

Andreas HÃrtel

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

686
citations

567144

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h-index

642610

23
g-index

24
all docs

24
docs citations

24
times ranked

675
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	Tension and Stiffness of the Hard Sphere Crystal-Fluid Interface. Physical Review Letters, 2012, 108, 226101.	2.9	84
3	Boosting Capacitive Blue-Energy and Desalination Devices with Waste Heat. Physical Review Letters, 2014, 113, 268501.	2.9	61
4	Free energies, vacancy concentrations, and density distribution anisotropies in hard-sphere crystals: A combined density functional and simulation study. Physical Review E, 2010, 82, 051404.	0.8	60
5	Primitive model electrolytes in the near and far field: Decay lengths from DFT and simulations. Journal of Chemical Physics, 2021, 154, 124504.	1.2	42
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	Structure of electric double layers in capacitive systems and to what extent (classical) density functional theory describes it. Journal of Physics Condensed Matter, 2017, 29, 423002.	0.7	39
8	Screening Lengths in Ionic Fluids. Physical Review Letters, 2018, 121, 075501.	2.9	37
9	Inhomogeneous fluids of colloidal hard dumbbells: Fundamental measure theory and Monte Carlo simulations. Journal of Chemical Physics, 2011, 135, 234510.	1.2	27
10	Towing, breathing, splitting, and overtaking in driven colloidal liquid crystals. Physical Review E, 2010, 81, 051703.	0.8	24
11	Differently shaped hard body colloids in confinement: From passive to active particles. European Physical Journal: Special Topics, 2013, 222, 3023-3037.	1.2	23
12	Density functional theory of heterogeneous crystallization. European Physical Journal: Special Topics, 2014, 223, 373-387.	1.2	21
13	Three-body correlations and conditional forces in suspensions of active hard disks. Physical Review E, 2018, 97, 012606.	0.8	17
14	Charged colloidal particles in a charged wedge: do they go in or out?. Journal of Physics Condensed Matter, 2008, 20, 404221.	0.7	15
15	Fundamental measure density functional theory for hard spherocylinders in static and time-dependent aligning fields. Journal of Physics Condensed Matter, 2010, 22, 104112.	0.7	15
16	Dense ionic fluids confined in planar capacitors: in- and out-of-plane structure from classical density functional theory. Journal of Physics Condensed Matter, 2016, 28, 244007.	0.7	15
17	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. Physical Review E, 2015, 92, 042310.	0.8	11
18	Bayesian unsupervised learning reveals hidden structure in concentrated electrolytes. Journal of Chemical Physics, 2021, 154, 134902.	1.2	9

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Continuum percolation expressed in terms of density distributions. <i>Physical Review E</i> , 2020, 101, 062126.	0.8	4
22	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
23	Anisotropy and memory during cage breaking events close to a wall. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 505001.	0.7	2