Monica Olvera de la Cruz

List of Publications by Year
in descending order

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336	14,096	23544	31818
papers	citations	58 h-index	101 g-index

348	348	348	13459
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A self-assembly pathway to aligned monodomain gels. Nature Materials, 2010, 9, 594-601.	13.3	576
2	Precipitation of DNA by Polyamines: A Polyelectrolyte Behavior. Biophysical Journal, 1998, 74, 381-393.	0.2	407
3	Controlling Conformations of Conjugated Polymers and Small Molecules: The Role of Nonbonding Interactions. Journal of the American Chemical Society, 2013, 135, 10475-10483.	6.6	386
4	DNA-mediated nanoparticle crystallization into Wulff polyhedra. Nature, 2014, 505, 73-77.	13.7	382
5	Energy landscapes and functions of supramolecular systems. Nature Materials, 2016, 15, 469-476.	13.3	348
6	Precipitation of highly charged polyelectrolyte solutions in the presence of multivalent salts. Journal of Chemical Physics, 1995, 103, 5781-5791.	1.2	321
7	All-Polymer Solar Cell Performance Optimized via Systematic Molecular Weight Tuning of Both Donor and Acceptor Polymers. Journal of the American Chemical Society, 2016, 138, 1240-1251.	6.6	276
8	Theory of microphase separation in graft and star copolymers. Macromolecules, 1986, 19, 2501-2508.	2.2	270
9	Electrostatic control of block copolymerÂmorphology. Nature Materials, 2014, 13, 694-698.	13.3	235
10	Electrostatics at the nanoscale. Nanoscale, 2011, 3, 1316-1344.	2.8	222
11	Molecular Simulation Study of Peptide Amphiphile Self-Assembly. Journal of Physical Chemistry B, 2008, 112, 2326-2334.	1.2	201
12	Collapse of flexible polyelectrolytes in multivalent salt solutions. Journal of Chemical Physics, 2000, 112, 2030-2035.	1.2	199
13	Tunable Mechanics of Peptide Nanofiber Gels. Langmuir, 2010, 26, 3641-3647.	1.6	197
14	Random heteropolymers preserve protein function in foreign environments. Science, 2018, 359, 1239-1243.	6.0	196
15	Conformational Order in Aggregates of Conjugated Polymers. Journal of the American Chemical Society, 2015, 137, 6254-6262.	6.6	177
16	Microphase separation in multiblock copolymer melts. Journal of Chemical Physics, 1989, 91, 7228-7235.	1.2	174
17	Fast and programmable locomotion of hydrogel-metal hybrids under light and magnetic fields. Science Robotics, 2020, 5, .	9.9	163
18	Complexation of Oppositely Charged Polyelectrolytes:Â Effect of Ion Pair Formation. Macromolecules, 2004, 37, 9231-9241.	2.2	135

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19	Modeling the Crystallization of Spherical Nucleic Acid Nanoparticle Conjugates with Molecular Dynamics Simulations. Nano Letters, 2012, 12, 2509-2514.	4.5	129
20	Precipitation of oppositely charged polyelectrolytes in salt solutions. Journal of Chemical Physics, 2004, 120, 404-412.	1.2	128
21	Molecular Theory of Weak Polyelectrolyte Gels: The Role of pH and Salt Concentration. Macromolecules, 2011, 44, 147-158.	2.2	125
22	Ion condensation in saltâ€free dilute polyelectrolyte solutions. Journal of Chemical Physics, 1995, 103, 3145-3157.	1.2	124
23	Phase Segregation in Gradient Copolymer Melts. Macromolecules, 2004, 37, 1118-1123.	2.2	122
24	Self-organization of grafted polyelectrolyte layers via the coupling of chemical equilibrium and physical interactions. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5300-5305.	3.3	108
25	Concentration fluctuation effects on disorderâ€“order transitions in block copolymer melts. Journal of Chemical Physics, 1991, 95, 4670-4677.	1.2	106
26	Covalent-supramolecular hybrid polymers as muscle-inspired anisotropic actuators. Nature Communications, 2018, 9, 2395.	5.8	102
27	Supramolecular self-assembly codes for functional structures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 1417-1433.	1.6	98
28	Transitions to periodic structures in block copolymer melts. Physical Review Letters, 1991, 67, 85-88.	2.9	94
29	Phase Separation of Ternary Mixtures: Symmetric Polymer Blends. Macromolecules, 1995, 28, 7996-8005.	2.2	93
30	Attractive interactions between rodlike polyelectrolytes:â€,â€Polarization, crystallization, and packing. Physical Review E, 1999, 60, 4496-4499.	0.8	93
31	Flexible linear polyelectrolytes in multivalent salt solutions: Solubility conditions. European Physical Journal E, 2001, 4, 143-152.	0.7	93
32	Particle analogs of electrons in colloidal crystals. Science, 2019, 364, 1174-1178.	6.0	91
33	Effect of Ionâ€“Ion Correlations on Polyelectrolyte Gel Collapse and Reentrant Swelling. Macromolecules, 2013, 46, 5053-5065.	2.2	90
34	Mechanical model of blebbing in nuclear lamin meshworks. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3248-3253.	3.3	89
35	Enhanced Binding of SARS-CoV-2 Spike Protein to Receptor by Distal Polybasic Cleavage Sites. ACS Nano, 2020, 14, 10616-10623.	7.3	89
36	Polycrystalline Covalent Organic Framework Films Act as Adsorbents, Not Membranes. Journal of the American Chemical Society, 2021, 143, 1466-1473.	6.6	88

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37	Faceting ionic shells into icosahedra via electrostatics. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18382-18386.	3.3	84
38	Platonic and Archimedean geometries in multicomponent elastic membranes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4292-4296.	3.3	80
39	Study of volume phase transitions in polymeric nanogels by theoretically informed coarse-grained simulations. Soft Matter, 2011, 7, 5965.	1.2	79
40	Mesoscale molecular network formation in amorphous organic materials. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10055-10060.	3.3	79
41	What Controls the Hybridization Thermodynamics of Spherical Nucleic Acids?. Journal of the American Chemical Society, 2015, 137, 3486-3489.	6.6	79
42	Theory of microphase separation in block copolymer solutions. Journal of Chemical Physics, 1989, 90, 1995-2002.	1.2	76
43	Co-assembly of Peptide Amphiphiles and Lipids into Supramolecular Nanostructures Driven by Anionâ˜Ï€ Interactions. Journal of the American Chemical Society, 2017, 139, 7823-7830.	6.6	75
44	Shape-Directed Microspinners Powered by Ultrasound. ACS Nano, 2018, 12, 2939-2947.	7.3	74
45	Programming Colloidal Crystal Habit with Anisotropic Nanoparticle Building Blocks and DNA Bonds. Journal of the American Chemical Society, 2016, 138, 14562-14565.	6.6	73
46	Insights into the Enhanced Catalytic Activity of Cytochrome c When Encapsulated in a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2020, 142, 18576-18582.	6.6	73
47	A Modified Random Phase Approximation of Polyelectrolyte Solutions. Macromolecules, 2003, 36, 7824-7832.	2.2	71
48	Facilitated dissociation of transcription factors from single DNA binding sites. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3251-E3257.	3.3	71
49	Effects of the ionic size-asymmetry around a charged nanoparticle: unequal charge neutralization and electrostatic screening. Soft Matter, 2010, 6, 2056.	1.2	70
50	Thermally Active Hybridization Drives the Crystallization of DNA-Functionalized Nanoparticles. Journal of the American Chemical Society, 2013, 135, 8535-8541.	6.6	70
51	A Quantitative Description of the Binding Equilibria of para-Substituted Aniline Ligands and CdSe Quantum Dots. Journal of Physical Chemistry C, 2010, 114, 22526-22534.	1.5	69
52	Concentration fluctuations in polymer blend thermodynamics. Journal of Chemical Physics, 1988, 89, 1704-1708.	1.2	68
53	Simulation of Charged Systems in Heterogeneous Dielectric Media via a True Energy Functional. Physical Review Letters, 2012, 109, 223905.	2.9	68
54	Buckled Membranes in Mixed-Valence Ionic Amphiphile Vesicles. Journal of the American Chemical Society, 2009, 131, 12030-12031.	6.6	66

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55	Multiple-binding-site mechanism explains concentration-dependent unbinding rates of DNA-binding proteins. Nucleic Acids Research, 2014, 42, 3783-3791.	6.5	66
56	Water follows polar and nonpolar protein surface domains. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19274-19281.	3.3	66
57	Swelling and collapse of polyelectrolyte gels in equilibrium with monovalent and divalent electrolyte solutions. Journal of Chemical Physics, 2009, 131, 194907.	1.2	64
58	Single-chain heteropolymers transport protons selectively and rapidly. Nature, 2020, 577, 216-220.	13.7	64
59	Encapsulated Drop Breakup in Shear Flow. Physical Review Letters, 2004, 93, 204501.	2.9	63
60	Polynucleotide Adsorption to Negatively Charged Surfaces in Divalent Salt Solutions. Biophysical Journal, 2006, 90, 1164-1174.	0.2	63
61	Tunable soft structure in charged fluids confined by dielectric interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5301-5308.	3.3	63
62	How Hydrogen Bonds Affect the Growth of Reverse Micelles around Coordinating Metal Ions. Journal of Physical Chemistry Letters, 2014, 5, 1440-1444.	2.1	63
63	Exploring the zone of anisotropy and broken symmetries in DNA-mediated nanoparticle crystallization. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10485-10490.	3.3	61
64	Theory of melt polyelectrolyte blends and block copolymers: Phase behavior, surface tension, and microphase periodicity. Journal of Chemical Physics, 2015, 142, 034902.	1.2	59
65	Variational Approach to Necklace Formation in Polyelectrolytes. Macromolecules, 1998, 31, 5502-5506.	2.2	57
66	Photoactive Blend Morphology Engineering through Systematically Tuning Aggregation in Allâ€Polymer Solar Cells. Advanced Energy Materials, 2018, 8, 1702173.	10.2	57
67	Self-assembly of nanocrystals into strongly electronically coupled all-inorganic supercrystals. Science, 2022, 375, 1422-1426.	6.0	57
68	Molecular Crystallization Controlled by pH Regulates Mesoscopic Membrane Morphology. ACS Nano, 2012, 6, 10901-10909.	7.3	56
69	Charge induced pattern formation on surfaces: Segregation in cylindrical micelles of cationic-anionic peptide-amphiphiles. Journal of Chemical Physics, 2005, 122, 054905.	1.2	55
70	Dynamics of gel electrophoresis. Macromolecules, 1989, 22, 1351-1355.	2.2	54
71	Polyelectrolytes in the Presence of Multivalent Ions: Gelation Versus Segregation. Physical Review Letters, 2003, 90, 125504.	2.9	54
72	Strong attractions and repulsions mediated by monovalent salts. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11838-11843.	3.3	54

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73	Electrophoresis in strong fields. Physical Review A, 1986, 33, 2047-2055.	1.0	53
74	Cylindrical versus spherical micelle formation in block copolymer/homopolymer blends. Macromolecules, 1988, 21, 2543-2547.	2.2	53
75	Transition to lamellar-catenoid structure in block-copolymer melts. Macromolecules, 1992, 25, 944-948.	2.2	53
76	Modulating Nanoparticle Superlattice Structure Using Proteins with Tunable Bond Distributions. Journal of the American Chemical Society, 2017, 139, 1754-1757.	6.6	53
77	Water Dynamics from the Surface to the Interior of a Supramolecular Nanostructure. Journal of the American Chemical Society, 2017, 139, 8915-8921.	6.6	53
78	Molecular theory of weak polyelectrolyte thin films. Soft Matter, 2012, 8, 1344-1354.	1.2	51
79	Polyelectrolytes in Multivalent Salt Solutions:Â Monomolecular versus Multimolecular Aggregation. Macromolecules, 2002, 35, 976-986.	2.2	50
80	Ionic structure in liquids confined by dielectric interfaces. Journal of Chemical Physics, 2015, 143, 194508.	1.2	50
81	Phase transitions in random copolymers. Journal of Chemical Physics, 1993, 98, 7385-7397.	1.2	49
82	Dynamic self-assembly of photo-switchable nanoparticles. Soft Matter, 2012, 8, 227-234.	1.2	48
83	Elastic Strain Energy Effects in Faceted Decahedral Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 1485-1494.	1.5	48
84	Interfacial Behavior in Polyelectrolyte Blends: Hybrid Liquid-State Integral Equation and Self-Consistent Field Theory Study. Physical Review Letters, 2013, 111, 168303.	2.9	48
85	Polyelectrolyte Blends and Nontrivial Behavior in Effective Floryâ€“Huggins Parameters. ACS Macro Letters, 2014, 3, 698-702.	2.3	48
86	Phase Diagrams of Salt-Free Polyelectrolyte Semidilute Solutions. Macromolecules, 2000, 33, 7649-7654.	2.2	47
87	Ion Correlation-Induced Phase Separation in Polyelectrolyte Blends. ACS Macro Letters, 2013, 2, 1042-1046.	2.3	47
88	Local Ionic Environment around Polyvalent Nucleic Acid-Functionalized Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 16368-16373.	1.5	44
89	Molecular Origins of Mesoscale Ordering in a Metalloamphiphile Phase. ACS Central Science, 2015, 1, 493-503.	5.3	44
90	DNA-Segment-Facilitated Dissociation of Fis and NHP6A from DNA Detected via Single-Molecule Mechanical Response. Journal of Molecular Biology, 2015, 427, 3123-3136.	2.0	44

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91	Ion Transport Mechanisms in Liquidâ€“Liquid Interface. Langmuir, 2017, 33, 6135-6142.	1.6	44
92	Self-Assembly of Charge-Containing Copolymers at the Liquidâ€“Liquid Interface. ACS Central Science, 2019, 5, 688-699.	5.3	43
93	Aggregation of Heterogeneously Charged Colloids. ACS Nano, 2016, 10, 5909-5915.	7.3	42
94	Charged Particles on Surfaces: Coexistence of Dilute Phases and Periodic Structures at Interfaces. Physical Review Letters, 2007, 98, 237802.	2.9	40
95	Crystalline polymorphism induced by charge regulation in ionic membranes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16309-16314.	3.3	40
96	Ionic Conductivity in Polyelectrolyte Hydrogels. Macromolecules, 2016, 49, 9239-9246.	2.2	40
97	Potential of mean force between identical charged nanoparticles immersed in a size-asymmetric monovalent electrolyte. Journal of Chemical Physics, 2011, 135, 164705.	1.2	39
98	A variational formulation of electrostatics in a medium with spatially varying dielectric permittivity. Journal of Chemical Physics, 2013, 138, 054119.	1.2	39
99	Entropy-Driven Crystallization Behavior in DNA-Mediated Nanoparticle Assembly. Nano Letters, 2015, 15, 5545-5551.	4.5	39
100	A Graphics Processing Unit Implementation of Coulomb Interaction in Molecular Dynamics. Journal of Chemical Theory and Computation, 2010, 6, 3058-3065.	2.3	38
101	Buckling of multicomponent elastic shells with line tension. Soft Matter, 2012, 8, 636-644.	1.2	38
102	Thermodynamic Analysis of Multiply Twinned Particles: Surface Stress Effects. Journal of Physical Chemistry Letters, 2013, 4, 3089-3094.	2.1	37
103	The Lanthanide Contraction beyond Coordination Chemistry. Chemistry - A European Journal, 2016, 22, 6899-6904.	1.7	37
104	Aggregation of Heteropolyanions in Aqueous Solutions Exhibiting Short-Range Attractions and Long-Range Repulsions. Journal of Physical Chemistry C, 2016, 120, 1317-1327.	1.5	37
105	Electrostatic Control of Polymorphism in Charged Amphiphile Assemblies. Journal of Physical Chemistry B, 2017, 121, 1623-1628.	1.2	37
106	Non-equilibrium anisotropic colloidal single crystal growth with DNA. Nature Communications, 2018, 9, 4558.	5.8	37
107	Random phase approximation for complex charged systems: Application to copolyelectrolytes (polyampholytes). Journal of Chemical Physics, 1994, 100, 507-517.	1.2	36
108	Entropic effects in the electric double layer of model colloids with size-asymmetric monovalent ions. Journal of Chemical Physics, 2011, 135, 054701.	1.2	36

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109	Effective charges and virial pressure of concentrated macroion solutions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9242-9246.	3.3	36
110	Altering DNA-Programmable Colloidal Crystallization Paths by Modulating Particle Repulsion. Nano Letters, 2017, 17, 5126-5132.	4.5	36
111	Ionic Correlations in Random Ionomers. ACS Nano, 2018, 12, 2311-2318.	7.3	36
112	High aspect ratio nanotubes assembled from macrocyclic iminium salts. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8883-8888.	3.3	36
113	Large Counterions Boost the Solubility and Renormalized Charge of Suspended Nanoparticles. ACS Nano, 2013, 7, 9714-9723.	7.3	35
114	Kirigami nanofluidics. Materials Chemistry Frontiers, 2018, 2, 475-482.	3.2	35
115	Efficient encapsulation of proteins with random copolymers. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6578-6583.	3.3	34
116	Surface-induced layer formation in polyelectrolytes. Journal of Chemical Physics, 1999, 110, 11517-11522.	1.2	33
117	Thermoreversible crosslinking of polyelectrolyte chains. Journal of Chemical Physics, 2004, 120, 11930-11940.	1.2	33
118	Chromophore amphiphileâ€“polyelectrolyte hybrid hydrogels for photocatalytic hydrogen production. Journal of Materials Chemistry A, 2020, 8, 158-168.	5.2	33
119	Random copolymers in concentrated solutions. Europhysics Letters, 1996, 35, 487-492.	0.7	32
120	Adsorption of rod-like polyelectrolytes onto weakly charged surfaces. Journal of Chemical Physics, 2003, 119, 12635-12644.	1.2	32
121	Direct Observation of Cations and Polynucleotides Explains Polyion Adsorption to Like-Charged Surfaces. Journal of Physical Chemistry B, 2005, 109, 23001-23007.	1.2	32
122	Electrostatic-Driven Ridge Formation on Nanoparticles Coated with Charged End-Group Ligands. Journal of Physical Chemistry C, 2011, 115, 6484-6490.	1.5	32
123	A practical integral equation for the structure and thermodynamics of hard sphere Coulomb fluids. Journal of Chemical Physics, 2011, 135, 064106.	1.2	32
124	Nematic liquid crystals on spherical surfaces: Control of defect configurations by temperature, density, and rod shape. Physical Review E, 2012, 86, 011709.	0.8	32
125	Driving Force for Water Permeation Across Lipid Membranes. Journal of Physical Chemistry Letters, 2013, 4, 3233-3237.	2.1	32
126	Electrostatic control of self-organization: the role of charge gradients in heterogeneous media. Soft Matter, 2008, 4, 1735.	1.2	31

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127	pH-Controlled Nanoaggregation in Amphiphilic Polymer Co-networks. ACS Nano, 2013, 7, 2693-2704.	7.3	31
128	Polarization Effects of Dielectric Nanoparticles in Aqueous Charge-Asymmetric Electrolytes. Journal of Physical Chemistry B, 2014, 118, 8854-8862.	1.2	31
129	Electrolyte-Mediated Assembly of Charged Nanoparticles. ACS Central Science, 2016, 2, 219-224.	5.3	31
130	Adsorption of a minority component in polymer blend interfaces. Physical Review E, 1996, 53, 812-819.	0.8	30
131	Domain Growth in Ternary Fluids: A Level Set Approach. Physical Review Letters, 2000, 84, 91-94.	2.9	30
132	Spontaneous Chirality via Long-Range Electrostatic Forces. Physical Review Letters, 2007, 99, 030602.	2.9	30
133	Understanding swollenâ€“collapsed and re-entrant transitions in polyelectrolyte nanogels by a modified Donnan theory. Soft Matter, 2012, 8, 9519.	1.2	30
134	Electrostatics-driven shape transitions in soft shells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12673-12678.	3.3	30
135	Non-monotonic swelling of surface grafted hydrogels induced by pH and/or salt concentration. Journal of Chemical Physics, 2014, 141, 124909.	1.2	29
136	Nonreciprocal interactions induced by water in confinement. Physical Review Research, 2020, 2, .	1.3	29
137	Non-equilibrium ionic assemblies of oppositely charged nanoparticles. Soft Matter, 2013, 9, 5042.	1.2	28
138	Topological Defects in Flat Geometry: The Role of Density Inhomogeneity. Physical Review Letters, 2013, 111, 115503.	2.9	28
139	Inversion of the Electric Field at the Electrified Liquidâ€“Liquid Interface. Journal of Chemical Theory and Computation, 2013, 9, 1-7.	2.3	28
140	Long-Range Ordering of Highly Charged Self-Assembled Nanofilaments. Journal of the American Chemical Society, 2014, 136, 14377-14380.	6.6	28
141	Competing interactions in two dimensional Coulomb systems: Surface charge heterogeneities in coassembled cationic-anionic incompatible mixtures. Journal of Chemical Physics, 2006, 124, 144702.	1.2	27
142	Nonlinear Effects in the Nanophase Segregation of Polyelectrolyte Gels. Macromolecules, 2009, 42, 6284-6289.	2.2	27
143	Defining the Structure of a Proteinâ€“Spherical Nucleic Acid Conjugate and Its Counterionic Cloud. ACS Central Science, 2018, 4, 378-386.	5.3	27
144	Thermodynamics of Associative Polymer Blends. Macromolecules, 2018, 51, 5918-5932.	2.2	27

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145	Equilibrium domain spacing in weakly segregated block copolymers. Macromolecules, 1991, 24, 3975-3976.	2.2	26
146	Gelation in strongly charged polyelectrolytes. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 766-776.	2.4	26
147	Nanoparticles in aqueous media: crystallization and solvation charge asymmetry. Soft Matter, 2010, 6, 331-341.	1.2	26
148	Actuation of magnetoelastic membranes in precessing magnetic fields. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2500-2505.	3.3	26
149	Dynamics of DNA during pulsed-field gel electrophoresis. Physical Review Letters, 1990, 64, 2324-2327.	2.9	25
150	Interfacial adsorption in ternary alloys. Acta Materialia, 1999, 47, 4449-4459.	3.8	25
151	An exact method to obtain effective electrostatic interactions from computer simulations: The case of effective charge amplification. Journal of Chemical Physics, 2013, 139, 064709.	1.2	25
152	Counterion Distribution Surrounding Spherical Nucleic Acidâ€“Au Nanoparticle Conjugates Probed by Small-Angle X-ray Scattering. ACS Nano, 2013, 7, 11301-11309.	7.3	25
153	Enhancing and reversing the electric field at the oilâ€“water interface with size-asymmetric monovalent ions. Soft Matter, 2013, 9, 6046.	1.2	25
154	Opportunities in theoretical and computational polymeric materials and soft matter. Soft Matter, 2015, 11, 2326-2332.	1.2	25
155	Energy Conversion in Polyelectrolyte Hydrogels. ACS Macro Letters, 2015, 4, 857-861.	2.3	25
156	DNAâ€•and Fieldâ€Mediated Assembly of Magnetic Nanoparticles into Highâ€Aspect Ratio Crystals. Advanced Materials, 2020, 32, e1906626.	11.1	25
157	Role of Chain Flexibility in Asymmetric Polyelectrolyte Complexation in Salt Solutions. Macromolecules, 2020, 53, 1258-1269.	2.2	25
158	Thermodynamics of reversibly associating ideal chains. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 796-804.	2.4	24
159	Thermodynamics of ternary electrolytes: Enhanced adsorption of macroions as minority component to liquid interfaces. Journal of Chemical Physics, 2009, 130, 044502.	1.2	24
160	Electrostatic control of nanoscale phase behavior of polyelectrolyte networks. Current Opinion in Solid State and Materials Science, 2011, 15, 271-276.	5.6	24
161	Growth Dynamics for DNA-Guided Nanoparticle Crystallization. ACS Nano, 2013, 7, 10948-10959.	7.3	24
162	Excluded volume and ion-ion correlation effects on the ionic atmosphere around B-DNA: Theory, simulations, and experiments. Journal of Chemical Physics, 2014, 141, 225103.	1.2	24

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163	Emergent perversions in the buckling of heterogeneous elastic strips. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7100-7105.	3.3	24
164	The Importance of Salt-Enhanced Electrostatic Repulsion in Colloidal Crystal Engineering with DNA. ACS Central Science, 2019, 5, 186-191.	5.3	24
165	Control of Ionic Mobility via Charge Size Asymmetry in Random Ionomers. Nano Letters, 2020, 20, 43-49.	4.5	24
166	Flexible Polymers Also Counterattract. Physics Today, 2001, 54, 71-72.	0.3	23
167	Association in electrolyte solutions: Rodlike polyelectrolytes in multivalent salts. Journal of Chemical Physics, 2003, 118, 4684-4691.	1.2	23
168	Phase equilibrium and charge fractionation in polyelectrolyte solutions. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 3003-3009.	2.4	22
169	Self-Organized Polyelectrolyte End-Grafted Layers Under Nanoconfinement. ACS Nano, 2014, 8, 9998-10008.	7.3	22
170	Self-Assembling Tripodal Small-Molecule Donors for Bulk Heterojunction Solar Cells. Journal of Physical Chemistry C, 2016, 120, 3602-3611.	1.5	22
171	Anomalous Phase Behavior of Ionic Polymer Blends and Ionic Copolymers. Macromolecules, 2017, 50, 5194-5207.	2.2	22
172	Molecular multivalent electrolytes: microstructure and screening lengths. European Physical Journal E, 2005, 16, 167-178.	0.7	21
173	Control of Nanophases in Polyelectrolyte Gels by Salt Addition. Macromolecules, 2010, 43, 9160-9167.	2.2	21
174	Contractile actuation and dynamical gel assembly of paramagnetic filaments in fast precessing fields. Physical Review E, 2017, 95, 052606.	0.8	21
175	Impact of charge switching stimuli on supramolecular perylene monoimide assemblies. Chemical Science, 2019, 10, 5779-5786.	3.7	21
176	Incorporating surface polarization effects into large-scale coarse-grained Molecular Dynamics simulation. Computer Physics Communications, 2019, 241, 80-91.	3.0	21
177	Homopolymer self-assembly of poly(propylene sulfone) hydrogels via dynamic noncovalent sulfoneâ€“sulfone bonding. Nature Communications, 2020, 11, 4896.	5.8	21
178	Computational and Experimental Approaches to Controlling Bacterial Microcompartment Assembly. ACS Central Science, 2021, 7, 658-670.	5.3	21
179	Electrostatic attraction between cationic-anionic assemblies with surface compositional heterogeneities. Journal of Chemical Physics, 2006, 124, 214705.	1.2	20
180	Sharp Melting of Polymerâ”DNA Hybrids:Â An Associative Phase Separation Approach. Journal of Physical Chemistry B, 2007, 111, 1610-1619.	1.2	20

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181	Cluster Formation by Charged Nanoparticles on a Surface in Aqueous Solution. Journal of Physical Chemistry C, 2010, 114, 3754-3762.	1.5	20
182	Topological defects in the buckling of elastic membranes. Soft Matter, 2013, 9, 60-68.	1.2	20
183	Theoretical Analysis of Multiple Phase Coexistence in Polyelectrolyte Blends. Macromolecules, 2015, 48, 6008-6015.	2.2	20
184	Controlling swelling/deswelling of stimuli-responsive hydrogel nanofilms in electric fields. Soft Matter, 2016, 12, 8359-8366.	1.2	20
185	Hoobas: A highly object-oriented builder for molecular dynamics. Computational Materials Science, 2019, 167, 25-33.	1.4	20
186	Pattern formation on the surface of cationic-anionic cylindrical aggregates. Physical Review E, 2005, 72, 041920.	0.8	19
187	Coulomb energy of uniformly charged spheroidal shell systems. Physical Review E, 2015, 91, 032305.	0.8	19
188	Paramagnetic filaments in a fast precessing field: Planar versus helical conformations. Physical Review Materials, 2017, 1, .	0.9	19
189	Polar state reversal in active fluids. Nature Physics, 2022, 18, 154-159.	6.5	19
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