## Tod A Pascal

## List of Publications by Year in descending order

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218677 233421 2,989 46 26 45 h-index citations g-index papers 47 47 47 4250 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	The structure of interfacial water on gold electrodes studied by x-ray absorption spectroscopy. Science, 2014, 346, 831-834.	12.6	391
2	Tailoring electrolyte solvation for Li metal batteries cycled at ultra-low temperature. Nature Energy, 2021, 6, 303-313.	39.5	386
3	Entropy and the driving force for the filling of carbon nanotubes with water. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11794-11798.	7.1	287
4	An All-Fluorinated Ester Electrolyte for Stable High-Voltage Li Metal Batteries Capable of Ultra-Low-Temperature Operation. ACS Energy Letters, 2020, 5, 1438-1447.	17.4	214
5	Polysulfide-Blocking Microporous Polymer Membrane Tailored for Hybrid Li-Sulfur Flow Batteries. Nano Letters, 2015, 15, 5724-5729.	9.1	153
6	Thermodynamics of liquids: standard molar entropies and heat capacities of common solvents from 2PT molecular dynamics. Physical Chemistry Chemical Physics, 2011, 13, 169-181.	2.8	144
7	X-ray Absorption Spectra of Dissolved Polysulfides in Lithium–Sulfur Batteries from First-Principles. Journal of Physical Chemistry Letters, 2014, 5, 1547-1551.	4.6	134
8	Molecular understanding of polyelectrolyte binders that actively regulate ion transport in sulfur cathodes. Nature Communications, 2017, 8, 2277.	12.8	117
9	Characterization of Polysulfide Radicals Present in an Etherâ€Based Electrolyte of a Lithium–Sulfur Battery During Initial Discharge Using In Situ Xâ€Ray Absorption Spectroscopy Experiments and Firstâ€Principles Calculations. Advanced Energy Materials, 2015, 5, 1500285.	19.5	107
10	Electrolyte design implications of ion-pairing in low-temperature Li metal batteries. Energy and Environmental Science, 2022, 15, 1647-1658.	30.8	89
11	Fingerprinting Lithium-Sulfur Battery Reaction Products by X-ray Absorption Spectroscopy. Journal of the Electrochemical Society, 2014, 161, A1100-A1106.	2.9	76
12	On the absolute thermodynamics of water from computer simulations: A comparison of first-principles molecular dynamics, reactive and empirical force fields. Journal of Chemical Physics, 2012, 137, 244507.	3.0	59
13	Universal Relationship between Molecular Structure and Crystal Structure in Peptoid Polymers and Prevalence of the <i>cis</i> Backbone Conformation. Journal of the American Chemical Society, 2018, 140, 827-833.	13.7	52
14	Ultrahigh coulombic efficiency electrolyte enables Li     SPAN batteries with superior cycling performance. Materials Today, 2021, 42, 17-28.	14.2	50
15	Hydrophobic Segregation, Phase Transitions and the Anomalous Thermodynamics of Water/Methanol Mixtures. Journal of Physical Chemistry B, 2012, 116, 13905-13912.	2.6	46
16	Absolute Entropy and Energy of Carbon Dioxide Using the Two-Phase Thermodynamic Model. Journal of Chemical Theory and Computation, 2011, 7, 1893-1901.	5.3	44
17	X-ray spectroscopy as a probe for lithium polysulfide radicals. Physical Chemistry Chemical Physics, 2015, 17, 7743-7753.	2.8	43
18	Sub-nanometer confinement enables facile condensation of gas electrolyte for low-temperature batteries. Nature Communications, 2021, 12, 3395.	12.8	42

#	Article	IF	Citations
19	Thermodynamic origins of the solvent-dependent stability of lithium polysulfides from first principles. Physical Chemistry Chemical Physics, 2017, 19, 1441-1448.	2.8	41
20	The Role of Confined Water in Ionic Liquid Electrolytes for Dye-Sensitized Solar Cells. Journal of Physical Chemistry Letters, 2012, 3, 556-559.	4.6	36
21	Arginine, a Key Residue for the Enhancing Ability of an Antifreeze Protein of the Beetle Dendroides canadensis. Biochemistry, 2009, 48, 9696-9703.	2.5	35
22	Multilayer Two-Dimensional Water Structure Confined in MoS <sub>2</sub> . Journal of Physical Chemistry C, 2017, 121, 16021-16028.	3.1	35
23	Interfacial Thermodynamics of Water and Six Other Liquid Solvents. Journal of Physical Chemistry B, 2014, 118, 5943-5956.	2.6	32
24	Molecular-Scale Structure of Electrode–Electrolyte Interfaces: The Case of Platinum in Aqueous Sulfuric Acid. Journal of the American Chemical Society, 2018, 140, 16237-16244.	13.7	32
25	Experimental Validation of the Predicted Binding Site of Escherichia coli K1 Outer Membrane Protein A to Human Brain Microvascular Endothelial Cells. Journal of Biological Chemistry, 2010, 285, 37753-37761.	3.4	30
26	Stereoselective Growth of Small Molecule Patches on Nanoparticles. Journal of the American Chemical Society, 2021, 143, 12138-12144.	13.7	30
27	Nuclear Quantum Effects in Hydrophobic Nanoconfinement. Journal of Physical Chemistry Letters, 2019, 10, 5530-5535.	4.6	26
28	Table-top extreme ultraviolet second harmonic generation. Science Advances, 2021, 7, .	10.3	26
29	pH-Dependent Conformations for Hyperbranched Poly(ethylenimine) from All-Atom Molecular Dynamics. Macromolecules, 2018, 51, 2187-2194.	4.8	20
30	Rate Constants of Electrochemical Reactions in a Lithium-Sulfur Cell Determined by Operando X-ray Absorption Spectroscopy. Journal of the Electrochemical Society, 2018, 165, A3487-A3495.	2.9	20
31	Quantum mechanics based force field for carbon (QMFF-Cx) validated to reproduce the mechanical and thermodynamics properties of graphite. Journal of Chemical Physics, 2010, 133, 134114.	3.0	18
32	A low-cost sulfate-based all iron redox flow battery. Journal of Power Sources, 2021, 513, 230457.	7.8	18
33	Role of Specific Cations and Water Entropy on the Stability of Branched DNA Motif Structures. Journal of Physical Chemistry B, 2012, 116, 12159-12167.	2.6	17
34	Extreme Ultraviolet Second Harmonic Generation Spectroscopy in a Polar Metal. Nano Letters, 2021, 21, 6095-6101.	9.1	17
35	Solvent selection criteria for temperature-resilient lithium–sulfur batteries. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	17
36	Liquid Sulfur Impregnation of Microporous Carbon Accelerated by Nanoscale Interfacial Effects. Nano Letters, 2017, 17, 2517-2523.	9.1	16

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37	Polarization-Resolved Extreme-Ultraviolet Second-Harmonic Generation from <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mi>LiNbO</mml:mi></mml:mrow><mml:mrow><ra 127,="" 2021,="" 237402.<="" letters,="" physical="" review="" td=""><td>7.8 nml:mn&gt;3</td><td></td></ra></mml:mrow></mml:msub></mml:mrow></mml:math>	7.8 nml:mn>3	
38	Oxidative Stabilization of Dilute Ether Electrolytes via Anion Modification. ACS Energy Letters, 2022, 7, 675-682.	17.4	15
39	Angstrom-Resolved Interfacial Structure in Buried Organic-Inorganic Junctions. Physical Review Letters, 2021, 127, 096801.	7.8	14
40	Ferroelectric Modulation of Surface Electronic States in BaTiO <sub>3</sub> for Enhanced Hydrogen Evolution Activity. Nano Letters, 2022, 22, 4276-4284.	9.1	13
41	Predicting the Ion Desolvation Pathway of Lithium Electrolytes and Their Dependence on Chemistry and Temperature. Journal of Physical Chemistry Letters, 2022, 13, 4426-4433.	4.6	12
42	The purported square ice in bilayer graphene is a nanoscale, monolayer object. Journal of Chemical Physics, 2019, 150, 231101.	3.0	7
43	Dimensionality dependence of the Kauzmann temperature: A case study using bulk and confined water. Journal of Chemical Physics, 2021, 154, 164510.	3.0	5
44	Entropic Stabilization of Water at Graphitic Interfaces. Journal of Physical Chemistry Letters, 2021, 12, 9162-9168.	4.6	5
45	Complete inhibition of a polyol nucleation by a micromolar biopolymer additive. Cell Reports Physical Science, 2022, 3, 100723.	5.6	3
46	The phase diagram of carbon dioxide from correlation functions and a many-body potential. Journal of Chemical Physics, 2021, 155, 024503.	3.0	0