2007 , 52, 1975-1982 | 6.7 | 31 |
| 43 | Potassium sorbate solutions as copper chemical mechanical planarization (CMP) based slurries. <i>Electrochimica Acta</i> , 2007 , 52, 5150-5158 | 6.7 | 10 |
| 42 | Reprint of Potassium sorbate solutions as copper chemical mechanical planarization (CMP) based slurries. <i>Electrochimica Acta</i> , 2007 , 53, 1021-1029 | 6.7 | 3 |
| 41 | Enhanced photo-efficiency of immobilized TiO ₂ catalyst via intense anodic bias. <i>Electrochemistry Communications</i> , 2007 , 9, 1684-1688 | 5.1 | 43 |
| 40 | Review on copper chemical mechanical polishing (CMP) and post-CMP cleaning in ultra large system integrated (ULSI): An electrochemical perspective. <i>Electrochimica Acta</i> , 2007 , 52, 1825-1838 | 6.7 | 139 |
| 39 | Reduced contact resistance of PEM fuel cell's bipolar plates via surface texturing. <i>Journal of Power Sources</i> , 2007 , 164, 697-703 | 8.9 | 93 |
| 38 | Macroporous Silicon Formation on n-Si in Room-Temperature Fluorohydrogenate Ionic Liquid. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, D25 | | 14 |
| 37 | Copper Repassivation Characteristics in Carbonate-Based Solutions. <i>Journal of the Electrochemical Society</i> , 2006 , 153, B337 | 3.9 | 19 |
| 36 | Food Preservatives Serving as Nonselective Metal and Alloy Corrosion Inhibitors. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, B5 | | 12 |
| 35 | Initiation of copper dissolution in sodium chloride electrolytes. <i>Electrochimica Acta</i> , 2006 , 51, 5660-5668 | 6.7 | 21 |

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| 34 | In situ STM studies of zinc in aqueous solutions containing PEG DiAcid inhibitor: Correlation with electrochemical performances of zinc-air fuel cells. <i>Journal of Power Sources</i> , 2006 , 157, 584-591 | 8.9 | 25 |
| 33 | PEM FC with improved water management. <i>Journal of Power Sources</i> , 2006 , 160, 194-201 | 8.9 | 18 |
| 32 | Reduced light reflection of textured multicrystalline silicon via NPD for solar cells applications. <i>Solar Energy Materials and Solar Cells</i> , 2006 , 90, 1764-1772 | 6.4 | 10 |
| 31 | Silicon Texturing Under Negative Potential Dissolution (NPD) Conditions 2006 , 251-255 | | |
| 30 | Copper Passivity in Carbonate Base Solutions and its Application in Chemical Mechanical Planarization (CMP) 2006 , 125-130 | | 1 |
| 29 | Origin of 5 V Electrochemical Activity Observed in Non-Redox Reactive Divalent Cation Doped $\text{LiM}_{0.5}\text{Mn}_{1.5+x}\text{O}_4$ ($0 \leq x \leq 0.5$) Cathode Materials. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1902 | 3.9 | 24 |
| 28 | Negative potential dissolution (NPD)-advanced and rapid texturing method of as-cut silicon. <i>Electrochimica Acta</i> , 2005 , 50, 5313-5321 | 6.7 | 6 |
| 27 | Low temperature performance of copper/nickel modified LiMn_2O_4 spinels. <i>Electrochimica Acta</i> , 2005 , 50, 1931-1937 | 6.7 | 32 |
| 26 | An alternative isolation of tungsten tips for a scanning tunneling microscope. <i>Review of Scientific Instruments</i> , 2005 , 76, 106105 | 1.7 | 13 |
| 25 | Observation of Extended Copper Passivity in Carbonate Solutions and Its Future Application in Copper CMP. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, B69 | | 8 |
| 24 | Enhanced Inhibition of Zinc Corrosion in Alkaline Solutions Containing Carboxylic Acid Modified PEG. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1158 | 3.9 | 19 |
| 23 | Unexpected 5 V Behavior of Zn-Doped Mn Spinel Cathode Material. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A141 | | 22 |
| 22 | Electrochemical Behavior of Copper in Conductive Peroxide Solutions. <i>Journal of the Electrochemical Society</i> , 2004 , 151, G236 | 3.9 | 29 |
| 21 | Perspective on Si Negative Potential Dissolution Mechanism. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, G168 | | 9 |
| 20 | Texturing of As-cut Silicon Conducted under Negative Potentials. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, G75 | | 7 |
| 19 | Electrochemical aspects of copper chemical mechanical planarization (CMP) in peroxide based slurries containing BTA and glycine. <i>Electrochimica Acta</i> , 2004 , 49, 1499-1503 | 6.7 | 42 |
| 18 | In situ synchrotron X-ray studies on copper-nickel 5 V Mn oxide spinel cathodes for Li-ion batteries. <i>Electrochimica Acta</i> , 2004 , 49, 3373-3382 | 6.7 | 72 |
| 17 | Enhanced Corrosion Inhibition of Zn in Alkaline Solutions Containing Poly(ethylene glycol) Diacid. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, B5 | | 12 |

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| 16 | The Behavior of Zinc Metal in Alkaline Solution Containing Organic Inhibitors. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A1614 | 3.9 | 18 |
| 15 | Electrochemical and surface studies of zinc in alkaline solutions containing organic corrosion inhibitors. <i>Journal of Power Sources</i> , 2003 , 114, 330-337 | 8.9 | 111 |
| 14 | The Compatibility of Copper CMP Slurries with CMP Requirements. <i>Journal of the Electrochemical Society</i> , 2003 , 150, C646 | 3.9 | 48 |
| 13 | Silicon Texturing in Alkaline Media Conducted Under Extreme Negative Potentials. <i>Electrochemical and Solid-State Letters</i> , 2003 , 6, C47 | | 16 |
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| 10 | Dithiocarbonic anhydride (CS ₂) III new additive in Li-ion battery electrolytes. <i>Journal of Electroanalytical Chemistry</i> , 2002 , 531, 95-99 | 4.1 | 19 |
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| 8 | A New Perspective on the Formation and Structure of the Solid Electrolyte Interface at the Graphite Anode of Li-Ion Cells. <i>Electrochemical and Solid-State Letters</i> , 1999 , 2, 212 | | 144 |
| 7 | The Superiority of Asymmetric Alkyl Methyl Carbonates. <i>Journal of the Electrochemical Society</i> , 1998 , 145, L1-L3 | 3.9 | 54 |
| 6 | In situ Synchrotron X-ray Studies on Novel Mn Oxide Spinel Cathodes for Li-ion Batteries: Influence of Other Transition Elements. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 548, 149 | | 4 |
| 5 | The use of S,S-dialkyl dithiocarbonates in Li ion battery electrolytes. <i>Journal of Solid State Electrochemistry</i> , 1997 , 1, 227-231 | 2.6 | 8 |
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