Erik Wernersson

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mechanisms of Acceleration and Retardation of Water Dynamics by Ions. Journal of the American Chemical Society, 2013, 135, 11824-11831.	13.7	203
2	Field-induced assembly of colloidal ellipsoids into well-defined microtubules. Nature Communications, 2014, 5, 5516.	12.8	96
3	Effect of Water Polarizability on the Properties of Solutions of Polyvalent Ions: Simulations of Aqueous Sodium Sulfate with Different Force Fields. Journal of Chemical Theory and Computation, 2010, 6, 3233-3240.	5.3	79
4	Charge Inversion and Ionâ^'lon Correlation Effects at the Mercury/Aqueous MgSO ₄ Interface: Toward the Solution of a Long-Standing Issue. Journal of Physical Chemistry C, 2010, 114, 1849-1866.	3.1	75
5	Solvation and ion-pairing properties of the aqueous sulfate anion: explicit versus effective electronic polarization. Physical Chemistry Chemical Physics, 2012, 14, 10248.	2.8	74
6	Ionization of Cellobiose in Aqueous Alkali and the Mechanism of Cellulose Dissolution. Journal of Physical Chemistry Letters, 2016, 7, 5044-5048.	4.6	62
7	Overcharging in Biological Systems: Reversal of Electrophoretic Mobility of Aqueous Polyaspartate by Multivalent Cations. Physical Review Letters, 2012, 108, 186101.	7.8	61
8	Accurate Description of Aqueous Carbonate lons: An Effective Polarization Model Verified by Neutron Scattering. Journal of Physical Chemistry B, 2012, 116, 8145-8153.	2.6	57
9	The protonation state of small carboxylic acids at the water surface from photoelectron spectroscopy. Physical Chemistry Chemical Physics, 2011, 13, 12261.	2.8	55
10	The influence of concentration on the molecular surface structure of simple and mixed aqueous electrolytes. Physical Chemistry Chemical Physics, 2010, 12, 10693.	2.8	54
11	Guanidinium Cations Pair with Positively Charged Arginine Side Chains in Water. Journal of Physical Chemistry Letters, 2011, 2, 1387-1389.	4.6	49
12	Orientational Dependence of the Affinity of Guanidinium Ions to the Water Surface. Journal of Physical Chemistry B, 2011, 115, 12521-12526.	2.6	44
13	On the effect of image charges and ion-wall dispersion forces on electric double layer interactions. Journal of Chemical Physics, 2006, 125, 154702.	3.0	43
14	Effect of Association with Sulfate on the Electrophoretic Mobility of Polyarginine and Polylysine. Journal of Physical Chemistry B, 2010, 114, 11934-11941.	2.6	40
15	Self-Assembly of Ionic Microgels Driven by an Alternating Electric Field: Theory, Simulations, and Experiments. ACS Nano, 2018, 12, 4321-4337.	14.6	39
16	The mechanism of cellulose solubilization by urea studied by molecular simulation. Cellulose, 2015, 22, 991-1001.	4.9	37
17	On the dissolution of cellulose in tetrabutylammonium acetate/dimethyl sulfoxide: a frustrated solvent. Cellulose, 2017, 24, 3645-3657.	4.9	36
18	Aggregation of Oligoarginines at Phospholipid Membranes: Molecular Dynamics Simulations, Time-Dependent Fluorescence Shift, and Biomimetic Colorimetric Assays. Journal of Physical Chemistry B. 2013, 117, 11530-11540.	2.6	34

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19	Surface Behavior of Hydrated Guanidinium and Ammonium Ions: A Comparative Study by Photoelectron Spectroscopy and Molecular Dynamics. Journal of Physical Chemistry B, 2014, 118, 7119-7127.	2.6	27
20	Directed Self-Assembly of Polarizable Ellipsoids in an External Electric Field. Langmuir, 2017, 33, 13834-13840.	3.5	27
21	Ion correlation forces between uncharged dielectric walls. Journal of Chemical Physics, 2008, 129, 144701.	3.0	22
22	Anisotropic magnetic particles in a magnetic field. Soft Matter, 2016, 12, 8755-8767.	2.7	22
23	Image Charges and Dispersion Forces in Electric Double Layers:  The Dependence of Wallâ^'Wall Interactions on Salt Concentration and Surface Charge Density. Journal of Physical Chemistry B, 2007, 111, 14279-14284.	2.6	19
24	Icosahedral capsid formation by capsomer subunits and a semiflexible polyion. RSC Advances, 2013, 3, 25258.	3.6	15
25	Counterion condensation in short cationic peptides: Limiting mobilities beyond the <scp>O</scp> nsager– <scp>F</scp> uoss theory. Electrophoresis, 2012, 33, 981-989.	2.4	13
26	Spreading and Brush Formation by End-Grafted Bottle-Brush Polymers with Adsorbing Side Chains. Langmuir, 2013, 29, 10455-10462.	3.5	11
27	Molecular orientation distribution of regenerated cellulose fibers investigated with rotor synchronized solid state NMR spectroscopy. Cellulose, 2019, 26, 4681-4692.	4.9	11
28	Anomalous surface behavior of hydrated guanidinium ions due to ion pairing. Journal of Chemical Physics, 2018, 148, 144508.	3.0	10
29	Understanding the Inhibiting Effect of Small-Molecule Hydrogen Bond Donors on the Solubility of Cellulose in Tetrabutylammonium Acetate/DMSO. Journal of Physical Chemistry B, 2017, 121, 11241-11248.	2.6	10
30	Direct Evidence for Reaction between Cellulose and CO ₂ from Nuclear Magnetic Resonance. ACS Sustainable Chemistry and Engineering, 2021, 9, 14006-14011.	6.7	8
31	Cellulose-Water Interactions: Effect of electronic polarizability. Nordic Pulp and Paper Research Journal, 2015, 30, 26-31.	0.7	7
32	Lateral Interactions in Brush Layers of Bottle-Brush Polymers. Langmuir, 2014, 30, 11117-11121.	3.5	5