

Andrea M Bruck

List of Publications by Year in descending order

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36
papers

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567281

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times ranked

1451
citing authors

#	ARTICLE	IF	CITATIONS
1	A Tunable 3D Nanostructured Conductive Gel Framework Electrode for High-Performance Lithium Ion Batteries. <i>Advanced Materials</i> , 2017, 29, 1603922.	21.0	175
2	Nanostructured Conductive Polymer Gels as a General Framework Material To Improve Electrochemical Performance of Cathode Materials in Li-Ion Batteries. <i>Nano Letters</i> , 2017, 17, 1906-1914.	9.1	131
3	Nanocrystalline iron oxide based electroactive materials in lithium ion batteries: the critical role of crystallite size, morphology, and electrode heterostructure on battery relevant electrochemistry. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 26-40.	6.0	83
4	Two-Dimensional Holey Nanoarchitectures Created by Confined Self-Assembly of Nanoparticles via Block Copolymers: From Synthesis to Energy Storage Property. <i>ACS Nano</i> , 2018, 12, 820-828.	14.6	62
5	Ex Situ and Operando XRD and XAS Analysis of MoS ₂ : A Lithiation Study of Bulk and Nanosheet Materials. <i>ACS Applied Energy Materials</i> , 2019, 2, 7635-7646.	5.1	42
6	Investigation of Structural Evolution of Li _{1.1} V ₃ O ₈ by In Situ X-ray Diffraction and Density Functional Theory Calculations. <i>Chemistry of Materials</i> , 2017, 29, 2364-2373.	6.7	40
7	Magnetite in the unequilibrated CK chondrites: Implications for metamorphism and new insights into the relationship between the CV and CK chondrites. <i>Meteoritics and Planetary Science</i> , 2016, 51, 1701-1720.	1.6	38
8	Understanding aggregation hindered Li-ion transport in transition metal oxide at mesoscale. <i>Energy Storage Materials</i> , 2019, 19, 439-445.	18.0	32
9	Nonplanar Electrode Architectures for Ultrahigh Areal Capacity Batteries. <i>ACS Energy Letters</i> , 2019, 4, 271-275.	17.4	32
10	Visualization of structural evolution and phase distribution of a lithium vanadium oxide (Li _{1.1} V ₃ O ₈) electrode via an operando and in situ energy dispersive X-ray diffraction technique. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14160-14169.	2.8	25
11	Operando EDXRD Study of All-Solid-State Lithium Batteries Coupling Thioantimonate Superionic Conductors with Metal Sulfide. <i>Advanced Energy Materials</i> , 2021, 11, 2002861.	19.5	25
12	Energy dispersive X-ray diffraction (EDXRD) for operando materials characterization within batteries. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20972-20989.	2.8	24
13	Isothermal Microcalorimetry: Insight into the Impact of Crystallite Size and Agglomeration on the Lithiation of Magnetite, Fe ₃ O ₄ . <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7074-7086.	8.0	19
14	Operando Study of LiV ₃ O ₈ Cathode: Coupling EDXRD Measurements to Simulations. <i>Journal of the Electrochemical Society</i> , 2018, 165, A371-A379.	2.9	16
15	Probing enhanced lithium-ion transport kinetics in 2D holey nanoarchitected electrodes. <i>Nano Futures</i> , 2018, 2, 035008.	2.2	15
16	Bismuth Enables the Formation of Disordered Birnessite in Rechargeable Alkaline Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 110514.	2.9	15
17	Hybrid Ag ₂ VO ₂ PO ₄ /CF _x as a High Capacity and Energy Cathode for Primary Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A2457-A2467.	2.9	14
18	(De)lithiation of spinel ferrites Fe ₃ O ₄ , MgFe ₂ O ₄ , and ZnFe ₂ O ₄ : a combined spectroscopic, diffraction and theory study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26200-26215.	2.8	13

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19	Rechargeable Alkaline Zinc/Copper Oxide Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 7073-7082.	5.1	13
20	Energy-Dispersive X-ray Diffraction: Operando Visualization of Electrochemical Activity of Thick Electrodes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18834-18843.	3.1	12
21	Enhanced Electrochemical Stability of Sulfide-Based LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ All-Solid-State Batteries by Ti Surface Doping. <i>Batteries and Supercaps</i> , 2021, 4, 529-535.	4.7	11
22	Temporally and Spatially Resolved Visualization of Electrochemical Conversion: Monitoring Phase Distribution During Lithiation of Magnetite (Fe ₃ O ₄) Electrodes. <i>ACS Applied Energy Materials</i> , 2019, 2, 2561-2569.	5.1	10
23	Li/Ag ₂ VO ₂ PO ₄ batteries: the roles of composite electrode constituents on electrochemistry. <i>RSC Advances</i> , 2016, 6, 106887-106898.	3.6	9
24	Energy Dispersive X-ray Diffraction (EDXRD) of Li _{1.1} V ₃ O ₈ Electrochemical Cell. <i>MRS Advances</i> , 2017, 2, 401-406.	0.9	8
25	Reversible Electrochemical Lithium-Ion Insertion into the Rhenium Cluster Chalcogenide Halide Re ₆ Se ₈ Cl ₂ . <i>Inorganic Chemistry</i> , 2018, 57, 4812-4815.	4.0	8
26	Synthesis and Characterization of 2 Å– 4 Tunnel Structured Manganese Dioxides as Cathodes in Rechargeable Li, Na, and Mg Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A670-A678.	2.9	8
27	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.	14.9	8
28	Deliberately Designed Atomic-Level Silver-Containing Interface Results in Improved Rate Capability and Utilization of Silver Hollandite for Lithium-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 400-407.	8.0	5
29	Rate Dependent Multi-Mechanism Discharge of Ag _{0.50} VOPO ₄ ·1.8H ₂ O: Insights from In Situ Energy Dispersive X-ray Diffraction. <i>Journal of the Electrochemical Society</i> , 2017, 164, A6007-A6016.	2.9	4
30	Tomographic 3D Analysis of Reduction Displacement Reaction with Associated Formation of a Conductive Network in High Energy Primary Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3210-A3216.	2.9	4
31	High capacity vanadium oxide electrodes: effective recycling through thermal treatment. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2615-2626.	4.9	4
32	Octa- $\frac{1}{3}$ -selenido-pentakis(triethylphosphane- $\hat{\rho}$ P)(trimethylacetoneitrile- $\hat{\rho}$ N)-octahedro-hexarhenium(III) bis(hexafluoroantimonate) trimethylacetoneitrile monosolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, m242-m243.	0.2	1
33	Conductive Polymers: A Tunable 3D Nanostructured Conductive Gel Framework Electrode for High-Performance Lithium Ion Batteries (<i>Adv. Mater.</i> 22/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	1
34	The Importance of Combined Spatio-Temporal Characterization: From in situ to operando Diffraction Measurements of Li/Li _{1.1} V ₃ O ₈ Batteries. <i>Microscopy and Microanalysis</i> , 2018, 24, 1478-1479.	0.4	0
35	(Invited) Bismuth Enables Formation of Disordered Birnessite in Rechargeable Alkaline Batteries. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 1036-1036.	0.0	0
36	(Invited, Digital Presentation) The Discovery and Development of Rechargeable Zn/CuO Batteries. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 459-459.	0.0	0