

Fredrik Björnfors

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Improved Performance of the Silicon Anode for Li-Ion Batteries: Understanding the Surface Modification Mechanism of Fluoroethylene Carbonate as an Effective Electrolyte Additive. <i>Chemistry of Materials</i> , 2015, 27, 2591-2599.	6.7	494
2	Formation of Molecular Gradients on Bipolar Electrodes. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3034-3036.	13.8	122
3	SEI Formation and Interfacial Stability of a Si Electrode in a LiTfD-Salt Based Electrolyte with FEC and VC Additives for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15758-15766.	8.0	105
4	High energy and power density TiO ₂ nanotube electrodes for 3D Li-ion microbatteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8160.	10.3	101
5	Potential and Current Density Distributions at Electrodes Intended for Bipolar Patterning. <i>Analytical Chemistry</i> , 2009, 81, 453-459.	6.5	73
6	Influence of inactive electrode components on degradation phenomena in nano-Si electrodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2016, 325, 513-524.	7.8	54
7	Bipolar electrochemistry for high-throughput corrosion screening. <i>Electrochemistry Communications</i> , 2013, 34, 274-277.	4.7	48
8	Understanding and Controlling the Surface Chemistry of LiFeSO ₄ F for an Enhanced Cathode Functionality. <i>Chemistry of Materials</i> , 2013, 25, 3020-3029.	6.7	47
9	Towards high throughput corrosion screening using arrays of bipolar electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2015, 747, 77-82.	3.8	42
10	Self-Arrangement Among Charge-Stabilized Gold Nanoparticles on a Dithiothreitol Reactivated Octanedithiol Monolayer. <i>Nano Letters</i> , 2008, 8, 3989-3992.	9.1	39
11	A hard X-ray photoelectron spectroscopy study on the solid electrolyte interphase of a lithium 4,5-dicyano-2-(trifluoromethyl)imidazolid based electrolyte for Si-electrodes. <i>Journal of Power Sources</i> , 2016, 301, 105-112.	7.8	33
12	Hybrid Energy Storage Devices Based on Monolithic Electrodes Containing Well-defined TiO ₂ Nanotube Size Gradients. <i>Electrochimica Acta</i> , 2015, 176, 1393-1402.	5.2	28
13	Formation of Gold Nanoparticle Size and Density Gradients via Bipolar Electrochemistry. <i>ChemElectroChem</i> , 2016, 3, 378-382.	3.4	28
14	Electrochemical Detection Based on Redox Cycling Using Interdigitated Microarray Electrodes at $\dot{\mu}$ L/min Flow Rates. <i>Electroanalysis</i> , 2000, 12, 255-261.	2.9	27
15	Fibre Optic Sensor for Characterisation of Lithium-Ion Batteries. <i>ChemSusChem</i> , 2020, 13, 5731-5739.	6.8	19
16	Tailored activated carbons for supercapacitors derived from hydrothermally carbonized sugars by chemical activation. <i>RSC Advances</i> , 2016, 6, 110629-110641.	3.6	17
17	Capacity Limiting Effects for Freestanding, Monolithic TiO ₂ Nanotube Electrodes with High Mass Loadings. <i>ACS Applied Energy Materials</i> , 2020, 3, 4638-4649.	5.1	17
18	Identification of an Intermediate Phase, Li _{1/2} FeSO ₄ F, Formed during Electrochemical Cycling of <i>Tavorite</i> LiFeSO ₄ F. <i>Chemistry of Materials</i> , 2014, 26, 4620-4628.	6.7	13

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19	Investigation of an Electrochemical Method for Separation of Copper, Indium, and Gallium from Pretreated CIGS Solar Cell Waste Materials. Scientific World Journal, The, 2015, 2015, 1-11.	2.1	13
20	Fiber Optic Monitoring of Composite Lithium Iron Phosphate Cathodes in Pouch Cell Batteries. ACS Applied Energy Materials, 2022, 5, 870-881.	5.1	10
21	Fiber Optic Sensors for Detection of Sodium Plating in Sodium-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 6219-6227.	5.1	10
22	A Mössbauer spectroscopy study of polyol synthesized tavorite LiFeSO ₄ F. Hyperfine Interactions, 2014, 226, 229-236.	0.5	7
23	Monitoring Li _x FeSO ₄ F (x = 1, 0.5, 0) Phase Distributions in Operando To Determine Reaction Homogeneity in Porous Battery Electrodes. Chemistry of Materials, 2017, 29, 7159-7169.	6.7	6
24	Formation of tavorite-type LiFeSO ₄ F followed by in situ X-ray diffraction. Journal of Power Sources, 2015, 298, 363-368.	7.8	5
25	DPPE Thiolipid Self-Assembled Monolayer: A Critical Assay. Langmuir, 2016, 32, 11560-11572.	3.5	5
26	Identifying the Electrochemical Processes in LiFeSO ₄ F Cathodes for Lithium Ion Batteries. ChemElectroChem, 2017, 4, 1896-1907.	3.4	5
27	Electronic changes in poly(3,4-ethylenedioxythiophene)-coated LiFeSO ₄ F during electrochemical lithium extraction. Journal of Power Sources, 2019, 418, 84-89.	7.8	2