Wan, Ting Hei

List of Publications by Year
in descending order

13 papers	1,441 citations	840119 11 h-index	1125271 13 g-index
17 all docs	17 docs citations	17 times ranked	1192 citing authors

#	Article	IF	Citations
1	Influence of the Discretization Methods on the Distribution of Relaxation Times Deconvolution: Implementing Radial Basis Functions with DRTtools. Electrochimica Acta, 2015, 184, 483-499.	2.6	921
2	Optimal Regularization in Distribution of Relaxation Times applied to Electrochemical Impedance Spectroscopy: Ridge and Lasso Regression Methods - A Theoretical and Experimental Study. Electrochimica Acta, 2014, 147, 470-482.	2.6	218
3	The deep-DRT: A deep neural network approach to deconvolve the distribution of relaxation times from multidimensional electrochemical impedance spectroscopy data. Electrochimica Acta, 2021, 392, 139010.	2.6	43
4	A Bayesian view on the Hilbert transform and the Kramers-Kronig transform of electrochemical impedance data: Probabilistic estimates and quality scores. Electrochimica Acta, 2020, 357, 136864.	2.6	39
5	A general model for the impedance of batteries and supercapacitors: The non-linear distribution of diffusion times. Electrochimica Acta, 2019, 324, 134853.	2.6	35
6	Electro-chemo-mechanical modeling of solid-state batteries. Electrochimica Acta, 2020, 331, 135355.	2.6	35
7	A first principle study of the phase stability, ion transport and substitution strategy for highly ionic conductive sodium antipervoskite as solid electrolyte for sodium ion batteries. Journal of Power Sources, 2018, 390, 61-70.	4.0	31
8	Ba0.95La0.05FeO3â^'â€“multi-layer graphene as a low-cost and synergistic catalyst for oxygen evolution reaction. Carbon, 2015, 90, 122-129.	5.4	29
9	Stability, Elastic Properties, and the Li Transport Mechanism of the Protonated and Fluorinated Antiperovskite Lithium Conductors. ACS Applied Materials & Interfaces, 2020, 12, 55011-55022.	4.0	28
10	Exploring Transport Behavior in Hybrid Perovskites Solar Cells via Machine Learning Analysis of Environmentalâ€Dependent Impedance Spectroscopy. Advanced Science, 2021, 8, e2002510.	5.6	23
11	Ab Initio Study of the Defect Chemistry and Substitutional Strategies for Highly Conductive Li₃YX₆ (X = F, Cl, Br, and I) Electrolyte for the Application of Solid-State Batteries. ACS Applied Energy Materials, 2021, 4, 7930-7941.	2.5	19
12	Assessing the identifiability of k and D in electrical conductivity relaxation via analytical results and nonlinearity estimates. Solid State Ionics, 2015, 270, 18-32.	1.3	11
13	Electrical Conductivity Relaxation in the Nonlinear Regime. Journal of the Electrochemical Society, 2017, 164, F1671-F1689.	1.3	6