

# Akshay Subramaniam

## List of Publications by Year in descending order

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38  
papers

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1478505

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1372567

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docs citations

43  
times ranked

137  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Tanks-in-Series Approach to Estimate Parameters for Lithium-Ion Battery Models. Journal of the Electrochemical Society, 2022, 169, 050525.	2.9	4
2	Realigning the Chemistry and Parameterization of Lithium-Sulfur Battery Models to Accommodate Emerging Experimental Evidence and Cell Configurations. ChemElectroChem, 2021, 8, 1098-1106.	3.4	7
3	Robust 2D Simulation of Morphological Evolution in Lithium-Metal Batteries. ECS Meeting Abstracts, 2021, MA2021-01, 985-985.	0.0	0
4	Incorporating Improved Chemical and Electrochemical Reaction Schemes in Electrochemical Engineering Models for Lithium Sulfur Batteries. ECS Meeting Abstracts, 2021, MA2021-01, 337-337.	0.0	0
5	Estimation of Grouped Parameters Using Tanks-in-Series Lithium-Ion Battery Model. ECS Meeting Abstracts, 2021, MA2021-01, 989-989.	0.0	0
6	(Industrial Electrochemistry and Electrochemical Engineering Division H. H. Dow Memorial Student) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Design, Control, and Multiscale Simulations. ECS Meeting Abstracts, 2021, MA2021-01, 987-987.	0.0	0
7	Perspectiveâ€”Mass Conservation in Models for Electrodeposition/Stripping in Lithium Metal Batteries. Journal of the Electrochemical Society, 2021, 168, 092502.	2.9	6
8	Towards Real-Time Simulation of Two-Dimensional Models for Electrodeposition/Stripping in Lithium-Metal Batteries. ECS Transactions, 2021, 104, 131-152.	0.5	4
9	A Model for Temperature-Dependent Degradation in Lithium-Ion Batteries: Correlating Electrochemical Phenomena with Cell-Level Performance Parameters. ECS Meeting Abstracts, 2021, MA2021-02, 419-419.	0.0	0
10	Towards Real-Time Simulation of Two-Dimensional Models for Electrodeposition/Stripping in Lithium-Metal Batteries. ECS Meeting Abstracts, 2021, MA2021-02, 176-176.	0.0	0
11	Properly Lumped Lithium-ion Battery Models: A Tanks-in-Series Approach. Journal of the Electrochemical Society, 2020, 167, 013534.	2.9	13
12	Can a Transport Model Predict Inverse Signatures in Lithium Metal Batteries Without Modifying Kinetics?. Journal of the Electrochemical Society, 2020, 167, 160547.	2.9	7
13	Editorsâ€™ Choiceâ€”Perspectiveâ€”Challenges in Moving to Multiscale Battery Models: Where Electrochemistry Meets and Demands More from Math. Journal of the Electrochemical Society, 2020, 167, 133501.	2.9	12
14	An Efficient Electrochemical Tanks-in-Series Model for Lithium Sulfur Batteries. Journal of the Electrochemical Society, 2020, 167, 163503.	2.9	11
15	Coupled Tank-in-Series Electrochemical-Thermal Model for Lithium Sulfur Batteries. ECS Meeting Abstracts, 2020, MA2020-01, 167-167.	0.0	0
16	Importance of Various Thermal Effects in Battery Modeling. ECS Meeting Abstracts, 2020, MA2020-01, 130-130.	0.0	0
17	Real-Time Parameter Estimation of Lithium-Ion Battery Models Using a Novel Tanks-in-Series Approach. ECS Meeting Abstracts, 2020, MA2020-01, 129-129.	0.0	0
18	A Simple One-Dimensional Transport Model to Explain Inverse Signatures in Lithium-Metal Batteries. ECS Meeting Abstracts, 2020, MA2020-01, 305-305.	0.0	0

#	ARTICLE	IF	CITATIONS
19	A Coupled Electrochemical-Mechanical Pressure Model for Lithium Metal Batteries. ECS Meeting Abstracts, 2020, MA2020-01, 284-284.	0.0	0
20	An Efficient Electrochemical-Thermal Tanks-in-Series Model for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 113506.	2.9	5
21	A Coupled Tank-in-Series Electrochemical-Thermal Model for Lithium Sulfur Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 1595-1595.	0.0	0
22	Challenges in Moving to Multiscale Battery Models - Where Electrochemistry meets and demands more from Math. ECS Meeting Abstracts, 2020, MA2020-02, 1604-1604.	0.0	0
23	Parameter Estimation of Lithium-Ion Battery Models Using a Novel Tanks-in-Series Approach. ECS Meeting Abstracts, 2020, MA2020-02, 1548-1548.	0.0	0
24	A Simple One-Dimensional Transport Model to Explain Inverse Signatures in Lithium-Metal Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 514-514.	0.0	0
25	Modeling the Cooperative Adsorption of Solid-Binding Proteins on Silica: Molecular Insights from Surface Plasmon Resonance Measurements. Langmuir, 2019, 35, 5013-5020.	3.5	20
26	Analysis and Simulation of One-Dimensional Transport Models for Lithium Symmetric Cells. Journal of the Electrochemical Society, 2019, 166, A3806-A3819.	2.9	12
27	A Tanks-in-Series Electrochemical Engineering Model for Lithium Sulfur Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
28	A Coupled Tank-in-Series Electrochemical Engineering and Thermal Model for Lithium Sulfur Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
29	(Invited) Multiscale Stress-Transport-Kinetics Continuum Models for Lithium-Metal Batteries-Relevance of Richard Alkire's Electrodeposition Legacy for Next-Generation Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
30	Electrochemical-Thermal Tanks-in-Series Models for Lithium-Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
31	A Mass and Charge Conserving Tanks-in-series Model for Lithium-Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
32	Electrochemical Modeling and Simulation of a Three-Electrode Lead Acid Cell. ECS Meeting Abstracts, 2019, , .	0.0	0
33	(Invited) The Relevance (irrelevance) and Elegance (inelegance) of Electroneutrality "the Interplay between Physics and Computational Efficiency. ECS Meeting Abstracts, 2018, , .	0.0	1
34	Modeling the Voltage Response of Lithium Symmetric Cells. ECS Meeting Abstracts, 2018, , .	0.0	0
35	Numerical Analysis of Electrochemical Engineering Models for Lithium Sulfur Batteries. ECS Meeting Abstracts, 2018, , .	0.0	0
36	Efficient Simulation of Novel Electrode Architectures. ECS Meeting Abstracts, 2018, , .	0.0	0

#	ARTICLE	IF	CITATIONS
37	Modeling Lithium Growth in Symmetric Cells. ECS Meeting Abstracts, 2018, , .	0.0	0
38	Model - Based Design and Control of Lead-Acid Batteries: Is There Any More Juice Left in a System That Is 158 Years Old?. ECS Meeting Abstracts, 2018, , .	0.0	0