Andrea M Bruck

List of Publications by Year
in descending order

36 papers	907 citations	567281 15 h-index	454955 30 g-index
37 all docs	37 docs citations	37 times ranked	1451 citing authors

#	Article	IF	Citations
1	(Invited, Digital Presentation) The Discovery and Development of Rechargeable Zn/CuO Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 459-459.	0.0	0
2	Operando EDXRD Study of Allâ€Solidâ€State Lithium Batteries Coupling Thioantimonate Superionic Conductors with Metal Sulfide. Advanced Energy Materials, 2021, 11, 2002861.	19.5	25
3	Enhanced Electrochemical Stability of Sulfideâ€Based LiNi_{0.8}Mn_{0.1}Co_{0.1}O₂ Allâ€Solidâ€State Batteries by Ti Surface Doping. Batteries and Supercaps, 2021, 4, 529-535.	4.7	11
4	Rechargeable Alkaline Zinc/Copper Oxide Batteries. ACS Applied Energy Materials, 2021, 4, 7073-7082.	5.1	13
5	The Systematic Refinement for the Phase Change and Conversion Reactions Arising from the Lithiation of Magnetite Nanocrystals. Advanced Functional Materials, 2020, 30, 1907337.	14.9	8
6	(De)lithiation of spinel ferrites Fe₃O₄, MgFe₂O₄, and ZnFe₂O₄: a combined spectroscopic, diffraction and theory study. Physical Chemistry Chemical Physics, 2020, 22, 26200-26215.	2.8	13
7	Energy dispersive X-ray diffraction (EDXRD) for operando materials characterization within batteries. Physical Chemistry Chemical Physics, 2020, 22, 20972-20989.	2.8	24
8	Bismuth Enables the Formation of Disordered Birnessite in Rechargeable Alkaline Batteries. Journal of the Electrochemical Society, 2020, 167, 110514.	2.9	15
9	(Invited) Bismuth Enables Formation of Disordered Birnessite in Rechargeable Alkaline Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 1036-1036.	0.0	0
10	Energy-Dispersive X-ray Diffraction: Operando Visualization of Electrochemical Activity of Thick Electrodes. Journal of Physical Chemistry C, 2019, 123, 18834-18843.	3.1	12
11	Tomographic 3D Analysis of Reduction Displacement Reaction with Associated Formation of a Conductive Network in High Energy Primary Batteries. Journal of the Electrochemical Society, 2019, 166, A3210-A3216.	2.9	4
12	Ex Situ and Operando XRD and XAS Analysis of MoS₂: A Lithiation Study of Bulk and Nanosheet Materials. ACS Applied Energy Materials, 2019, 2, 7635-7646.	5.1	42
13	Isothermal Microcalorimetry: Insight into the Impact of Crystallite Size and Agglomeration on the Lithiation of Magnetite, Fe₃O₄. ACS Applied Materials & Interfaces, 2019, 11, 7074-7086.	8.0	19
14	High capacity vanadium oxide electrodes: effective recycling through thermal treatment. Sustainable Energy and Fuels, 2019, 3, 2615-2626.	4.9	4
15	Understanding aggregation hindered Li-ion transport in transition metal oxide at mesoscale. Energy Storage Materials, 2019, 19, 439-445.	18.0	32
16	Synthesis and Characterization of 2 Ã— 4 Tunnel Structured Manganese Dioxides as Cathodes in Rechargeable Li, Na, and Mg Batteries. Journal of the Electrochemical Society, 2019, 166, A670-A678.	2.9	8
17	Temporally and Spatially Resolved Visualization of Electrochemical Conversion: Monitoring Phase Distribution During Lithiation of Magnetite (Fe₃O₄) Electrodes. ACS Applied Energy Materials, 2019, 2, 2561-2569.	5.1	10
18	Nonplanar Electrode Architectures for Ultrahigh Areal Capacity Batteries. ACS Energy Letters, 2019, 4, 271-275.	17.4	32

#	Article	IF	Citations
19	Operando Study of LiV₃O₈Cathode: Coupling EDXRD Measurements to Simulations. Journal of the Electrochemical Society, 2018, 165, A371-A379.	2.9	16
20	Two-Dimensional Holey Nanoarchitectures Created by Confined Self-Assembly of Nanoparticles <i>via</i> Block Copolymers: From Synthesis to Energy Storage Property. ACS Nano, 2018, 12, 820-828.	14.6	62
21	Reversible Electrochemical Lithium-Ion Insertion into the Rhenium Cluster Chalcogenideâ€“Halide Re₆Se₈Cl₂. Inorganic Chemistry, 2018, 57, 4812-4815.	4.0	8
22	Deliberately Designed Atomic-Level Silver-Containing Interface Results in Improved Rate Capability and Utilization of Silver Hollandite for Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2018, 10, 400-407.	8.0	5
23	The Importance of Combined Spatio-Temporal Characterization: From in situ to operando Diffraction Measurements of Li/Li1.1V3O8 Batteries. Microscopy and Microanalysis, 2018, 24, 1478-1479.	0.4	0
24	Probing enhanced lithium-ion transport kinetics in 2D holey nanoarchitectured electrodes. Nano Futures, 2018, 2, 035008.	2.2	15
25	Investigation of Structural Evolution of Li_{1.1}V₃O₈ by <i>In Situ</i> X-ray Diffraction and Density Functional Theory Calculations. Chemistry of Materials, 2017, 29, 2364-2373.	6.7	40
26	Nanostructured Conductive Polymer Gels as a General Framework Material To Improve Electrochemical Performance of Cathode Materials in Li-Ion Batteries. Nano Letters, 2017, 17, 1906-1914.	9.1	131
27	Visualization of structural evolution and phase distribution of a lithium vanadium oxide (Li_{1.1}V₃O₈) electrode via an operando and in situ energy dispersive X-ray diffraction technique. Physical Chemistry Chemical Physics, 2017, 19, 14160-14169.	2.8	25
28	Conductive Polymers: A Tunable 3D Nanostructured Conductive Gel Framework Electrode for Highâ€Performance Lithium Ion Batteries (Adv. Mater. 22/2017). Advanced Materials, 2017, 29, .	21.0	1
29	Energy Dispersive X-ray Diffraction (EDXRD) of Li1.1V3O8 Electrochemical Cell. MRS Advances, 2017, 2, 401-406.	0.9	8
30	A Tunable 3D Nanostructured Conductive Gel Framework Electrode for Highâ€Performance Lithium Ion Batteries. Advanced Materials, 2017, 29, 1603922.	21.0	175
31	Hybrid Ag₂VO₂PO₄/CF_xas a High Capacity and Energy Cathode for Primary Batteries. Journal of the Electrochemical Society, 2017, 164, A2457-A2467.	2.9	14
32	Rate Dependent Multi-Mechanism Discharge of Ag_{0.50}VOPO₄Â·1.8H₂O: Insights from In Situ Energy Dispersive X-ray Diffraction. Journal of the Electrochemical Society, 2017, 164, A6007-A6016.	2.9	4
33	Magnetite in the unequilibrated <scp>CK</scp> chondrites: Implications for metamorphism and new insights into the relationship between the <scp>CV</scp> and <scp>CK</scp> chondrites. Meteoritics and Planetary Science, 2016, 51, 1701-1720.	1.6	38
34	Li/Ag₂VO₂PO₄ batteries: the roles of composite electrode constituents on electrochemistry. RSC Advances, 2016, 6, 106887-106898.	3.6	9
35	Nanocrystalline iron oxide based electroactive materials in lithium ion batteries: the critical role of crystallite size, morphology, and electrode heterostructure on battery relevant electrochemistry. Inorganic Chemistry Frontiers, 2016, 3, 26-40.	6.0	83
36	Octa-Î¼3-selenido-pentakis(triethylphosphane-ÎºP)(trimethylacetonitrile-ÎºN)-octahedro-hexarhenium(III) bis(hexafluoridoantimonate) trimethylacetonitrile monosolvate. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, m242-m243.	0.2	1