Beth A Lindquist

List of Publications by Year
in descending order

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35 papers	1,330 citations	304701 22 h-index	345203 36 g-index
38 all docs	38 docs citations	38 times ranked	1403 citing authors

#	Article	IF	Citations
1	Uncertainty quantification for a multi-phase carbon equation of state model. Journal of Applied Physics, 2022, 131, .	2.5	8
2	Treating random sequential addition via the replica method. Journal of Chemical Physics, 2022, 157, .	3.0	3
3	Inverse design of equilibrium cluster fluids applied to a physically informed model. Journal of Chemical Physics, 2021, 154, 174907.	3.0	6
4	Inverse methods for design of soft materials. Journal of Chemical Physics, 2020, 152, 140902.	3.0	63
5	Structure and phase behavior of polymer-linked colloidal gels. Journal of Chemical Physics, 2019, 151, 124901.	3.0	28
6	Assembly of particle strings via isotropic potentials. Journal of Chemical Physics, 2019, 150, 124903.	3.0	20
7	The role of pressure in inverse design for assembly. Journal of Chemical Physics, 2019, 151, 104104.	3.0	9
8	Inverse Design of Self-Assembling Frank-Kasper Phases and Insights Into Emergent Quasicrystals. Journal of Physical Chemistry B, 2018, 122, 5547-5556.	2.6	20
9	Inverse design of multicomponent assemblies. Journal of Chemical Physics, 2018, 148, 104509.	3.0	27
10	Unsupervised machine learning for detection of phase transitions in off-lattice systems. I. Foundations. Journal of Chemical Physics, 2018, 149, 194109.	3.0	36
11	Unsupervised machine learning for detection of phase transitions in off-lattice systems. II. Applications. Journal of Chemical Physics, 2018, 149, 194110.	3.0	23
12	Communication: From close-packed to topologically close-packed: Formation of Laves phases in moderately polydisperse hard-sphere mixtures. Journal of Chemical Physics, 2018, 148, 191101.	3.0	25
13	Gelation of plasmonic metal oxide nanocrystals by polymer-induced depletion attractions. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8925-8930.	7.1	32
14	Interactions and design rules for assembly of porous colloidal mesophases. Soft Matter, 2017, 13, 1335-1343.	2.7	29
15	Probabilistic inverse design for self-assembling materials. Journal of Chemical Physics, 2017, 146, .	3.0	44
16	On the formation of equilibrium gels via a macroscopic bond limitation. Journal of Chemical Physics, 2016, 145, 074906.	3.0	37
17	Communication: Inverse design for self-assembly via on-the-fly optimization. Journal of Chemical Physics, 2016, 145, .	3.0	52
18	Consequences of minimising pair correlations in fluids for dynamics, thermodynamics and structure. Molecular Physics, 2016, 114, 2411-2423.	1.7	1

#	Article	IF	Citations
19	Insights into the Electronic Structure of Ozone and Sulfur Dioxide from Generalized Valence Bond Theory: Addition of Hydrogen Atoms. Journal of Physical Chemistry A, 2016, 120, 2720-2726.	2.5	9
20	Insights into the Electronic Structure of Molecules from Generalized Valence Bond Theory. Journal of Physical Chemistry A, 2016, 120, 1763-1778.	2.5	42
21	Assembly of nothing: equilibrium fluids with designed structured porosity. Soft Matter, 2016, 12, 2663-2667.	2.7	41
22	Reply to â€œComment on â€˜Insights into the Electronic Structure of Ozone and Sulfur Dioxide from Generalized Valence Bond Theory: Bonding in O3 and SO2â€™â€•. Journal of Physical Chemistry A, 2016, 120, 171-172.	2.5	2
23	Linking Semiconductor Nanocrystals into Gel Networks through Allâ€Inorganic Bridges. Angewandte Chemie - International Edition, 2015, 54, 14840-14844.	13.8	45
24	Insights into the Electronic Structure of Ozone and Sulfur Dioxide from Generalized Valence Bond Theory: Bonding in O₃ and SO₂. Journal of Physical Chemistry A, 2015, 119, 7683-7694.	2.5	37
25	Equilibrium cluster fluids: pair interactions via inverse design. Soft Matter, 2015, 11, 9342-9354.	2.7	32
26	Insights into the Electronic Structure of Disulfur Tetrafluoride Isomers from Generalized Valence Bond Theory. Journal of Physical Chemistry A, 2014, 118, 10117-10126.	2.5	10
27	Effects of Ligand Electronegativity on Recoupled Pair Bonds with Application to Sulfurane Precursors. Journal of Physical Chemistry A, 2014, 118, 5709-5719.	2.5	9
28	Electronic Structure of H₂S, SF₂, and HSF and Implications for Hydrogen-Substituted Hypervalent Sulfur Fluorides. Journal of Physical Chemistry A, 2014, 118, 1267-1275.	2.5	10
29	Bonding in Sulfurâ€“Oxygen Compoundsâ€”HSO/SOH and SOO/OSO: An Example of Recoupled Pair Ï€ Bonding. Journal of Chemical Theory and Computation, 2013, 9, 4444-4452.	5.3	24
30	Bonding in FSSF₃: Breakdown in Bond Length-Strength Correlations and Implications for SF₂ Dimerization. Journal of Physical Chemistry Letters, 2013, 4, 3139-3143.	4.6	24
31	Photodynamics in Complex Environments: Ab Initio Multiple Spawning Quantum Mechanical/Molecular Mechanical Dynamics. Journal of Physical Chemistry B, 2009, 113, 3280-3291.	2.6	259
32	Nitrile groups as vibrational probes of biomolecular structure and dynamics: an overview. Physical Chemistry Chemical Physics, 2009, 11, 8119.	2.8	143
33	Solvation Dynamics of Hoechst 33258 in Water:Â An Equilibrium and Nonequilibrium Molecular Dynamics Study. Journal of Physical Chemistry B, 2008, 112, 3231-3239.	2.6	34
34	Optimized Quantum Mechanics/Molecular Mechanics Strategies for Nitrile Vibrational Probes: Acetonitrile and para-Tolunitrile in Water and Tetrahydrofuran. Journal of Physical Chemistry B, 2008, 112, 13991-14001.	2.6	44
35	Nitrile Groups as Vibrational Probes: Calculations of the Câ‰¡N Infrared Absorption Line Shape of Acetonitrile in Water and Tetrahydrofuran. Journal of Physical Chemistry B, 2008, 112, 6301-6303.	2.6	92