

Lisa M Housel

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

736
citations

706676

14
h-index

591227

27
g-index

36
all docs

36
docs citations

36
times ranked

1038
citing authors

#	ARTICLE	IF	CITATIONS
1	Promoting Transport Kinetics in Li-Ion Battery with Aligned Porous Electrode Architectures. <i>Nano Letters</i> , 2019, 19, 8255-8261.	4.5	104
2	Quantitative temporally and spatially resolved X-ray fluorescence microprobe characterization of the manganese dissolution-deposition mechanism in aqueous Zn/1±-MnO ₂ batteries. <i>Energy and Environmental Science</i> , 2020, 13, 4322-4333.	15.6	72
3	Evaporation-Induced Vertical Alignment Enabling Directional Ion Transport in a 2D-Nanosheet-Based Battery Electrode. <i>Advanced Materials</i> , 2020, 32, e1907941.	11.1	66
4	Investigation of 1±-MnO ₂ Tunneled Structures as Model Cation Hosts for Energy Storage. <i>Accounts of Chemical Research</i> , 2018, 51, 575-582.	7.6	64
5	Carbon Nanotube Web with Carboxylated Polythiophene - Assist for High-Performance Battery Electrodes. <i>ACS Nano</i> , 2018, 12, 3126-3139.	7.3	51
6	Investigating the Complex Chemistry of Functional Energy Storage Systems: The Need for an Integrative, Multiscale (Molecular to Mesoscale) Perspective. <i>ACS Central Science</i> , 2016, 2, 380-387.	5.3	39
7	New Insights into the Reaction Mechanism of Sodium Vanadate for an Aqueous Zn Ion Battery. <i>Chemistry of Materials</i> , 2020, 32, 2053-2060.	3.2	37
8	Systems-level investigation of aqueous batteries for understanding the benefit of water-in-salt electrolyte by synchrotron nanoimaging. <i>Science Advances</i> , 2020, 6, eaay7129.	4.7	35
9	Understanding aggregation hindered Li-ion transport in transition metal oxide at mesoscale. <i>Energy Storage Materials</i> , 2019, 19, 439-445.	9.5	32
10	Nonplanar Electrode Architectures for Ultrahigh Areal Capacity Batteries. <i>ACS Energy Letters</i> , 2019, 4, 271-275.	8.8	32
11	Insights into Reactivity of Silicon Negative Electrodes: Analysis Using Isothermal Microcalorimetry. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37567-37577.	4.0	28
12	Discharging Behavior of Hollandite 1±-MnO ₂ in a Hydrated Zinc-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59937-59949.	4.0	28
13	Toward the Understanding of the Reaction Mechanism of Zn/MnO ₂ Batteries Using Non-alkaline Aqueous Electrolytes. <i>Chemistry of Materials</i> , 2021, 33, 7283-7289.	3.2	27
14	Defect Control in the Synthesis of 2±%D MoS ₂ Nanosheets: Polysulfide Trapping in Composite Sulfur Cathodes for Li-S Batteries. <i>ChemSusChem</i> , 2020, 13, 1517-1528.	3.6	26
15	Deliberate Modification of Fe ₃ O ₄ Anode Surface Chemistry: Impact on Electrochemistry. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19920-19932.	4.0	12
16	Lithium vanadium oxide (Li _{1.1} V ₃ O ₈) thick porous electrodes with high rate capacity: utilization and evolution upon extended cycling elucidated via operando energy dispersive X-ray diffraction and continuum simulation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 139-150.	1.3	10
17	Impact of sodium vanadium oxide (NaV ₃ O ₈ , NVO) material synthesis conditions on charge storage mechanism in Zn-ion aqueous batteries. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 8607-8617.	1.3	10
18	Capacity Retention for (De)lithiation of Silver Containing 1±-MnO ₂ : Impact of Structural Distortion and Transition Metal Dissolution. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2849-A2858.	1.3	9

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19	The Systematic Refinement for the Phase Change and Conversion Reactions Arising from the Lithiation of Magnetite Nanocrystals. <i>Advanced Functional Materials</i> , 2020, 30, 1907337.	7.8	8
20	Probing Kinetics of Water-in-Salt Aqueous Batteries with Thick Porous Electrodes. <i>ACS Central Science</i> , 2021, 7, 1676-1687.	5.3	8
21	Interfacial Reactivity of Silicon Electrodes: Impact of Electrolyte Solvent and Presence of Conductive Carbon. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 20404-20417.	4.0	8
22	Thermodynamic Analysis of $\text{LiNi}_{0.6}\text{Mn}_{0.2}\text{Co}_{0.2}\text{O}_2$ (NMC622) Voltage Hysteresis Induced through High Voltage Charge. <i>ACS Applied Energy Materials</i> , 2021, 4, 12067-12073.	2.5	6
23	Investigation of Conductivity and Ionic Transport of VO_2 (M) and VO_2 (R) via Electrochemical Study. <i>Chemistry of Materials</i> , 2018, 30, 7535-7544.	3.2	5
24	High capacity vanadium oxide electrodes: effective recycling through thermal treatment. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2615-2626.	2.5	4
25	Active Material Interfacial Chemistry and Its Impact on Composite Magnetite Electrodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 9836-9847.	2.5	4
26	Local and Bulk Probe of Vanadium-Substituted δ -Manganese Oxide ($\text{Li}_{1-x}\text{V}_y\text{Mn}_{8-y}\text{O}_{16}$) Lithium Electrochemistry. <i>Inorganic Chemistry</i> , 2021, 60, 10398-10414.	1.9	3
27	Surface Electrolyte Interphase Control on Magnetite, Fe_3O_4 , Electrodes: Impact on Electrochemistry. <i>MRS Advances</i> , 2018, 3, 581-586.	0.5	2
28	Potassium-Containing δ - MnO_2 Nanotubes: The Impact of Hollow Regions on Electrochemistry. <i>Journal of the Electrochemical Society</i> , 2021, 168, 090559.	1.3	2
29	Probing the Physicochemical Behavior of Various Doped $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Nanoflowers. <i>ACS Physical Chemistry Au</i> , 2022, 2, 331-345.	1.9	2
30	Operando bulk and interfacial characterization for electrochemical energy storage: Case study employing isothermal microcalorimetry and X-ray absorption spectroscopy. <i>Journal of Materials Research</i> , 0, , 1.	1.2	1
31	X-ray fluorescence mapping: Insights into mesoscale structure impact on battery functional electrochemistry. <i>MRS Advances</i> , 2022, 7, 361-365.	0.5	1
32	(Energy Technology Division Graduate Student Award sponsored by Bio-Logic) Understanding Charge Transport for Current and Future Electrochemical Energy Storage Technologies. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 13-13.	0.0	0
33	Structural Investigation of Silver Vanadium Phosphorus Oxide ($\text{Ag}_2\text{VO}_2\text{PO}_4$) and Its Reduction Products. <i>Chemistry of Materials</i> , 2021, 33, 4425-4434.	3.2	0
34	(Energy Technology Division Graduate Student Award Address sponsored by Bio-Logic) Understanding Charge Transport for Current and Future Electrochemical Energy Storage Technologies. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 58-58.	0.0	0
35	Systems-Level Investigation of Aqueous Batteries for Understanding the Benefit of Water-in-Salt Electrolyte By Synchrotron Nano-Imaging. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 852-852.	0.0	0