# Chinedum O Osuji

List of Publications by Year
in descending order



| 142 | 9,148 | 44042 | 42364 |
|---|---|---|---|
| papers | citations | 48 h-index | 92 g-index |

| 143 | 143 | 143 | 11319 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Materials for next-generation desalination and water purification membranes. Nature Reviews Materials, 2016, 1, . | 23.3 | 1,977 |
| 2 | Structure, function, and self-assembly of single network gyroid ( I 4 <sub>1</sub> 32) photonic crystals in butterfly wing scales. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11676-11681. | 3.3 | 428 |
| 3 | Directed self-assembly of block copolymers: a tutorial review of strategies for enabling nanotechnology with soft matter. Soft Matter, 2014, 10, 3867. | 1.2 | 343 |
| 4 | Omniphobic Membrane for Robust Membrane Distillation. Environmental Science and Technology Letters, 2014, 1, 443-447. | 3.9 | 288 |
| 5 | Enhanced antibacterial activity through the controlled alignment of graphene oxide nanosheets. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9793-E9801. | 3.3 | 275 |
| 6 | Antifouling Ultrafiltration Membranes via Post-Fabrication Grafting of Biocidal Nanomaterials. ACS Applied Materials & Interfaces, 2011, 3, 2861-2868. | 4.0 | 268 |
| 7 | High Performance Nanofiltration Membrane for Effective Removal of Perfluoroalkyl Substances at High Water Recovery. Environmental Science & Technology, 2018, 52, 7279-7288. | 4.6 | 218 |
| 8 | Anisotropic Ionic Conductivity in Block Copolymer Membranes by Magnetic Field Alignment. Journal of the American Chemical Society, 2010, 132, 17516-17522. | 6.6 | 192 |
| 9 | Scalable Fabrication of Polymer Membranes with Vertically Aligned 1 nm Pores by Magnetic Field Directed Self-Assembly. ACS Nano, 2014, 8, 11977-11986. | 7.3 | 183 |
| 10 | Hybrid Pressure Retarded Osmosisâ€“Membrane Distillation System for Power Generation from Low-Grade Heat: Thermodynamic Analysis and Energy Efficiency. Environmental Science & Technology, 2014, 48, 5306-5313. | 4.6 | 129 |
| 11 | Alignment of Self-Assembled Hierarchical Microstructure in Liquid Crystalline Diblock Copolymers Using High Magnetic Fields. Macromolecules, 2004, 37, 9903-9908. | 2.2 | 128 |
| 12 | Engineering flat sheet microporous PVDF films for membrane distillation. Journal of Membrane Science, 2015, 492, 355-363. | 4.1 | 118 |
| 13 | Production of amorphous nanoparticles by supersonic spray-drying with a microfluidic nebulator. Science, 2015, 349, 956-960. | 6.0 | 110 |
| 14 | Magnetic field alignment of block copolymers and polymer nanocomposites: Scalable microstructure control in functional soft materials. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 2-8. | 2.4 | 107 |
| 15 | Stimuli-Responsive Smart Gels Realized via Modular Protein Design. Journal of the American Chemical Society, 2010, 132, 14024-14026. | 6.6 | 105 |
| 16 | Role of interparticle attraction in the yielding response of microgel suspensions. Soft Matter, 2013, 9, 5492. | 1.2 | 95 |
| 17 | Rheology of cellulose nanofibrils in the presence of surfactants. Soft Matter, 2016, 12, 157-164. | 1.2 | 93 |
| 18 | Thin Polymer Films with Continuous Vertically Aligned 1 nm Pores Fabricated by Soft Confinement. ACS Nano, 2016, 10, 150-158. | 7.3 | 92 |

| # | Article | IF | Citations |
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| 19 | Post-fabrication modification of electrospun nanofiber mats with polymer coating for membrane distillation applications. Journal of Membrane Science, 2017, 530, 158-165. | 4.1 | 91 |
| 20 | Nanocomposites of Vertically Aligned Single-Walled Carbon Nanotubes by Magnetic Alignment and Polymerization of a Lyotropic Precursor. ACS Nano, 2010, 4, 6651-6658. | 7.3 | 86 |
| 21 | Shear thickening and scaling of the elastic modulus in a fractal colloidal system with attractive interactions. Physical Review E, 2008, 77, 060402. | 0.8 | 84 |
| 22 | Highly Selective Vertically Aligned Nanopores in Sustainably Derived Polymer Membranes by Molecular Templating. ACS Nano, 2017, 11, 3911-3921. | 7.3 | 83 |
| 23 | Relating Selectivity and Separation Performance of Lamellar Two-Dimensional Molybdenum Disulfide (MoS<sub>2</sub>) Membranes to Nanosheet Stacking Behavior. Environmental Science & Technology, 2020, 54, 9640-9651. | 4.6 | 82 |
| 24 | Structural Diversity of Arthropod Biophotonic Nanostructures Spans Amphiphilic Phase-Space. Nano Letters, 2015, 15, 3735-3742. | 4.5 | 80 |
| 25 | Shaping and Locomotion of Soft Robots Using Filament Actuators Made from Liquid Crystal Elastomerâ€“Carbon Nanotube Composites. Advanced Intelligent Systems, 2020, 2, 1900163. | 3.3 | 80 |
| 26 | Facile Alignment of Amorphous Poly(ethylene oxide) Microdomains in a Liquid Crystalline Block Copolymer Using Magnetic Fields: Toward Ordered Electrolyte Membranes. Macromolecules, 2010, 43, 3286-3293. | 2.2 | 79 |
| 27 | Janus Graft Block Copolymers: Design of a Polymer Architecture for Independently Tuned Nanostructures and Polymer Properties. Angewandte Chemie - International Edition, 2018, 57, 8493-8497. | 7.2 | 79 |
| 28 | Precise nanofiltration in a fouling-resistant self-assembled membrane with water-continuous transport pathways. Science Advances, 2019, 5, eaav9308. | 4.7 | 79 |
| 29 | New insights on fumed colloidal rheologyâ€”shear thickening and vorticity-aligned structures in flocculating dispersions. Rheologica Acta, 2009, 48, 871-881. | 1.1 | 77 |
| 30 | Side-Chain Liquid Crystalline Polymer Networks: Exploiting Nanoscale Smectic Polymorphism To Design Shape-Memory Polymers. ACS Nano, 2011, 5, 3085-3095. | 7.3 | 75 |
| 31 | Directed Assembly of Hybrid Nanomaterials and Nanocomposites. Advanced Materials, 2018, 30, e1705794. | 11.1 | 74 |
| 32 | Guided Evolution of Bulk Metallic Glass Nanostructures: A Platform for Designing 3D Electrocatalytic Surfaces. Advanced Materials, 2016, 28, 1940-1949. | 11.1 | 71 |
| 33 | Poly(ethylenimine)-Based Polymer Blends as Single-Ion Lithium Conductors. Macromolecules, 2014, 47, 3401-3408. | 2.2 | 70 |
| 34 | Order-Disorder Transition and Alignment Dynamics of a Block Copolymer Under High Magnetic Fields byInÂSituX-Ray Scattering. Physical Review Letters, 2013, 110, 078301. | 2.9 | 67 |
| 35 | Thermally Switchable Aligned Nanopores by Magneticâ€Field Directed Selfâ€Assembly of Block Copolymers. Advanced Materials, 2014, 26, 5148-5154. | 11.1 | 66 |
| 36 | Highly anisotropic vorticity aligned structures in a shear thickening attractive colloidal system. Soft Matter, 2008, 4, 1388. | 1.2 | 65 |

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| 37 | Single-step microfluidic fabrication of soft monodisperse polyelectrolyte microcapsules by interfacial complexation. Lab on A Chip, 2014, 14, 3494-3497. | 3.1 | 65 |
| 38 | Nanoscale size effects in crystallization of metallic glass nanorods. Nature Communications, 2015, 6, 8157. | 5.8 | 65 |
| 39 | Magnetic Field Alignment of a Diblock Copolymer Using a Supramolecular Route. ACS Macro Letters, 2012, 1, 184-189. | 2.3 | 59 |
| 40 | Molecular Design of Liquid Crystalline Brush-Like Block Copolymers for Magnetic Field Directed Self-Assembly: A Platform for Functional Materials. ACS Macro Letters, 2014, 3, 462-466. | 2.3 | 59 |
| 41 | Rational Design of a Block Copolymer with a High Interaction Parameter. Macromolecules, 2014, 47, 6687-6696. | 2.2 | 59 |
| 42 | Transverse Cylindrical Microdomain Orientation in an LC Diblock Copolymer under Oscillatory Shear. Macromolecules, 1999, 32, 7703-7706. | 2.2 | 57 |
| 43 | Monoliths of Semiconducting Block Copolymers by Magnetic Alignment. ACS Nano, 2013, 7, 5514-5521. | 7.3 | 56 |
| 44 | Self-Assembly of an Ultrahigh-Ï‡ Block Copolymer with Versatile Etch Selectivity. Macromolecules, 2018, 51, 6460-6467. | 2.2 | 56 |
| 45 | Tailoring Crystallization Behavior of PEO-Based Liquid Crystalline Block Copolymers through Variation in Liquid Crystalline Content. Macromolecules, 2011, 44, 3924-3934. | 2.2 | 54 |
| 46 | Continuous Equilibrated Growth of Ordered Block Copolymer Thin Films by Electrospray Deposition. ACS Nano, 2013, 7, 2960-2970. | 7.3 | 51 |
| 47 | Magnetic Alignment of Block Copolymer Microdomains by Intrinsic Chain Anisotropy. Physical Review Letters, 2015, 115, 258302. | 2.9 | 51 |
| 48 | Elements Provide a Clue: Nanoscale Characterization of Thin-Film Composite Polyamide Membranes. ACS Applied Materials & Interfaces, 2015, 7, 16917-16922. | 4.0 | 50 |
| 49 | Sustainable manufacturing of sensors onto soft systems using self-coagulating conductive Pickering emulsions. Science Robotics, 2020, 5, . | 9.9 | 50 |
| 50 | Time-resolved viscoelastic properties during structural arrest and aging of a colloidal glass. Physical Review E, 2010, 82, 031404. | 0.8 | 47 |
| 51 | Selectivity and Mass Transfer Limitations in Pressure-Retarded Osmosis at High Concentrations and Increased Operating Pressures. Environmental Science & Technology, 2015, 49, 12551-12559. | 4.6 | 46 |
| 52 | Understanding anisotropic transport in self-assembled membranes and maximizing ionic conductivity by microstructure alignment. Soft Matter, 2013, 9, 7106. | 1.2 | 44 |
| 53 | Mesenchymal stromal cells form vascular tubes when placed in fibrin sealant and accelerate wound healing inÂvivo. Biomaterials, 2015, 40, 61-71. | 5.7 | 43 |
| 54 | Tuning the permselectivity of polymeric desalination membranes via control of polymer crystallite size. Nature Communications, 2019, 10, 2347. | 5.8 | 43 |

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| 55 | Dynamics of internal stresses and scaling of strain recovery in an aging colloidal gel. Physical Review E, 2009, 80, 010404. | 0.8 | 41 |
| 56 | Physical aging and relaxation of residual stresses in a colloidal glass following flow cessation. Journal of Rheology, 2010, 54, 943-958. | 1.3 | 40 |
| 57 | Controlling orientational order in block copolymers using low-intensity magnetic fields. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9437-E9444. | 3.3 | 39 |
| 58 | Loss of Phospholipid Membrane Integrity Induced by Two-Dimensional Nanomaterials. Environmental Science and Technology Letters, 2017, 4, 404-409. | 3.9 | 39 |
| 59 | Liquid Crystalline Order and Magnetocrystalline Anisotropy in Magnetically Doped Semiconducting ZnO Nanowires. ACS Nano, 2011, 5, 8357-8364. | 7.3 | 38 |
| 60 | Viscoelasticity of a colloidal gel during dynamical arrest: Evolution through the critical gel and comparison with a soft colloidal glass. Journal of Rheology, 2014, 58, 1557-1579. | 1.3 | 38 |
| 61 | Directed Selfâ€Assembly of Hybrid Oxide/Polymer Core/Shell Nanowires with Transport Optimized Morphology for Photovoltaics. Advanced Materials, 2012, 24, 82-87. | 11.1 | 37 |
| 62 | Fabrication of a Desalination Membrane with Enhanced Microbial Resistance through Vertical Alignment of Graphene Oxide. Environmental Science and Technology Letters, 2018, 5, 614-620. | 3.9 | 37 |
| 63 | Phase Behavior of Polylactide-Based Liquid Crystalline Brushlike Block Copolymers. Macromolecules, 2015, 48, 8315-8322. | 2.2 | 36 |
| 64 | Aligned Nanostructured Polymers by Magnetic-Field-Directed Self-Assembly of a Polymerizable Lyotropic Mesophase. ACS Applied Materials & Interfaces, 2014, 6, 19710-19717. | 4.0 | 35 |
| 65 | Smart Cellulose Nanofluids Produced by Tunable Hydrophobic Association of Polymer-Grafted Cellulose Nanocrystals. ACS Applied Materials & Interfaces, 2017, 9, 31095-31101. | 4.0 | 34 |
| 66 | Single crystal texture by directed molecular self-assembly along dual axes. Nature Materials, 2019, 18, 1235-1243. | 13.3 | 34 |
| 67 | Supramolecular Microphase Separation in a Hydrogen-Bonded Liquid Crystalline Comb Copolymer in the Melt State. Macromolecules, 2006, 39, 3114-3117. | 2.2 | 33 |
| 68 | Rapid Fabrication by Lyotropic Self-Assembly of Thin Nanofiltration Membranes with Uniform 1 Nanometer Pores. ACS Nano, 2021, 15, 8192-8203. | 7.3 | 33 |
| 69 | Role of HF in Oxygen Removal from Carbon Nanotubes: Implications for High Performance Carbon Electronics. Nano Letters, 2014, 14, 6179-6184. | 4.5 | 32 |
| 70 | Smectic Demixing in the Phase Behavior and Self-Assembly of a Hydrogen-Bonded Polymer with Mesogenic Side Chains. Macromolecules, 2010, 43, 6646-6654. | 2.2 | 31 |
| 71 | Hierarchically Self-Assembled Photonic Materials from Liquid Crystalline Random Brush Copolymers. Macromolecules, 2013, 46, 4558-4566. | 2.2 | 31 |
| 72 | Soft microcapsules with highly plastic shells formed by interfacial polyelectrolyteâ€“nanoparticle complexation. Soft Matter, 2015, 11, 7478-7482. | 1.2 | 30 |

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| 73 | Photoresponsive and Magnetoresponsive Graphene Oxide Microcapsules Fabricated by Droplet Microfluidics. ACS Applied Materials & Interfaces, 2017, 9, 44192-44198. | 4.0 | 30 |
| 74 | Cholesteric mesophase in side-chain liquid crystalline polymers: influence of mesogen interdigitation and motional decoupling. Soft Matter, 2012, 8, 3185. | 1.2 | 29 |
| 75 | Size-dependent viscosity in the super-cooled liquid state of a bulk metallic glass. Applied Physics Letters, 2013, 102, 221901. | 1.5 | 29 |
| 76 | Morphology Development in Thin Films of a Lamellar Block Copolymer Deposited by Electrospray. Macromolecules, 2014, 47, 5703-5710. | 2.2 | 29 |
| 77 | Sub-10 nm Self-Assembly of Mesogen-Containing Grafted Macromonomers and Their Bottlebrush Polymers. Macromolecules, 2018, 51, 3680-3690. | 2.2 | 29 |
| 78 | Lyotropic Self-Assembly of High-Aspect-Ratio Semiconductor Nanowires of Single-Crystal ZnO. Langmuir, 2011, 27, 11616-11621. | 1.6 | 28 |
| 79 | Shear-accelerated crystallization in a supercooled atomic liquid. Physical Review E, 2015, 91, 020301. | 0.8 | 28 |
| 80 | Pathway-engineering for highly-aligned block copolymer arrays. Nanoscale, 2018, 10, 416-427. | 2.8 | 28 |
| 81 | Atomic imprinting into metallic glasses. Communications Physics, 2018, 1, . | 2.0 | 28 |
| 82 | Lyotropic Hexagonal Ordering in Aqueous Media by Conjugated Hairy-Rod Supramolecules. Macromolecules, 2010, 43, 7549-7555. | 2.2 | 25 |
| 83 | Controlled Alignment of Lamellar Lyotropic Mesophases by Rotation in a Magnetic Field. Langmuir, 2010, 26, 8737-8742. | 1.6 | 25 |
| 84 | Optical materials and metamaterials from nanostructured soft matter. Nano Research, 2019, 12, 2172-2183. | 5.8 | 25 |
| 85 | Dual-Functionality Fullerene and Silver Nanoparticle Antimicrobial Composites via Block Copolymer Templates. ACS Applied Materials & Interfaces, 2016, 8, 33583-33591. | 4.0 | 24 |
| 86 | Fabrication of Modularly Functionalizable Microcapsules Using Protein-Based Technologies. ACS Biomaterials Science and Engineering, 2016, 2, 1856-1861. | 2.6 | 23 |
| 87 | Isomeric Effect Enabled Thermally Driven Self-Assembly of Hydroxystyrene-Based Block Copolymers. ACS Macro Letters, 2016, 5, 833-838. | 2.3 | 23 |
| 88 | Highly stiff yet elastic microcapsules incorporating cellulose nanofibrils. Soft Matter, 2017, 13, 2733-2737. | 1.2 | 23 |
| 89 | The Effects of Magnetic Field Alignment on Lithium Ion Transport in a Polymer Electrolyte Membrane with Lamellar Morphology. Polymers, 2019, 11, 887. | 2.0 | 23 |
| 90 | Large area vertical alignment of ZnO nanowires in semiconducting polymer thin films directed by magnetic fields. Nanoscale, 2013, 5, 10511. | 2.8 | 22 |

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| 91 | Optically Active Elastomers from Liquid Crystalline Comb Copolymers with Dual Physical and Chemical Cross-Links. Macromolecules, 2017, 50, 5929-5939. | 2.2 | 22 |
| 92 | Non-degenerate magnetic alignment of self-assembled mesophases. Soft Matter, 2009, 5, 3417. | 1.2 | 19 |
| 93 | Alignment of Self-Assembled Structures in Block Copolymer Films by Solvent Vapor Permeation. Macromolecules, 2010, 43, 3132-3135. | 2.2 | 19 |
| 94 | Directing block copolymer self-assembly with permanent magnets: photopatterning microdomain alignment and generating oriented nanopores. Molecular Systems Design and Engineering, 2017, 2, 549-559. | 1.7 | 19 |
| 95 | Lyotropic liquid crystals as templates for advanced materials. Journal of Materials Chemistry A, 2021, 9, 21607-21658. | 5.2 | 19 |
| 96 | Multi-Scale Assembly of Polythiophene-Surfactant Supramolecular Complexes for Charge Transport Anisotropy. Macromolecules, 2017, 50, 1047-1055. | 2.2 | 18 |
| 97 | Implications of Grain Size Variation in Magnetic Field Alignment of Block Copolymer Blends. ACS Macro Letters, 2017, 6, 404-409. | 2.3 | 17 |
| 98 | Fast Photoswitchable Orderâ€“Disorder Transitions in Liquid-Crystalline Block Co-oligomers. Journal of the American Chemical Society, 2022, 144, 390-399. | 6.6 | 17 |
| 99 | Multiscale patterning of a metallic glass using sacrificial imprint lithography. Microsystems and Nanoengineering, 2015, 1, . | 3.4 | 16 |
| 100 | Tunable organic solvent nanofiltration in self-assembled membranes at the subâ€“1 nm scale. Science Advances, 2022, 8, eabm5899. | 4.7 | 16 |
| 101 | Nanoimprinting Sub-100 nm Features in a Photovoltaic Nanocomposite using Durable Bulk Metallic Glass Molds. ACS Applied Materials & Interfaces, 2015, 7, 3456-3461. | 4.0 | 15 |
| 102 | Effect of Final Monomer Deposition Steps on Molecular Layer-by-Layer Polyamide Surface Properties. Langmuir, 2016, 32, 10815-10823. | 1.6 | 15 |
| 103 | Strong Orientational Coupling of Block Copolymer Microdomains to Smectic Layering Revealed by Magnetic Field Alignment. ACS Macro Letters, 2016, 5, 292-296. | 2.3 | 15 |
| 104 | Electrospray deposition tool: Creating compositionally gradient libraries of nanomaterials. Review of Scientific Instruments, 2020, 91, 013701. | 0.6 | 15 |
| 105 | Stable Sequestration of Single-Walled Carbon Nanotubes in Self-Assembled Aqueous Nanopores. Journal of the American Chemical Society, 2012, 134, 3950-3953. | 6.6 | 14 |
| 106 | Finite size effects in the crystallization of a bulk metallic glass. Applied Physics Letters, 2013, 103, . | 1.5 | 14 |
| 107 | Evaluating the Dispersant Stabilization of Colloidal Suspensions from the Scaling Behavior of Gel Rheology and Adsorption Measurements. Langmuir, 2018, 34, 1092-1099. | 1.6 | 14 |
| 108 | Janus Graft Block Copolymers: Design of a Polymer Architecture for Independently Tuned Nanostructures and Polymer Properties. Angewandte Chemie, 2018, 130, 8629-8633. | 1.6 | 13 |

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| 109 | Creating Aligned Nanopores by Magnetic Field Processing of Block Copolymer/Homopolymer Blends. ACS Macro Letters, 2019, 8, 261-266. | 2.3 | 13 |
| 110 | Sequential deposition of block copolymer thin films and formation of lamellar heterolattices by electrospray deposition. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 247-253. | 2.4 | 12 |
| 111 | Facile Protein Immobilization Using Engineered Surface-Active Biofilm Proteins. ACS Applied Nano Materials, 2018, 1, 2483-2488. | 2.4 | 12 |
| 112 | Film Thickness and Composition Effects in Symmetric Ternary Block Copolymer/Homopolymer Blend Films: Domain Spacing and Orientation. Macromolecules, 2021, 54, 7970-7986. | 2.2 | 12 |
| 113 | Dynamic magnetic field alignment and polarized emission of semiconductor nanoplatelets in a liquid crystal polymer. Nature Communications, 2022, 13, 2507. | 5.8 | 12 |
| 114 | Aligned Morphologies in Near-Edge Regions of Block Copolymer Thin Films. Macromolecules, 2019, 52, 7224-7233. | 2.2 | 11 |
| 115 | Stable cross-linked lyotropic gyroid mesophases from single-head/single-tail cross-linkable monomers. Chemical Communications, 2021, 57, 10931-10934. | 2.2 | 11 |
| 116 | Scalable Highâ€fidelity Growth of Semiconductor Nanorod Arrays with Controlled Geometry for Photovoltaic Devices Using Block Copolymers. Small, 2014, 10, 4304-4309. | 5.2 | 10 |
| 117 | Physical Continuity and Vertical Alignment of Block Copolymer Domains by Kinetically Controlled Electrospray Deposition. Macromolecular Rapid Communications, 2015, 36, 1290-1296. | 2.0 | 10 |
| 118 | Experimental Evidence for Proposed Transformation Pathway from the Inverse Hexagonal to Inverse Diamond Cubic Phase from Oriented Lipid Samples. Langmuir, 2015, 31, 7707-7711. | 1.6 | 10 |
| 119 | Flat Drops, Elastic Sheets, and Microcapsules by Interfacial Assembly of a Bacterial Biofilm Protein, BslA. Langmuir, 2017, 33, 13590-13597. | 1.6 | 10 |
| 120 | Hexagonally Ordered Arrays of Î±-Helical Bundles Formed from Peptide-Dendron Hybrids. Journal of the American Chemical Society, 2017, 139, 15977-15983. | 6.6 | 9 |
| 121 | Polymer Nanosheets from Supramolecular Assemblies of Conjugated Linoleic Acidâ€“High Surface Area Adsorbents from Renewable Materials. Langmuir, 2017, 33, 10690-10697. | 1.6 | 9 |
| 122 | Nanocomposites of 2D-MoS<sub>2</sub> Exfoliated in Thermotropic Liquid Crystals. , 2021, 3, 704-712. | | 9 |
| 123 | 100th Anniversary of Macromolecular Science Viewpoint: Opportunities for Liquid Crystal Polymers in Nanopatterning and Beyond. ACS Macro Letters, 2021, 10, 945-957. | 2.3 | 9 |
| 124 | Nanoscale Thickness Control of Nanoporous Films Derived from Directionally Photopolymerized Mesophases. Advanced Materials Interfaces, 2021, 8, 2001977. | 1.9 | 9 |
| 125 | High-throughput morphology mapping of self-assembling ternary polymer blends. RSC Advances, 2020, 10, 42529-42541. | 1.7 | 9 |
| 126 | Continuous and patterned deposition of functional block copolymer thin films using electrospray. MRS Communications, 2015, 5, 235-242. | 0.8 | 8 |

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| 127 | Soft robotic constrictor for in vitro modeling of dynamic tissue compression. Scientific Reports, 2021, 11, 16478. | 1.6 | 7 |
| 128 | Simple production of cellulose nanofibril microcapsules and the rheology of their suspensions. Soft Matter, 2021, 17, 4517-4524. | 1.2 | 7 |
| 129 | Synthesis of High Etch Contrast Poly(3-hydroxystyrene)-Based Triblock Copolymers and Self-Assembly of Sub-5 nm Features. Macromolecules, 2021, 54, 9542-9550. | 2.2 | 7 |
| 130 | Synthesis and suspension rheology of titania nanoparticles grafted with zwitterionic polymer brushes. Journal of Colloid and Interface Science, 2012, 386, 135-140. | 5.0 | 6 |
| 131 | Effects of Labile Mesogens on the Morphology of Liquid Crystalline Block Copolymers in Thin Films. Macromolecules, 2021, 54, 3223-3231. | 2.2 | 6 |
| 132 | Two-Photon Laser Microprinting of Highly Ordered Nanoporous Materials Based on Hexagonal Columnar Liquid Crystals. ACS Applied Materials & Interfaces, 2022, 14, 33746-33755. | 4.0 | 6 |
| 133 | Shaping and Locomotion of Soft Robots Using Filament Actuators Made from Liquid Crystal Elastomerâ€“Carbon Nanotube Composites. Advanced Intelligent Systems, 2020, 2, 2070063. | 3.3 | 5 |
| 134 | Self-assembly of supramolecular complexes of charged conjugated polymers and imidazolium-based ionic liquid crystals. Giant, 2022, 9, 100088. | 2.5 | 5 |
| 135 | Rapid fabrication of ZnO nanorod arrays with controlled spacing by micelle-templated solvothermal growth. Nanoscale, 2016, 8, 149-156. | 2.8 | 4 |
| 136 | Yielding and bifurcated aging in nanofibrillar networks. Physical Review Materials, 2020, 4, . | 0.9 | 4 |
| 137 | Correlation of droplet elasticity and volume fraction effects on emulsion dynamics. Soft Matter, 2020, 16, 2574-2580. | 1.2 | 3 |
| 138 | Three-Dimensional Compatible Sacrificial Nanoimprint Lithography for Tuning the Wettability of Thermoplastic Materials. Journal of Micro and Nano-Manufacturing, 2018, 6, . | 0.8 | 2 |
| 139 | Plasmonic Sensing from Vertical Au-Coated ZnO Nanorod Arrays Templated by Block Copolymers. ACS Applied Nano Materials, 2021, 4, 8556-8563. | 2.4 | 2 |
| 140 | Dynamics of Transient Vorticity-Aligned Structures and Internal Stresses in Shear Thickening Colloidal Gels. AIP Conference Proceedings, 2008, , . | 0.3 | 1 |
| 141 | Electrocatalysts: Guided Evolution of Bulk Metallic Glass Nanostructures: A Platform for Designing 3D Electrocatalytic Surfaces (Adv. Mater. 10/2016). Advanced Materials, 2016, 28, 1902-1902. | 11.1 | 0 |
| 142 | Domain Orientation in Bulk Block Copolymers. , 2014, , 1-10. | | 0 |