List of Publications by Year in descending order

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DALLI RDALINI

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Force-induced activation of covalent bonds in mechanoresponsive polymeric materials. Nature, 2009, 459, 68-72. | 13.7 | 1,446 |
| 2 | Nanoscale thermal transport. II. 2003–2012. Applied Physics Reviews, 2014, 1, 011305. | 5.5 | 1,277 |
| 3 | Three-dimensional bicontinuous ultrafast-charge and -discharge bulk battery electrodes. Nature Nanotechnology, 2011, 6, 277-281. | 15.6 | 1,006 |
| 4 | Bioresorbable silicon electronic sensors for the brain. Nature, 2016, 530, 71-76. | 13.7 | 778 |
| 5 | Selfâ€Healing Polymer Coatings. Advanced Materials, 2009, 21, 645-649. | 11.1 | 673 |
| 6 | Semiconducting superlattices templated by molecular assemblies. Nature, 1996, 380, 325-328. | 13.7 | 525 |
| 7 | High-power lithium ion microbatteries from interdigitated three-dimensional bicontinuous nanoporous electrodes. Nature Communications, 2013, 4, 1732. | 5.8 | 513 |
| 8 | Electrochemically grown photonic crystals. Nature, 1999, 402, 603-604. | 13.7 | 436 |
| 9 | Fabricating complex three-dimensional nanostructures with high-resolution conformable phase masks. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12428-12433. | 3.3 | 280 |
| 10 | Embedded cavities and waveguides in three-dimensional silicon photonic crystals. Nature Photonics, 2008, 2, 52-56. | 15.6 | 267 |
| 11 | Conductivity and lithiophilicity gradients guide lithium deposition to mitigate short circuits. Nature Communications, 2019, 10, 1896. | 5.8 | 256 |
| 12 | Three-Dimensional Metal Scaffold Supported Bicontinuous Silicon Battery Anodes. Nano Letters, 2012, 12, 2778-2783. | 4.5 | 254 |
| 13 | Large-area MRI-compatible epidermal electronic interfaces for prosthetic control and cognitive monitoring. Nature Biomedical Engineering, 2019, 3, 194-205. | 11.6 | 253 |
| 14 | Thermal conductivity of nanoparticle suspensions. Journal of Applied Physics, 2006, 99, 084308. | 1.1 | 251 |
| 15 | Cavity-enhanced localized plasmon resonance sensing. Applied Physics Letters, 2010, 97, . | 1.5 | 242 |
| 16 | Force-Induced Redistribution of a Chemical Equilibrium. Journal of the American Chemical Society, 2010, 132, 16107-16111. | 6.6 | 234 |
| 17 | Glucose-Sensitive Inverse Opal Hydrogels:Â Analysis of Optical Diffraction Response. Langmuir, 2004, 20, 3096-3106. | 1.6 | 232 |
| 18 | Improved synthesis of Ti ₃ C ₂ T _x MXenes resulting in exceptional electrical conductivity, high synthesis yield, and enhanced capacitance. Nanoscale, 2021, 13, 3572-3580. | 2.8 | 228 |

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| 19 | Three-dimensional self-assembled photonic crystals with high temperature stability for thermal emission modification. Nature Communications, 2013, 4, 2630. | 5.8 | 204 |
| 20 | Holographic patterning of high-performance on-chip 3D lithium-ion microbatteries. Proceedings of the United States of America, 2015, 112, 6573-6578. | 3.3 | 179 |
| 21 | Hydrothermal Synthesis of Er-Doped Luminescent TiO2Nanoparticles. Chemistry of Materials, 2003, 15, 1256-1263. | 3.2 | 174 |
| 22 | Hydrogel-Based Glucose Sensors: Effects of Phenylboronic Acid Chemical Structure on Response. Chemistry of Materials, 2013, 25, 3239-3250. | 3.2 | 167 |
| 23 | Multidimensional Architectures for Functional Optical Devices. Advanced Materials, 2010, 22, 1084-1101. | 11.1 | 166 |
| 24 | Selective Wettingâ€Induced Microâ€Electrode Patterning for Flexible Microâ€Supercapacitors. Advanced Materials, 2014, 26, 5108-5112. | 11.1 | 146 |
| 25 | Interlayer Lithium Plating in Au Nanoparticles Pillared Reduced Graphene Oxide for Lithium Metal Anodes. Advanced Functional Materials, 2018, 28, 1804133. | 7.8 | 142 |
| 26 | Electrochemically tunable thermal conductivity of lithium cobalt oxide. Nature Communications, 2014, 5, 4035. | 5.8 | 137 |
| 27 | Protein Adsorption on Poly(<i>N</i> -isopropylacrylamide) Brushes: Dependence on Grafting Density and Chain Collapse. Langmuir, 2011, 27, 8810-8818. | 1.6 | 134 |
| 28 | AuPd Metal Nanoparticles as Probes of Nanoscale Thermal Transport in Aqueous Solution. Journal of Physical Chemistry B, 2004, 108, 18870-18875. | 1.2 | 132 |
| 29 | Three-dimensional mesostructures as high-temperature growth templates, electronic cellular scaffolds, and self-propelled microrobots. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9455-E9464. | 3.3 | 129 |
| 30 | Exploiting Force Sensitive Spiropyrans as Molecular Level Probes. Macromolecules, 2013, 46, 3746-3752. | 2.2 | 123 |
| 31 | High energy flexible supercapacitors formed via bottom-up infilling of gel electrolytes into thick porous electrodes. Nature Communications, 2018, 9, 2578. | 5.8 | 121 |
| 32 | Mechanically and Chemically Robust Sandwich-Structured C@Si@C Nanotube Array Li-Ion Battery Anodes. ACS Nano, 2015, 9, 1985-1994. | 7.3 | 119 |
| 33 | Epitaxial growth of three-dimensionally architectured optoelectronic devices. Nature Materials, 2011, 10, 676-681. | 13.3 | 113 |
| 34 | Extremely Durable, Flexible Supercapacitors with Greatly Improved Performance at High Temperatures. ACS Nano, 2015, 9, 8569-8577. | 7.3 | 113 |
| 35 | Revealing the role of the cathode–electrolyte interface on solid-state batteries. Nature Materials, 2021, 20, 1392-1400 | 13.3 | 106 |
| 36 | Epitaxial Growth of High Dielectric Contrast Three-Dimensional Photonic Crystals. Advanced Materials, 2001, 13, 721-724. | 11.1 | 102 |

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| 37 | Nanoparticle-Mediated Epitaxial Assembly of Colloidal Crystals on Patterned Substrates. Langmuir, 2004, 20, 5262-5270. | 1.6 | 100 |
| 38 | Light-triggered thermal conductivity switching in azobenzene polymers. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5973-5978. | 3.3 | 99 |
| 39 | Microcapsules containing suspensions of carbon nanotubes. Journal of Materials Chemistry, 2009, 19, 6093. | 6.7 | 98 |
| 40 | Optical diffraction and high-energy features in three-dimensional photonic crystals. Physical Review B, 2005, 71, . | 1.1 | 96 |
| 41 | Solvent Swelling Activation of a Mechanophore in a Polymer Network. Macromolecules, 2014, 47, 2690-2694. | 2.2 | 96 |
| 42 | Fabrication of Threeâ€Dimensional Photonic Crystals Using Multibeam Interference Lithography and Electrodeposition. Advanced Materials, 2009, 21, 3012-3015. | 11.1 | 94 |
| 43 | 3D Scaffolded Nickel–Tin Liâ€lon Anodes with Enhanced Cyclability. Advanced Materials, 2016, 28, 742-747. | 11.1 | 90 |
| 44 | Synergistically Enhanced Electrochemical Performance of Hierarchical MoS ₂ /TiNb ₂ O ₇ Hetero-nanostructures as Anode Materials for Li-Ion Batteries. ACS Nano, 2017, 11, 1026-1033. | 7.3 | 89 |
| 45 | Interfacial thermal conductance in spun-cast polymer films and polymer brushes. Applied Physics Letters, 2010, 97, . | 1.5 | 87 |
| 46 | Graphene Sandwiched Mesostructured Liâ€lon Battery Electrodes. Advanced Materials, 2016, 28, 7696-7702. | 11.1 | 86 |
| 47 | Electrochemical Fabrication of 3D Microperiodic Porous Materials. Advanced Materials, 2001, 13, 482-485. | 11.1 | 85 |
| 48 | Functionalized Hydrogel on Plasmonic Nanoantennas for Noninvasive Glucose Sensing. ACS Photonics, 2015, 2, 475-480. | 3.2 | 85 |
| 49 | High and low thermal conductivity of amorphous macromolecules. Physical Review B, 2017, 95, . | 1.1 | 85 |
| 50 | Thermally Functional Liquid Crystal Networks by Magnetic Field Driven Molecular Orientation. ACS Macro Letters, 2016, 5, 955-960. | 2.3 | 84 |
| 51 | Soft, skin-interfaced microfluidic systems with integrated immunoassays, fluorometric sensors, and impedance measurement capabilities. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27906-27915. | 3.3 | 84 |
| 52 | Carboxyl functionalization of ultrasmall luminescent silicon nanoparticles through thermal hydrosilylation. Journal of Materials Chemistry, 2006, 16, 1421. | 6.7 | 80 |
| 53 | Unveiling Surface Redox Charge Storage of Interacting Two-Dimensional Heteronanosheets in Hierarchical Architectures. Nano Letters, 2015, 15, 2269-2277. | 4.5 | 80 |
| 54 | Electrodeposited 3D Tungsten Photonic Crystals with Enhanced Thermal Stability. Chemistry of Materials, 2011, 23, 4783-4788. | 3.2 | 77 |

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| 55 | Lyotropic Liquid Crystals as Nanoreactors for Nanoparticle Synthesis. Chemistry of Materials, 2004, 16, 2201-2207. | 3.2 | 76 |

Protein Adsorption Modes Determine Reversible Cell Attachment on Poly($\langle i \rangle N\hat{a} \in \langle i \rangle$ isopropyl) Tj ETQq0 0 0 rgBT /Qyerlock 10 Tf 50 70

| 57 | Three-Dimensionally Mesostructured Fe ₂ O ₃ Electrodes with Good Rate Performance and Reduced Voltage Hysteresis. Chemistry of Materials, 2015, 27, 2803-2811. | 3.2 | 74 |
|----|--|------|----|
| 58 | Quasi-ballistic Electronic Thermal Conduction in Metal Inverse Opals. Nano Letters, 2016, 16, 2754-2761. | 4.5 | 72 |
| 59 | Transparent Selfâ€Healing Polymers Based on Encapsulated Plasticizers in a Thermoplastic Matrix. Advanced Functional Materials, 2011, 21, 4705-4711. | 7.8 | 71 |
| 60 | Reduced Graphene Oxide/Lil Composite Lithium Ion Battery Cathodes. Nano Letters, 2017, 17, 6893-6899. | 4.5 | 67 |
| 61 | Soft, skin-interfaced microfluidic systems with integrated enzymatic assays for measuring the concentration of ammonia and ethanol in sweat. Lab on A Chip, 2020, 20, 84-92. | 3.1 | 67 |
| 62 | Direct laser writing of volumetric gradient index lenses and waveguides. Light: Science and Applications, 2020, 9, 196. | 7.7 | 66 |
| 63 | Highâ€Performance Mesostructured Organic Hybrid Pseudocapacitor Electrodes. Advanced Functional Materials, 2016, 26, 903-910. | 7.8 | 63 |
| 64 | Interrelationship between Densification, Crystallization, and Chemical Evolution in Sol-Gel Titania Thin Films. Journal of the American Ceramic Society, 1994, 77, 1592-1596. | 1.9 | 62 |
| 65 | High Volumetric Capacity Three-Dimensionally Sphere-Caged Secondary Battery Anodes. Nano Letters, 2016, 16, 4501-4507. | 4.5 | 62 |
| 66 | Electroplating lithium transition metal oxides. Science Advances, 2017, 3, e1602427. | 4.7 | 62 |
| 67 | Thin Film Condensation on Nanostructured Surfaces. Advanced Functional Materials, 2018, 28, 1707000. | 7.8 | 60 |
| 68 | Improved Performance in FeF ₂ Conversion Cathodes through Use of a Conductive 3D Scaffold and Al ₂ O ₃ ALD Coating. Advanced Functional Materials, 2017, 27, 1702783. | 7.8 | 55 |
| 69 | Flexible Transient Optical Waveguides and Surfaceâ€Wave Biosensors Constructed from Monocrystalline Silicon. Advanced Materials, 2018, 30, e1801584. | 11.1 | 55 |
| 70 | Selfâ€Folded Gripperâ€Like Architectures from Stimuliâ€Responsive Bilayers. Advanced Materials, 2018, 30, e1801669. | 11.1 | 53 |
| 71 | Three dimensional silicon photonic crystals fabricated by two photon phase mask lithography. Applied Physics Letters, 2009, 94, . | 1.5 | 52 |
| 72 | Materials Chemistry in 3D Templates for Functional Photonics. Chemistry of Materials, 2014, 26, 277-286. | 3.2 | 49 |

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| 73 | Three-Dimensional Single Gyroid Photonic Crystals with a Mid-Infrared Bandgap. ACS Photonics, 2016, 3, 1131-1137. | 3.2 | 49 |
| 74 | Hydrothermal Fabrication of Threeâ€Dimensional Secondary Battery Anodes. Advanced Materials, 2014, 26, 7096-7101. | 11.1 | 48 |
| 75 | Rational Design of Hierarchically Openâ€Porous Spherical Hybrid Architectures for Lithiumâ€ŀon Batteries. Advanced Energy Materials, 2019, 9, 1802816. | 10.2 | 48 |
| 76 | Triangular Elastomeric Stamps for Optical Applications: Nearâ€Field Phase Shift Photolithography, 3D Proximity Field Patterning, Embossed Antireflective Coatings, and SERS Sensing. Advanced Functional Materials, 2012, 22, 2927-2938. | 7.8 | 47 |
| 77 | High Volumetric and Gravimetric Capacity Electrodeposited Mesostructured Sb ₂ O ₃ Sodium Ion Battery Anodes. Small, 2019, 15, e1900258. | 5.2 | 46 |
| 78 | Counterion Effects in Liquid Crystal Templating of Nanostructured CdS. Chemistry of Materials, 1997, 9, 1495-1498. | 3.2 | 45 |
| 79 | Millimeter-scale liquid metal droplet thermal switch. Applied Physics Letters, 2018, 112, . | 1.5 | 44 |
| 80 | Linear and nonlinear rheology and structural relaxation in dense glassy and jammed soft repulsive pNIPAM microgel suspensions. Soft Matter, 2019, 15, 1038-1052. | 1.2 | 44 |
| 81 | Enhanced Electrical and Mechanical Properties of Chemically Cross-Linked Carbon-Nanotube-Based Fibers and Their Application in High-Performance Supercapacitors. ACS Nano, 2020, 14, 632-639. | 7.3 | 44 |
| 82 | Effects of surface termination on the band gap of ultrabrightSi29nanoparticles: Experiments and computational models. Physical Review B, 2002, 65, . | 1.1 | 43 |
| 83 | Acid-Triggered, Acid-Generating, and Self-Amplifying Degradable Polymers. Journal of the American Chemical Society, 2019, 141, 2838-2842. | 6.6 | 43 |
| 84 | Highâ€Performance Packaged 3D Lithiumâ€ion Microbatteries Fabricated Using Imprint Lithography. Advanced Materials, 2021, 33, e2006229. | 11.1 | 43 |
| 85 | Programming structure into 3D nanomaterials. Materials Today, 2009, 12, 28-35. | 8.3 | 41 |
| 86 | Highâ€Operatingâ€Temperature Direct Ink Writing of Mesoscale Eutectic Architectures. Advanced Materials, 2017, 29, 1604778. | 11.1 | 41 |
| 87 | Effects of Particle Size on Mg ²⁺ Ion Intercalation into λ-MnO ₂ Cathode Materials. Nano Letters, 2019, 19, 4712-4720. | 4.5 | 41 |
| 88 | Transfer-Printing of Tunable Porous Silicon Microcavities with Embedded Emitters. ACS Photonics, 2014, 1, 1144-1150. | 3.2 | 39 |
| 89 | Electrode architectures for high capacity multivalent conversion compounds: iron (ii and iii) fluoride. RSC Advances, 2014, 4, 6730. | 1.7 | 39 |
| 90 | Heat capacity measurements of two-dimensional self-assembled hexadecanethiol monolayers on polycrystalline gold. Applied Physics Letters, 2004, 84, 5198-5200. | 1.5 | 38 |

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| 91 | Molecular Variables in the Self-Assembly of Supramolecular Nanostructures. Macromolecules, 2000, 33, 3550-3556. | 2.2 | 37 |
| 92 | Coherent Phonon-Grain Boundary Scattering in Silicon Inverse Opals. Nano Letters, 2013, 13, 618-624. | 4.5 | 36 |
| 93 | Self-Assembly of Monodisperse Starburst Carbon Spheres into Hierarchically Organized Nanostructured Supercapacitor Electrodes. ACS Applied Materials & Interfaces, 2015, 7, 9128-9133. | 4.0 | 36 |
| 94 | High strength metallic wood from nanostructured nickel inverse opal materials. Scientific Reports, 2019, 9, 719. | 1.6 | 36 |
| 95 | Thermal Conductivity of Graphite Thin Films Grown by Low Temperature Chemical Vapor Deposition on Ni (111). Advanced Materials Interfaces, 2016, 3, 1600234. | 1.9 | 35 |
| 96 | Monolithic mtesla-level magnetic induction by self-rolled-up membrane technology. Science Advances, 2020, 6, eaay4508. | 4.7 | 35 |
| 97 | Flexible and Wearable Fiber Microsupercapacitors Based on Carbon Nanotube–Agarose Gel Composite Electrodes. ACS Applied Materials & Interfaces, 2017, 9, 19925-19933. | 4.0 | 34 |
| 98 | Biomimetic and Biologically Compliant Soft Architectures via 3D and 4D Assembly Methods: A Perspective. Advanced Materials, 2022, 34, e2108391. | 11.1 | 34 |
| 99 | Integration of high capacity materials into interdigitated mesostructured electrodes for high energy and high power density primary microbatteries. Journal of Power Sources, 2016, 315, 308-315. | 4.0 | 32 |
| 100 | Cationically Substituted Bi _{0.7} Fe _{0.3} OCI Nanosheets as Li Ion Battery Anodes. ACS Applied Materials & Interfaces, 2017, 9, 14187-14196. | 4.0 | 32 |
| 101 | A composite phase change material thermal buffer based on porous metal foam and low-melting-temperature metal alloy. Applied Physics Letters, 2020, 116, . | 1.5 | 31 |
| 102 | Holographically fabricated photonic crystals with large reflectance. Applied Physics Letters, 2007, 91, 241103. | 1.5 | 30 |
| 103 | In Operando Strain Measurement of Bicontinuous Silicon oated Nickel Inverse Opal Anodes for Liâ€lon Batteries. Advanced Energy Materials, 2015, 5, 1500466. | 10.2 | 30 |
| 104 | Autonomic Molecular Transport by Polymer Films Containing Programmed Chemical Potential Gradients. Journal of the American Chemical Society, 2015, 137, 5066-5073. | 6.6 | 30 |
| 105 | Porous Silicon Gradient Refractive Index Micro-Optics. Nano Letters, 2016, 16, 7402-7407. | 4.5 | 30 |
| 106 | Tunable Visibly Transparent Optics Derived from Porous Silicon. ACS Photonics, 2017, 4, 909-914. | 3.2 | 30 |
| 107 | Tin Sulfideâ€Based Nanohybrid for Highâ€Performance Anode of Sodiumâ€Ion Batteries. Small, 2017, 13, 1700767. | 5.2 | 30 |
| 108 | Phase Change Material Heat Sink for Transient Cooling of High-Power Devices. International Journal of Heat and Mass Transfer, 2021, 170, 121033. | 2.5 | 30 |

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| 109 | Resonant Mode Engineering of Photonic Crystal Sensors Clad with Ultralow Refractive Index Porous Silicon Dioxide. Advanced Optical Materials, 2017, 5, 1700605. | 3.6 | 29 |
| 110 | Templateâ€Directed Directionally Solidified 3D Mesostructured AgCl–KCl Eutectic Photonic Crystals. Advanced Materials, 2015, 27, 4551-4559. | 11.1 | 28 |
| 111 | Programmable shape transformation of elastic spherical domes. Soft Matter, 2016, 12, 6184-6195. | 1.2 | 28 |
| 112 | Enhanced cycle stability of iron(II, III) oxide nanoparticles encapsulated with nitrogen-doped carbon and graphene frameworks for lithium battery anodes. Carbon, 2018, 129, 621-630. | 5.4 | 28 |
| 113 | An Integrated Liquid Metal Thermal Switch for Active Thermal Management of Electronics. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 2341-2351. | 1.4 | 28 |
| 114 | Modulating Noncovalent Cross-links with Molecular Switches. Journal of the American Chemical Society, 2019, 141, 3597-3604. | 6.6 | 28 |
| 115 | Soft Three-Dimensional Microscale Vibratory Platforms for Characterization of Nano-Thin Polymer Films. ACS Nano, 2019, 13, 449-457. | 7.3 | 28 |
| 116 | Kirigamiâ€Inspired Selfâ€Assembly of 3D Structures. Advanced Functional Materials, 2020, 30, 1909888. | 7.8 | 28 |
| 117 | Heteroepitaxial Growth of GaN on Unconventional Templates and Layerâ€Transfer Techniques for Largeâ€Area, Flexible/Stretchable Lightâ€Emitting Diodes. Advanced Optical Materials, 2016, 4, 505-521. | 3.6 | 27 |
| 118 | Functional materials and devices by self-assembly. MRS Bulletin, 2020, 45, 799-806. | 1.7 | 27 |
| 119 | 3D periodic polyimide nano-networks for ultrahigh-rate and sustainable energy storage. Energy and Environmental Science, 2021, 14, 5894-5902. | 15.6 | 26 |
| 120 | Colloidal Particles that Rapidly Change Shape via Elastic Instabilities. Small, 2015, 11, 6051-6057. | 5.2 | 24 |
| 121 | Good Solidâ€State Electrolytes Have Low, Glassâ€Like Thermal Conductivity. Small, 2021, 17, e2101693. | 5.2 | 23 |
| 122 | Hole-mask colloidal nanolithography combined with tilted-angle-rotation evaporation: A versatile method for fabrication of low-cost and large-area complex plasmonic nanostructures and metamaterials. Beilstein Journal of Nanotechnology, 2014, 5, 577-586. | 1.5 | 22 |
| 123 | Metallic 1T phase MoS2/MnO composites with improved cyclability for lithium-ion battery anodes. Journal of Alloys and Compounds, 2019, 796, 25-32. | 2.8 | 22 |
| 124 | Complex three-dimensional conformal surfaces formed by atomic layer deposition: computation and experimental verification. Journal of Materials Chemistry, 2009, 19, 9126. | 6.7 | 21 |
| 125 | Reversible Conversion Reactions and Small First Cycle Irreversible Capacity Loss in Metal Sulfideâ€Based Electrodes Enabled by Solid Electrolytes. Advanced Functional Materials, 2019, 29, 1901719. | 7.8 | 21 |
| 126 | Archimedean lattices emerge in template-directed eutectic solidification. Nature, 2020, 577, 355-358. | 13.7 | 21 |

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| 127 | A Lipid-Inspired Highly Adhesive Interface for Durable Superhydrophobicity in Wet Environments and Stable Jumping Droplet Condensation. ACS Nano, 2022, 16, 4251-4262. | 7.3 | 21 |
| 128 | Deterministic Design of Chemistry and Mesostructure in Li-Ion Battery Electrodes. ACS Nano, 2018, 12, 3060-3064. | 7.3 | 20 |
| 129 | Colloidal Metal–Organic Framework Hexapods Prepared from Postsynthesis Etching with Enhanced Catalytic Activity and Rollable Packing. ACS Applied Materials & Interfaces, 2018, 10, 40990-40995. | 4.0 | 20 |
| 130 | A Lamellar Yolk–Shell Lithium‣ulfur Battery Cathode Displaying Ultralong Cycling Life, High Rate Performance, and Temperature Tolerance. Advanced Science, 2022, 9, e2103517. | 5.6 | 20 |
| 131 | Are artificial opals non-close-packed fcc structures?. Applied Physics Letters, 2007, 90, 241905. | 1.5 | 19 |
| 132 | Repetitive Holeâ€Mask Colloidal Lithography for the Fabrication of Largeâ€Area Lowâ€Cost Plasmonic Multishape Singleâ€Layer Metasurfaces. Advanced Optical Materials, 2015, 3, 680-686. | 3.6 | 19 |
| 133 | Templateâ€Directed Solidification of Eutectic Optical Materials. Advanced Optical Materials, 2018, 6, 1800071. | 3.6 | 19 |
| 134 | A programmable soft chemo-mechanical actuator exploiting a catalyzed photochemical water-oxidation reaction. Soft Matter, 2017, 13, 7312-7317. | 1.2 | 18 |
| 135 | Tuning coherent radiative thermal conductance in multilayer photonic crystals. Applied Physics Letters, 2008, 92, . | 1.5 | 17 |
| 136 | Epitaxial Growth of Three-Dimensionally Mesostructured Single-Crystalline Cu ₂ 0 via Templated Electrodeposition. Chemistry of Materials, 2014, 26, 7051-7058. | 3.2 | 17 |
| 137 | Micromechanical devices with controllable stiffness fabricated from regular 3D porous materials. Journal of Micromechanics and Microengineering, 2014, 24, 105006. | 1.5 | 17 |
| 138 | A Nearly Packagingâ€Free Design Paradigm for Light, Powerful, and Energyâ€Dense Primary Microbatteries. Advanced Materials, 2021, 33, e2101760. | 11.1 | 17 |
| 139 | Enabling New Classes of Templated Materials through Mesoporous Carbon Colloidal Crystals. Advanced Optical Materials, 2013, 1, 300-304. | 3.6 | 16 |
| 140 | Tunable Antireflection Coating to Remove Indexâ€Matching Requirement for Interference Lithography. Advanced Optical Materials, 2018, 6, 1701049. | 3.6 | 16 |
| 141 | Synthesis and Formation Mechanism of All-Organic Block Copolymer-Directed Templating of Laser-Induced Crystalline Silicon Nanostructures. ACS Applied Materials & Interfaces, 2018, 10, 42777-42785. | 4.0 | 15 |
| 142 | Amplified Detection of Chemical Warfare Agents Using Two-Dimensional Chemical Potential Gradients. ACS Omega, 2018, 3, 14665-14670. | 1.6 | 15 |
| 143 | Thermoresponsive Stiffening with Microgel Particles in a Semiflexible Fibrin Network. Macromolecules, 2019, 52, 3029-3041. | 2.2 | 15 |
| 144 | Two-Dimensional Diffusion of Prodan on Self-Assembled Monolayers Studied by Fluorescence Recovery after Photobleaching. Journal of Physical Chemistry B, 2004, 108, 13764-13770. | 1.2 | 14 |

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| 145 | Facile fabrication of graphene composite microwires via drying-induced size reduction of hydrogel filaments. RSC Advances, 2014, 4, 20927-20931. | 1.7 | 14 |
| 146 | High Fullâ€Electrode Basis Capacity Templateâ€Free 3D Nanocomposite Secondary Battery Anodes. Small, 2015, 11, 6265-6271. | 5.2 | 14 |
| 147 | Dynamic Gradient Directed Molecular Transport and Concentration in Hydrogel Films. Angewandte Chemie - International Edition, 2017, 56, 5001-5006. | 7.2 | 14 |
| 148 | Electrodeposited high strength, thermally stable spectrally selective rhenium nickel inverse opals. Nanoscale, 2017, 9, 11187-11194. | 2.8 | 14 |
| 149 | Carbon-Free, High-Capacity and Long Cycle Life 1D–2D NiMoO ₄ Nanowires/Metallic 1T MoS ₂ Composite Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2019, 11, 44593-44600. | 4.0 | 14 |
| 150 | Reconfigurable nanoscale soft materials. Current Opinion in Solid State and Materials Science, 2019, 23, 41-49. | 5.6 | 14 |
| 151 | Polymer Composites Containing Phaseâ€Change Microcapsules Displaying Deep Undercooling Exhibit Thermal Historyâ€Dependent Mechanical Properties. Advanced Materials Technologies, 2020, 5, 2000286. | 3.0 | 14 |
| 152 | Polymer Brushes Patterned with Micrometer-Scale Chemical Gradients Using Laminar Co-Flow. ACS Applied Materials & Interfaces, 2014, 6, 14320-14326. | 4.0 | 13 |
| 153 | General Method for Forming Micrometer-Scale Lateral Chemical Gradients in Polymer Brushes. Chemistry of Materials, 2014, 26, 2678-2683. | 3.2 | 13 |
| 154 | Bifurcation of self-folded polygonal bilayers. Applied Physics Letters, 2017, 111, . | 1.5 | 13 |
| 155 | Flexible Binderâ€Free CuS/Polydopamineâ€Coated Carbon Cloth for High Voltage Supercapacitors. Energy Technology, 2018, 6, 1852-1858. | 1.8 | 12 |
| 156 | Force-Modulated Equilibria of Mechanophore–Metal Coordinate Bonds. Chemistry of Materials, 2020, 32, 3869-3878. | 3.2 | 12 |
| 157 | Ultralow Thermal Conductivity in Nanoporous Crystalline Fe ₃ O ₄ . Journal of Physical Chemistry C, 2021, 125, 6897-6908. | 1.5 | 12 |
| 158 | Linear and nonlinear viscoelasticity of concentrated thermoresponsive microgel suspensions. Journal of Colloid and Interface Science, 2021, 601, 886-898. | 5.0 | 12 |
| 159 | Enhanced emission from fcc fluorescent photonic crystals. Physical Review B, 2008, 77, . | 1.1 | 11 |
| 160 | 3D Holographic Photonic Crystals Containing Embedded Functional Features. Advanced Optical Materials, 2016, 4, 1533-1540. | 3.6 | 11 |
| 161 | Low-Temperature Hydrothermal Synthesis of Colloidal Crystal Templated Nanostructured Single-Crystalline ZnO. Chemistry of Materials, 2017, 29, 9734-9741. | 3.2 | 11 |
| 162 | Relationship between Water Desorption and Low-Temperature Densification of Colloidal Anatase Thin Films. Journal of the American Ceramic Society, 1993, 76, 2529-2533. | 1.9 | 10 |

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| 163 | Pack Aluminization Assisted Enhancement of Thermo-mechanical Properties in Nickel Inverse Opal Structures. Chemistry of Materials, 2018, 30, 1648-1654. | 3.2 | 10 |
| 164 | Optically anisotropic porous silicon microlenses with tunable refractive indexes and birefringence profiles. Optical Materials Express, 2020, 10, 868. | 1.6 | 10 |
| 165 | Epitaxial growth of three dimensionally structured III-V photonic crystal via hydride vapor phase epitaxy. Journal of Applied Physics, 2015, 118, 224303. | 1.1 | 9 |
| 166 | High Energy Density CNT/Nal Composite Cathodes for Sodiumâ€lon Batteries. Advanced Materials Interfaces, 2018, 5, 1801342. | 1.9 | 9 |
| 167 | Selective Autonomous Molecular Transport and Collection by Hydrogelâ€Embedded Supramolecular Chemical Gradients. Angewandte Chemie - International Edition, 2019, 58, 18165-18170. | 7.2 | 9 |
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