

Daniel J Beltran-Villegas

List of Publications by Year in descending order

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papers

638
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471061

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29
docs citations

29
times ranked

594
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial Colloidal Crystallization via Tunable Hydrogel Depletants. <i>Langmuir</i> , 2008, 24, 10776-10785.	1.6	63
2	Spatially controlled reversible colloidal self-assembly. <i>Journal of Chemical Physics</i> , 2009, 131, 134705.	1.2	45
3	Colloidal crystal grain boundary formation and motion. <i>Scientific Reports</i> , 2014, 4, 6132.	1.6	38
4	Phase behavior of Janus colloids determined by sedimentation equilibrium. <i>Soft Matter</i> , 2014, 10, 4593-4602.	1.2	37
5	Charged Micelle Depletion Attraction and Interfacial Colloidal Phase Behavior. <i>Langmuir</i> , 2010, 26, 18710-18717.	1.6	36
6	Rich Janus colloid phase behavior under steady shear. <i>Soft Matter</i> , 2016, 12, 4071-4081.	1.2	35
7	Anomalous Silica Colloid Stability and Gel Layer Mediated Interactions. <i>Langmuir</i> , 2013, 29, 8835-8844.	1.6	33
8	Free energy landscapes for colloidal crystal assembly. <i>Soft Matter</i> , 2011, 7, 3280.	1.2	32
9	Binding kinetics of lock and key colloids. <i>Journal of Chemical Physics</i> , 2015, 142, 174909.	1.2	28
10	Assembly of Amphiphilic Block Copolymers and Nanoparticles in Solution: Coarse-Grained Molecular Simulation Study. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 2351-2367.	1.0	27
11	PRISM Theory Study of Amphiphilic Block Copolymer Solutions with Varying Copolymer Sequence and Composition. <i>Macromolecules</i> , 2017, 50, 7419-7431.	2.2	25
12	Computational Reverse-Engineering Analysis for Scattering Experiments on Amphiphilic Block Polymer Solutions. <i>Journal of the American Chemical Society</i> , 2019, 141, 14916-14930.	6.6	24
13	A Smoluchowski model of crystallization dynamics of small colloidal clusters. <i>Journal of Chemical Physics</i> , 2011, 135, 154506.	1.2	23
14	Self-Consistent Colloidal Energy and Diffusivity Landscapes in Macromolecular Solutions. <i>Langmuir</i> , 2013, 29, 12337-12341.	1.6	23
15	Colloidal cluster crystallization dynamics. <i>Journal of Chemical Physics</i> , 2012, 137, 134901.	1.2	22
16	Optimal Design of a Colloidal Self-Assembly Process. <i>IEEE Transactions on Control Systems Technology</i> , 2014, 22, 1956-1963.	3.2	20
17	Size dependent thermodynamics and kinetics in electric field mediated colloidal crystal assembly. <i>Soft Matter</i> , 2013, 9, 9208.	1.2	18
18	Fokker-Planck analysis of separation dependent potentials and diffusion coefficients in simulated microscopy experiments. <i>Journal of Chemical Physics</i> , 2010, 132, 044707.	1.2	17

#	ARTICLE	IF	CITATIONS
19	Concentrated Diffusing Colloidal Probes of Ca ²⁺ -Dependent Cadherin Interactions. <i>Langmuir</i> , 2010, 26, 18976-18984.	1.6	14
20	Development of a New Coarse-Grained Model to Simulate Assembly of Cellulose Chains Due to Hydrogen Bonding. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 4599-4614.	2.3	14
21	Coarse-grained molecular dynamics simulations of α -1,3-glucan. <i>Soft Matter</i> , 2019, 15, 4669-4681.	1.2	13
22	Rotator-to-Lamellar Phase Transition in Janus Colloids Driven by Pressure Anisotropy. <i>Physical Review Letters</i> , 2016, 117, 128001.	2.9	11
23	Kinetic modeling and design of colloidal lock and key assembly. <i>Journal of Colloid and Interface Science</i> , 2016, 463, 242-257.	5.0	9
24	PANI/LDPE composites: Effect of blending conditions. <i>Polymer Composites</i> , 2009, 30, 22-28.	2.3	8
25	Molecular dynamics simulations and PRISM theory study of solutions of nanoparticles and triblock copolymers with solvophobic end blocks. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 453-472.	1.7	8
26	Shear-Induced Alignment of Janus Particle Lamellar Structures. <i>Langmuir</i> , 2018, 34, 1051-1060.	1.6	7
27	MDP based optimal control for a colloidal self-assembly system. , 2013, , .		4
28	Janus particle rotator-to-lamellar nucleation and growth kinetics. <i>Journal of Chemical Physics</i> , 2017, 146, .	1.2	2
29	Phase diagram of Janus particles: The missing dimension of pressure anisotropy. <i>Journal of Chemical Physics</i> , 2017, 147, 064510.	1.2	2