Thomas Carraro

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2635511/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Reconstruction of porous electrodes by FIB/SEM for detailed microstructure modeling. Journal of Power Sources, 2011, 196, 7302-7307.	7.8	154
2	Three-dimensional reconstruction of a composite cathode for lithium-ion cells. Electrochemistry Communications, 2011, 13, 166-168.	4.7	132
3	Quantitative Characterization of LiFePO ₄ Cathodes Reconstructed by FIB/SEM Tomography. Journal of the Electrochemical Society, 2012, 159, A972-A980.	2.9	110
4	<i>In vitro</i> cell migration quantification method for scratch assays. Journal of the Royal Society Interface, 2019, 16, 20180709.	3.4	76
5	Representative volume element size for accurate solid oxide fuel cell cathode reconstructions from focused ion beam tomography data. Electrochimica Acta, 2012, 82, 268-276.	5.2	75
6	3D finite element model for reconstructed mixed-conducting cathodes: I. Performance quantification. Electrochimica Acta, 2012, 77, 315-323.	5.2	75
7	Reducing error and measurement time in impedance spectroscopy using model based optimal experimental design. Electrochimica Acta, 2011, 56, 5416-5434.	5.2	51
8	3D Electrode Microstructure Reconstruction and Modelling. ECS Transactions, 2009, 25, 1211-1220.	0.5	47
9	Effective interface conditions for the forced infiltration of a viscous fluid into a porous medium using homogenization. Computer Methods in Applied Mechanics and Engineering, 2015, 292, 195-220.	6.6	31
10	3D finite element model for reconstructed mixed-conducting cathodes: II. Parameter sensitivity analysis. Electrochimica Acta, 2012, 77, 309-314.	5.2	28
11	Detailed Microstructure Analysis and 3D Simulations of Porous Electrodes. ECS Transactions, 2011, 35, 2357-2368.	0.5	25
12	Electrode Reconstruction by FIB/SEM and Microstructure Modeling. ECS Transactions, 2010, 28, 81-91.	0.5	14
13	Understanding Deviations between Spatially Resolved and Homogenized Cathode Models of Lithium″on Batteries. Energy Technology, 2021, 9, 2000881.	3.8	14
14	Effective pressure boundary condition for the filtration through porous medium via homogenization. Nonlinear Analysis: Real World Applications, 2018, 44, 149-172.	1.7	12
15	Effect of Tomography Resolution on Calculation of Microstructural Properties for Lithium Ion Porous Electrodes. ECS Transactions, 2020, 97, 255-266.	0.5	9
16	Coupling vs decoupling approaches for PDE/ODE systems modeling intercellular signaling. Journal of Computational Physics, 2016, 314, 522-537.	3.8	6
17	An Adaptive Newton Algorithm for Optimal Control Problems with Application to Optimal Electrode Design. Journal of Optimization Theory and Applications, 2018, 177, 498-534.	1.5	6
18	Age Structure Can Account for Delayed Logistic Proliferation of Scratch Assays. Bulletin of Mathematical Biology, 2019, 81, 2706-2724.	1.9	5

THOMAS CARRARO

#	Article	IF	CITATIONS
19	Reviewing the mathematical validity of a fuel cell cathode model. Existence of weak bounded solution. Computers and Mathematics With Applications, 2019, 77, 1425-1436.	2.7	4
20	A Goal-Oriented Error Estimator for a Class of Homogenization Problems. Journal of Scientific Computing, 2017, 71, 1169-1196.	2.3	3
21	Multiple shooting methods for parabolic optimal control problems with control constraints. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 609-610.	0.2	0
22	Parameter Estimation for a Reconstructed SOFC Mixed-Conducting LSCF-Cathode. Contributions in Mathematical and Computational Sciences, 2013, , 267-285.	0.3	0