Matej KanduÄ•

List of Publications by Year
in descending order

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52	1,678	236612	301761
papers	citations	25 h-index	39 g-index

57	57	57	2062
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Perspective: Coulomb fluidsâ€"Weak coupling, strong coupling, in between and beyond. Journal of Chemical Physics, 2013, 139, 150901.	1.2	145
2	Toward Atomistic Resolution Structure of Phosphatidylcholine Headgroup and Glycerol Backbone at Different Ambient Conditions. Journal of Physical Chemistry B, 2015, 119, 15075-15088.	1.2	109
3	Water-Mediated Interactions between Hydrophilic and Hydrophobic Surfaces. Langmuir, 2016, 32, 8767-8782.	1.6	100
4	Molecular simulations of electrolyte structure and dynamics in lithiumâ€"sulfur battery solvents. Journal of Power Sources, 2018, 373, 70-78.	4.0	79
5	Relative humidity in droplet and airborne transmission of disease. Journal of Biological Physics, 2021, 47, 1-29.	0.7	73
6	Tight cohesion between glycolipid membranes results from balanced waterâ€"headgroup interactions. Nature Communications, 2017, 8, 14899.	5.8	61
7	Catalyzed Bimolecular Reactions in Responsive Nanoreactors. ACS Catalysis, 2017, 7, 5604-5611.	5.5	53
8	From hydration repulsion to dry adhesion between asymmetric hydrophilic and hydrophobic surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12338-12343.	3.3	51
9	Going beyond the standard line tension: Size-dependent contact angles of water nanodroplets. Journal of Chemical Physics, 2017, 147, 174701.	1.2	51
10	Dressed counterions: Strong electrostatic coupling in the presence of salt. Journal of Chemical Physics, 2010, 132, 124701.	1.2	50
11	Interaction of Charged Patchy Protein Models with Like-Charged Polyelectrolyte Brushes. Langmuir, 2017, 33, 417-427.	1.6	44
12	Hydration repulsion between membranes and polar surfaces: Simulation approaches versus continuum theories. Advances in Colloid and Interface Science, 2014, 208, 142-152.	7.0	42
13	Dressed counterions: Polyvalent and monovalent ions at charged dielectric interfaces. Physical Review E, 2011, 84, 011502.	0.8	41
14	Counterion-mediated weak and strong coupling electrostatic interaction between like-charged cylindrical dielectrics. Journal of Chemical Physics, 2010, 132, 224703.	1.2	38
15	Hydration Interaction between Phospholipid Membranes: Insight into Different Measurement Ensembles from Atomistic Molecular Dynamics Simulations. Langmuir, 2013, 29, 9126-9137.	1.6	36
16	Attraction between hydrated hydrophilic surfaces. Chemical Physics Letters, 2014, 610-611, 375-380.	1.2	35
17	Structural and Transport Properties of Li/S Battery Electrolytes: Role of the Polysulfide Species. Journal of Physical Chemistry C, 2019, 123, 10167-10177.	1.5	35
18	Correlation Length in Concentrated Electrolytes: Insights from All-Atom Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2020, 124, 1778-1786.	1.2	34

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19	Selective solute adsorption and partitioning around single PNIPAM chains. Physical Chemistry Chemical Physics, 2017, 19, 5906-5916.	1.3	32
20	Chasing Aqueous Biphasic Systems from Simple Salts by Exploring the LiTFSI/LiCl/H₂O Phase Diagram. ACS Central Science, 2019, 5, 640-643.	5.3	31
21	How the Shape and Chemistry of Molecular Penetrants Control Responsive Hydrogel Permeability. ACS Nano, 2021, 15, 614-624.	7.3	30
22	Attraction between neutral dielectrics mediated by multivalent ions in an asymmetric ionic fluid. Journal of Chemical Physics, 2012, 137, 174704.	1.2	29
23	Atomistic simulations of wetting properties and water films on hydrophilic surfaces. Journal of Chemical Physics, 2017, 146, 164705.	1.2	29
24	Generalized line tension of water nanodroplets. Physical Review E, 2018, 98, .	0.8	29
25	Selective Molecular Transport in Thermoresponsive Polymer Membranes: Role of Nanoscale Hydration and Fluctuations. Macromolecules, 2018, 51, 4853-4864.	2.2	28
26	Cosolute Partitioning in Polymer Networks: Effects of Flexibility and Volume Transitions. Macromolecules, 2017, 50, 6227-6237.	2.2	27
27	Tuning the selective permeability of polydisperse polymer networks. Soft Matter, 2020, 16, 8144-8154.	1.2	26
28	Tuning the Permeability of Dense Membranes by Shaping Nanoscale Potentials. Physical Review Letters, 2019, 122, 108001.	2.9	23
29	Modeling of stimuli-responsive nanoreactors: rational rate control towards the design of colloidal enzymes. Molecular Systems Design and Engineering, 2020, 5, 602-619.	1.7	21
30	Aqueous Nanoclusters Govern Ion Partitioning in Dense Polymer Membranes. ACS Nano, 2019, 13, 11224-11234.	7.3	20
31	Transfer Free Energies and Partitioning of Small Molecules in Collapsed PNIPAM Polymers. Journal of Physical Chemistry B, 2019, 123, 720-728.	1.2	20
32	Ionic structure around polarizable metal nanoparticles in aqueous electrolytes. Soft Matter, 2018, 14, 4053-4063.	1.2	19
33	Hydration Repulsion Difference between Ordered and Disordered Membranes Due to Cancellation of Membraneâ€“Membrane and Water-Mediated Interactions. Journal of Physical Chemistry Letters, 2017, 8, 2869-2874.	2.1	18
34	Intersurfactant H-bonds between head groups of n-dodecyl-Î²-d-maltoside at the air-water interface. Journal of Colloid and Interface Science, 2021, 586, 588-595.	5.0	18
35	Tuning Contact Angles of Aqueous Droplets on Hydrophilic and Hydrophobic Surfaces by Surfactants. Journal of Physical Chemistry B, 2022, 126, 3374-3384.	1.2	18
36	Interactions between charged particles with bathing multivalent counterions: experiments vs. dressed ion theory. Physical Chemistry Chemical Physics, 2017, 19, 10069-10080.	1.3	17

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37	Cavitation in lipid bilayers poses strict negative pressure stability limit in biological liquids. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10733-10739.	3.3	16
38	Ion-Specific Adsorption on Bare Gold (Au) Nanoparticles in Aqueous Solutions: Double-Layer Structure and Surface Potentials. Langmuir, 2020, 36, 13457-13468.	1.6	15
39	Scaling Laws in the Diffusive Release of Neutral Cargo from Hollow Hydrogel Nanoparticles: Paclitaxel-Loaded Poly(4-vinylpyridine). ACS Nano, 2020, 14, 15227-15240.	7.3	15
40	Tuning the permeability of regular polymeric networks by the cross-link ratio. Journal of Chemical Physics, 2021, 154, 154902.	1.2	15
41	Cross-linker effect on solute adsorption in swollen thermoresponsive polymer networks. Physical Chemistry Chemical Physics, 2019, 21, 6588-6599.	1.3	14
42	Charge and hydration structure of dendritic polyelectrolytes: molecular simulations of polyglycerol sulphate. Soft Matter, 2018, 14, 4300-4310.	1.2	13
43	Competitive sorption of monovalent and divalent ions by highly charged globular macromolecules. Journal of Chemical Physics, 2020, 153, 044904.	1.2	13
44	Physical mechanisms of the interaction between lipid membranes in the aqueous environment. Physica A: Statistical Mechanics and Its Applications, 2015, 418, 105-125.	1.2	12
45	Hidden microscopic life of the moving contact line of a waterlike liquid. Physical Review Fluids, 2020, 5, .	1.0	12
46	Hydrophobicity of Self-Assembled Monolayers of Alkanes: Fluorination, Density, Roughness, and Lennard-Jones Cutoffs. Langmuir, 2021, 37, 13846-13858.	1.6	10
47	Highly Heterogeneous Polarization and Solvation of Gold Nanoparticles in Aqueous Electrolytes. ACS Nano, 2021, 15, 13155-13165.	7.3	9
48	RNA Secondary Structures Regulate Adsorption of Fragments onto Flat Substrates. ACS Omega, 2021, 6, 32823-32831.	1.6	7
49	Permeability of Polymer Membranes beyond Linear Response. Macromolecules, 2022, 55, 7327-7339.	2.2	7
50	Hydration force fluctuations in hydrophilic planar systems. Biointerphases, 2016, 11, 019004.	0.6	4
51	Nanochannels and nanodroplets in polymer membranes controlling ionic transport. Current Opinion in Colloid and Interface Science, 2021, 56, 101501.	3.4	2
52	Toward unveiling structure and property relationships from ionic ordering in Li/S battery electrolytes: Neutron total scattering and molecular dynamics simulations. Energy Storage Materials, 2022, 52, 85-93.	9.5	2