

Andreas HÃ¶rtel

List of Publications by Year in descending order

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papers

686
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567144

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24
times ranked

675
citing authors

#	ARTICLE	IF	CITATIONS
1	Extension of the primitive model by hydration shells and its impact on the reversible heat production during the buildup of the electric double layer. <i>Journal of Chemical Physics</i> , 2022, 156, 034901.	1.2	4
2	The primitive model in classical density functional theory: beyond the standard mean-field approximation. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 235101.	0.7	5
3	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
4	Primitive model electrolytes in the near and far field: Decay lengths from DFT and simulations. <i>Journal of Chemical Physics</i> , 2021, 154, 124504.	1.2	42
5	Bayesian unsupervised learning reveals hidden structure in concentrated electrolytes. <i>Journal of Chemical Physics</i> , 2021, 154, 134902.	1.2	9
6	Continuum percolation expressed in terms of density distributions. <i>Physical Review E</i> , 2020, 101, 062126.	0.8	4
7	Three-body correlations and conditional forces in suspensions of active hard disks. <i>Physical Review E</i> , 2018, 97, 012606.	0.8	17
8	Screening Lengths in Ionic Fluids. <i>Physical Review Letters</i> , 2018, 121, 075501.	2.9	37
9	Structure of electric double layers in capacitive systems and to what extent (classical) density functional theory describes it. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 423002.	0.7	39
10	Dense ionic fluids confined in planar capacitors: in- and out-of-plane structure from classical density functional theory. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 244007.	0.7	15
11	Anisotropy and memory during cage breaking events close to a wall. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 505001.	0.7	2
12	Anisotropic pair correlations in binary and multicomponent hard-sphere mixtures in the vicinity of a hard wall: A combined density functional theory and simulation study. <i>Physical Review E</i> , 2015, 92, 042310.	0.8	11
13	Heat-to-current conversion of low-grade heat from a thermocapacitive cycle by supercapacitors. <i>Energy and Environmental Science</i> , 2015, 8, 2396-2401.	15.6	126
14	Fundamental measure theory for the electric double layer: implications for blue-energy harvesting and water desalination. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 194129.	0.7	39
15	Boosting Capacitive Blue-Energy and Desalination Devices with Waste Heat. <i>Physical Review Letters</i> , 2014, 113, 268501.	2.9	61
16	Density functional theory of heterogeneous crystallization. <i>European Physical Journal: Special Topics</i> , 2014, 223, 373-387.	1.2	21
17	Differently shaped hard body colloids in confinement: From passive to active particles. <i>European Physical Journal: Special Topics</i> , 2013, 222, 3023-3037.	1.2	23
18	Tension and Stiffness of the Hard Sphere Crystal-Fluid Interface. <i>Physical Review Letters</i> , 2012, 108, 226101.	2.9	84

#	ARTICLE	IF	CITATIONS
19	Inhomogeneous fluids of colloidal hard dumbbells: Fundamental measure theory and Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2011, 135, 234510.	1.2	27
20	Towing, breathing, splitting, and overtaking in driven colloidal liquid crystals. <i>Physical Review E</i> , 2010, 81, 051703.	0.8	24
21	Free energies, vacancy concentrations, and density distribution anisotropies in hard-sphere crystals: A combined density functional and simulation study. <i>Physical Review E</i> , 2010, 82, 051404.	0.8	60
22	Fundamental measure density functional theory for hard spherocylinders in static and time-dependent aligning fields. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 104112.	0.7	15
23	Charged colloidal particles in a charged wedge: do they go in or out?. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 404221.	0.7	15