# Mathijs Janssen

## List of Publications by Year
## in descending order

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|---|---|---|---|
| 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 | 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 |
| 2 | Blessing and Curse: How a Supercapacitor's Large Capacitance Causes its Slow Charging. Physical Review Letters, 2020, 124, 076001. | 2.9 | 76 |
| 3 | Boosting Capacitive Blue-Energy and Desalination Devices with Waste Heat. Physical Review Letters, 2014, 113, 268501. | 2.9 | 61 |
| 4 | How to speed up ion transport in nanopores. Nature Communications, 2020, 11, 6085. | 5.8 | 57 |
| 5 | Reversible Heating in Electric Double Layer Capacitors. Physical Review Letters, 2017, 118, 096001. | 2.9 | 48 |
| 6 | 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 |
| 7 | Coulometry and Calorimetry of Electric Double Layer Formation in Porous Electrodes. Physical Review Letters, 2017, 119, 166002. | 2.9 | 35 |
| 8 | From Frequency Domain to Time Transient Methods for Halide Perovskite Solar Cells: The Connections of IMPS, IMVS, TPC, and TPV. Journal of Physical Chemistry Letters, 2021, 12, 7964-7971. | 2.1 | 34 |
| 9 | Transient dynamics of electric double-layer capacitors: Exact expressions within the Debye-Falkenhagen approximation. Physical Review E, 2018, 97, 052616. | 0.8 | 28 |
| 10 | Transmission Line Circuit and Equation for an Electrolyte-Filled Pore of Finite Length. Physical Review Letters, 2021, 126, 136002. | 2.9 | 21 |
| 11 | Curvature affects electrolyte relaxation: Studies of spherical and cylindrical electrodes. Physical Review E, 2019, 100, 042602. | 0.8 | 16 |
| 12 | Driving an electrolyte through a corrugated nanopore. Journal of Chemical Physics, 2019, 151, 084902. | 1.2 | 15 |
| 13 | Simulating the charging of cylindrical electrolyte-filled pores with the modified Poisson–Nernst–Planck equations. Journal of Chemical Physics, 2022, 156, . | 1.2 | 15 |
| 14 | Analytical solution to the Poisson–Nernst–Planck equations for the charging of a long electrolyte-filled slit pore. Electrochimica Acta, 2022, 424, 140555. | 2.6 | 13 |
| 15 | Transient response of an electrolyte to a thermal quench. Physical Review E, 2019, 99, 042136. | 0.8 | 12 |
| 16 | Dynamic density functional theory for the charging of electric double layer capacitors. Journal of Chemical Physics, 2022, 156, 084101. | 1.2 | 12 |
| 17 | Locating the Frequency of Turnover in Thin-Film Diffusion Impedance. Journal of Physical Chemistry C, 2021, 125, 15737-15741. | 1.5 | 10 |
| 18 | Harvesting vibrational energy with liquid-bridged electrodes: thermodynamics in mechanically and electrically driven RC-circuits. RSC Advances, 2016, 6, 20485-20491. | 1.7 | 7 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Reversible heat production during electric double layer buildup depends sensitively on the electrolyte and its reservoir. Journal of Chemical Physics, 2021, 154, 064901. | 1.2 | 6 |
| 20 | On the time-dependent electrolyte Seebeck effect. Journal of Chemical Physics, 2021, 154, 164511. | 1.2 | 5 |
| 21 | Divalent ligand-monovalent molecule binding. Soft Matter, 2021, 17, 5375-5383. | 1.2 | 1 |