

# Plinio Maroni

## List of Publications by Year in descending order

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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	Polyelectrolyte adsorption, interparticle forces, and colloidal aggregation. <i>Soft Matter</i> , 2014, 10, 2479.	2.7	284
2	Vibrational Mode-Specific Reaction of Methane on a Nickel Surface. <i>Science</i> , 2003, 302, 98-100.	12.6	239
3	State-Resolved Gas-Surface Reactivity of Methane in the Symmetric C-H Stretch Vibration on Ni(100). <i>Physical Review Letters</i> , 2005, 94, .	7.8	150
4	Ordered and Oriented Supramolecular n/p-Heterojunction Surface Architectures: Completion of the Primary Color Collection. <i>Journal of the American Chemical Society</i> , 2009, 131, 11106-11116.	13.7	111
5	Surface reactivity of highly vibrationally excited molecules prepared by pulsed laser excitation: CH <sub>4</sub> (2 <sup>1</sup> / <sub>2</sub> 3) on Ni(100). <i>Journal of Chemical Physics</i> , 2002, 117, 8603-8606.	3.0	106
6	Importance of Charge Regulation in Attractive Double-Layer Forces between Dissimilar Surfaces. <i>Physical Review Letters</i> , 2010, 104, 228301.	7.8	89
7	Attractive Forces between Charged Colloidal Particles Induced by Multivalent Ions Revealed by Confronting Aggregation and Direct Force Measurements. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 648-652.	4.6	89
8	Size-dependent aggregation of graphene oxide. <i>Carbon</i> , 2020, 160, 145-155.	10.3	86
9	Investigating forces between charged particles in the presence of oppositely charged polyelectrolytes with the multi-particle colloidal probe technique. <i>Advances in Colloid and Interface Science</i> , 2012, 179-182, 85-98.	14.7	79
10	Thin adsorbed films of a strong cationic polyelectrolyte on silica substrates. <i>Journal of Colloid and Interface Science</i> , 2007, 309, 28-35.	9.4	66
11	Structure of Adsorbed Polyelectrolyte Monolayers Investigated by Combining Optical Reflectometry and Piezoelectric Techniques. <i>Langmuir</i> , 2012, 28, 5642-5651.	3.5	62
12	Measurements of dispersion forces between colloidal latex particles with the atomic force microscope and comparison with Lifshitz theory. <i>Journal of Chemical Physics</i> , 2014, 140, 104906.	3.0	55
13	Dispersion forces acting between silica particles across water: influence of nanoscale roughness. <i>Nanoscale Horizons</i> , 2016, 1, 325-330.	8.0	55
14	Predicting Aggregation Rates of Colloidal Particles from Direct Force Measurements. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11853-11862.	2.6	54
15	Mechanism of Chitosan Adsorption on Silica from Aqueous Solutions. <i>Langmuir</i> , 2014, 30, 4980-4988.	3.5	51
16	Topologically Matching Supramolecular n/p-Heterojunction Architectures. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6461-6464.	13.8	46
17	Adsorption of monovalent and divalent cations on planar water-silica interfaces studied by optical reflectivity and Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2011, 135, 064701.	3.0	44
18	Electric double-layer potentials and surface regulation properties measured by colloidal-probe atomic force microscopy. <i>Physical Review E</i> , 2014, 90, 012301.	2.1	44

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19	Adsorption of poly(L-lysine) on silica probed by optical reflectometry. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 360, 20-25.	4.7	43
20	Response of Adsorbed Polyelectrolyte Monolayers to Changes in Solution Composition. <i>Langmuir</i> , 2012, 28, 17506-17516.	3.5	41
21	Molecular-beam/surface-science apparatus for state-resolved chemisorption studies using pulsed-laser preparation. <i>Review of Scientific Instruments</i> , 2003, 74, 4110-4120.	1.3	40
22	Adsorption of polyelectrolytes to like-charged substrates induced by multivalent counterions as exemplified by poly(styrene sulfonate) and silica. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10348-10352.	2.8	39
23	Charge Reversal of Sulfate Latex Particles by Adsorbed Linear Poly(ethylene imine) Probed by Multiparticle Colloidal Probe Technique. <i>Journal of Physical Chemistry B</i> , 2011, 115, 9098-9105.	2.6	37
24	Accurate Predictions of Forces in the Presence of Multivalent Ions by Poisson-Boltzmann Theory. <i>Langmuir</i> , 2014, 30, 4551-4555.	3.5	37
25	Forces between Negatively Charged Interfaces in the Presence of Cationic Multivalent Oligoamines Measured with the Atomic Force Microscope. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15482-15490.	3.1	37
26	Transition from Completely Reversible to Irreversible Adsorption of Poly(amido amine) Dendrimers on Silica. <i>Langmuir</i> , 2009, 25, 2928-2934.	3.5	35
27	Interaction and Structure of Surfaces Coated by Poly(vinyl amines) of Different Line Charge Densities. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14609-14619.	2.6	34
28	Interaction Forces and Aggregation Rates of Colloidal Latex Particles in the Presence of Monovalent Counterions. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8184-8193.	2.6	34
29	Large Mechanical Response of Single Dendronized Polymers Induced by Ionic Strength. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4250-4253.	13.8	31
30	Direct measurements of forces between different charged colloidal particles and their prediction by the theory of Derjaguin, Landau, Verwey, and Overbeek (DLVO). <i>Journal of Chemical Physics</i> , 2013, 138, 234705.	3.0	31
31	Long-ranged and soft interactions between charged colloidal particles induced by multivalent cations. <i>Soft Matter</i> , 2015, 11, 1562-1571.	2.7	31
32	Forces between silica particles in the presence of multivalent cations. <i>Journal of Colloid and Interface Science</i> , 2016, 472, 108-115.	9.4	31
33	Influence of Solvent Quality on the Force Response of Individual Poly(styrene) Polymer Chains. <i>ACS Macro Letters</i> , 2017, 6, 1052-1055.	4.8	26
34	Unexpectedly Large Decay Lengths of Double-Layer Forces in Solutions of Symmetric, Multivalent Electrolytes. <i>Journal of Physical Chemistry B</i> , 2019, 123, 1733-1740.	2.6	26
35	Adsorbed Mass of Polymers on Self-Assembled Monolayers: Effect of Surface Chemistry and Polymer Charge. <i>Langmuir</i> , 2015, 31, 6045-6054.	3.5	25
36	Interplay between Depletion and Double-Layer Forces Acting between Charged Particles in Solutions of Like-Charged Polyelectrolytes. <i>Physical Review Letters</i> , 2016, 117, 088001.	7.8	25

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37	Ion-Specific Responsiveness of Polyamidoamine (PAMAM) Dendrimers Adsorbed on Silica Substrates. <i>Macromolecules</i> , 2012, 45, 3919-3927.	4.8	23
38	Conformational Changes of Polyamidoamine (PAMAM) Dendrimers Adsorbed on Silica Substrates. <i>Macromolecules</i> , 2011, 44, 5069-5071.	4.8	19
39	Direct force measurements between silica particles in aqueous solutions of ionic liquids containing 1-butyl-3-methylimidazolium (BMIM). <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16553-16559.	2.8	19
40	Depletion and double layer forces acting between charged particles in solutions of like-charged polyelectrolytes and monovalent salts. <i>Soft Matter</i> , 2017, 13, 3284-3295.	2.7	19
41	Formation of Poly-L-lysine Monolayers on Silica: Modeling and Experimental Studies. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4571-4581.	3.1	19
42	Interactions between Individual Charged Dendronized Polymers and Surfaces. <i>Macromolecules</i> , 2013, 46, 3603-3610.	4.8	18
43	Studying the role of surface chemistry on polyelectrolyte adsorption using gold-thiol self-assembled monolayer with optical reflectivity. <i>Soft Matter</i> , 2014, 10, 9220-9225.	2.7	18
44	Polymer-Aptamer Hybrid Emulsion Templating Yields Bioresponsive Nanocapsules. <i>Advanced Functional Materials</i> , 2014, 24, 1133-1139.	14.9	18
45	Synthesis and Self-Assembly of a DNA Molecular Brush. <i>Biomacromolecules</i> , 2014, 15, 3375-3382.	5.4	18
46	Mechanically induced cis-to-trans isomerization of carbon-carbon double bonds using atomic force microscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31202-31210.	2.8	18
47	Efficient stimulated Raman pumping for quantum state resolved surface reactivity measurements. <i>Review of Scientific Instruments</i> , 2006, 77, 054103.	1.3	17
48	Highly-sensitive reflectometry setup capable of probing the electrical double layer on silica. <i>Sensors and Actuators B: Chemical</i> , 2010, 151, 250-255.	7.8	16
49	Dispersion Characteristics and Aggregation in Titanate Nanowire Colloids. <i>ChemPlusChem</i> , 2014, 79, 592-600.	2.8	15
50	Single-Molecule Force Measurements by Nano-Handling of Individual Dendronized Polymers. <i>ACS Nano</i> , 2014, 8, 2237-2245.	14.6	15
51	Recording stretching response of single polymer chains adsorbed on solid substrates. <i>Polymer</i> , 2016, 102, 350-362.	3.8	15
52	Nanometer-ranged attraction induced by multivalent ions between similar and dissimilar surfaces probed using an atomic force microscope (AFM). <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8739-8751.	2.8	15
53	Attractive non-DLVO forces induced by adsorption of monovalent organic ions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 158-164.	2.8	15
54	Persistence Length of Poly(vinyl amine): Quantitative Image Analysis versus Single Molecule Force Response. <i>Macromolecules</i> , 2018, 51, 3632-3639.	4.8	14

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55	Measuring Inner Layer Capacitance with the Colloidal Probe Technique. <i>Colloids and Interfaces</i> , 2018, 2, 65.	2.1	14
56	The persistence length of adsorbed dendronized polymers. <i>Nanoscale</i> , 2016, 8, 13498-13506.	5.6	12
57	Interactions between similar and dissimilar charged interfaces in the presence of multivalent anions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9436-9448.	2.8	12
58	Swelling Behavior, Interaction, and Electrostatic Properties of Chitosan/Alginate Dialdehyde Multilayer Films with Different Outermost Layer. <i>Langmuir</i> , 2020, 36, 3782-3791.	3.5	11
59	Zipper and Layer-by-Layer Assemblies of Artificial Photosystems Analyzed by Combining Optical and Piezoelectric Surface Techniques. <i>Langmuir</i> , 2011, 27, 7213-7221.	3.5	8
60	Adsorption and surface-induced precipitation of poly(acrylic acid) on calcite revealed with atomic force microscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 390, 225-230.	4.7	8
61	Structural and Double Layer Forces between Silica Surfaces in Suspensions of Negatively Charged Nanoparticles. <i>Langmuir</i> , 2020, 36, 14443-14452.	3.5	6
62	Dendrimer induced interaction forces between colloidal particles revealed by direct force and aggregation measurements. <i>Journal of Colloid and Interface Science</i> , 2014, 417, 346-355.	9.4	5
63	Structuring of colloidal silica nanoparticle suspensions near water-silica interfaces probed by specular neutron reflectivity. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6449-6456.	2.8	5
64	Forces between different latex particles in aqueous electrolyte solutions measured with the colloidal probe technique. <i>Microscopy Research and Technique</i> , 2017, 80, 144-152.	2.2	4
65	Size extensivity of elastic properties of alkane fragments. <i>Journal of Molecular Modeling</i> , 2018, 24, 36.	1.8	4
66	Thickness of the particle-free layer near charged interfaces in suspensions of like-charged nanoparticles. <i>Soft Matter</i> , 2021, 17, 6212-6224.	2.7	4
67	Adsorption and Self-Organization of Dendrimers at Water-Solid Interfaces. <i>Chimia</i> , 2009, 63, 279.	0.6	3
68	Preparation of Anisotropic and Oriented Particles on a Flexible Substrate. <i>Langmuir</i> , 2015, 31, 13221-13229.	3.5	3
69	Oscillatory structural forces between charged interfaces in solutions of oppositely charged polyelectrolytes. <i>Soft Matter</i> , 2020, 16, 9662-9668.	2.7	3
70	Exploring Forces between Individual Colloidal Particles with the Atomic Force Microscope. <i>Chimia</i> , 2012, 66, 214.	0.6	2
71	Rapid Desorption of Polyelectrolytes from Solid Surfaces Induced by Changes of Aqueous Chemistry. <i>Langmuir</i> , 2018, 34, 12302-12309.	3.5	2
72	Depletion of Polyelectrolytes near Like-Charged Substrates Probed by Optical Reflectivity. <i>Journal of Physical Chemistry C</i> , 0, , .	3.1	2

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73	Particle Deposition to Silica Surfaces Functionalized with Cationic Polyelectrolytes. Colloids and Interfaces, 2021, 5, 26.	2.1	1