Arturo Moncho-Jorda

List of Publications by Year
in descending order

64	1,332	279798	395702
papers	citations	23 h-index	33 g-index

67	67	67	1238
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stability of binary colloids: kinetic and structural aspects of heteroaggregation processes. Soft Matter, 2006, 2, 1025.	2.7	102
2	Probing interaction forces in colloidal monolayers: Inversion of structural data. Journal of Chemical Physics, 2001, 115, 10897-10902.	3.0	62
3	A probabilistic aggregation kernel for the computer-simulated transition from DLCA to RLCA. Europhysics Letters, 2001, 53, 797-803.	2.0	58
4	Further details on the phase diagram of hard ellipsoids of revolution. Journal of Chemical Physics, 2013, 138, 064501.	3.0	41
5	Constant bond breakup probability model for reversible aggregation processes. Physical Review E, 2002, 65, 031405.	2.1	40
6	Effects of Interparticle Attractions on Colloidal Sedimentation. Physical Review Letters, 2010, 104, 068301.	7.8	40
7	Multiple contact kernel for diffusionlike aggregation. Physical Review E, 2000, 62, 8335-8343.	2.1	39
8	The Asakuraâ€“Oosawa model in the protein limit: the role of many-body interactions. Journal of Physics Condensed Matter, 2003, 15, S3429-S3442.	1.8	38
9	Density profiles and solvation forces for a Yukawa fluid in a slit pore. Journal of Chemical Physics, 2008, 128, 204704.	3.0	38
10	Electrostatic heteroaggregation regimes in colloidal suspensions. Advances in Colloid and Interface Science, 2009, 147-148, 186-204.	14.7	38
11	Role of Long-Range Repulsive Interactions in Two-Dimensional Colloidal Aggregation:Â Experiments and Simulations. Langmuir, 2002, 18, 9183-9191.	3.5	37
12	Spontaneous Formation of Mesostructures in Colloidal Monolayers Trapped at the Airâ^'Water Interface:Â A Simple Explanation. Langmuir, 2004, 20, 6977-6980.	3.5	36
13	Effective electrostatic interactions arising in core-shell charged microgel suspensions with added salt. Journal of Chemical Physics, 2013, 138, 134902.	3.0	36
14	Effective charge of ionic microgel particles in the swollen and collapsed states: The role of the steric microgel-ion repulsion. Journal of Chemical Physics, 2013, 139, 064906.	3.0	33
15	Role of Steric Interactions on the Ionic Permeation Inside Charged Microgels: Theory and Simulations. Macromolecules, 2015, 48, 4645-4656.	4.8	32
16	Competition between excluded-volume and electrostatic interactions for nanogel swelling: effects of the counterion valence and nanogel charge. Physical Chemistry Chemical Physics, 2017, 19, 6838-6848.	2.8	31
17	Concentration effects on two- and three-dimensional colloidal aggregation. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 235-245.	2.6	30
18	Swelling of ionic microgel particles in the presence of excluded-volume interactions: a density functional approach. Physical Chemistry Chemical Physics, 2016, 18, 5372-5385.	2.8	29

#	Article	IF	Citations
19	Thermoresponsive microgels at the airâ€“water interface: the impact of the swelling state on interfacial conformation. Soft Matter, 2017, 13, 230-238.	2.7	29
20	Two-Dimensional Colloidal Aggregation: Concentration Effects. Journal of Colloid and Interface Science, 2002, 246, 227-234.	9.4	28
21	Ion permeation inside microgel particles induced by specific interactions: from charge inversion to overcharging. Soft Matter, 2014, 10, 5810.	2.7	28
22	Cosolute Partitioning in Polymer Networks: Effects of Flexibility and Volume Transitions. Macromolecules, 2017, 50, 6227-6237.	4.8	27
23	The DLCA-RLCA transition arising in 2D-aggregation: simulations and mean field theory. European Physical Journal E, 2001, 5, 471-480.	1.6	25
24	Conformation change of an isotactic poly (N-isopropylacrylamide) membrane: Molecular dynamics. Journal of Chemical Physics, 2017, 146, 194905.	3.0	22
25	Sorption and Spatial Distribution of Protein Globules in Charged Hydrogel Particles. Langmuir, 2017, 33, 4567-4577.	3.5	21
26	Structure of charged colloid-polymer mixtures. Europhysics Letters, 2010, 90, 46005.	2.0	20
27	Maximizing the absorption of small cosolutes inside neutral hydrogels: steric exclusion versus hydrophobic adhesion. Physical Chemistry Chemical Physics, 2018, 20, 2814-2825.	2.8	19
28	Nonequilibrium Uptake Kinetics of Molecular Cargo into Hollow Hydrogels Tuned by Electrosteric Interactions. ACS Nano, 2019, 13, 1603-1616.	14.6	19
29	Effect of polymerâ€“polymer interactions on the surface tension of colloidâ€“polymer mixtures. Journal of Chemical Physics, 2003, 119, 12667-12672.	3.0	17
30	Controlling the Microstructure and Phase Behavior of Confined Soft Colloids by Active Interaction Switching. Physical Review Letters, 2020, 125, 078001.	7.8	17
31	Comparative study of theories of conversion of electrophoretic mobility into Î¶-potential. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 192, 215-226.	4.7	16
32	Formation and structure of stable aggregates in binary diffusion-limited cluster-cluster aggregation processes. Physical Review E, 2005, 72, 031401.	2.1	16
33	The Effect of the Salt Concentration and Counterion Valence on the Aggregation of Latex Particles at the Air/Water Interface. Journal of Colloid and Interface Science, 2002, 249, 405-411.	9.4	15
34	Modeling the aggregation of partially covered particles: Theory and simulation. Physical Review E, 2003, 68, 011404.	2.1	15
35	Density-Functional Study of Interfacial Properties of Colloidâ^'Polymer Mixturesâ€. Journal of Physical Chemistry B, 2005, 109, 6640-6649.	2.6	15
36	Evidence of electrostatic-enhanced depletion attraction in the structural properties and phase behavior of binary charged colloidal suspensions. Soft Matter, 2018, 14, 1355-1364.	2.7	15

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37	Scaling Laws in the Diffusive Release of Neutral Cargo from Hollow Hydrogel Nanoparticles: Paclitaxel-Loaded Poly(4-vinylpyridine). ACS Nano, 2020, 14, 15227-15240.	14.6	15
38	Effects of Vimentin Intermediate Filaments on the Structure and Dynamics of InÂVitro Multicomponent Interpenetrating Cytoskeletal Networks. Physical Review Letters, 2021, 127, 108101.	7.8	15
39	Coupled aggregation and sedimentation processes: The sticking probability effect. Physical Review E, 2003, 67, 031401.	2.1	14
40	The effect of electrosteric interactions on the effective charge of thermoresponsive ionic microgels: Theory and experiments. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 2038-2049.	2.1	14
41	Direct determination of forces between charged nanogels through coarse-grained simulations. Physical Review E, 2018, 97, 042608.	2.1	14
42	Charged colloid-polymer mixtures: A study on electrostatic depletion attraction. Journal of Chemical Physics, 2011, 134, 054905.	3.0	12
43	Active interaction switching controls the dynamic heterogeneity of soft colloidal dispersions. Soft Matter, 2022, 18, 397-411.	2.7	12
44	Simulations of aggregation in 2D. A study of kinetics, structure and topological properties. Physica A: Statistical Mechanics and Its Applications, 2000, 282, 50-64.	2.6	11
45	Active binary switching of soft colloids: stability and structural properties. Soft Matter, 2021, 17, 7682-7696.	2.7	10
46	Self-Assembly in Two-Dimensions of Colloidal Particles at Liquid Mixtures. Langmuir, 2006, 22, 6746-6749.	3.5	9
47	Two-dimensional colloidal aggregation mediated by the range of repulsive interactions. Physical Review E, 2007, 75, 041408.	2.1	9
48	How PÃ©clet number affects microstructure and transient cluster aggregation in sedimenting colloidal suspensions. Journal of Chemical Physics, 2012, 136, 064517.	3.0	9
49	Coupled aggregation and sedimentation processes: stochastic mean field theory. Physica A: Statistical Mechanics and Its Applications, 2004, 335, 35-46.	2.6	7
50	Role of the electrostatic depletion attraction on the structure of charged liposome-polymer mixtures. Physical Review E, 2012, 85, 051405.	2.1	7
51	Simulations of colloidal aggregation with short- and medium-range interactions. Physica A: Statistical Mechanics and Its Applications, 2004, 333, 257-268.	2.6	6
52	Crossover of the effective charge in ionic thermoresponsive hydrogel particles. Physical Review E, 2019, 100, 050602.	2.1	6
53	Electrostatic depletion effects on the stability of colloidal dispersions of sepiolite and natural rubber latex. Journal of Colloid and Interface Science, 2020, 560, 606-617.	9.4	6
54	Short- and long-range topological correlations in two-dimensional aggregation of dense colloidal suspensions. Physical Review E, 2005, 71, 041401.	2.1	5

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55	Wallâ€“particle interactions and depletion forces in narrow slits. Current Opinion in Colloid and Interface Science, 2015, 20, 24-31.	7.4	5
56	Multiple time scales and cluster formation mechanisms in charge-heteroaggregation processes. Soft Matter, 2010, 6, 3568.	2.7	4
57	Brownian dynamics simulation of monolayer formation by deposition of colloidal particles: A kinetic study at high bulk particle concentration. European Physical Journal E, 2012, 35, 69.	1.6	4
58	Effective interaction in asymmetric charged binary mixtures: The non-monotonic behaviour with the colloidal charge. European Physical Journal E, 2012, 35, 120.	1.6	4
59	A comparative study on the effect of hydrodynamic interactions in the non-sequential deposition of concentrated colloidal dispersions: stochastic rotation dynamics and Brownian dynamics simulations. Molecular Physics, 2015, 113, 3587-3597.	1.7	3
60	On the scattered light by dilute aqueous dispersions of nanogel particles. Journal of Colloid and Interface Science, 2015, 450, 310-315.	9.4	3
61	Nanogels for Drug Delivery: the Key Role of Nanogelâ€“Drug Interactions. RSC Nanoscience and Nanotechnology, 2014, , 133-156.	0.2	2
62	The kinetics of irreversible aggregation processes. , 2001, , 87-90.		1
63	Colloidal Aggregation in Two-Dimensions. , 2004, , 113-209.		0
64	Structure and interaction forces in colloidal monolayers. , 0, , 119-122.		0