

Mathijs Janssen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7536645/publications.pdf>

Version: 2024-02-01

21
papers

638
citations

759055

12
h-index

677027

22
g-index

24
all docs

24
docs citations

24
times ranked

607
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic density functional theory for the charging of electric double layer capacitors. <i>Journal of Chemical Physics</i> , 2022, 156, 084101.	1.2	12
2	Simulating the charging of cylindrical electrolyte-filled pores with the modified Poisson–Nernst–Planck equations. <i>Journal of Chemical Physics</i> , 2022, 156, .	1.2	15
3	Analytical solution to the Poisson–Nernst–Planck equations for the charging of a long electrolyte-filled slit pore. <i>Electrochimica Acta</i> , 2022, 424, 140555.	2.6	13
4	Divalent ligand-monovalent molecule binding. <i>Soft Matter</i> , 2021, 17, 5375-5383.	1.2	1
5	Reversible heat production during electric double layer buildup depends sensitively on the electrolyte and its reservoir. <i>Journal of Chemical Physics</i> , 2021, 154, 064901.	1.2	6
6	Transmission Line Circuit and Equation for an Electrolyte-Filled Pore of Finite Length. <i>Physical Review Letters</i> , 2021, 126, 136002.	2.9	21
7	On the time-dependent electrolyte Seebeck effect. <i>Journal of Chemical Physics</i> , 2021, 154, 164511.	1.2	5
8	Locating the Frequency of Turnover in Thin-Film Diffusion Impedance. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15737-15741.	1.5	10
9	From Frequency Domain to Time Transient Methods for Halide Perovskite Solar Cells: The Connections of IMPS, IMVS, TPC, and TPV. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7964-7971.	2.1	34
10	How to speed up ion transport in nanopores. <i>Nature Communications</i> , 2020, 11, 6085.	5.8	57
11	Blessing and Curse: How a Supercapacitor's Large Capacitance Causes its Slow Charging. <i>Physical Review Letters</i> , 2020, 124, 076001.	2.9	76
12	Driving an electrolyte through a corrugated nanopore. <i>Journal of Chemical Physics</i> , 2019, 151, 084902.	1.2	15
13	Curvature affects electrolyte relaxation: Studies of spherical and cylindrical electrodes. <i>Physical Review E</i> , 2019, 100, 042602.	0.8	16
14	Transient response of an electrolyte to a thermal quench. <i>Physical Review E</i> , 2019, 99, 042136.	0.8	12
15	Transient dynamics of electric double-layer capacitors: Exact expressions within the Debye-Falkenhagen approximation. <i>Physical Review E</i> , 2018, 97, 052616.	0.8	28
16	Reversible Heating in Electric Double Layer Capacitors. <i>Physical Review Letters</i> , 2017, 118, 096001.	2.9	48
17	Coulometry and Calorimetry of Electric Double Layer Formation in Porous Electrodes. <i>Physical Review Letters</i> , 2017, 119, 166002.	2.9	35
18	Harvesting vibrational energy with liquid-bridged electrodes: thermodynamics in mechanically and electrically driven RC-circuits. <i>RSC Advances</i> , 2016, 6, 20485-20491.	1.7	7

#	ARTICLE	IF	CITATIONS
19	Heat-to-current conversion of low-grade heat from a thermocapacitive cycle by supercapacitors. Energy and Environmental Science, 2015, 8, 2396-2401.	15.6	126
20	Fundamental measure theory for the electric double layer: implications for blue-energy harvesting and water desalination. Journal of Physics Condensed Matter, 2015, 27, 194129.	0.7	39
21	Boosting Capacitive Blue-Energy and Desalination Devices with Waste Heat. Physical Review Letters, 2014, 113, 268501.	2.9	61