

Hubert A Gasteiger

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	The LiNiO ₂ Cathode Active Material: A Comprehensive Study of Calcination Conditions and their Correlation with Physicochemical Properties Part II. Morphology. Journal of the Electrochemical Society, 2022, 169, 020529.	1.3	28
2	Effect and Progress of the Amorphization Process for Microscale Silicon Particles under Partial Lithiation as Active Material in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2022, 169, 020536.	1.3	14
3	Correlating the Voltage Hysteresis in Li- and Mn-Rich Layered Oxides to Reversible Structural Changes by Using X-ray and Neutron Powder Diffraction. Journal of the Electrochemical Society, 2022, 169, 020554.	1.3	3
4	Elucidating the Implications of Morphology on Fundamental Characteristics of Nickel-Rich NCMs: Cracking, Gassing, Rate Capability, and Thermal Stability of Poly- and Single-Crystalline NCM622. Journal of the Electrochemical Society, 2022, 169, 050501.	1.3	11
5	Diagnosing Battery Degradation via Gas Analysis. Energy and Environmental Materials, 2022, 5, 688-692.	7.3	7
6	Modification of the Electrochemical Surface Oxide Formation and the Hydrogen Oxidation Activity of Ruthenium by Strong Metal Support Interactions. Journal of the Electrochemical Society, 2022, 169, 034519.	1.3	7
7	Classification of Heat Evolution Terms in Li-Ion Batteries Regarding the OCV Hysteresis in a Li- and Mn-Rich NCM Cathode Material in Comparison to NCA. Journal of the Electrochemical Society, 2022, 169, 040547.	1.3	5
8	Novel Method for Monitoring the Electrochemical Capacitance by In Situ Impedance Spectroscopy as Indicator for Particle Cracking of Nickel-Rich NCMs: Part III. Development of a Simplified Measurement Setup. Journal of the Electrochemical Society, 2022, 169, 040552.	1.3	4
9	Universal Correlation between Cathode Roughness Factor and H ₂ /Air Performance Losses in Voltage Cycling-Based Accelerated Stress Tests. Journal of the Electrochemical Society, 2022, 169, 044528.	1.3	12
10	Durability Testing of Low-Iridium PEM Water Electrolysis Membrane Electrode Assemblies. Journal of the Electrochemical Society, 2022, 169, 064505.	1.3	43
11	Capabilities and limitations of rotating disk electrodes versus membrane electrode assemblies in the investigation of electrocatalysts. Nature Catalysis, 2022, 5, 363-373.	16.1	119
12	Specific Surface Area and Bulk Strain: Important Material Metrics Determining the Electrochemical Performance of Li- and Mn-Rich Layered Oxides. Journal of the Electrochemical Society, 2022, 169, 060521.	1.3	4
13	From Powder to Sheets: A Comparative Electrolyte Study for Slurry-Based Processed Solid Electrolyte/Binder-Sheets as Separators in All-Solid-State Batteries. Journal of the Electrochemical Society, 2022, 169, 070508.	1.3	8
14	ORR Activity and Stability of a Carbon-Supported Pt _x Alloy Catalyst Evaluated in a PEM Fuel Cell. ECS Meeting Abstracts, 2022, MA2022-01, 1438-1438.	0.0	0
15	Investigation of IrO ₂ Stability As a Cell-Reversal Mitigation Catalyst in PEMFC Anodes. ECS Meeting Abstracts, 2022, MA2022-01, 1458-1458.	0.0	0
16	Monitoring the Electrochemical Capacitance By in Situ Impedance Spectroscopy As Indicator for Particle Cracking of (Nickel-Rich) Cathode Active Materials: Development of a Simplified Measurement Setup. ECS Meeting Abstracts, 2022, MA2022-01, 368-368.	0.0	0
17	Aqueous-Based Post-Treatment of Li- and Mn-Rich Ncm. ECS Meeting Abstracts, 2022, MA2022-01, 415-415.	0.0	0
18	Spatially Resolved Operando X-Ray Absorption Spectroscopy in NCA/Graphite to Quantify the Potential-Dependent Transition Metal Dissolution and Its Effect on Capacity Fading. ECS Meeting Abstracts, 2022, MA2022-01, 172-172.	0.0	0

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19	IrO ₂ Anode Co-Catalysts for PEM Fuel Cell Voltage Reversal Mitigation and Their Stability Under Transient Operation Conditions. ECS Meeting Abstracts, 2022, MA2022-01, 1466-1466.	0.0	2
20	Developing Microporous Transport Layers for Polymer Electrolyte Membrane (PEM) Water Electrolyzer Anodes. ECS Meeting Abstracts, 2022, MA2022-01, 1750-1750.	0.0	0
21	Determination of the $i_{\text{O}_2}/i_{\text{H}_2}$ -Ratio for Gas Diffusion Substrates and Microporous Layers in an Operating Fuel Cell. ECS Meeting Abstracts, 2022, MA2022-01, 1456-1456.	0.0	0
22	(Invited) Design, Performance Characterization, and Durability of an Iridium-Based OER Catalyst for PEM Water Electrolysis. ECS Meeting Abstracts, 2022, MA2022-01, 1339-1339.	0.0	0
23	Surface-stabilization of LMR-NCM by Washing with Aqueous Buffers to Reduce Gassing and Improve Cycle-Life. Journal of the Electrochemical Society, 2022, 169, 070516.	1.3	7
24	Temperature Dependent Formation of the Graphite SEI with Vinylene Carbonate Electrolyte Additive. ECS Meeting Abstracts, 2022, MA2022-01, 432-432.	0.0	0
25	Universal Correlation between the Roughness Factor and PEMFC Performance Losses in Voltage Cycling Based Accelerated Stress Tests. ECS Meeting Abstracts, 2022, MA2022-01, 1427-1427.	0.0	0
26	From Powder to Sheets – a Comparative Study for Solution-Cast Solid Electrolyte/Binder-Sheets As Separators in All-Solid-State Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 161-161.	0.0	0
27	A Micro-Reference Electrode for Impedance and Potential Measurements in All-Solid-State Battery Pouch Cells. ECS Meeting Abstracts, 2022, MA2022-01, 207-207.	0.0	0
28	Fluorination of Ni-Rich Lithium Battery Cathode Materials by Fluorine Gas: Chemistry, Characterization, and Electrochemical Performance in Full Cells. Batteries and Supercaps, 2021, 4, 632-645.	2.4	12
29	Extending the Polyol Reduction Process into the Second Dimension: Oxide Thin Film Reduction. Journal of the Electrochemical Society, 2021, 168, 014506.	1.3	0
30	Comparing the Lithiation and Sodiation of a Hard Carbon Anode Using In Situ Impedance Spectroscopy. Journal of the Electrochemical Society, 2021, 168, 010506.	1.3	14
31	The Discrepancy in Oxygen Evolution Reaction Catalyst Lifetime Explained: RDE vs MEA - Dynamicity within the Catalyst Layer Matters. Journal of the Electrochemical Society, 2021, 168, 014512.	1.3	52
32	Synthesis, structure and diffusion pathways of fast lithium-ion conductors in the polymorphs β - and β' -Li ₈ SnP ₄ . Journal of Materials Chemistry A, 2021, 9, 15254-15268.	5.2	8
33	Comparative Evaluation of LMR-NCM and NCA Cathode Active Materials in Multilayer Lithium-Ion Pouch Cells: Part II. Rate Capability, Long-Term Stability, and Thermal Behavior. Journal of the Electrochemical Society, 2021, 168, 020537.	1.3	18
34	Comparative Evaluation of LMR-NCM and NCA Cathode Active Materials in Multilayer Lithium-Ion Pouch Cells: Part I. Production, Electrode Characterization, and Formation. Journal of the Electrochemical Society, 2021, 168, 030507.	1.3	35
35	Comparison of Ionic Transport Properties of Non-Aqueous Lithium and Sodium Hexafluorophosphate Electrolytes. Journal of the Electrochemical Society, 2021, 168, 040538.	1.3	24
36	A Comparative Study of Structural Changes during Long-Term Cycling of NCM-811 at Ambient and Elevated Temperatures. Journal of the Electrochemical Society, 2021, 168, 050512.	1.3	28

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37	Hydrogen Gas Promoted Self-Limiting Copper Monolayer Deposition on Platinum. Journal of the Electrochemical Society, 2021, 168, 052508.	1.3	2
38	Degradation Mechanism of an IrO ₂ Anode Co-Catalyst for Cell Voltage Reversal Mitigation under Transient Operation Conditions of a PEM Fuel Cell. Journal of the Electrochemical Society, 2021, 168, 064521.	1.3	11
39	Pressure and Temperature Dependence of the Hydrogen Oxidation and Evolution Reaction Kinetics on Pt Electrocatalysts via PEMFC-based Hydrogen-Pump Measurements. Journal of the Electrochemical Society, 2021, 168, 064516.	1.3	23
40	Evidence for Li ⁺ /H ⁺ Exchange during Ambient Storage of Ni-Rich Cathode Active Materials. Journal of the Electrochemical Society, 2021, 168, 070507.	1.3	31
41	H ₂ Evolution from Electrocatalysts with Redox-Active Ligands: Mechanistic Insights from Theory and Experiment vis-À-vis Co-Mabiq. Inorganic Chemistry, 2021, 60, 13888-13902.	1.9	7
42	Effect of the IrO _x Conductivity on the Anode Electrode/Porous Transport Layer Interfacial Resistance in PEM Water Electrolyzers. Journal of the Electrochemical Society, 2021, 168, 084513.	1.3	47
43	Methods to Understand Porous Electrode Impedance and the Implications for the Impedance Analysis of Li-Ion Battery Electrodes. Journal of the Electrochemical Society, 2021, 168, 080519.	1.3	31
44	The LiNiO ₂ Cathode Active Material: A Comprehensive Study of Calcination Conditions and their Correlation with Physicochemical Properties. Part I. Structural Chemistry. Journal of the Electrochemical Society, 2021, 168, 110518.	1.3	34
45	Loading Impact of a PGM-Free Catalyst on the Mass Activity in Proton Exchange Membrane Fuel Cells. Journal of the Electrochemical Society, 2021, 168, 114518.	1.3	14
46	A Platinum Micro-Reference Electrode for Impedance Measurements in a PEM Water Electrolysis Cell. Journal of the Electrochemical Society, 2021, 168, 114511.	1.3	12
47	Pt-Catalyzed Oxidation of PEMFC Carbon Supports: A Path to Highly Accessible Carbon Morphologies and Implications for Start-Up/Shut-Down Degradation. Journal of the Electrochemical Society, 2021, 168, 114517.	1.3	12
48	Monitoring SEI Formation on Graphite Electrodes in Lithium-Ion Cells by Impedance Spectroscopy. Journal of the Electrochemical Society, 2021, 168, 110503.	1.3	13
49	Towards Ni-Rich Single Crystal Materials: Synthesis of the Model Material LiNiO ₂ and Their Electrochemical Performance Trade-Offs. ECS Meeting Abstracts, 2021, MA2021-02, 1883-1883.	0.0	0
50	Beneficial Effects of Oxide-Based Additives on Li- and Mn-Rich Cathode Active Materials. ECS Meeting Abstracts, 2021, MA2021-02, 372-372.	0.0	0
51	Mitigation of the Start-up and Shut-down Degradation in Pemfcs By Means of a Selective H ₂ Oxidation Catalyst. ECS Meeting Abstracts, 2021, MA2021-02, 1185-1185.	0.0	0
52	Selective Oxidation of PEMFC Catalyst Supports: Overcoming the Trade-Off between Kinetics and Mass Transport Limitations. ECS Meeting Abstracts, 2021, MA2021-02, 1184-1184.	0.0	0
53	Entropy Measurements of Li-Ion Battery Cells with Li- and Mn-Rich Layered Transition Metal Oxides via Linear Temperature Variation. Journal of the Electrochemical Society, 2021, 168, 120502.	1.3	9
54	Understanding the Effect of Lithium Nitrate As Additive in Carbonate Based Electrolytes for Silicon Anodes. ECS Meeting Abstracts, 2021, MA2021-02, 379-379.	0.0	0

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55	Elucidating the Effect of the Morphology of Ni-Rich Cathode Active Materials on Their Long-Term Cycling Performance: Poly- Vs. Single Crystalline NCM851005. ECS Meeting Abstracts, 2021, MA2021-02, 368-368.	0.0	0
56	(Invited) Ambient Storage and Washing of NCMs: Formation/Removal of Surface Contaminants and NCM Structural Changes upon Heating of Washed/Stored NCMs. ECS Meeting Abstracts, 2021, MA2021-02, 389-389.	0.0	0
57	Novel Method for Monitoring the Electrochemical Capacitance by In Situ Impedance Spectroscopy as Indicator for Particle Cracking of Nickel-Rich NCMs: Part II. Effect of Oxygen Release Dependent on Particle Morphology. Journal of the Electrochemical Society, 2021, 168, 120501.	1.3	19
58	Direct PtSn Alloy Formation by Pt Electrodeposition on Sn Surface. Scientific Reports, 2020, 10, 59.	1.6	12
59	Fast Lithium Ion Conduction in Lithium Phosphidoaluminates. Angewandte Chemie - International Edition, 2020, 59, 5665-5674.	7.2	28
60	Fast Lithium Ion Conduction in Lithium Phosphidoaluminates. Angewandte Chemie, 2020, 132, 5714-5723.	1.6	10
61	Polyanionic Frameworks in the Lithium Phosphidogermanates Li_2GeP_2 and $\text{Li}_3\text{Ge}_3\text{P}_3$ – Synthesis, Structure, and Lithium Ion Mobility. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 95-102.	0.6	15
62	Current Challenges in Catalyst Development for AEM Water Electrolyzers. Chemie-Ingenieur-Technik, 2020, 92, 31-39.	0.4	156
63	OER Catalyst Durability Tests Using the Rotating Disk Electrode Technique: The Reason Why This Leads to Erroneous Conclusions. ACS Applied Energy Materials, 2020, 3, 10323-10327.	2.5	60
64	Enhancement of Electrochemical Performance of Lithium and Manganese-Rich Cathode Materials via Thermal Treatment with SO_2 . Journal of the Electrochemical Society, 2020, 167, 110563.	1.3	21
65	Modifying the Properties of Fast Lithium-Ion Conductors – The Lithium Phosphidotetrelates $\text{Li}_{14}\text{SiP}_6$, $\text{Li}_{14}\text{GeP}_6$, and $\text{Li}_{14}\text{SnP}_6$. Chemistry of Materials, 2020, 32, 6925-6934.	3.2	21
66	Through-Plane Conductivity of Anion Exchange Membranes at Sub-Freezing Temperatures – Hydroxide vs (Bi-)Carbonate Ions. Journal of the Electrochemical Society, 2020, 167, 084513.	1.3	8
67	A Liquid Electrolyte-Based Lithium-Ion Battery Cell Design for Operando Neutron Depth Profiling. Journal of the Electrochemical Society, 2020, 167, 100554.	1.3	11
68	Simple Way of Making Free-Standing Battery Electrodes and their Use in Enabling Half-Cell Impedance Measurements via $\frac{1}{4}$ -Reference Electrode. Journal of the Electrochemical Society, 2020, 167, 100540.	1.3	17
69	Charge/discharge cycling of $\text{Li}_{1+x}(\text{Ni}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2})\text{O}_2$ primary particles performed in a liquid microcell for transmission electron microscopy studies. JPhys Energy, 2020, 2, 034007.	2.3	12
70	Frontispiece: Fast Lithium Ion Conduction in Lithium Phosphidoaluminates. Angewandte Chemie - International Edition, 2020, 59, .	7.2	0
71	Novel Method for Monitoring the Electrochemical Capacitance by In Situ Impedance Spectroscopy as Indicator for Particle Cracking of Nickel-Rich NCMs: Part I. Theory and Validation. Journal of the Electrochemical Society, 2020, 167, 100511.	1.3	61
72	Iridium Oxide Catalyst Supported on Antimony-Doped Tin Oxide for High Oxygen Evolution Reaction Activity in Acidic Media. ACS Applied Nano Materials, 2020, 3, 2185-2196.	2.4	86

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73	Frontispiz: Fast Lithium Ion Conduction in Lithium Phosphidoaluminates. <i>Angewandte Chemie</i> , 2020, 132, .	1.6	0
74	Li ₂ CO ₃ decomposition in Li-ion batteries induced by the electrochemical oxidation of the electrolyte and of electrolyte impurities. <i>Electrochimica Acta</i> , 2020, 346, 136271.	2.6	116
75	Operando Identification of Liquid Intermediates in Lithium-Sulfur Batteries via Transmission UV-vis Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2020, 167, 080508.	1.3	47
76	Li-ion half-cells studied <i>operando</i> during cycling by small-angle neutron scattering. <i>Journal of Applied Crystallography</i> , 2020, 53, 210-221.	1.9	10
77	HOR Activity of Pt-TiO ₂ -Y at Unconventionally High Potentials Explained: The Influence of SMSI on the Electrochemical Behavior of Pt. <i>Journal of the Electrochemical Society</i> , 2020, 167, 084517.	1.3	24
78	Operating EC-based Electrolytes with Li- and Mn-Rich NCMs: The Role of O ₂ -Release on the Choice of the Cyclic Carbonate. <i>Journal of the Electrochemical Society</i> , 2020, 167, 110505.	1.3	19
79	Analysis of Gas Permeation Phenomena in a PEM Water Electrolyzer Operated at High Pressure and High Current Density. <i>Journal of the Electrochemical Society</i> , 2020, 167, 124502.	1.3	50
80	SO ₃ Treatment of Lithium- and Manganese-Rich NCMs for Li-Ion Batteries: Enhanced Robustness towards Humid Ambient Air and Improved Full-Cell Performance. <i>Journal of the Electrochemical Society</i> , 2020, 167, 130507.	1.3	14
81	Evaluating the High-Voltage Stability of Conductive Carbon and Ethylene Carbonate with Various Lithium Salts. <i>Journal of the Electrochemical Society</i> , 2020, 167, 160522.	1.3	34
82	A Comparative Study of Structural Changes during Long-Term Cycling of NCM-811 at Ambient and Elevated Temperatures. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 254-254.	0.0	1
83	Effect and Progress of the Amorphization Process for Microscale Silicon Particles Under Partial Lithiation As Active Material in Lithium-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 357-357.	0.0	1
84	Understanding Graphite Impedance: Determining Solid Electrolyte Interphase, Charge Transfer, and Pore Resistance. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 414-414.	0.0	0
85	(Vittorio de Nora Award Address) Analysis of the Catalyst Requirements with Regards to Catalyst Structure and Catalyst Durability Studies for PEM Water Electrolysis. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1838-1838.	0.0	0
86	Drifts (Diffuse Reflectance Infrared Fourier Transform Spectroscopy) - a Way to Assess the Reactivity of Solid Electrolytes with Ambient Air. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 417-417.	0.0	0
87	Washing of Ni-Rich Cathode Active Materials for Lithium-Ion-Batteries: Mechanistic Understanding. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 214-214.	0.0	0
88	Degradation Mechanism of an IrO ₂ Anode Co-Catalyst for Cell Voltage Reversal Mitigation Under Transient Operation Conditions of a PEM Fuel Cell. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1636-1636.	0.0	1
89	Spatially and Time-Resolved Investigation of Lithium Plating on a Graphite Electrode during Fast Charging Using Operando Neutron Depth Profiling (NDP). <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 144-144.	0.0	0
90	Entropy Measurements of Cells with Li- and Mn-Rich Layered Oxides Measured Via Linear Temperature Variation. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 188-188.	0.0	0

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91	Pressure Dependency of the Hydrogen Oxidation and Evolution Reaction Kinetics on Carbon Supported Pt Catalysts Using a PEMFC Based Hydrogen Pump Approach. ECS Meeting Abstracts, 2020, MA2020-02, 2337-2337.	0.0	0
92	Role of Redox Active Ligand of a Cobalt-Mabiq Complex in the Hydrogen Evolution Reaction. ECS Meeting Abstracts, 2020, MA2020-02, 2760-2760.	0.0	0
93	Structural and Electrochemical Properties of "Disordered, Spinel-like" Structures Derived from NCM111 Materials By Chemical Delithiation. ECS Meeting Abstracts, 2020, MA2020-02, 253-253.	0.0	0
94	Fast Lithium Ionic Conductors Li ₁₄ SiP ₆ , Li ₁₄ GeP ₆ , and Li ₁₄ SnP ₆ – Structure-Property-Relationships in the Newly Discovered Family of Lithium Phosphidotetrelates. ECS Meeting Abstracts, 2020, MA2020-02, 874-874.	0.0	0
95	Layer Design for PGM-Free Catalysts for Pemfcs: Impact of Electrical Conductivity & Diagnostic Tools. ECS Meeting Abstracts, 2020, MA2020-02, 2139-2139.	0.0	0
96	Entropy in Li- and Mn-Rich Layered Oxides Measured Via Linear Temperature Variation. ECS Meeting Abstracts, 2020, MA2020-02, 2851-2851.	0.0	0
97	(Vittorio de Nora Award Address) Analysis of the Catalyst Requirements with Regards to Catalyst Structure and Catalyst Durability Studies for PEM Water Electrolysis. ECS Meeting Abstracts, 2020, MA2020-02, 2454-2454.	0.0	0
98	From Zn-N-C to Fe-N-C: Active-Site Imprinting As a New Method for the Synthesis of Highly Active PGM-Free Catalysts for PEMFC. ECS Meeting Abstracts, 2020, MA2020-02, 2271-2271.	0.0	0
99	Study on the Effect of Crystal Size on the Performance of Ni-Rich Cathode Active Materials: Poly- Vs. Single Crystalline NCM622. ECS Meeting Abstracts, 2020, MA2020-02, 144-144.	0.0	0
100	(Battery Division Research Award) Electrolyte Oxidation Mechanisms in Lithium-Ion Batteries and Related Follow-Up Reactions. ECS Meeting Abstracts, 2020, MA2020-02, 28-28.	0.0	0
101	Comparison between Washing and Ambient Storage of Ni-Rich Active Materials By TGA-MS and XPS. ECS Meeting Abstracts, 2020, MA2020-02, 830-830.	0.0	0
102	Spatially and Time-Resolved Investigation of Lithium Plating on a Graphite Electrode during Fast Charging Using Operando Neutron Depth Profiling (NDP). ECS Meeting Abstracts, 2020, MA2020-02, 595-595.	0.0	0
103	Neutrons for Battery Research (in-situ and operando studies): An Overview. ECS Meeting Abstracts, 2020, MA2020-02, 3173-3173.	0.0	0
104	Highly Selective Pt/TiO _x Catalysts for the Hydrogen Oxidation Reaction. ACS Applied Energy Materials, 2019, 2, 5534-5539.	2.5	36
105	Fast Ionic Conductivity in the Most Lithium-Rich Phosphidosilicate Li ₁₄ SiP ₆ . Journal of the American Chemical Society, 2019, 141, 14200-14209.	6.6	49
106	Ambient Storage Derived Surface Contamination of NCM811 and NCM111: Performance Implications and Mitigation Strategies. Journal of the Electrochemical Society, 2019, 166, A2322-A2335.	1.3	132
107	Editors' Choice – Capacity Fading Mechanisms of NCM-811 Cathodes in Lithium-Ion Batteries Studied by X-ray Diffraction and Other Diagnostics. Journal of the Electrochemical Society, 2019, 166, A3760-A3774.	1.3	117
108	Temperature and Concentration Dependence of the Ionic Transport Properties of Lithium-Ion Battery Electrolytes. Journal of the Electrochemical Society, 2019, 166, A3079-A3097.	1.3	132

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109	Interaction of Pore Size and Hydrophobicity/Hydrophilicity for Improved Oxygen and Water Transport through Microporous Layers. <i>Journal of the Electrochemical Society</i> , 2019, 166, F1022-F1035.	1.3	40
110	Electrocatalytic H ₂ Evolution by the Co ^{II} -Mabiq Complex Requires Tempering of the Redox-Active Ligand. <i>ChemCatChem</i> , 2019, 11, 3973-3981.	1.8	16
111	Understanding Electrolyte Decomposition of Graphite/NCM811 Cells at Elevated Operating Voltage. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1853-A1859.	1.3	83
112	The Impact of CO ₂ Evolved from VC and FEC during Formation of Graphite Anodes in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2035-A2047.	1.3	74
113	Impact of Intermittent Operation on Lifetime and Performance of a PEM Water Electrolyzer. <i>Journal of the Electrochemical Society</i> , 2019, 166, F487-F497.	1.3	164
114	OER Catalyst Stability Investigation Using RDE Technique: A Stability Measure or an Artifact?. <i>Journal of the Electrochemical Society</i> , 2019, 166, F458-F464.	1.3	148
115	Monitoring the Lithium Concentration across the Thickness of Silicon-Graphite Electrodes during the First (De-)Lithiation. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1408-A1411.	1.3	11
116	Editors' Choice "State of Charge Dependent Resistance Build-Up in Li- and Mn-Rich Layered Oxides during Lithium Extraction and Insertion. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1275-A1284.	1.3	38
117	Nanometric Fe-Substituted ZrO ₂ on Carbon Black as PGM-Free ORR Catalyst for PEMFCs. <i>Journal of the Electrochemical Society</i> , 2019, 166, F3032-F3043.	1.3	18
118	Editors' Choice "Understanding Chemical Stability Issues between Different Solid Electrolytes in All-Solid-State Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A975-A983.	1.3	75
119	Contrast Matched SANS for Observing SEI and Pore Clogging in Silicon-Graphite Anodes. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1051-A1054.	1.3	19
120	Nickel, Manganese, and Cobalt Dissolution from Ni-Rich NMC and Their Effects on NMC622-Graphite Cells. <i>Journal of the Electrochemical Society</i> , 2019, 166, A378-A389.	1.3	254
121	Identifying Contact Resistances in High-Voltage Cathodes by Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2019, 166, A582-A590.	1.3	48
122	A Reference Electrode for In Situ Impedance Measurements in Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3668-A3674.	1.3	16
123	Editors' Choice "Washing of Nickel-Rich Cathode Materials for Lithium-Ion Batteries: Towards a Mechanistic Understanding. <i>Journal of the Electrochemical Society</i> , 2019, 166, A4056-A4066.	1.3	137
124	Comment on "Direct Electrochemical Determination of Thermodynamic Factors in Aprotic Binary Electrolytes" [J. Electrochem. Soc., 163, A1254 (2018)]. <i>Journal of the Electrochemical Society</i> , 2019, 166, Y33-Y34.	1.3	0
125	Lattice Parameter Hysteresis in Li- and Mn-Rich Layered Oxides and Its Dependence on State of Charge and Open Circuit Voltage. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
126	Effect of Microscopic Oxygen Bubbles on Measured OER Catalyst Stability - a Comparative Study between RDE and MEA Measurements. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0

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127	Formation Strategies for Over-Lithiated NCMs Suitable for Large-Scale Cells. ECS Meeting Abstracts, 2019, , .	0.0	1
128	Smart Neutrons for in-Situ and Operando Characterization of Battery Components and Cells. ECS Meeting Abstracts, 2019, , .	0.0	0
129	Voltage Cycling Degradation Dependence on O ₂ Pressure: A Comparative Voltage-Loss Analysis. ECS Meeting Abstracts, 2019, , .	0.0	0
130	A Novel Reference Electrode for EIS Measurements in Sodium-Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
131	(Invited) Materials and MEA Design Impact on the High-Current Density Performance of PEMFCs. ECS Meeting Abstracts, 2019, , .	0.0	0
132	Investigation of Structural Changes during Long-Term Cycling of NCM-811 Used As Cathode Active Material in Li-Ion Batteries. ECS Meeting Abstracts, 2019, MA2019-01, 559-559.	0.0	1
133	Formation of the Solid Electrolyte Interphase on the Graphite Anode in Lithium-Ion Batteries – an Operando Neutron Depth Profiling Study. ECS Meeting Abstracts, 2019, , .	0.0	1
134	Tortuosity of Battery Electrodes: Validation of Impedance-Derived Values and Critical Comparison with 3D Tomography. Journal of the Electrochemical Society, 2018, 165, A469-A476.	1.3	114
135	Lithium Oxalate as Capacity and Cycle-Life Enhancer in LNMO/Graphite and LNMO/SiC Full Cells. Journal of the Electrochemical Society, 2018, 165, A512-A524.	1.3	56
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