Plinio Maroni

List of Publications by Year
in descending order

73 papers	2,745 citations	159585 30 h-index	182427 51 g-index
76 all docs	76 docs citations	76 times ranked	2816 citing authors

#	Article	IF	Citations
1	Thickness of the particle-free layer near charged interfaces in suspensions of like-charged nanoparticles. Soft Matter, 2021, 17, 6212-6224.	2.7	4
2	Particle Deposition to Silica Surfaces Functionalized with Cationic Polyelectrolytes. Colloids and Interfaces, 2021, 5, 26.	2.1	1
3	Size-dependent aggregation of graphene oxide. Carbon, 2020, 160, 145-155.	10.3	86
4	Oscillatory structural forces between charged interfaces in solutions of oppositely charged polyelectrolytes. Soft Matter, 2020, 16, 9662-9668.	2.7	3
5	Structural and Double Layer Forces between Silica Surfaces in Suspensions of Negatively Charged Nanoparticles. Langmuir, 2020, 36, 14443-14452.	3.5	6
6	Structuring of colloidal silica nanoparticle suspensions near waterâ€“silica interfaces probed by specular neutron reflectivity. Physical Chemistry Chemical Physics, 2020, 22, 6449-6456.	2.8	5
7	Swelling Behavior, Interaction, and Electrostatic Properties of Chitosan/Alginate Dialdehyde Multilayer Films with Different Outermost Layer. Langmuir, 2020, 36, 3782-3791.	3.5	11
8	Formation of Poly-<scp>l</scp>-lysine Monolayers on Silica: Modeling and Experimental Studies. Journal of Physical Chemistry C, 2020, 124, 4571-4581.	3.1	19
9	Unexpectedly Large Decay Lengths of Double-Layer Forces in Solutions of Symmetric, Multivalent Electrolytes. Journal of Physical Chemistry B, 2019, 123, 1733-1740.	2.6	26
10	Size extensivity of elastic properties of alkane fragments. Journal of Molecular Modeling, 2018, 24, 36.	1.8	4
11	Persistence Length of Poly(vinyl amine): Quantitative Image Analysis versus Single Molecule Force Response. Macromolecules, 2018, 51, 3632-3639.	4.8	14
12	Interactions between similar and dissimilar charged interfaces in the presence of multivalent anions. Physical Chemistry Chemical Physics, 2018, 20, 9436-9448.	2.8	12
13	Attractive non-DLVO forces induced by adsorption of monovalent organic ions. Physical Chemistry Chemical Physics, 2018, 20, 158-164.	2.8	15
14	Measuring Inner Layer Capacitance with the Colloidal Probe Technique. Colloids and Interfaces, 2018, 2, 65.	2.1	14
15	Rapid Desorption of Polyelectrolytes from Solid Surfaces Induced by Changes of Aqueous Chemistry. Langmuir, 2018, 34, 12302-12309.	3.5	2
16	Forces between different latex particles in aqueous electrolyte solutions measured with the colloidal probe technique. Microscopy Research and Technique, 2017, 80, 144-152.	2.2	4
17	Depletion and double layer forces acting between charged particles in solutions of like-charged polyelectrolytes and monovalent salts. Soft Matter, 2017, 13, 3284-3295.	2.7	19
18	Influence of Solvent Quality on the Force Response of Individual Poly(styrene) Polymer Chains. ACS Macro Letters, 2017, 6, 1052-1055.	4.8	26

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19	Mechanically induced cis-to-trans isomerization of carbonâ€“carbon double bonds using atomic force microscopy. Physical Chemistry Chemical Physics, 2016, 18, 31202-31210.	2.8	18
20	The persistence length of adsorbed dendronized polymers. Nanoscale, 2016, 8, 13498-13506.	5.6	12
21	Recording stretching response of single polymer chains adsorbed on solid substrates. Polymer, 2016, 102, 350-362.	3.8	15
22	Dispersion forces acting between silica particles across water: influence of nanoscale roughness. Nanoscale Horizons, 2016, 1, 325-330.	8.0	55
23	Forces between silica particles in the presence of multivalent cations. Journal of Colloid and Interface Science, 2016, 472, 108-115.	9.4	31
24	Interplay between Depletion and Double-Layer Forces Acting between Charged Particles in Solutions of Like-Charged Polyelectrolytes. Physical Review Letters, 2016, 117, 088001.	7.8	25
25	Nanometer-ranged attraction induced by multivalent ions between similar and dissimilar surfaces probed using an atomic force microscope (AFM). Physical Chemistry Chemical Physics, 2016, 18, 8739-8751.	2.8	15
26	Interaction Forces and Aggregation Rates of Colloidal Latex Particles in the Presence of Monovalent Counterions. Journal of Physical Chemistry B, 2015, 119, 8184-8193.	2.6	34
27	Adsorbed Mass of Polymers on Self-Assembled Monolayers: Effect of Surface Chemistry and Polymer Charge. Langmuir, 2015, 31, 6045-6054.	3.5	25
28	Adsorption of polyelectrolytes to like-charged substrates induced by multivalent counterions as exemplified by poly(styrene sulfonate) and silica. Physical Chemistry Chemical Physics, 2015, 17, 10348-10352.	2.8	39
29	Long-ranged and soft interactions between charged colloidal particles induced by multivalent coions. Soft Matter, 2015, 11, 1562-1571.	2.7	31
30	Forces between Negatively Charged Interfaces in the Presence of Cationic Multivalent Oligoamines Measured with the Atomic Force Microscope. Journal of Physical Chemistry C, 2015, 119, 15482-15490.	3.1	37
31	Direct force measurements between silica particles in aqueous solutions of ionic liquids containing 1-butyl-3-methylimidazolium (BMIM). Physical Chemistry Chemical Physics, 2015, 17, 16553-16559.	2.8	19
32	Preparation of Anisotropic and Oriented Particles on a Flexible Substrate. Langmuir, 2015, 31, 13221-13229.	3.5	3
33	Studying the role of surface chemistry on polyelectrolyte adsorption using goldâ€“thiol self-assembled monolayer with optical reflectivity. Soft Matter, 2014, 10, 9220-9225.	2.7	18
34	Polymerâ€“Aptamer Hybrid Emulsion Templating Yields Bioresponsive Nanocapsules. Advanced Functional Materials, 2014, 24, 1133-1139.	14.9	18
35	Dispersion Characteristics and Aggregation in Titanate Nanowire Colloids. ChemPlusChem, 2014, 79, 592-600.	2.8	15
36	Measurements of dispersion forces between colloidal latex particles with the atomic force microscope and comparison with Lifshitz theory. Journal of Chemical Physics, 2014, 140, 104906.	3.0	55

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37	Dendrimer induced interaction forces between colloidal particles revealed by direct force and aggregation measurements. Journal of Colloid and Interface Science, 2014, 417, 346-355.	9.4	5
38	Mechanism of Chitosan Adsorption on Silica from Aqueous Solutions. Langmuir, 2014, 30, 4980-4988.	3.5	51
39	Polyelectrolyte adsorption, interparticle forces, and colloidal aggregation. Soft Matter, 2014, 10, 2479.	2.7	284
40	Synthesis and Self-Assembly of a DNA Molecular Brush. Biomacromolecules, 2014, 15, 3375-3382.	5.4	18
41	Accurate Predictions of Forces in the Presence of Multivalent Ions by Poissonâ€“Boltzmann Theory. Langmuir, 2014, 30, 4551-4555.	3.5	37
42	Single-Molecule Force Measurements by Nano-Handling of Individual Dendronized Polymers. ACS Nano, 2014, 8, 2237-2245.	14.6	15
43	Electric double-layer potentials and surface regulation properties measured by colloidal-probe atomic force microscopy. Physical Review E, 2014, 90, 012301.	2.1	44
44	Attractive Forces between Charged Colloidal Particles Induced by Multivalent Ions Revealed by Confronting Aggregation and Direct Force Measurements. Journal of Physical Chemistry Letters, 2013, 4, 648-652.	4.6	89
45	Direct measurements of forces between different charged colloidal particles and their prediction by the theory of Derjaguin, Landau, Verwey, and Overbeek (DLVO). Journal of Chemical Physics, 2013, 138, 234705.	3.0	31
46	Interactions between Individual Charged Dendronized Polymers and Surfaces. Macromolecules, 2013, 46, 3603-3610.	4.8	18
47	Predicting Aggregation Rates of Colloidal Particles from Direct Force Measurements. Journal of Physical Chemistry B, 2013, 117, 11853-11862.	2.6	54
48	Exploring Forces between Individual Colloidal Particles with the Atomic Force Microscope. Chimia, 2012, 66, 214.	0.6	2
49	Investigating forces between charged particles in the presence of oppositely charged polyelectrolytes with the multi-particle colloidal probe technique. Advances in Colloid and Interface Science, 2012, 179-182, 85-98.	14.7	79
50	Response of Adsorbed Polyelectrolyte Monolayers to Changes in Solution Composition. Langmuir, 2012, 28, 17506-17516.	3.5	41
51	Ion-Specific Responsiveness of Polyamidoamine (PAMAM) Dendrimers Adsorbed on Silica Substrates. Macromolecules, 2012, 45, 3919-3927.	4.8	23
52	Structure of Adsorbed Polyelectrolyte Monolayers Investigated by Combining Optical Reflectometry and Piezoelectric Techniques. Langmuir, 2012, 28, 5642-5651.	3.5	62
53	Conformational Changes of Polyamidoamine (PAMAM) Dendrimers Adsorbed on Silica Substrates. Macromolecules, 2011, 44, 5069-5071.	4.8	19
54	Zipper and Layer-by-Layer Assemblies of Artificial Photosystems Analyzed by Combining Optical and Piezoelectric Surface Techniques. Langmuir, 2011, 27, 7213-7221.	3.5	8

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55	Charge Reversal of Sulfate Latex Particles by Adsorbed Linear Poly(ethylene imine) Probed by Multiparticle Colloidal Probe Technique. Journal of Physical Chemistry B, 2011, 115, 9098-9105.	2.6	37
56	Adsorption of monovalent and divalent cations on planar water-silica interfaces studied by optical reflectivity and Monte Carlo simulations. Journal of Chemical Physics, 2011, 135, 064701.	3.0	44
57	Adsorption and surface-induced precipitation of poly(acrylic acid) on calcite revealed with atomic force microscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 390, 225-230.	4.7	8
58	Large Mechanical Response of Single Dendronized Polymers Induced by Ionic Strength. Angewandte Chemie - International Edition, 2010, 49, 4250-4253.	13.8	31
59	Highly-sensitive reflectometry setup capable of probing the electrical double layer on silica. Sensors and Actuators B: Chemical, 2010, 151, 250-255.	7.8	16
60	Adsorption of poly(l-lysine) on silica probed by optical reflectometry. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 360, 20-25.	4.7	43
61	Importance of Charge Regulation in Attractive Double-Layer Forces between Dissimilar Surfaces. Physical Review Letters, 2010, 104, 228301.	7.8	89
62	Topologically Matching Supramolecular n/pâ€Heterojunction Architectures. Angewandte Chemie - International Edition, 2009, 48, 6461-6464.	13.8	46
63	Transition from Completely Reversible to Irreversible Adsorption of Poly(amido amine) Dendrimers on Silica. Langmuir, 2009, 25, 2928-2934.	3.5	35
64	Ordered and Oriented Supramolecular n/p-Heterojunction Surface Architectures: Completion of the Primary Color Collection. Journal of the American Chemical Society, 2009, 131, 11106-11116.	13.7	111
65	Adsorption and Self-Organization of Dendrimers at Waterâ€"Solid Interfaces. Chimia, 2009, 63, 279.	0.6	3
66	Interaction and Structure of Surfaces Coated by Poly(vinyl amines) of Different Line Charge Densities. Journal of Physical Chemistry B, 2008, 112, 14609-14619.	2.6	34
67	Thin adsorbed films of a strong cationic polyelectrolyte on silica substrates. Journal of Colloid and Interface Science, 2007, 309, 28-35.	9.4	66
68	Efficient stimulated Raman pumping for quantum state resolved surface reactivity measurements. Review of Scientific Instruments, 2006, 77, 054103.	1.3	17
69	State-Resolved Gas-Surface Reactivity of Methane in the Symmetric C-H Stretch Vibration on Ni(100). Physical Review Letters, 2005, 94, .	7.8	150
70	Vibrational Mode-Specific Reaction of Methane on a Nickel Surface. Science, 2003, 302, 98-100.	12.6	239
71	Molecular-beam/surface-science apparatus for state-resolved chemisorption studies using pulsed-laser preparation. Review of Scientific Instruments, 2003, 74, 4110-4120.	1.3	40
72	Surface reactivity of highly vibrationally excited molecules prepared by pulsed laser excitation: CH4 (2Î½3) on Ni(100). Journal of Chemical Physics, 2002, 117, 8603-8606.	3.0	106

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73	Depletion of Polyelectrolytes near Like-Charged Substrates Probed by Optical Reflectivity. Journal of Physical Chemistry C, 0, , .	3.1	2