

# 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  | Chromatin as self-returning walks: From population to single cell and back. <i>Biophysical Reports</i> , 2022, 2, 100042.   | 0.7 | 1         |
| 2  | Proteins Adsorbing onto Surface-Modified Nanoparticles: Effect of Surface Curvature, pH, and the Interplay of Polymers and Proteins Acid-Base Equilibrium. <i>Polymers</i> , 2022, 14, 739. | 2.0 | 5         |
| 3  | Acid-Base Equilibrium and Dielectric Environment Regulate Charge in Supramolecular Nanofibers. <i>Frontiers in Chemistry</i> , 2022, 10, 852164.  | 1.8 | 6         |
| 4  | Analysis of three-dimensional chromatin packing domains by chromatin scanning transmission electron microscopy (ChromSTEM). <i>Scientific Reports</i> , 2022, 12, .                         | 1.6 | 18        |
| 5  | Nanopore gates <i>via</i> reversible crosslinking of polymer brushes: a theoretical study. <i>Soft Matter</i> , 2021, 17, 2791-2802.  | 1.2 | 9         |
| 6  | Nanoscale chromatin imaging and analysis platform bridges 4D chromatin organization with molecular function. <i>Science Advances</i> , 2021, 7, .   | 4.7 | 37        |
| 7  | Design of Multifunctional Nanopore Using Polyampholyte Brush with Composition Gradient. <i>ACS Nano</i> , 2021, 15, 17678-17688.  | 7.3 | 14        |
| 8  | Structure and dynamics of nanoconfined water and aqueous solutions. <i>European Physical Journal E</i> , 2021, 44, 136.   | 0.7 | 38        |
| 9  | Dynamic Crowding Regulates Transcription. <i>Biophysical Journal</i> , 2020, 118, 2117-2129.  | 0.2 | 15        |
| 10 | Disordered chromatin packing regulates phenotypic plasticity. <i>Science Advances</i> , 2020, 6, eaax6232.  | 4.7 | 34        |
| 11 | Physical and data structure of 3D genome. <i>Science Advances</i> , 2020, 6, eaay4055.  | 4.7 | 32        |
| 12 | Nanocompartmentalization of the Nuclear Pore Lumen. <i>Biophysical Journal</i> , 2020, 118, 219-231.  | 0.2 | 28        |
| 13 | Nanoscale Chromatin Imaging and Analysis (nano-ChIA) Platform Bridges 4-D Chromatin Organization with Molecular Function. <i>Microscopy and Microanalysis</i> , 2020, 26, 1046-1050.        | 0.2 | 3         |
| 14 | Charge regulation mechanism in end-tethered weak polyampholytes. <i>Soft Matter</i> , 2020, 16, 8832-8847.  | 1.2 | 13        |
| 15 | Theoretical Modeling of Chemical Equilibrium in Weak Polyelectrolyte Layers on Curved Nanosystems. <i>Polymers</i> , 2020, 12, 2282.  | 2.0 | 16        |
| 16 | Voltage-Triggered Structural Switching of Polyelectrolyte-Modified Nanochannels. <i>Macromolecules</i> , 2020, 53, 2616-2626.   | 2.2 | 16        |
| 17 | Transport in nanopores and nanochannels: some fundamental challenges and nature-inspired solutions. <i>Materials Today Advances</i> , 2020, 5, 100047.                                      | 2.5 | 34        |
| 18 | Modeling the nucleoporins that form the hairy pores. <i>Biochemical Society Transactions</i> , 2020, 48, 1447-1461.   | 1.6 | 11        |

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|----|---|-----|-----------|
| 19 | Effect of Polymer Surface Modification of Superparamagnetic Iron Oxide Nanoparticle Dispersions in High Salinity Environments. <i>Langmuir</i> , 2019, 35, 15864-15871.   | 1.6 | 3         |
| 20 | Preservation of cellular nano-architecture by the process of chemical fixation for nanopathology. <i>PLoS ONE</i> , 2019, 14, e0219006.   | 1.1 | 4         |
| 21 | 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        |
| 22 | Effect of collagenaseâ€“gelatinase ratio on the mechanical properties of a collagen fibril: a combined Monte Carloâ€“molecular dynamics study. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 1809-1819.          | 1.4 | 11        |
| 23 | Adsorption and insertion of polyarginine peptides into membrane pores: The trade-off between electrostatics, acid-base chemistry and pore formation energy. <i>Journal of Colloid and Interface Science</i> , 2019, 552, 701-711. | 5.0 | 12        |
| 24 | pH-Dependent structure of water-exposed surfaces of CdSe quantum dots. <i>Chemical Communications</i> , 2019, 55, 5435-5438.  | 2.2 | 11        |
| 25 | Multimodal interference-based imaging of nanoscale structure and macromolecular motion uncovers UV induced cellular paroxysm. <i>Nature Communications</i> , 2019, 10, 1652.  | 5.8 | 16        |
| 26 | Classification of RNA backbone conformations into rotamers using $^{13}\text{C}$ chemical shifts: exploring how far we can go. <i>PeerJ</i> , 2019, 7, e7904.   | 0.9 | 4         |
| 27 | Competitive calcium ion binding to end-tethered weak polyelectrolytes. <i>Soft Matter</i> , 2018, 14, 2365-2378.  | 1.2 | 38        |
| 28 | Modulation of Polyelectrolyte Adsorption on Nanoparticles and Nanochannels by Surface Curvature. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6669-6677.   | 1.5 | 9         |
| 29 | A thermoresponsive, citrate-based macromolecule for bone regenerative engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1743-1752.   | 2.1 | 14        |
| 30 | The interplay of nanointerface curvature and calcium binding in weak polyelectrolyte-coated nanoparticles. <i>Biomaterials Science</i> , 2018, 6, 1048-1058.  | 2.6 | 11        |
| 31 | In silico study of principal sex hormone effects on post-injury synovial inflammatory response. <i>PLoS ONE</i> , 2018, 13, e0209582.   | 1.1 | 1         |
| 32 | 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        |
| 33 | Routes for nanoparticle translocation through polymer-brush-modified nanopores. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 274006.  | 0.7 | 15        |
| 34 | 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        |
| 35 | Insights into the Role of Counterions on Polyelectrolyte-Modified Nanopore Accessibility. <i>Langmuir</i> , 2018, 34, 5943-5953.  | 1.6 | 11        |
| 36 | Covalent-supramolecular hybrid polymers as muscle-inspired anisotropic actuators. <i>Nature Communications</i> , 2018, 9, 2395.   | 5.8 | 102       |

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|----|--|------|-----------|
| 37 | Colocalization of cellular nanostructure using confocal fluorescence and partial wave spectroscopy. <i>Journal of Biophotonics</i> , 2017, 10, 377-384.  | 1.1  | 13        |
| 38 | The Global Relationship between Chromatin Physical Topology, Fractal Structure, and Gene Expression. <i>Scientific Reports</i> , 2017, 7, 41061.   | 1.6  | 64        |
| 39 | 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        |
| 40 | 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        |
| 41 | Structural behavior of competitive temperature and pH-responsive tethered polymer layers. <i>Soft Matter</i> , 2017, 13, 6322-6331.  | 1.2  | 6         |
| 42 | The effects of chemical fixation on the cellular nanostructure. <i>Experimental Cell Research</i> , 2017, 358, 253-259.  | 1.2  | 64        |
| 43 | Macrogenomic engineering via modulation of the scaling of chromatin packing density. <i>Nature Biomedical Engineering</i> , 2017, 1, 902-913.  | 11.6 | 47        |
| 44 | Theoretical Basis for Structure and Transport in Nanopores and Nanochannels. , 2017, , 27-60.  |      | 5         |
| 45 | Advanced Modeling of Ion Transport in Polymer and Polyelectrolyte-Modified Nanochannels and Nanopores. , 2017, , 131-203.  |      | 1         |
| 46 | 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        |
| 47 | Using electron microscopy to calculate optical properties of biological samples. <i>Biomedical Optics Express</i> , 2016, 7, 4749.   | 1.5  | 7         |
| 48 | 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        |
| 49 | The Effects of Chemical Fixation on the Cellular Nanostructure: A Correlative Study of Back-Scattered Interference Spectrometry Microscopy and TEM. <i>Microscopy and Microanalysis</i> , 2016, 22, 234-235.                     | 0.2  | 0         |
| 50 | The Greater Genomic Landscape: The Heterogeneous Evolution of Cancer. <i>Cancer Research</i> , 2016, 76, 5605-5609.  | 0.4  | 25        |
| 51 | 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        |
| 52 | Adsorption and protonation of peptides and proteins in pH responsive gels. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 323001.   | 1.3  | 22        |
| 53 | Cover Image, Volume 8, Issue 3. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2016, 8, i-i.   | 3.3  | 0         |
| 54 | Controlling swelling/deswelling of stimuli-responsive hydrogel nanofilms in electric fields. <i>Soft Matter</i> , 2016, 12, 8359-8366.   | 1.2  | 20        |

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|----|---|-----|-----------|
| 55 | Controlling the hydration rate of a hydrophilic matrix in the core of an intravaginal ring determines antiretroviral release. <i>Journal of Controlled Release</i> , 2016, 224, 176-183.                            | 4.8 | 15        |
| 56 | Anisotropic surface functionalization of Au nanorods driven by molecular architecture and curvature effects. <i>Faraday Discussions</i> , 2016, 191, 351-372.   | 1.6 | 10        |
| 57 | 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        |
| 58 | Enhanced binding of antibodies generated during chronic HIV infection to mucus component MUC16. <i>Mucosal Immunology</i> , 2016, 9, 1549-1558.   | 2.7 | 47        |
| 59 | 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        |
| 60 | Dynamics of dissipative self-assembly of particles interacting through oscillatory forces. <i>Faraday Discussions</i> , 2016, 186, 399-418.   | 1.6 | 15        |
| 61 | Molecular dynamics simulations of anchored viral peptide interactions. <i>Biointerphases</i> , 2015, 10, 029513.  | 0.6 | 1         |
| 62 | Molecular Dynamics Simulation of Ice Indentation by Model Atomic Force Microscopy Tips. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27118-27124.  | 1.5 | 9         |
| 63 | 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       |
| 64 | 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        |
| 65 | 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        |
| 66 | The role of steric interactions in dispersion of carbon nanotubes by poly(3-alkyl thiophenes) in organic solvents. <i>Journal of Colloid and Interface Science</i> , 2015, 452, 62-68.                              | 5.0 | 13        |
| 67 | Transport mechanisms in nanopores and nanochannels: can we mimic nature?. <i>Materials Today</i> , 2015, 18, 131-142.   | 8.3 | 206       |
| 68 | Molecular and Thermodynamic Factors Explain the Passivation Properties of Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td<br>31, 11491-11501.  | 1.6 | 15        |
| 69 | Salt Pumping by Voltage-Gated Nanochannels. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3534-3539.  | 2.1 | 13        |
| 70 | 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        |
| 71 | Molecular Design of Antifouling Polymer Brushes Using Sequence-Specific Peptoids. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400225.  | 1.9 | 77        |
| 72 | Equilibrium Adsorption of Hexahistidine on pH-Responsive Hydrogel Nanofilms. <i>Langmuir</i> , 2014, 30, 15335-15344.   | 1.6 | 14        |

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|----|--|------|-----------|
| 73 | 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        |
| 74 | Nematic Ordering of SWNT in Meso-Structured Thin Liquid Films of Polystyrenesulfonate. <i>Langmuir</i> , 2014, 30, 14963-14970.  | 1.6  | 3         |
| 75 | Nonmonotonic Diffusion of Particles Among Larger Attractive Crowding Spheres. <i>Physical Review Letters</i> , 2014, 113, 138302.  | 2.9  | 31        |
| 76 | Crowding-Induced Formation and Structural Alteration of Nuclear Compartments. <i>International Review of Cell and Molecular Biology</i> , 2014, 307, 73-108.   | 1.6  | 13        |
| 77 | 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        |
| 78 | Macromolecular Crowding as a Regulator of Gene Transcription. <i>Biophysical Journal</i> , 2014, 106, 1801-1810.   | 0.2  | 72        |
| 79 | The Role of Solution Conditions in the Bacteriophage PP7 Capsid Charge Regulation. <i>Biophysical Journal</i> , 2014, 107, 1970-1979.  | 0.2  | 79        |
| 80 | 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        |
| 81 | Self-Organized Polyelectrolyte End-Grafted Layers Under Nanoconfinement. <i>ACS Nano</i> , 2014, 8, 9998-10008.  | 7.3  | 22        |
| 82 | Adsorption of Superparamagnetic Iron Oxide Nanoparticles on Silica and Calcium Carbonate Sand. <i>Langmuir</i> , 2014, 30, 784-792.  | 1.6  | 24        |
| 83 | Albumin Hydrogels Formed by Electrostatically Triggered Self-Assembly and Their Drug Delivery Capability. <i>Biomacromolecules</i> , 2014, 15, 3625-3633.  | 2.6  | 65        |
| 84 | 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        |
| 85 | 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       |
| 86 | Membrane phospholipid redistribution in cancer microâ€particles and implications in the recruitment of cationic protein factors. <i>Journal of Extracellular Vesicles</i> , 2014, 3, 22653.            | 5.5  | 10        |
| 87 | Entropic templating. <i>Nature Materials</i> , 2013, 12, 693-694.  | 13.3 | 6         |
| 88 | Multiple-Time-Scale Motion in Molecularly Linked Nanoparticle Arrays. <i>ACS Nano</i> , 2013, 7, 108-116.  | 7.3  | 11        |
| 89 | Antifouling Glycocalyx-Mimetic Peptoids. <i>Journal of the American Chemical Society</i> , 2013, 135, 13015-13022.   | 6.6  | 113       |
| 90 | Geometric curvature controls the chemical patchiness and self-assembly of nanoparticles. <i>Nature Nanotechnology</i> , 2013, 8, 676-681.  | 15.6 | 136       |

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|-----|---|-----|-----------|
| 91  | Transport Rectification in Nanopores with Outer Membranes Modified with Surface Charges and Polyelectrolytes. ACS Nano, 2013, 7, 9085-9097.   | 7.3 | 81        |
| 92  | Adsorption of Acid and Polymer Coated Nanoparticles: A Statistical Thermodynamics Approach. Langmuir, 2013, 29, 14482-14493.  | 1.6 | 7         |
| 93  | Cooperative dynamic and diffusion behavior above and below the dynamical crossover of supercooled water. Journal of Chemical Physics, 2013, 139, 044509.  | 1.2 | 11        |
| 94  | The Rate of Energy Dissipation Determines Probabilities of Non-equilibrium Assemblies. Angewandte Chemie - International Edition, 2013, 52, 10304-10308.  | 7.2 | 22        |
| 95  | Mode specific elastic constants for the gel, liquid-ordered, and liquid-disordered phases of DPPC/DOPC/cholesterol model lipid bilayers. Faraday Discussions, 2013, 161, 177-191.   | 1.6 | 17        |
| 96  | How to optimize binding of coated nanoparticles: coupling of physical interactions, molecular organization and chemical state. Biomaterials Science, 2013, 1, 814.  | 2.6 | 20        |
| 97  | pH-Controlled Nanoaggregation in Amphiphilic Polymer Co-networks. ACS Nano, 2013, 7, 2693-2704.   | 7.3 | 31        |
| 98  | The water supercooled regime as described by four common water models. Journal of Chemical Physics, 2013, 139, 024506.  | 1.2 | 15        |
| 99  | Effect of charge, hydrophobicity, and sequence of nucleoporins on the translocation of model particles through the nuclear pore complex. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3363-3368. | 3.3 | 139       |
| 100 | The Rate of Energy Dissipation Determines Probabilities of Non-equilibrium Assemblies. Angewandte Chemie, 2013, 125, 10494-10498.   | 1.6 | 7         |
| 101 | Relationship between dynamical entropy and energy dissipation far from thermodynamic equilibrium. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16339-16343.                                      | 3.3 | 28        |
| 102 | Stability of Superparamagnetic Iron Oxide Nanoparticles at Different pH Values: Experimental and Theoretical Analysis. Langmuir, 2012, 28, 6246-6255.   | 1.6 | 51        |
| 103 | Molecular Dynamics Simulation of Lysozyme Adsorption/Desorption on Hydrophobic Surfaces. Journal of Physical Chemistry B, 2012, 116, 10189-10194.   | 1.2 | 97        |
| 104 | Confinement induced lateral segregation of polymer coated nanospheres. Soft Matter, 2012, 8, 1688-1700.   | 1.2 | 10        |
| 105 | Molecular theory of weak polyelectrolyte thin films. Soft Matter, 2012, 8, 1344-1354.   | 1.2 | 51        |
| 106 | Surface-Grafted Polysarcosine as a Peptoid Antifouling Polymer Brush. Langmuir, 2012, 28, 16099-16107.  | 1.6 | 146       |
| 107 | Tunable Diacetylene Polymerized Shell Microbubbles as Ultrasound Contrast Agents. Langmuir, 2012, 28, 3766-3772.  | 1.6 | 23        |
| 108 | Optical Properties of Responsive Hybrid Au@Polymer Nanoparticles. ACS Nano, 2012, 6, 8397-8406.   | 7.3 | 58        |

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|-----|---|-----|-----------|
| 109 | New insight into the electrochemical desorption of alkanethiol SAMs on gold. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12355.  | 1.3 | 29        |
| 110 | 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        |
| 111 | An Experimentalâ€Theoretical Analysis of Protein Adsorption on Peptidomimetic Polymer Brushes. <i>Langmuir</i> , 2012, 28, 2288-2298.   | 1.6 | 66        |
| 112 | Phase Behavior of Lipid Bilayers under Tension. <i>Biophysical Journal</i> , 2012, 102, 517-522.  | 0.2 | 43        |
| 113 | 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        |
| 114 | Interacting nanoparticles with functional surface groups. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 852-862.   | 2.4 | 16        |
| 115 | Theoretical studies of the phase behavior of DPPC bilayers in the presence of macroions. <i>Soft Matter</i> , 2011, 7, 4672.  | 1.2 | 9         |
| 116 | Molecular Theory of Weak Polyelectrolyte Gels: The Role of pH and Salt Concentration. <i>Macromolecules</i> , 2011, 44, 147-158.  | 2.2 | 125       |
| 117 | Effects of the Salt Concentration on Charge Regulation in Tethered Polyacid Monolayers. <i>Langmuir</i> , 2011, 27, 4679-4689.  | 1.6 | 21        |
| 118 | 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        |
| 119 | Halide Affinity for the Waterâ~Air Interface in Aqueous Solutions of Mixtures of Sodium Salts. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5895-5899.   | 1.1 | 30        |
| 120 | Molecular Modeling of Domain Formation upon Protein Adsorption in Lipid Bilayers. <i>Biophysical Journal</i> , 2011, 100, 333a.   | 0.2 | 1         |
| 121 | Interleaflet Coupling and Domain Registry in Phase-Separated Lipid Bilayers. <i>Biophysical Journal</i> , 2011, 100, 996-1004.  | 0.2 | 48        |
| 122 | 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        |
| 123 | Specific Salt Effects on Poly(ethylene oxide) Electrolyte Solutions. <i>Macromolecules</i> , 2011, 44, 1719-1727.   | 2.2 | 54        |
| 124 | Crowding-Induced Structural Alterations of Random-Loop Chromosome Model. <i>Physical Review Letters</i> , 2011, 106, 168102.  | 2.9 | 52        |
| 125 | Lysozyme Adsorption on Polyethylene Surfaces: Why Are Long Simulations Needed?. <i>Langmuir</i> , 2011, 27, 12074-12081.  | 1.6 | 118       |
| 126 | Anomalies in supercooled NaCl aqueous solutions: A microscopic perspective. <i>Journal of Chemical Physics</i> , 2011, 134, 244510.   | 1.2 | 20        |

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|-----|--|------|-----------|
| 127 | 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        |
| 128 | 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        |
| 129 | Morphology Control of Hairy Nanopores. <i>ACS Nano</i> , 2011, 5, 4737-4747.   | 7.3  | 89        |
| 130 | Temperature dependence of ice critical nucleus size. <i>Journal of Chemical Physics</i> , 2011, 135, 034508.   | 1.2  | 60        |
| 131 | How and Why Nanoparticle's Curvature Regulates the Apparent $\kappa_a$ of the Coating Ligands. <i>Journal of the American Chemical Society</i> , 2011, 133, 2192-2197.   | 6.6  | 208       |
| 132 | Structure of supercooled water in clusters and bulk and its relation to the two-state picture of water: Results from the TIP4P-ice model. <i>European Physical Journal E</i> , 2011, 34, 126.  | 0.7  | 10        |
| 133 | Polymer-regulated pattern formation in pseudo-2D arrays of a fullerene derivative at the solution-Air interface. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 516-522.                                       | 2.4  | 1         |
| 134 | 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       |
| 135 | Molecular modeling of responsive polymer films. <i>AIChE Journal</i> , 2010, 56, 1952-1959.  | 1.8  | 5         |
| 136 | Lateral electron transport in monolayers of short chains at interfaces: A Monte Carlo study. <i>Chemical Physics</i> , 2010, 375, 503-507.   | 0.9  | 5         |
| 137 | Halide and sodium ion parameters for modeling aqueous solutions in TIP5P-Ew water. <i>Chemical Physics Letters</i> , 2010, 489, 113-117.   | 1.2  | 16        |
| 138 | Emerging applications of stimuli-responsive polymer materials. <i>Nature Materials</i> , 2010, 9, 101-113.   | 13.3 | 5,007     |
| 139 | Langmuir monolayers with internal dipoles: Understanding phase behavior using Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2010, 132, 014703.   | 1.2  | 4         |
| 140 | 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       |
| 141 | Structural transitions and dipole moment of water clusters $(\text{H}_2\text{O})_n=4\text{--}100$ . <i>Journal of Chemical Physics</i> , 2010, 133, 024506.  | 1.2  | 22        |
| 142 | Order-disorder transition induced by surfactant micelles in single-walled carbon nanotubes dispersions. <i>Soft Matter</i> , 2010, 6, 5289.  | 1.2  | 16        |
| 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 | 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       |

| #   | ARTICLE   | IF  | CITATIONS |
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