

# Jan Genzer

## List of Publications by Year in descending order

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Version: 2024-02-01

266  
papers

19,962  
citations

22099

59  
h-index

11899

134  
g-index

291  
all docs

291  
docs citations

291  
times ranked

21499  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Direct measurement of rate-dependent mode I and mode II traction-separation laws for cohesive zone modeling of laminated glass. <i>Composite Structures</i> , 2022, 279, 114759.   | 3.1 | 7         |
| 2  | Deposition of silicate coatings on poly(ethylene terephthalate) for improved scratch and solvent resistance. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51800.   | 1.3 | 0         |
| 3  | Self-healing and repair of fabrics: A comprehensive review of the application toolkit. <i>Materials Today</i> , 2022, 54, 90-109.  | 8.3 | 14        |
| 4  | Degradable Anti-Biofouling Polyester Coatings with Controllable Lifetimes. <i>Langmuir</i> , 2022, 38, 1488-1496.  | 1.6 | 1         |
| 5  | Counterpropagating Gradients of Antibacterial and Antifouling Polymer Brushes. <i>Biomacromolecules</i> , 2022, 23, 424-430.   | 2.6 | 21        |
| 6  | Stiff or Extensible in Seconds: Light-Induced Corrugations in Thin Polymer Sheets. <i>Advanced Materials Technologies</i> , 2021, 6, .   | 3.0 | 4         |
| 7  | Dual-Responsive Microgels for Structural Repair and Recovery of Nonwoven Membranes for Liquid Filtration. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1508-1517.   | 2.0 | 5         |
| 8  | Continuous Ligand-Free Suzuki-Miyaura Cross-Coupling Reactions in a Cartridge Flow Reactor Using a Gel-Supported Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 9418-9428.   | 1.8 | 8         |
| 9  | Functional Gels Containing Hydroxamic Acid Degrade Organophosphates in Aqueous Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 8799-8811.  | 1.8 | 2         |
| 10 | Antipathogenic properties and applications of low-dimensional materials. <i>Nature Communications</i> , 2021, 12, 3897.  | 5.8 | 63        |
| 11 | DFT Analysis of Organotin Catalytic Mechanisms in Dehydration Esterification Reactions for Terephthalic Acid and 2,2,4,4-Tetramethyl-1,3-cyclobutanediol. <i>Journal of Physical Chemistry A</i> , 2021, 125, 4943-4956.                         | 1.1 | 0         |
| 12 | UV- and Thermally-Active Bifunctional Gelators Create Surface-Anchored Polymer Networks. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100266.  | 2.0 | 4         |
| 13 | Dynamic Surfaces—Degradable Polyester Networks that Resist Protein Adsorption. <i>Langmuir</i> , 2021, 37, 8978-8988.  | 1.6 | 1         |
| 14 | Surface-Bound Microgels for Separation, Sensing, and Biomedical Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2104164.  | 7.8 | 29        |
| 15 | Novel computational design of high refractive index nanocomposites and effective refractive index tuning based on nanoparticle morphology effect. <i>Composites Part B: Engineering</i> , 2021, 223, 109128.                                     | 5.9 | 4         |
| 16 | Tuning the Properties of Surface-Anchored Polymer Networks by Varying the Concentration of a Thermally Activated Cross-Linker, Annealing Time, and Temperature in a One-Pot Reaction. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5568-5577. | 2.0 | 1         |
| 17 | Packing density, homogeneity, and regularity: Quantitative correlations between topology and thermoresponsive morphology of PNIPAM-co-PAA microgel coatings. <i>Applied Surface Science</i> , 2020, 508, 145129.                                 | 3.1 | 8         |
| 18 | Dependence of deposition method on the molecular structure and stability of organosilanes revealed from degrafting by tetrabutylammonium fluoride. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 658-666.                               | 1.3 | 3         |

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|----|--|-----|-----------|
| 19 | Nonwoven fiber mats with thermo-responsive permeability to inorganic and organic electrolytes. <i>Journal of Membrane Science</i> , 2020, 616, 118439.   | 4.1 | 11        |
| 20 | Enhanced mid-wavelength infrared refractive index of organically modified chalcogenide (ORMOCHALC) polymer nanocomposites with thermomechanical stability. <i>Optical Materials</i> , 2020, 108, 110197. | 1.7 | 12        |
| 21 | The Next 100 Years of Polymer Science. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000216.   | 1.1 | 69        |
| 22 | Effect of Poly(vinyl butyral) Comonomer Sequence on Adhesion to Amorphous Silica: A Coarse-Grained Molecular Dynamics Study. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 47879-47890.      | 4.0 | 10        |
| 23 | Network-supported, metal-mediated catalysis: progress and perspective. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 1892-1902.   | 1.9 | 6         |
| 24 | Effect of surface interactions on the settlement of particles on a sinusoidally corrugated substrate. <i>RSC Advances</i> , 2020, 10, 11348-11356.   | 1.7 | 4         |
| 25 | Controlled heating and alignment platform enhances versatility in colloidal probe fabrication. <i>Review of Scientific Instruments</i> , 2020, 91, 013903.   | 0.6 | 0         |
| 26 | Extending the fused-sphere SAFT- $\hat{\Gamma}^3$ Mie force field parameterization approach to poly(vinyl butyral) copolymers. <i>Journal of Chemical Physics</i> , 2020, 152, 044903.                   | 1.2 | 6         |
| 27 | Charge Density Gradients of Polymer Thin Film by Gaseous Phase Quaternization. <i>ACS Macro Letters</i> , 2020, 9, 158-162.  | 2.3 | 2         |
| 28 | Design of High Efficient Mid-Wavelength Infrared Polarizer on ORMOCHALC Polymer. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000033.   | 1.7 | 8         |
| 29 | Application of a Laser Cutter to Pattern Wrinkles on Polymer Films. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1848-1855.   | 2.0 | 5         |
| 30 | Attributes, Fabrication, and Applications of Gallium-Based Liquid Metal Particles. <i>Advanced Science</i> , 2020, 7, 2000192.   | 5.6 | 246       |
| 31 | Spontaneous Degrafting of Weak and Strong Polycationic Brushes in Aqueous Buffer Solutions. <i>Macromolecules</i> , 2019, 52, 6192-6200.   | 2.2 | 17        |
| 32 | Hydrogel/Elastomer Laminates Bonded via Fabric Interphases for Stimuli-Responsive Actuators. <i>Matter</i> , 2019, 1, 674-689.   | 5.0 | 74        |
| 33 | Determining Water Sorption and Desorption in Thin Hydrophilic Polymer Films by Thermal Treatment. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2495-2502.   | 2.0 | 7         |
| 34 | Computer Simulation of Surface-Initiated Controlled Radical Polymerization: Effect of Free Monomer Model on Brush Properties. <i>Macromolecular Theory and Simulations</i> , 2019, 28, 1900033.          | 0.6 | 8         |
| 35 | Generating Surface-Anchored Zwitterionic Networks and Studying Their Resistance to Bovine Serum Albumin Adsorption. <i>ACS Applied Polymer Materials</i> , 2019, 1, 3323-3333.                           | 2.0 | 10        |
| 36 | Liquid Metal Nanoparticles as Initiators for Radical Polymerization of Vinyl Monomers. <i>ACS Macro Letters</i> , 2019, 8, 1522-1527.  | 2.3 | 109       |

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|----|---|-----|-----------|
| 37 | Mechanochemical Degrafting of a Surface-Tethered Poly(acrylic acid) Brush Promoted Etching of Its Underlying Silicon Substrate. <i>Langmuir</i> , 2019, 35, 13693-13699.                                    | 1.6 | 1         |
| 38 | Light-Induced Structuring of Photosensitive Polymer Brushes. <i>ACS Applied Polymer Materials</i> , 2019, 1, 3017-3026.   | 2.0 | 11        |
| 39 | Thermally driven directional free-radical polymerization in confined channels. <i>Polymer Chemistry</i> , 2019, 10, 920-925.  | 1.9 | 2         |
| 40 | Development of a fused-sphere SAFT- $\hat{\Gamma}^3$ Mie force field for poly(vinyl alcohol) and poly(ethylene). <i>Journal of Chemical Physics</i> , 2019, 150, 034901.                                    | 1.2 | 15        |
| 41 | Influence of surface topography attributes on settlement and adhesion of natural and synthetic species. <i>Soft Matter</i> , 2019, 15, 4045-4067.   | 1.2 | 39        |
| 42 | Shrink Films Get a Grip. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1088-1095.   | 2.0 | 10        |
| 43 | Toughening stretchable fibers via serial fracturing of a metallic core. <i>Science Advances</i> , 2019, 5, eaat4600.  | 4.7 | 52        |
| 44 | Thermo-mechanical transformation of shape memory polymers from initially flat discs to bowls and saddles. <i>Smart Materials and Structures</i> , 2019, 28, 045011.   | 1.8 | 21        |
| 45 | Thermally Activated One-Pot, Simultaneous Radical and Condensation Reactions Generate Surface-Anchored Network Layers from Common Polymers. <i>Macromolecules</i> , 2019, 52, 700-707.                      | 2.2 | 9         |
| 46 | Adsorption of size-polydisperse particles on sinusoidally corrugated surfaces. <i>Molecular Simulation</i> , 2018, 44, 494-506.   | 0.9 | 3         |
| 47 | Sonication-enabled rapid production of stable liquid metal nanoparticles grafted with poly(1-octadecene- <i>alt</i> -maleic anhydride) in aqueous solutions. <i>Nanoscale</i> , 2018, 10, 19871-19878.      | 2.8 | 98        |
| 48 | Kinetic Study of Degrafting Poly(methyl methacrylate) Brushes from Flat Substrates by Tetrabutylammonium Fluoride. <i>Macromolecules</i> , 2018, 51, 10237-10245.   | 2.2 | 13        |
| 49 | Shape memory polymers for self-folding via compression of thermoplastic sheets. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46889.   | 1.3 | 6         |
| 50 | Visualization of Mechanochemically-Assisted Degrafting of Surface-Tethered Poly(Acrylic Acid) Brushes. <i>ACS Macro Letters</i> , 2018, 7, 609-613.   | 2.3 | 8         |
| 51 | Fabrication of Flexible Hydrogel Sheets Featuring Periodically Spaced Circular Holes with Continuously Adjustable Size in Real Time. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 30844-30851. | 4.0 | 5         |
| 52 | Phase Behavior and Self-Assembly of Perfectly Sequence-Defined and Monodisperse Multiblock Copolypeptides. <i>Biomacromolecules</i> , 2017, 18, 599-609.  | 2.6 | 47        |
| 53 | Controllable curvature from planar polymer sheets in response to light. <i>Soft Matter</i> , 2017, 13, 2299-2308.   | 1.2 | 45        |
| 54 | Shape-transformable liquid metal nanoparticles in aqueous solution. <i>Chemical Science</i> , 2017, 8, 3832-3837.   | 3.7 | 181       |

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|----|---|-----|-----------|
| 55 | Effect of Network Density in Surface-Anchored Poly( <i>N</i> -isopropylacrylamide) Hydrogels on Adsorption of Fibrinogen. <i>Langmuir</i> , 2017, 33, 1974-1983.  | 1.6 | 19        |
| 56 | Sequential self-folding of polymer sheets. <i>Science Advances</i> , 2017, 3, e1602417.   | 4.7 | 254       |
| 57 | Further insight into the mechanism of poly(styrene-co -methyl methacrylate) microsphere formation. <i>Journal of Polymer Science Part A</i> , 2017, 55, 2249-2259.  | 2.5 | 3         |
| 58 | A fully coupled thermo-viscoelastic finite element model for self-folding shape memory polymer sheets. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1207-1219.  | 2.4 | 21        |
| 59 | Sensors: Stretchable Capacitive Sensors of Torsion, Strain, and Touch Using Double Helix Liquid Metal Fibers ( <i>Adv. Funct. Mater.</i> 20/2017). <i>Advanced Functional Materials</i> , 2017, 27, .   | 7.8 | 3         |
| 60 | Stretchable Capacitive Sensors of Torsion, Strain, and Touch Using Double Helix Liquid Metal Fibers. <i>Advanced Functional Materials</i> , 2017, 27, 1605630.  | 7.8 | 257       |
| 61 | Enhanced Stability of Surface-Tethered Diblock Copolymer Brushes with a Neutral Polymer Block and a Weak Polyelectrolyte Block: Effects of Molecular Weight and Hydrophobicity of the Neutral Block. <i>Macromolecules</i> , 2017, 50, 8580-8587. | 2.2 | 21        |
| 62 | Salt-Induced Aggregation of Negatively Charged Gold Nanoparticles Confined in a Polymer Brush Matrix. <i>Macromolecules</i> , 2017, 50, 7333-7343.  | 2.2 | 61        |
| 63 | Vacuum filling of complex microchannels with liquid metal. <i>Lab on A Chip</i> , 2017, 17, 3043-3050.  | 3.1 | 169       |
| 64 | Effects of thermo-mechanical behavior and hinge geometry on folding response of shape memory polymer sheets. <i>Journal of Applied Physics</i> , 2017, 122, .   | 1.1 | 11        |
| 65 | Design and Fabrication of Wettability Gradients with Tunable Profiles through Degrafting Organosilane Layers from Silica Surfaces by Tetrabutylammonium Fluoride. <i>Langmuir</i> , 2017, 33, 14556-14564.  | 1.6 | 10        |
| 66 | Grrafting through polymerization involving surface-bound monomers. <i>Journal of Polymer Science Part A</i> , 2016, 54, 263-274.  | 2.5 | 31        |
| 67 | Surface-Anchored Poly( <i>N</i> -isopropylacrylamide) Orthogonal Gradient Networks. <i>Macromolecules</i> , 2016, 49, 5076-5083.  | 2.2 | 16        |
| 68 | Light-Induced Reversible Change of Roughness and Thickness of Photosensitive Polymer Brushes. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19175-19184.   | 4.0 | 39        |
| 69 | Amidation of Polyesters Is Slow in Nonaqueous Solvents: Efficient Amidation of Poly(ethylene) Terephthalate. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 35641-35649.  | 4.0 | 27        |
| 70 | Swelling of Hydrophilic Polymer Brushes by Water and Alcohol Vapors. <i>Macromolecules</i> , 2016, 49, 4316-4329.   | 2.2 | 37        |
| 71 | Drawing liquid metal wires at room temperature. <i>Extreme Mechanics Letters</i> , 2016, 7, 55-63.  | 2.0 | 31        |
| 72 | Targeted Mutagenesis and Combinatorial Library Screening Enables Control of Protein Orientation on Surfaces and Increased Activity of Adsorbed Proteins. <i>Langmuir</i> , 2016, 32, 8660-8667.   | 1.6 | 4         |

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|----|---|------|-----------|
| 73 | Affinity interactions of human immunoglobulin G with short peptides: role of ligand spacer on binding, kinetics, and mass transfer. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1829-1841.   | 1.9  | 12        |
| 74 | Effect of gold nanoparticle hydrophobicity on thermally induced color change of PNIPAM brush/gold nanoparticle hybrids. <i>Polymer</i> , 2016, 98, 454-463.   | 1.8  | 21        |
| 75 | Multipurpose Polymeric Coating for Functionalizing Inert Polymer Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 5694-5705.  | 4.0  | 9         |
| 76 | Self-Folding of Thick Polymer Sheets Using Gradients of Heat. <i>Journal of Mechanisms and Robotics</i> , 2016, 8, .  | 1.5  | 21        |
| 77 | Polymer brushes modified by photosensitive azobenzene containing polyamines. <i>Polymer</i> , 2016, 98, 421-428.  | 1.8  | 25        |
| 78 | 2D or not 2D? Shape-programming polymer sheets. <i>Progress in Polymer Science</i> , 2016, 52, 79-106.  | 11.8 | 292       |
| 79 | Buckled Topography to Enhance Light Absorption in Thin Film Organic Photovoltaics Comprising CuPc/C <sub>60</sub> Bilayer Laminates. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015, 229, 1251-1261.    | 1.4  | 3         |
| 80 | Handwritten, Soft Circuit Boards and Antennas Using Liquid Metal Nanoparticles. <i>Small</i> , 2015, 11, 6397-6403.   | 5.2  | 234       |
| 81 | Polymer Brush/Metal Nanoparticle Hybrids for Optical Sensor Applications: from Self-Assembly to Tailored Functions and Nanoengineering. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015, 229, 1089-1117. | 1.4  | 22        |
| 82 | Expanding the Polymer Mechanochemistry Toolbox through Surface-Initiated Polymerization. <i>ACS Macro Letters</i> , 2015, 4, 636-639.   | 2.3  | 58        |
| 83 | On-Demand Degrafting and the Study of Molecular Weight and Grafting Density of Poly(methyl methacrylate) on Gold Nanoparticles. <i>ACS Nano</i> , 2015, 9, 7940-7949.                                       | 7.3  | 10        |
| 84 | Direct Measurement of Molecular Weight and Grafting Density by Controlled and Quantitative Degrafting of Surface-Anchored Poly(methyl methacrylate). <i>ACS Macro Letters</i> , 2015, 4, 251-254.           | 2.3  | 55        |
| 85 | Thermoresponsive PDMAEMA Brushes: Effect of Gold Nanoparticle Deposition. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10348-10358.  | 1.2  | 38        |
| 86 | Instability of Surface-Grafted Weak Polyacid Brushes on Flat Substrates. <i>Macromolecules</i> , 2015, 48, 5677-5687.   | 2.2  | 27        |
| 87 | Film-Stabilizing Attributes of Polymeric Core-Shell Nanoparticles. <i>ACS Nano</i> , 2015, 9, 7940-7949.  | 7.3  | 10        |
| 88 | Proteinlike Copolymers as Encapsulating Agents for Small-Molecule Solutes. <i>Langmuir</i> , 2015, 31, 3518-3526.   | 1.6  | 9         |
| 89 | Making polymer brush photosensitive with azobenzene containing surfactants. <i>Polymer</i> , 2015, 98, 65-72.   | 1.8  | 34        |
| 90 | Creating surface patterns of polymer brushes by degrafting via tetrabutyl ammonium fluoride. <i>RSC Advances</i> , 2015, 5, 86120-86125.  | 1.7  | 10        |

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|-----|---|-----|-----------|
| 91  | Self-folding of polymer sheets using microwaves and graphene ink. RSC Advances, 2015, 5, 89254-89261.   | 1.7 | 40        |
| 92  | Modelling of shape memory polymer sheets that self-fold in response to localized heating. Soft Matter, 2015, 11, 7827-7834.   | 1.2 | 36        |
| 93  | Modification of Silicone Elastomer Surfaces with Zwitterionic Polymers: Short-Term Fouling Resistance and Triggered Biofouling Release. ACS Applied Materials & Interfaces, 2015, 7, 25586-25591. | 4.0 | 63        |
| 94  | Beyond microstructures: Using the Kerr Effect to characterize the macrostructures of synthetic polymers. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 155-166.                  | 2.4 | 13        |
| 95  | Toward the Development of a Versatile Functionalized Silicone Coating. ACS Applied Materials & Interfaces, 2014, 6, 22544-22552.  | 4.0 | 16        |
| 96  | Self-Folding Origami Microstrip Antennas. IEEE Transactions on Antennas and Propagation, 2014, 62, 5416-5419.   | 3.1 | 106       |
| 97  | Adsorption of Multiple Spherical Particles onto Sinusoidally Corrugated Substrates. Langmuir, 2014, 30, 9407-9417.  | 1.6 | 7         |
| 98  | Brush/Gold Nanoparticle Hybrids: Effect of Grafting Density on the Particle Uptake and Distribution within Weak Polyelectrolyte Brushes. Langmuir, 2014, 30, 13033-13041.                         | 1.6 | 54        |
| 99  | Swelling of Polyelectrolyte and Polyzwitterion Brushes by Humid Vapors. Journal of the American Chemical Society, 2014, 136, 12737-12745.   | 6.6 | 86        |
| 100 | Evolution of Homopolymer Thin-Film Instability on Surface-Anchored Diblock Copolymers Varying in Composition. Langmuir, 2014, 30, 11689-11695.  | 1.6 | 6         |
| 101 | Three-dimensional folding of pre-strained polymer sheets <i>via</i> absorption of laser light. Journal of Applied Physics, 2014, 115, .   | 1.1 | 58        |
| 102 | In-plane deformation of shape memory polymer sheets programmed using only scissors. Polymer, 2014, 55, 5948-5952.   | 1.8 | 9         |
| 103 | Adsorption of spherical particles onto sinusoidally-corrugated substrates. Soft Matter, 2014, 10, 7452-7458.  | 1.2 | 8         |
| 104 | Simple geometric model to describe self-folding of polymer sheets. Physical Review E, 2014, 89, 042601.   | 0.8 | 30        |
| 105 | Effect of ultraviolet/ozone treatment on the surface and bulk properties of poly(dimethyl siloxane) and poly(vinylmethyl siloxane) networks. Polymer, 2014, 55, 3107-3119.                        | 1.8 | 59        |
| 106 | Thiol-containing polymeric embedding materials for nanoskiving. Journal of Materials Chemistry C, 2013, 1, 121-130.   | 2.7 | 18        |
| 107 | Opto-Mechanical Scission of Polymer Chains in Photosensitive Diblock-Copolymer Brushes. Langmuir, 2013, 29, 13967-13974.  | 1.6 | 43        |
| 108 | On the Surface Interactions of Proteins with Lignin. ACS Applied Materials & Interfaces, 2013, 5, 199-206.  | 4.0 | 71        |

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|-----|---|-----|-----------|
| 109 | Surface wrinkling by chemical modification of poly(dimethylsiloxane)-based networks during sputtering. <i>Soft Matter</i> , 2013, 9, 7797.  | 1.2 | 32        |
| 110 | Self-assembly fronts in collision: impinging ordering organosilane layers. <i>Soft Matter</i> , 2013, 9, 2493.  | 1.2 | 3         |
| 111 | Microfluidic channels fabricated from poly(vinylmethylsiloxane) networks that resist swelling by organic solvents. <i>Lab on A Chip</i> , 2013, 13, 4317.   | 3.1 | 6         |
| 112 | Generation and Properties of Antibacterial Coatings Based on Electrostatic Attachment of Silver Nanoparticles to Protein-Coated Polypropylene Fibers. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 5298-5306. | 4.0 | 66        |
| 113 | Effect of Protein-like Copolymers Composition on the Phase Separation Dynamics of a Polymer Blend: A Monte Carlo Simulation. <i>Macromolecules</i> , 2013, 46, 4207-4214.   | 2.2 | 8         |
| 114 | Computer Simulation of Template Polymerization Using a Controlled Reaction Scheme. <i>Macromolecules</i> , 2013, 46, 2474-2484.   | 2.2 | 13        |
| 115 | Elastomeric microparticles for acoustic mediated bioseparations. <i>Journal of Nanobiotechnology</i> , 2013, 11, 22.  | 4.2 | 199       |
| 116 | Water-Wettable Polypropylene Fibers by Facile Surface Treatment Based on Soy Proteins. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 6541-6548.  | 4.0 | 37        |
| 117 | Progress in Computer Simulation of Bulk, Confined, and Surface-Initiated Polymerizations. <i>Macromolecular Theory and Simulations</i> , 2013, 22, 8-30.  | 0.6 | 25        |
| 118 | Interfacial stabilization of bilayered nanolaminates by asymmetric block copolymers. <i>Applied Physics Letters</i> , 2012, 100, 101602.  | 1.5 | 3         |
| 119 | Determining the Polydispersity in Chemical Composition and Monomer Sequence Distribution in Random Copolymers Prepared by Postpolymerization Modification of Homopolymers. <i>ACS Macro Letters</i> , 2012, 1, 1128-1133. | 2.3 | 5         |
| 120 | Responsive PET Nano/Microfibers via Surface-Initiated Polymerization. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 59-64.   | 4.0 | 31        |
| 121 | Generation of functional PET microfibers through surface-initiated polymerization. <i>Journal of Materials Chemistry</i> , 2012, 22, 5855.  | 6.7 | 53        |
| 122 | Self-folding of polymer sheets using local light absorption. <i>Soft Matter</i> , 2012, 8, 1764-1769.   | 1.2 | 466       |
| 123 | Phase behavior of gradient copolymer solutions: a Monte Carlo simulation study. <i>Soft Matter</i> , 2012, 8, 6471.   | 1.2 | 24        |
| 124 | Oligomer Orientation in Vapor-Molecular-Layer-Deposited Alkyl-Aromatic Polyamide Films. <i>Langmuir</i> , 2012, 28, 10464-10470.  | 1.6 | 32        |
| 125 | Computer Simulation of Concurrent Bulk- and Surface-Initiated Living Polymerization. <i>Macromolecules</i> , 2012, 45, 2128-2137.   | 2.2 | 60        |
| 126 | Formation of Polyampholyte Brushes via Controlled Radical Polymerization and Their Assembly in Solution. <i>Langmuir</i> , 2012, 28, 872-882.   | 1.6 | 37        |



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|-----|---|------|-----------|
| 127 | Adsorption of Glycinin and $\beta$ -Conglycinin on Silica and Cellulose: Surface Interactions as a Function of Denaturation, pH, and Electrolytes. <i>Biomacromolecules</i> , 2012, 13, 387-396.                          | 2.6  | 25        |
| 128 | Experimental and Computational Study of the Effect of Alcohols on the Solution and Adsorption Properties of a Nonionic Symmetric Triblock Copolymer. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1289-1298.       | 1.2  | 10        |
| 129 | Creating Functional Materials by Chemical and Physical Functionalization of Silicone Elastomer Networks. <i>Advances in Silicon Science</i> , 2012, , 59-94.  | 0.6  | 1         |
| 130 | The effect of confinement on thermal frontal polymerization. <i>Polymer Chemistry</i> , 2012, 3, 3243.  | 1.9  | 11        |
| 131 | Surface-Bound Gradients for Studies of Soft Materials Behavior. <i>Annual Review of Materials Research</i> , 2012, 42, 435-468.   | 4.3  | 83        |
| 132 | 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        |
| 133 | Generation of Functional Coatings on Hydrophobic Surfaces through Deposition of Denatured Proteins Followed by Grafting from Polymerization. <i>Biomacromolecules</i> , 2012, 13, 1371-1382.                              | 2.6  | 29        |
| 134 | Surface-Initiated Polymerization by Means of Novel, Stable, Non-Ester-Based Radical Initiator. <i>Macromolecules</i> , 2012, 45, 3802-3815.   | 2.2  | 52        |
| 135 | Formation and Antifouling Properties of Amphiphilic Coatings on Polypropylene Fibers. <i>Biomacromolecules</i> , 2012, 13, 3769-3779.   | 2.6  | 53        |
| 136 | Influence of gradient strength and composition profile on the onset of the cloud point transition in hydroxyethyl methacrylate/dimethylaminoethyl methacrylate gradient copolymers. <i>Polymer</i> , 2012, 53, 1131-1137. | 1.8  | 26        |
| 137 | Applications of surface-grafted macromolecules derived from post-polymerization modification reactions. <i>Progress in Polymer Science</i> , 2012, 37, 871-906.   | 11.8 | 136       |
| 138 | Charge- and temperature-dependent interactions between anionic poly(N-isopropylacrylamide) polymers in solution and a cationic surfactant at the water/air interface. <i>Soft Matter</i> , 2011, 7, 8498.                 | 1.2  | 6         |
| 139 | Poly(vinylmethylsiloxane) Elastomer Networks as Functional Materials for Cell Adhesion and Migration Studies. <i>Biomacromolecules</i> , 2011, 12, 1265-1271.   | 2.6  | 17        |
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