

Seung M Oh

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h-index

85
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117
ext. papers

8,082
ext. citations

7.9
avg, IF

5.87
L-index

#	Paper	IF	Citations
115	Dissolution of Spinel Oxides and Capacity Losses in 4 V Li / Li x Mn ₂ O ₄ Cells. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 2204-2211	3.9	705
114	An amorphous red phosphorus/carbon composite as a promising anode material for sodium ion batteries. <i>Advanced Materials</i> , 2013 , 25, 3045-9	24	685
113	Failure Modes of Silicon Powder Negative Electrode in Lithium Secondary Batteries. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, A306		513
112	High-capacity anode materials for sodium-ion batteries. <i>Chemistry - A European Journal</i> , 2014 , 20, 11980-93	4.8	442
111	Sodium terephthalate as an organic anode material for sodium ion batteries. <i>Advanced Materials</i> , 2012 , 24, 3562-7	24	382
110	Tin phosphide as a promising anode material for Na-ion batteries. <i>Advanced Materials</i> , 2014 , 26, 4139-44	24	316
109	Solution-Processable Glass Li ⁺ -Li ₄ SnS ₄ Superionic Conductors for All-Solid-State Li-Ion Batteries. <i>Advanced Materials</i> , 2016 , 28, 1874-83	24	214
108	Na ₃ SbS ₄ : A Solution Processable Sodium Superionic Conductor for All-Solid-State Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9634-8	16.4	197
107	Solid-State NMR and Electrochemical Dilatometry Study on Li ⁺ Uptake/Extraction Mechanism in SiO Electrode. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A1112	3.9	162
106	Improvement of silicon powder negative electrodes by copper electroless deposition for lithium secondary batteries. <i>Journal of Power Sources</i> , 2005 , 147, 227-233	8.9	146
105	Degradation mechanisms in doped spinels of LiM _{0.05} Mn _{1.95} O ₄ (M=Li, B, Al, Co, and Ni) for Li secondary batteries. <i>Journal of Power Sources</i> , 2000 , 89, 7-14	8.9	144
104	Failure mechanisms of LiNi _{0.5} Mn _{1.5} O ₄ electrode at elevated temperature. <i>Journal of Power Sources</i> , 2012 , 215, 312-316	8.9	137
103	Reversible Lithium Storage with High Mobility at Structural Defects in Amorphous Molybdenum Dioxide Electrode. <i>Advanced Functional Materials</i> , 2012 , 22, 3658-3664	15.6	134
102	Thermoelectrochemically Activated MoO ₂ Powder Electrode for Lithium Secondary Batteries. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A688	3.9	134
101	Na _{4-x/2} (P ₂ O ₇) ₂ (2/3 ≤ x/8, M = Fe, Fe _{0.5} Mn _{0.5} , Mn): A Promising Sodium Ion Cathode for Na-ion Batteries. <i>Advanced Energy Materials</i> , 2013 , 3, 770-776	21.8	128
100	Reversible Lithium Storage at Highly Populated Vacant Sites in an Amorphous Vanadium Pentoxide Electrode. <i>Chemistry of Materials</i> , 2014 , 26, 5874-5881	9.6	119
99	Impedance analysis of porous carbon electrodes to predict rate capability of electric double-layer capacitors. <i>Journal of Power Sources</i> , 2014 , 267, 411-420	8.9	118

98	Si-Encapsulating Hollow Carbon Electrodes via Electroless Etching for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013 , 3, 206-212	21.8	102
97	Continuous activation of Li ₂ MnO ₃ component upon cycling in Li _{1.167} Ni _{0.233} Co _{0.100} Mn _{0.467} Mo _{0.033} O ₂ cathode material for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2833	13	99
96	Complex capacitance analysis on rate capability of electric-double layer capacitor (EDLC) electrodes of different thickness. <i>Electrochimica Acta</i> , 2005 , 50, 2255-2262	6.7	98
95	Effect of carbon additive on electrochemical performance of LiCoO ₂ composite cathodes. <i>Journal of Power Sources</i> , 2002 , 111, 90-96	8.9	95
94	Carbon nanotubes (CNTs) as a buffer layer in silicon/CNTs composite electrodes for lithium secondary batteries. <i>Journal of Power Sources</i> , 2006 , 162, 1275-1281	8.9	94
93	Two-Dimensional Phosphorene-Derived Protective Layers on a Lithium Metal Anode for Lithium-Oxygen Batteries. <i>ACS Nano</i> , 2018 , 12, 4419-4430	16.7	92
92	Si-carbon core-shell composite anode in lithium secondary batteries. <i>Electrochimica Acta</i> , 2007 , 52, 7061-7067	10.7	86
91	The role of in situ generated nano-sized metal particles on the coulombic efficiency of MGeO ₃ (M = Cu, Fe, and Co) electrodes. <i>Electrochimica Acta</i> , 2009 , 54, 4371-4377	6.7	85
90	Complex Capacitance Analysis of Porous Carbon Electrodes for Electric Double-Layer Capacitors. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A571	3.9	84
89	Fading mechanisms of carbon-coated and disproportionated Si/SiO _x negative electrode (Si/SiO _x /C) in Li-ion secondary batteries: Dynamics and component analysis by TEM. <i>Electrochimica Acta</i> , 2012 , 85, 369-376	6.7	80
88	Re-Deposition of Manganese Species on Spinel LiMn ₂ O ₄ Electrode after Mn Dissolution. <i>Journal of the Electrochemical Society</i> , 2012 , 159, A193-A197	3.9	78
87	Complex Capacitance Analysis on Leakage Current Appearing in Electric Double-layer Capacitor Carbon Electrode. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1418	3.9	74
86	The Role of Metallic Fe and Carbon Matrix in Fe ₂ O ₃ /Fe/Carbon Nanocomposite for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A412	3.9	72
85	Poly(phenanthrenequinone) as a conductive binder for nano-sized silicon negative electrodes. <i>Energy and Environmental Science</i> , 2015 , 8, 1538-1543	35.4	61
84	Surface Film Formation on LiNi _{0.5} Mn _{1.5} O ₄ Electrode in an Ionic Liquid Solvent at Elevated Temperature. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A453	3.9	59
83	Li ⁺ storage sites in non-graphitizable carbons prepared from methylnaphthalene-derived isotropic pitches. <i>Carbon</i> , 2000 , 38, 995-1001	10.4	59
82	Na ₃ Sb ₅ S ₄ : A Solution Processable Sodium Superionic Conductor for All-Solid-State Sodium-Ion Batteries. <i>Angewandte Chemie</i> , 2016 , 128, 9786-9790	3.6	53
81	Electrochemical stability of bis(trifluoromethanesulfonyl)imide-based ionic liquids at elevated temperature as a solvent for a titanium oxide bronze electrode. <i>Journal of Power Sources</i> , 2009 , 194, 1068-1074	8.9	51

80	Electrochemical Activation of Expanded Graphite Electrode for Electrochemical Capacitor. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A685	3.9	51
79	New dry carbon nanotube coating of over-lithiated layered oxide cathode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19670-19677	13	48
78	Electrochemical Dilatometry Study on Si-Embedded Carbon Nanotube Powder Electrodes. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, A142		45
77	Mechanism of Co ₃ O ₄ /graphene catalytic activity in LiO ₂ batteries using carbonate based electrolytes. <i>Electrochimica Acta</i> , 2013 , 90, 63-70	6.7	44
76	Solventless synthesis of an iron-oxide/graphene nanocomposite and its application as an anode in high-rate Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 15442	13	44
75	A photo-cross-linkable polymeric binder for silicon anodes in lithium ion batteries. <i>RSC Advances</i> , 2013 , 3, 12625	3.7	43
74	A Bifunctional Electrolyte Additive for High-Voltage LiNiMnO Positive Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11306-11316	9.5	38
73	Performance Improvement of Nano-Sized Zinc Oxide Electrode by Embedding in Carbon Matrix for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A11-A14	3.9	38
72	Site-Selective In Situ Electrochemical Doping for Mn-Rich Layered Oxide Cathode Materials in Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702514	21.8	37
71	Direct Access to Mesoporous Crystalline TiO ₂ /Carbon Composites with Large and Uniform Pores for Use as Anode Materials in Lithium Ion Batteries. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 383-390	2.6	37
70	Comparative Study on Surface Films from Ionic Liquids Containing Saturated and Unsaturated Substituent for LiCoO ₂ . <i>Journal of the Electrochemical Society</i> , 2010 , 157, A136	3.9	37
69	Allylic ionic liquid electrolyte-assisted electrochemical surface passivation of LiCoO ₂ for advanced, safe lithium-ion batteries. <i>Scientific Reports</i> , 2014 , 4, 5802	4.9	36
68	Effect of fluoroethylene carbonate on electrochemical battery performance and the surface chemistry of amorphous MoO ₂ lithium-ion secondary battery negative electrodes. <i>Electrochimica Acta</i> , 2014 , 132, 338-346	6.7	34
67	1,3,5-Trihydroxybenzene as a film-forming additive for high-voltage positive electrode. <i>Electrochemistry Communications</i> , 2013 , 27, 26-28	5.1	34
66	Pyrrrolinium-based Ionic Liquid as a Flame Retardant for Binary Electrolytes of Lithium Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 497-505	8.3	33
65	A tetradentate Ni(II) complex cation as a single redox couple for non-aqueous flow batteries. <i>Journal of Power Sources</i> , 2015 , 283, 300-304	8.9	33
64	Passivating Ability of Surface Film Derived from Vinylene Carbonate on Tin Negative Electrode. <i>Journal of the Electrochemical Society</i> , 2011 , 158, A498	3.9	33
63	Performance of electrochemically generated Li ₂ Si ₅ phase for lithium-ion batteries. <i>Electrochimica Acta</i> , 2010 , 55, 8051-8055	6.7	32

62	Increase of both solubility and working voltage by acetyl substitution on ferrocene for non-aqueous flow battery. <i>Electrochemistry Communications</i> , 2016 , 69, 72-75	5.1	30
61	A Comparative Study on Thermal Stability of Two Solid Electrolyte Interphase (SEI) Films on Graphite Negative Electrode. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1539-A1543	3.9	30
60	N-ferrocenylphthalimide; A single redox couple formed by attaching a ferrocene moiety to phthalimide for non-aqueous flow batteries. <i>Journal of Power Sources</i> , 2018 , 395, 60-65	8.9	29
59	Polymer-derived carbon nanofiber network supported SnO ₂ nanocrystals: a superior lithium secondary battery material. <i>Journal of Materials Chemistry</i> , 2011 , 21, 19302		28
58	Compositional Change of Surface Film Deposited on LiNi _{0.5} Mn _{1.5} O ₄ Positive Electrode. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A519-A523	3.9	27
57	Thermal Degradation of Solid Electrolyte Interphase (SEI) Layers by Phosphorus Pentafluoride (PF ₅) Attack. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2418-A2425	3.9	27
56	Impedance analysis for hydrogen adsorption pseudocapacitance and electrochemically active surface area of Pt electrode. <i>Langmuir</i> , 2009 , 25, 11947-54	4	27
55	Thermo-electrochemical Activation of an InCu Intermetallic Electrode for the Anode in Lithium Secondary Batteries. <i>Advanced Functional Materials</i> , 2008 , 18, 3010-3017	15.6	26
54	Electrochemical activation behaviors studied with graphitic carbon electrodes of different interlayer distance. <i>Electrochimica Acta</i> , 2011 , 56, 9931-9936	6.7	22
53	A comparative study on the solubility and stability of p -phenylenediamine-based organic redox couples for non-aqueous flow batteries. <i>Journal of Power Sources</i> , 2017 , 348, 264-269	8.9	20
52	Thermal Behavior of Solid Electrolyte Interphase Films Deposited on Graphite Electrodes with Different States-of-Charge. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A892-A896	3.9	20
51	Tris(pentafluorophenyl)silane as an Electrolyte Additive for 5 V LiNi _{0.5} Mn _{1.5} O ₄ Positive Electrode. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A898-A903	3.9	20
50	Damascene Cu electrodeposition on metal organic chemical vapor deposition-grown Ru thin film barrier. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 2649		20
49	Effective passivation of a high-voltage positive electrode by 5-hydroxy-1H-indazole additives. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14628-14633	13	18
48	Unusual Conversion-type Lithiation in LiVO ₃ Electrode for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 5314-5320	9.6	18
47	A first-cycle coulombic efficiency higher than 100% observed for a Li ₂ MO ₃ (M = Mo or Ru) electrode. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10654-7	16.4	17
46	Autonomous Graphene Vessel for Suctioning and Storing Liquid Body of Spilled Oil. <i>Scientific Reports</i> , 2016 , 6, 22339	4.9	16
45	Passivating film artificially built on LiNi _{0.5} Mn _{1.5} O ₄ by molecular layer deposition of (pentafluorophenylpropyl)trimethoxysilane. <i>Journal of Power Sources</i> , 2018 , 392, 159-167	8.9	16

44	Mechanical Damage of Surface Films and Failure of Nano-Sized Silicon Electrodes in Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A6103-A6109	3.9	16
43	An azamacrocyclic electrolyte additive to suppress metal deposition in lithium-ion batteries. <i>Electrochemistry Communications</i> , 2015 , 58, 25-28	5.1	15
42	An EVS (electrochemical voltage spectroscopy) study for the comparison of graphitization behaviors of two petroleum needle cokes. <i>Carbon</i> , 2000 , 38, 1261-1269	10.4	15
41	N-(Ferrocenyl)ethylphthalimide as a single redox couple for non-aqueous flow batteries. <i>Journal of Power Sources</i> , 2019 , 421, 1-5	8.9	14
40	A Calculation Model to Assess Two Irreversible Capacities Evolved in Silicon Negative Electrodes. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A1579-A1584	3.9	13
39	Carbon fabric as a current collector for electroless-plated Cu ₆ Sn ₅ negative electrode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017 , 692, 583-588	5.7	13
38	Electrode Performances of Amorphous Molybdenum Oxides of Different Molybdenum Valence for Lithium-ion Batteries. <i>Israel Journal of Chemistry</i> , 2015 , 55, 604-610	3.4	12
37	Solid Permeable Interface (SPI) on a High-Voltage Positive Electrode of Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A575-A583	3.9	12
36	The feasibility of a pyrrolidinium-based ionic liquid solvent for non-graphitic carbon electrodes. <i>Electrochemistry Communications</i> , 2011 , 13, 1256-1259	5.1	12
35	Ni(II)-chelated thio-crown complex as a single redox couple for non-aqueous flow batteries. <i>Electrochemistry Communications</i> , 2017 , 85, 36-39	5.1	11
34	The Investigation of Electrolyte Oxidation and Film Deposition Characteristics at High Potentials in a Carbonate-Based Electrolyte Using Pt Electrode. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A1095-A1098	3.9	11
33	Dissolution of cathode-electrolyte interphase deposited on LiNi _{0.5} Mn _{1.5} O ₄ for lithium-ion batteries. <i>Journal of Power Sources</i> , 2021 , 503, 230051	8.9	10
32	Bi-functional effects of lengthening aliphatic chain of phthalimide-based negative redox couple and its non-aqueous flow battery performance at stack cell. <i>APL Materials</i> , 2018 , 6, 047901	5.7	8
31	Copper Oxide as a Hydrogen Fluoride Scavenger for High-Voltage LiNi _{0.5} Mn _{1.5} O ₄ Positive Electrode. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2677-A2682	3.9	8
30	Effects of Interlayer Distance and van der Waals Energy on Electrochemical Activation of Partially Reduced Graphite Oxide. <i>Electrochimica Acta</i> , 2015 , 173, 827-833	6.7	8
29	Surface Modification of LiCoO ₂ by NASICON-Type Ceramic Materials for Lithium Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 4977-4982	1.3	7
28	Counter anion effects on the energy density of Ni(II)-chelated tetradentate azamacrocyclic complex as single redox couple for non-aqueous flow batteries. <i>Electrochimica Acta</i> , 2019 , 308, 227-230	6.7	7
27	Grafting Nitrophenyl Groups on Carbon Surfaces by Diazonium Chemistry to Suppress Irreversible Reactions in High-Voltage LiNi _{0.5} Mn _{1.5} O ₄ Positive Electrodes. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A1372-A1376	3.9	7

26	Potential-dependent Complex Capacitance Analysis for Porous Carbon Electrodes. <i>Journal of the Korean Electrochemical Society</i> , 2003 , 6, 255-260		7
25	Ultrathin NiO nanoflakes perpendicularly oriented on carbon nanotubes as lithium ion battery anode. <i>Journal of Materials Research</i> , 2013 , 28, 2577-2583	2.5	6
24	Composites: An Amorphous Red Phosphorus/Carbon Composite as a Promising Anode Material for Sodium Ion Batteries (Adv. Mater. 22/2013). <i>Advanced Materials</i> , 2013 , 25, 3010-3010	24	6
23	Relationship between Particle Hardness of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ and its Electrochemical Stability at High Temperature. <i>Bulletin of the Korean Chemical Society</i> , 2016 , 37, 1298-1304	1.2	6
22	Degradation of surface film on LiCoO ₂ electrode by hydrogen fluoride attack at moderately elevated temperature. <i>Electrochimica Acta</i> , 2018 , 277, 59-66	6.7	4
21	Highly flexible TiO ₂ -coated stainless steel fabric electrode prepared by liquid-phase deposition. <i>Journal of Power Sources</i> , 2016 , 330, 204-210	8.9	4
20	Novel silicon/tungsten oxide-carbon composite as advanced negative electrode for lithium-ion batteries. <i>Solid State Ionics</i> , 2018 , 314, 41-45	3.3	4
19	An Azamacrocyclic Ligand-Functionalized Transition-Metal Scavenging Polymer for 5.0 V Class High-Energy Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 128-133	6.1	4
18	Artificially-built solid electrolyte interphase via surface-bonded vinylene carbonate derivative on graphite by molecular layer deposition. <i>Journal of Power Sources</i> , 2017 , 370, 131-137	8.9	3
17	A comparative study of polarization during the initial lithiation step in tungsten-oxide negative electrodes for lithium-ion batteries. <i>Solid State Ionics</i> , 2017 , 311, 1-5	3.3	3
16	Amorphous Vanadium Titanates as a Negative Electrode for Lithium-ion Batteries. <i>Journal of Electrochemical Science and Technology</i> , 2016 , 7, 306-315	3.2	3
15	Tris(pentafluorophenyl)silane as a Solid Electrolyte Interphase (SEI)-Forming Agent for Graphite Electrodes. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A1887-A1892	3.9	2
14	Communication Aliphatic Chain Substitution for Enhancing Energy Density of p-Benzoquinone Redox Couple for Non-Aqueous Flow Batteries. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 020551	3.9	2
13	Effect of Pre-Cycling Rate on the Passivating Ability of Surface Films on Li ₄ Ti ₅ O ₁₂ Electrodes. <i>Journal of Electrochemical Science and Technology</i> , 2017 , 8, 15-24	3.2	2
12	Co-activated Conversion Reaction of MoO ₃ :CoMoO ₄ as a Negative Electrode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 9814-9819	9.5	2
11	Ordered mesoporous tungsten oxide-carbon nanocomposite for use as a highly reversible negative electrode in lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020 , 832, 154816	5.7	1
10	A First-Cycle Coulombic Efficiency Higher than 100 % Observed for a Li ₂ MO ₃ (M=Mo or Ru) Electrode. <i>Angewandte Chemie</i> , 2014 , 126, 10830-10833	3.6	1
9	Amorphous Vanadium Titanates as a Negative Electrode for Lithium-ion Batteries. <i>Journal of Electrochemical Science and Technology</i> , 2016 , 7, 306-315	3.2	1

8	A comparative study of increased lithium storage with low resistance at structural defects in amorphous titanium dioxide electrode. <i>Electrochimica Acta</i> , 2021 , 398, 139358	6.7	1
7	Hydrothermally synthesized tin (IV) sulfide as a negative electrode for sodium-ion batteries and its sodiation mechanism. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 808, 137-140	4.1	1
6	Advanced Batteries for Electric Vehicles and Energy Storage Systems 579-596		1
5	Concentration Gradient Induced Delithiation Failure of MoO for Li-Ion Batteries.. <i>Nano Letters</i> , 2022 , 22, 761-767	11.5	0
4	Effect of Radical Solvent Interaction on Battery Performance in Benzophenone-Based Charge Storage Systems. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 160526	3.9	0
3	Permeable characteristics of surface film deposited on LiMnO positive electrode revealed by redox-active indicator. <i>Nano Convergence</i> , 2021 , 8, 21	9.2	
2	Surface Film Degradation on LiCoO ₂ Electrode by Hydrogen Fluoride Attack at Moderately Elevated Temperature and CuO Addition to Mitigate the Degradation. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A195-A200	3.9	
1	A comparative study of reaction mechanism of MoS ₂ negative electrode materials for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 876, 160182	5.7	