

Igal Szleifer

List of Publications by Year in descending order

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238
papers

18,436
citations

14614

66
h-index

14156

128
g-index

251
all docs

251
docs citations

251
times ranked

19967
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging applications of stimuli-responsive polymer materials. <i>Nature Materials</i> , 2010, 9, 101-113.	13.3	5,007
2	Prevention of Protein Adsorption by Tethered Poly(ethylene oxide) Layers: Experiments and Single-Chain Mean-Field Analysis. <i>Langmuir</i> , 1998, 14, 176-186.	1.6	407
3	Protein Adsorption on Surfaces with Grafted Polymers. <i>Biophysical Journal</i> , 1997, 72, 595-612.	0.2	396
4	Molecular theory of curvature elasticity in surfactant films. <i>Journal of Chemical Physics</i> , 1990, 92, 6800-6817.	1.2	337
5	Polymers and carbon nanotubes' dimensionality, interactions and nanotechnology. <i>Polymer</i> , 2005, 46, 7803-7818.	1.8	276
6	Behavior of Surface-Anchored Poly(acrylic acid) Brushes with Grafting Density Gradients on Solid Substrates: 1. Experiment. <i>Macromolecules</i> , 2007, 40, 8756-8764.	2.2	252
7	Kinetic and thermodynamic control of protein adsorption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 9037-9041.	3.3	241
8	How and Why Nanoparticle's Curvature Regulates the Apparent κ_a of the Coating Ligands. <i>Journal of the American Chemical Society</i> , 2011, 133, 2192-2197.	6.6	208
9	Transport mechanisms in nanopores and nanochannels: can we mimic nature?. <i>Materials Today</i> , 2015, 18, 131-142.	8.3	206
10	Selective Dispersion of Single-Walled Carbon Nanotubes in the Presence of Polymers: The Role of Molecular and Colloidal Length Scales. <i>Journal of the American Chemical Society</i> , 2004, 126, 14850-14857.	6.6	204
11	Chain organization and thermodynamics in micelles and bilayers. I. Theory. <i>Journal of Chemical Physics</i> , 1985, 83, 3597-3611.	1.2	194
12	Curvature Elasticity of Pure and Mixed Surfactant Films. <i>Physical Review Letters</i> , 1988, 60, 1966-1969.	2.9	190
13	Prompting Physicians to Address a Daily Checklist and Process of Care and Clinical Outcomes. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 184, 680-686.	2.5	189
14	Biocompatible Nanoscale Dispersion of Single-Walled Carbon Nanotubes Minimizes in vivo Pulmonary Toxicity. <i>Nano Letters</i> , 2010, 10, 1664-1670.	4.5	183
15	Polymers and proteins: interactions at interfaces. <i>Current Opinion in Solid State and Materials Science</i> , 1997, 2, 337-344.	5.6	176
16	Weak polyelectrolytes tethered to surfaces: Effect of geometry, acid-base equilibrium and electrical permittivity. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 2638-2662.	2.4	171
17	Responsive Polymers End-Tethered in Solid-State Nanochannels: When Nanoconfinement Really Matters. <i>Journal of the American Chemical Society</i> , 2010, 132, 12404-12411.	6.6	171
18	Determination of the chemical potentials of polymeric systems from Monte Carlo simulations. <i>Physical Review Letters</i> , 1991, 66, 2935-2938.	2.9	162

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19	Physical Adsorption of Block Copolymers to SWNT and MWNT: A Nonwrapping Mechanism. <i>Macromolecules</i> , 2007, 40, 3676-3685.	2.2	155
20	Kinetics and Thermodynamics of Protein Adsorption: A Generalized Molecular Theoretical Approach. <i>Biophysical Journal</i> , 2001, 80, 2568-2589.	0.2	150
21	Behavior of Surface-Anchored Poly(acrylic acid) Brushes with Grafting Density Gradients on Solid Substrates: 2. Theory. <i>Macromolecules</i> , 2007, 40, 8765-8773.	2.2	149
22	Surface-Grafted Polysarcosine as a Peptoid Antifouling Polymer Brush. <i>Langmuir</i> , 2012, 28, 16099-16107.	1.6	146
23	Kinetics of Protein Adsorption and Desorption on Surfaces with Grafted Polymers. <i>Biophysical Journal</i> , 2005, 89, 1516-1533.	0.2	144
24	Aggregation Behavior of a Lattice Model for Amphiphiles. <i>Langmuir</i> , 1997, 13, 5022-5031.	1.6	139
25	Effect of charge, hydrophobicity, and sequence of nucleoporins on the translocation of model particles through the nuclear pore complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3363-3368.	3.3	139
26	Electrostatic Unfolding and Interactions of Albumin Driven by pH Changes: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2014, 118, 921-930.	1.2	138
27	Geometric curvature controls the chemical patchiness and self-assembly of nanoparticles. <i>Nature Nanotechnology</i> , 2013, 8, 676-681.	15.6	136
28	Tethered Polymer Layers. <i>Advances in Chemical Physics</i> , 2007, , 165-260.	0.3	133
29	Molecular Theory of Weak Polyelectrolyte Gels: The Role of pH and Salt Concentration. <i>Macromolecules</i> , 2011, 44, 147-158.	2.2	125
30	Tethered polymer layers: phase transitions and reduction of protein adsorption. <i>Macromolecular Rapid Communications</i> , 2000, 21, 423-448.	2.0	119
31	Lysozyme Adsorption on Polyethylene Surfaces: Why Are Long Simulations Needed?. <i>Langmuir</i> , 2011, 27, 12074-12081.	1.6	118
32	On lyotropic behavior of molecular bottle-brushes: A Monte Carlo computer simulation study. <i>Journal of Chemical Physics</i> , 1997, 107, 3267-3276.	1.2	117
33	Monte Carlo calculation of phase equilibria for a bead-spring polymeric model. <i>Macromolecules</i> , 1994, 27, 400-406.	2.2	114
34	Antifouling Glycocalyx-Mimetic Peptoids. <i>Journal of the American Chemical Society</i> , 2013, 135, 13015-13022.	6.6	113
35	Statistical thermodynamic theory of grafted polymeric layers. <i>Journal of Chemical Physics</i> , 1993, 98, 5006-5018.	1.2	110
36	Self-organization of grafted polyelectrolyte layers via the coupling of chemical equilibrium and physical interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5300-5305.	3.3	108

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37	Membrane curvature enables N-Ras lipid anchor sorting to liquid-ordered membrane phases. <i>Nature Chemical Biology</i> , 2015, 11, 192-194.	3.9	108
38	Monolayers of diblock copolymer at the air-water interface: the attractive monomer-surface case. <i>European Physical Journal B</i> , 1998, 3, 365-375.	0.6	104
39	Covalent-supramolecular hybrid polymers as muscle-inspired anisotropic actuators. <i>Nature Communications</i> , 2018, 9, 2395.	5.8	102
40	Stimuli-responsive polymers grafted to nanopores and other nano-curved surfaces: structure, chemical equilibrium and transport. <i>Soft Matter</i> , 2012, 8, 7292.	1.2	99
41	Molecular dynamics simulations of ice growth from supercooled water. <i>Molecular Physics</i> , 2005, 103, 2957-2967.	0.8	98
42	Molecular Dynamics Simulation of Lysozyme Adsorption/Desorption on Hydrophobic Surfaces. <i>Journal of Physical Chemistry B</i> , 2012, 116, 10189-10194.	1.2	97
43	Phase Behavior and Charge Regulation of Weak Polyelectrolyte Grafted Layers. <i>Physical Review Letters</i> , 2007, 98, 018302.	2.9	96
44	Protein adsorption on tethered polymer layers: effect of polymer chain architecture and composition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 244, 370-388.	1.2	92
45	Chain packing statistics and thermodynamics of amphiphile monolayers. <i>The Journal of Physical Chemistry</i> , 1990, 94, 5081-5089.	2.9	91
46	Effect of Side Chain Rigidity on the Elasticity of Comb Copolymer Cylindrical Brushes: A Monte Carlo Simulation Study. <i>Macromolecules</i> , 1999, 32, 4439-4443.	2.2	91
47	Chain organization and thermodynamics in micelles and bilayers. II. Model calculations. <i>Journal of Chemical Physics</i> , 1985, 83, 3612-3620.	1.2	90
48	Morphology Control of Hairy Nanopores. <i>ACS Nano</i> , 2011, 5, 4737-4747.	7.3	89
49	Ion Transport and Molecular Organization Are Coupled in Polyelectrolyte-Modified Nanopores. <i>Journal of the American Chemical Society</i> , 2011, 133, 17753-17763.	6.6	88
50	Surface tension, line tension, and wetting. <i>Molecular Physics</i> , 1992, 75, 925-943.	0.8	86
51	Salt-Induced Depression of Lower Critical Solution Temperature in a Surface-Grafted Neutral Thermoresponsive Polymer. <i>Macromolecular Rapid Communications</i> , 2006, 27, 697-701.	2.0	86
52	On the Structure and Pressure of Tethered Polymer Layers in Good Solvent. <i>Macromolecules</i> , 1995, 28, 3197-3204.	2.2	82
53	Pressure isotherms, phase transition, instability, and structure of tethered polymers in good, $\hat{\tau}$, and poor solvents. <i>Journal of Chemical Physics</i> , 1994, 100, 3210-3223.	1.2	81
54	Transport Rectification in Nanopores with Outer Membranes Modified with Surface Charges and Polyelectrolytes. <i>ACS Nano</i> , 2013, 7, 9085-9097.	7.3	81

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55	Size and Structure of Spontaneously Forming Liposomes in Lipid/PEG-Lipid Mixtures. <i>Biophysical Journal</i> , 2002, 83, 2419-2439.	0.2	80
56	Chain statistics in micelles and bilayers: Effects of surface roughness and internal energy. <i>Journal of Chemical Physics</i> , 1986, 85, 5345-5358.	1.2	79
57	The Role of Solution Conditions in the Bacteriophage PP7 Capsid Charge Regulation. <i>Biophysical Journal</i> , 2014, 107, 1970-1979.	0.2	79
58	Molecular Design of Antifouling Polymer Brushes Using Sequence-Specific Peptoids. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400225.	1.9	77
59	Extended conformations of isolated molecular bottle-brushes: Influence of side-chain topology. <i>Macromolecular Theory and Simulations</i> , 1998, 7, 211-216.	0.6	76
60	Effect of Molecular Structure on the Adsorption of Protein on Surfaces with Grafted Polymers. <i>Langmuir</i> , 2002, 18, 5497-5510.	1.6	76
61	Phase Diagram of a Ternary Mixture of Cholesterol and Saturated and Unsaturated Lipids Calculated from a Microscopic Model. <i>Physical Review Letters</i> , 2006, 96, 098101.	2.9	73
62	Spontaneous liposome formation induced by grafted poly(ethylene oxide) layers: Theoretical prediction and experimental verification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 1032-1037.	3.3	72
63	Macromolecular Crowding as a Regulator of Gene Transcription. <i>Biophysical Journal</i> , 2014, 106, 1801-1810.	0.2	72
64	Statistical thermodynamics of molecular organization in mixed micelles and bilayers. <i>Journal of Chemical Physics</i> , 1987, 86, 7094-7109.	1.2	71
65	Aggregation and Self-Assembly of Amphiphilic Block Copolymers in Aqueous Dispersions of Carbon Nanotubes. <i>Langmuir</i> , 2008, 24, 4625-4632.	1.6	71
66	Statistical thermodynamics of polymers near surfaces. <i>Current Opinion in Colloid and Interface Science</i> , 1996, 1, 416-423.	3.4	69
67	Prevention of protein adsorption by flexible and rigid chain molecules. <i>Colloids and Surfaces B: Biointerfaces</i> , 2000, 18, 169-182.	2.5	69
68	Structural and thermodynamic properties of end-grafted polymers on curved surfaces. <i>Journal of Chemical Physics</i> , 1995, 102, 8662-8669.	1.2	66
69	An Experimental-Theoretical Analysis of Protein Adsorption on Peptidomimetic Polymer Brushes. <i>Langmuir</i> , 2012, 28, 2288-2298.	1.6	66
70	Albumin Hydrogels Formed by Electrostatically Triggered Self-Assembly and Their Drug Delivery Capability. <i>Biomacromolecules</i> , 2014, 15, 3625-3633.	2.6	65
71	Molecular Theory of Chemically Modified Electrodes by Redox Polyelectrolytes under Equilibrium Conditions: Comparison with Experiment. <i>Journal of Physical Chemistry C</i> , 2008, 112, 458-471.	1.5	64
72	The Global Relationship between Chromatin Physical Topology, Fractal Structure, and Gene Expression. <i>Scientific Reports</i> , 2017, 7, 41061.	1.6	64

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73	Design of Multifunctional Nanogate in Response to Multiple External Stimuli Using Amphiphilic Diblock Copolymer. <i>Journal of the American Chemical Society</i> , 2017, 139, 6422-6430.	6.6	64
74	The effects of chemical fixation on the cellular nanostructure. <i>Experimental Cell Research</i> , 2017, 358, 253-259.	1.2	64
75	Structural Effects and Translocation of Doxorubicin in a DPPC/Chol Bilayer: The Role of Cholesterol. <i>Biophysical Journal</i> , 2011, 101, 378-385.	0.2	62
76	Dissipative self-assembly of particles interacting through time-oscillatory potentials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9751-9756.	3.3	62
77	Controlled release of proteins from polymer-modified surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 5769-5774.	3.3	61
78	Temperature dependence of ice critical nucleus size. <i>Journal of Chemical Physics</i> , 2011, 135, 034508.	1.2	60
79	Mesoporous Hybrid Thin Film Membranes with PMETAC@Silica Architectures: Controlling Ionic Gating through the Tuning of Polyelectrolyte Density. <i>Chemistry of Materials</i> , 2015, 27, 808-821.	3.2	60
80	Structure and tension of the interface between dilute polymer solutions. <i>Journal of Chemical Physics</i> , 1989, 90, 7524-7534.	1.2	59
81	Statistical thermodynamics of amphiphile chains in micelles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1984, 81, 4601-4605.	3.3	58
82	Optical Properties of Responsive Hybrid Au@Polymer Nanoparticles. <i>ACS Nano</i> , 2012, 6, 8397-8406.	7.3	58
83	Competitive adsorption in model charged protein mixtures: Equilibrium isotherms and kinetics behavior. <i>Journal of Chemical Physics</i> , 2003, 119, 1053-1065.	1.2	57
84	Ligand-Receptor Interactions in Tethered Polymer Layers. <i>Langmuir</i> , 2005, 21, 11342-11351.	1.6	56
85	Label-free imaging of the native, living cellular nanoarchitecture using partial-wave spectroscopic microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6372-E6381.	3.3	56
86	A Molecular Theory of Polymer Gels. <i>Macromolecules</i> , 2002, 35, 1373-1380.	2.2	55
87	Phase separation of saturated and mono-unsaturated lipids as determined from a microscopic model. <i>Journal of Chemical Physics</i> , 2005, 122, 044904.	1.2	55
88	Self-Assembly of Model Nonionic Amphiphilic Molecules. <i>Langmuir</i> , 1999, 15, 7901-7911.	1.6	54
89	Specific Salt Effects on Poly(ethylene oxide) Electrolyte Solutions. <i>Macromolecules</i> , 2011, 44, 1719-1727.	2.2	54
90	Monte Carlo simulation and molecular theory of tethered polyelectrolytes. <i>Journal of Chemical Physics</i> , 2007, 126, 244902.	1.2	53

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91	Crowding-Induced Structural Alterations of Random-Loop Chromosome Model. <i>Physical Review Letters</i> , 2011, 106, 168102.	2.9	52
92	Ionic Conductance of Polyelectrolyte-Modified Nanochannels: Nanoconfinement Effects on the Coupled Protonation Equilibria of Polyprotic Brushes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4789-4798.	1.5	52
93	Redox and Acid-Base Coupling in Ultrathin Polyelectrolyte Films. <i>Langmuir</i> , 2008, 24, 2869-2877.	1.6	51
94	Stability of Superparamagnetic Iron Oxide Nanoparticles at Different pH Values: Experimental and Theoretical Analysis. <i>Langmuir</i> , 2012, 28, 6246-6255.	1.6	51
95	Molecular theory of weak polyelectrolyte thin films. <i>Soft Matter</i> , 2012, 8, 1344-1354.	1.2	51
96	A new mean-field theory for dilute polymer solutions: Phase diagram, conformational behavior and interfacial properties. <i>Journal of Chemical Physics</i> , 1990, 92, 6940-6952.	1.2	50
97	Monte Carlo simulation of the collapse-coil transition in homopolymers. <i>Journal of Chemical Physics</i> , 1992, 97, 6802-6808.	1.2	50
98	The Role of Hydrogen Bonding in Tethered Polymer Layers. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16238-16248.	1.2	49
99	Experimental and theoretical investigation of chain length and surface coverage on fouling of surface grafted polypeptoids. <i>Biointerphases</i> , 2009, 4, FA22-FA32.	0.6	49
100	Interleaflet Coupling and Domain Registry in Phase-Separated Lipid Bilayers. <i>Biophysical Journal</i> , 2011, 100, 996-1004.	0.2	48
101	Utilizing polymers for shaping the interfacial behavior of carbon nanotubes. <i>Soft Matter</i> , 2006, 2, 24-28.	1.2	47
102	Enhanced binding of antibodies generated during chronic HIV infection to mucus component MUC16. <i>Mucosal Immunology</i> , 2016, 9, 1549-1558.	2.7	47
103	Macrogenomic engineering via modulation of the scaling of chromatin packing density. <i>Nature Biomedical Engineering</i> , 2017, 1, 902-913.	11.6	47
104	Monte Carlo simulations of chain molecules in confined environments. <i>Journal of Chemical Physics</i> , 1995, 102, 9069-9076.	1.2	46
105	Effects of block copolymer's architecture on its association with lipid membranes: Experiments and simulations. <i>Journal of Chemical Physics</i> , 2007, 127, 114904.	1.2	46
106	Phase Behavior of Grafted Polymers in Poor Solvents. <i>Europhysics Letters</i> , 1994, 28, 19-24.	0.7	44
107	Ions at the ice/vapor interface. <i>Chemical Physics Letters</i> , 2007, 436, 99-103.	1.2	44
108	Structure and Interactions of Aggrecans: Statistical Thermodynamic Approach. <i>Biophysical Journal</i> , 2008, 95, 4570-4583.	0.2	43

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109	Phase Behavior of Lipid Bilayers under Tension. <i>Biophysical Journal</i> , 2012, 102, 517-522.	0.2	43
110	How Does Confinement Change Ligand-Receptor Binding Equilibrium? Protein Binding in Nanopores and Nanochannels. <i>Journal of the American Chemical Society</i> , 2015, 137, 12539-12551.	6.6	43
111	Molecular dynamics simulation of ice growth from supercooled pure water and from salt solution. <i>Annals of Glaciology</i> , 2006, 44, 113-117.	2.8	40
112	Born energy, acid-base equilibrium, structure and interactions of end-grafted weak polyelectrolyte layers. <i>Journal of Chemical Physics</i> , 2014, 140, 024910.	1.2	39
113	Competitive calcium ion binding to end-tethered weak polyelectrolytes. <i>Soft Matter</i> , 2018, 14, 2365-2378.	1.2	38
114	Structure and dynamics of nanoconfined water and aqueous solutions. <i>European Physical Journal E</i> , 2021, 44, 136.	0.7	38
115	Streptavidin-Biotin Binding in the Presence of a Polymer Spacer. A Theoretical Description. <i>Langmuir</i> , 2009, 25, 12283-12292.	1.6	37
116	Nanoscale chromatin imaging and analysis platform bridges 4D chromatin organization with molecular function. <i>Science Advances</i> , 2021, 7, .	4.7	37
117	Disordered chromatin packing regulates phenotypic plasticity. <i>Science Advances</i> , 2020, 6, eaax6232.	4.7	34
118	Transport in nanopores and nanochannels: some fundamental challenges and nature-inspired solutions. <i>Materials Today Advances</i> , 2020, 5, 100047.	2.5	34
119	Phase transitions in thin films of symmetric binary polymer mixtures. <i>Molecular Physics</i> , 1994, 81, 867-872.	0.8	33
120	The influence of chromosome density variations on the increase in nuclear disorder strength in carcinogenesis. <i>Physical Biology</i> , 2011, 8, 015004.	0.8	33
121	What is the role of curvature on the properties of nanomaterials for biomedical applications?. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2016, 8, 334-354.	3.3	33
122	Second virial coefficients of chain molecules: A Monte Carlo study. <i>Molecular Physics</i> , 1994, 81, 851-866.	0.8	32
123	Physical and data structure of 3D genome. <i>Science Advances</i> , 2020, 6, eaay4055.	4.7	32
124	pH-Controlled Nanoaggregation in Amphiphilic Polymer Co-networks. <i>ACS Nano</i> , 2013, 7, 2693-2704.	7.3	31
125	Nonmonotonic Diffusion of Particles Among Larger Attractive Crowding Spheres. <i>Physical Review Letters</i> , 2014, 113, 138302.	2.9	31
126	Adsorption of model charged proteins on charged surfaces with grafted polymers. <i>Molecular Physics</i> , 2002, 100, 2993-3003.	0.8	30

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127	Depletion Effect on Polymers Induced by Small Depleting Spheres. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20864-20869.	1.5	30
128	Halide Affinity for the Water-Air Interface in Aqueous Solutions of Mixtures of Sodium Salts. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5895-5899.	1.1	30
129	Hypercapnia Alters Expression of Immune Response, Nucleosome Assembly and Lipid Metabolism Genes in Differentiated Human Bronchial Epithelial Cells. <i>Scientific Reports</i> , 2018, 8, 13508.	1.6	30
130	Control of Carbon Nanotube-Surface Interactions: The Role of Grafted Polymers. <i>Langmuir</i> , 2005, 21, 12072-12075.	1.6	29
131	New insight into the electrochemical desorption of alkanethiol SAMs on gold. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12355.	1.3	29
132	Non-monotonic swelling of surface grafted hydrogels induced by pH and/or salt concentration. <i>Journal of Chemical Physics</i> , 2014, 141, 124909.	1.2	29
133	Ligand-Receptor Interactions between Surfaces: The Role of Binary Polymer Spacers. <i>Langmuir</i> , 2008, 24, 10324-10333.	1.6	28
134	Relationship between dynamical entropy and energy dissipation far from thermodynamic equilibrium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16339-16343.	3.3	28
135	Differential Mechanisms of Tenofovir and Tenofovir Disoproxil Fumarate Cellular Transport and Implications for Topical Preexposure Prophylaxis. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 1667-1675.	1.4	28
136	Nanocompartmentalization of the Nuclear Pore Lumen. <i>Biophysical Journal</i> , 2020, 118, 219-231.	0.2	28
137	Behavior of ligand binding assays with crowded surfaces: Molecular model of antigen capture by antibody-conjugated nanoparticles. <i>PLoS ONE</i> , 2017, 12, e0185518.	1.1	28
138	Cluster Structure and Corraling Effect Driven by Interaction Mismatch in Two Dimensional Mixtures. <i>Physical Review Letters</i> , 2006, 96, 028701.	2.9	26
139	Stability and Liquid-Liquid Phase Separation in Mixed Saturated Lipid Bilayers. <i>Biophysical Journal</i> , 2009, 96, 3977-3986.	0.2	26
140	How protonation modulates the interaction between proteins and pH-responsive hydrogel films. <i>Current Opinion in Colloid and Interface Science</i> , 2019, 41, 27-39.	3.4	26
141	Lysozyme adsorption in pH-responsive hydrogel thin-films: the non-trivial role of acid-base equilibrium. <i>Soft Matter</i> , 2015, 11, 6669-6679.	1.2	25
142	The Greater Genomic Landscape: The Heterogeneous Evolution of Cancer. <i>Cancer Research</i> , 2016, 76, 5605-5609.	0.4	25
143	Calculating Partition Coefficients of Chain Anchors in Liquid-Ordered and Liquid-Disordered Phases. <i>Biophysical Journal</i> , 2010, 98, 1883-1892.	0.2	24
144	Adsorption of Superparamagnetic Iron Oxide Nanoparticles on Silica and Calcium Carbonate Sand. <i>Langmuir</i> , 2014, 30, 784-792.	1.6	24

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145	Enveloping of Charged Proteins by Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1491-1496.	1.2	23
146	Tunable Diacetylene Polymerized Shell Microbubbles as Ultrasound Contrast Agents. <i>Langmuir</i> , 2012, 28, 3766-3772.	1.6	23
147	Structural transitions and dipole moment of water clusters (H ₂ O) _{n=4} –100. <i>Journal of Chemical Physics</i> , 2010, 133, 024506.	1.2	22
148	The Rate of Energy Dissipation Determines Probabilities of Non-equilibrium Assemblies. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10304-10308.	7.2	22
149	Self-Organized Polyelectrolyte End-Grafted Layers Under Nanoconfinement. <i>ACS Nano</i> , 2014, 8, 9998-10008.	7.3	22
150	Adsorption and protonation of peptides and proteins in pH responsive gels. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 323001.	1.3	22
151	Mechanical properties of a collagen fibril under simulated degradation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 75, 549-557.	1.5	22
152	Statistical mechanics of solvent induced forces and vibrational frequency shifts. Low density expansions and Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 1993, 99, 9954-9961.	1.2	21
153	Stability and Phase Separation in Mixed Monopolar Lipid/Bolalipid Layers. <i>Biophysical Journal</i> , 2007, 93, 2609-2621.	0.2	21
154	Effects of the Salt Concentration on Charge Regulation in Tethered Polyacid Monolayers. <i>Langmuir</i> , 2011, 27, 4679-4689.	1.6	21
155	Structural and Dynamical Characteristics of Peptoid Oligomers with Achiral Aliphatic Side Chains Studied by Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10967-10975.	1.2	21
156	On the stability of nanoparticles coated with polyelectrolytes in high salinity solutions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 1689-1699.	2.4	21
157	Anomalies in supercooled NaCl aqueous solutions: A microscopic perspective. <i>Journal of Chemical Physics</i> , 2011, 134, 244510.	1.2	20
158	How to optimize binding of coated nanoparticles: coupling of physical interactions, molecular organization and chemical state. <i>Biomaterials Science</i> , 2013, 1, 814.	2.6	20
159	Controlling swelling/deswelling of stimuli-responsive hydrogel nanofilms in electric fields. <i>Soft Matter</i> , 2016, 12, 8359-8366.	1.2	20
160	Time Dependence of Lysozyme Adsorption on End-Grafted Polymer Layers of Variable Grafting Density and Length. <i>Langmuir</i> , 2012, 28, 2122-2130.	1.6	19
161	Effect of calcium ions on the interactions between surfaces end-grafted with weak polyelectrolytes. <i>Journal of Chemical Physics</i> , 2018, 149, 163309.	1.2	19
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