

Mingjun Huang

List of Publications by Year in descending order

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66
papers

3,098
citations

172457

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docs citations

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times ranked

2492
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | A Polymer Network Layer Containing Dually Anchored Ionic Liquids for Stable Lithium-Sulfur Batteries. <i>Macromolecular Rapid Communications</i> , 2023, 44, e2200246. | 3.9 | 2 |
| 2 | Expanding quasiperiodicity in soft matter: Supramolecular decagonal quasicrystals by binary giant molecule blends. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, . | 7.1 | 24 |
| 3 | Soft Alloys Constructed with Distinct Mesoatoms via Self-Sorting Assembly of Giant Shape Amphiphiles. <i>Angewandte Chemie - International Edition</i> , 2022, , . | 13.8 | 9 |
| 4 | Development of emergent ferroelectric nematic liquid crystals with highly fluorinated and rigid mesogens. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 11536-11543. | 2.8 | 26 |
| 5 | Stereoisomer effect on ferroelectric nematics: stabilization and phase behavior diversification. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8762-8766. | 5.5 | 8 |
| 6 | Unimolecular Nanoparticles toward More Precise Regulations of Self-Assembled Superlattices in Soft Matter. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 13.8 | 13 |
| 7 | General phase-structure relationship in polar rod-shaped liquid crystals: Importance of shape anisotropy and dipolar strength. <i>Giant</i> , 2022, 11, 100109. | 5.1 | 27 |
| 8 | Nontrivial phase matching in helielectric polarization helices: Universal phase matching theory, validation, and electric switching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, . | 7.1 | 13 |
| 9 | Geometry-Directed Self-Assembly of Polymeric Molecular Frameworks. <i>Angewandte Chemie</i> , 2021, 133, 2052-2057. | 2.0 | 1 |
| 10 | Geometry-Directed Self-Assembly of Polymeric Molecular Frameworks. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2024-2029. | 13.8 | 12 |
| 11 | RÅ¼cktitelbild: Geometry-Directed Self-Assembly of Polymeric Molecular Frameworks (<i>Angew. Chem.</i>) Tj ETQq1,1 0.784314 rgBT | 2.0 | 0 |
| 12 | Molecularly Tunable Polyanions for Single-Ion Conductors and Poly(solvate ionic liquids). <i>Chemistry of Materials</i> , 2021, 33, 524-534. | 6.7 | 53 |
| 13 | Ultra-high-voltage Ni-rich layered cathodes in practical Li metal batteries enabled by a sulfonamide-based electrolyte. <i>Nature Energy</i> , 2021, 6, 495-505. | 39.5 | 323 |
| 14 | Development of ferroelectric nematic fluids with giant- μ dielectricity and nonlinear optical properties. <i>Science Advances</i> , 2021, 7, . | 10.3 | 90 |
| 15 | Constituent Isomerism-Induced Quasicrystal and Frank-Kasper β Superlattices Based on Nanosized Shape Amphiphiles. <i>CCS Chemistry</i> , 2021, 3, 1434-1444. | 7.8 | 26 |
| 16 | Polar Liquid Crystalline Polymers Bearing Mesogenic Side Chains with Large Dipole Moment. <i>Macromolecules</i> , 2021, 54, 6045-6051. | 4.8 | 19 |
| 17 | Ordered Mesoporous Silica Pyrolyzed from Single-Source Self-Assembled Organic-Inorganic Giant Surfactants. <i>Journal of the American Chemical Society</i> , 2021, 143, 12935-12942. | 13.7 | 28 |
| 18 | Rational Route Toward the Frank-Kasper Z Phase: Effect of Precise Geometrical Tuning on the Supramolecular Assembly of Giant Shape Amphiphiles. <i>Macromolecules</i> , 2021, 54, 7777-7785. | 4.8 | 12 |

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|----|--|------|-----------|
| 19 | A Physically Cross-Linked Hydrogen-Bonded Polymeric Composite Binder for High-Performance Silicon Anodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 10886-10895. | 5.1 | 14 |
| 20 | Hybrid Hairy Platelets with Tunable Structures by Inclusion Crystallization of Polyferrocene-Containing Block Copolymers and Silicotungstic Acid. <i>ACS Macro Letters</i> , 2021, 10, 272-277. | 4.8 | 7 |
| 21 | Spontaneous helielectric nematic liquid crystals: Electric analog to helimagnets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 51 |
| 22 | How Far Can We Push the Rigid Oligomers/Polymers toward Ferroelectric Nematic Liquid Crystals?. <i>Journal of the American Chemical Society</i> , 2021, 143, 17857-17861. | 13.7 | 36 |
| 23 | Superlattice Engineering with Chemically Precise Molecular Building Blocks. <i>Journal of the American Chemical Society</i> , 2021, 143, 21613-21621. | 13.7 | 23 |
| 24 | FSI-inspired solvent and full fluorosulfonyl electrolyte for 4 V class lithium-metal batteries. <i>Energy and Environmental Science</i> , 2020, 13, 212-220. | 30.8 | 198 |
| 25 | Mesoatom alloys via self-sorting approach of giant molecules blends. <i>Giant</i> , 2020, 4, 100031. | 5.1 | 57 |
| 26 | Spherical Supramolecular Structures Constructed via Chemically Symmetric Perylene Bisimides: Beyond Columnar Assembly. <i>Angewandte Chemie</i> , 2020, 132, 18722-18730. | 2.0 | 9 |
| 27 | Hierarchical Structure with an Unusual Honeycomb Fullerene Scaffold by a Fullerene-Triphenylene Shape Amphiphile. <i>Macromolecules</i> , 2020, 53, 6056-6062. | 4.8 | 5 |
| 28 | Confinement Effect on the Surface of a Metal-Organic Polyhedron: Tunable Thermoresponsiveness and Water Permeability. <i>Macromolecules</i> , 2020, 53, 7178-7186. | 4.8 | 24 |
| 29 | Complex self-assembled lattices from simple polymer blends. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19618-19620. | 7.1 | 11 |
| 30 | Supramolecular Self-Assembly of Perylene Bisimide-Based Rigid Giant Tetrahedra. <i>ACS Nano</i> , 2020, 14, 8266-8275. | 14.6 | 19 |
| 31 | Spherical Supramolecular Structures Constructed via Chemically Symmetric Perylene Bisimides: Beyond Columnar Assembly. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18563-18571. | 13.8 | 28 |
| 32 | Inclusion Crystallization of Silicotungstic Acid and Poly(ethylene oxide) and Its Impact on Proton Conductivities. <i>Macromolecules</i> , 2020, 53, 1415-1421. | 4.8 | 13 |
| 33 | The role of architectural engineering in macromolecular self-assemblies via non-covalent interactions: A molecular LEGO approach. <i>Progress in Polymer Science</i> , 2020, 103, 101230. | 24.7 | 75 |
| 34 | Fine-tuned order-order phase transitions in giant surfactants via interfacial engineering. <i>Giant</i> , 2020, 1, 100002. | 5.1 | 17 |
| 35 | Design of S-Substituted Fluorinated Aryl Sulfonamide-Tagged (S-FAST) Anions To Enable New Solvate Ionic Liquids for Battery Applications. <i>Chemistry of Materials</i> , 2019, 31, 7558-7564. | 6.7 | 11 |
| 36 | Molecular Design of Stable Sulfamide- and Sulfonamide-Based Electrolytes for Aprotic Li-O ₂ Batteries. <i>CheM</i> , 2019, 5, 2630-2641. | 11.7 | 53 |

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|----|--|------|-----------|
| 37 | Transition Kinetics of Self-Assembled Supramolecular Dodecagonal Quasicrystal and Frank-Kasper \bar{J} Phases in AB _n Dendron-Like Giant Molecules. ACS Macro Letters, 2019, 8, 875-881. | 4.8 | 39 |
| 38 | PolyMOF Nanoparticles: Dual Roles of a Multivalent polyMOF Ligand in Size Control and Surface Functionalization. Angewandte Chemie, 2019, 131, 16829-16834. | 2.0 | 5 |
| 39 | PolyMOF Nanoparticles: Dual Roles of a Multivalent polyMOF Ligand in Size Control and Surface Functionalization. Angewandte Chemie - International Edition, 2019, 58, 16676-16681. | 13.8 | 44 |
| 40 | Identification of a Frank-Kasper Z phase from shape amphiphile self-assembly. Nature Chemistry, 2019, 11, 899-905. | 13.6 | 114 |
| 41 | Breaking Parallel Orientation of Rods via a Dendritic Architecture toward Diverse Supramolecular Structures. Angewandte Chemie - International Edition, 2019, 58, 11879-11885. | 13.8 | 28 |
| 42 | Breaking Parallel Orientation of Rods via a Dendritic Architecture toward Diverse Supramolecular Structures. Angewandte Chemie, 2019, 131, 12005-12011. | 2.0 | 10 |
| 43 | Highly Asymmetric Phase Behaviors of Polyhedral Oligomeric Silsesquioxane-Based Multiheaded Giant Surfactants. ACS Nano, 2018, 12, 1868-1877. | 14.6 | 54 |
| 44 | Frank-Kasper and related quasicrystal spherical phases in macromolecules. Science China Chemistry, 2018, 61, 33-45. | 8.2 | 39 |
| 45 | Fluorinated Aryl Sulfonimide Tagged (FAST) salts: modular synthesis and structure-property relationships for battery applications. Energy and Environmental Science, 2018, 11, 1326-1334. | 30.8 | 26 |
| 46 | Mapping a stable solvent structure landscape for aprotic Li-air battery organic electrolytes. Journal of Materials Chemistry A, 2017, 5, 23987-23998. | 10.3 | 33 |
| 47 | Sequence-Mandated, Distinct Assembly of Giant Molecules. Angewandte Chemie - International Edition, 2017, 56, 15014-15019. | 13.8 | 57 |
| 48 | Sequence-Mandated, Distinct Assembly of Giant Molecules. Angewandte Chemie, 2017, 129, 15210-15215. | 2.0 | 9 |
| 49 | Hierarchical Self-Organization of AB _n Dendron-like Molecules into a Supramolecular Lattice Sequence. ACS Central Science, 2017, 3, 860-867. | 11.3 | 69 |
| 50 | Topologically Directed Assemblies of Semiconducting Sphere-Rod Conjugates. Journal of the American Chemical Society, 2017, 139, 18616-18622. | 13.7 | 51 |
| 51 | Self-Assembly of Concentric Hexagons and Hierarchical Self-Assembly of Supramolecular Metal-Organic Nanoribbons at the Solid/Liquid Interface. Journal of the American Chemical Society, 2016, 138, 9258-9268. | 13.7 | 68 |
| 52 | Geometry induced sequence of nanoscale Frank-Kasper and quasicrystal mesophases in giant surfactants. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14195-14200. | 7.1 | 201 |
| 53 | Manipulation of Self-Assembled Nanostructure Dimensions in Molecular Janus Particles. ACS Nano, 2016, 10, 6585-6596. | 14.6 | 79 |
| 54 | Toward Controlled Hierarchical Heterogeneities in Giant Molecules with Precisely Arranged Nano Building Blocks. ACS Central Science, 2016, 2, 48-54. | 11.3 | 76 |

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|----|--|------|-----------|
| 55 | Hydrogen-Bonding-Induced Nanophase Separation in Giant Surfactants Consisting of Hydrophilic [60]Fullerene Tethered to Block Copolymers at Different Locations. <i>Macromolecules</i> , 2015, 48, 5496-5503. | 4.8 | 29 |
| 56 | Selective assemblies of giant tetrahedra via precisely controlled positional interactions. <i>Science</i> , 2015, 348, 424-428. | 12.6 | 338 |
| 57 | Giant surfactants based on molecular nanoparticles: Precise synthesis and solution self-assembly. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 1309-1325. | 2.1 | 69 |
| 58 | Clicking-fluorinated polyhedral oligomeric silsesquioxane onto polymers: a modular approach toward shape amphiphiles with fluorinated molecular clusters. <i>Polymer Chemistry</i> , 2014, 5, 3588. | 3.9 | 35 |
| 59 | Synthesis, structure, photo- and electro-luminescence of an iridium(III) complex with a novel carbazole functionalized I^2 -diketone ligand. <i>RSC Advances</i> , 2014, 4, 554-562. | 3.6 | 18 |
| 60 | Two-Dimensional Nanocrystals of Molecular Janus Particles. <i>Journal of the American Chemical Society</i> , 2014, 136, 10691-10699. | 13.7 | 117 |
| 61 | Sequential Click-Synthesis of Nano-Diamond-Ring-like Giant Surfactants Based on Functionalized Hydrophilic POSS/C ₆₀ Tethered with Cyclic Polystyrenes. <i>Macromolecules</i> , 2014, 47, 4160-4168. | 4.8 | 30 |
| 62 | Anionic synthesis of a clickable middle-chain azidefunctionalized polystyrene and its application in shape amphiphiles. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013, 31, 71-82. | 3.8 | 20 |
| 63 | Exploring shape amphiphiles beyond giant surfactants: molecular design and click synthesis. <i>Polymer Chemistry</i> , 2013, 4, 1056-1067. | 3.9 | 54 |
| 64 | Synthesis of fullerene-containing poly(ethylene oxide)- <i>block</i> -polystyrene as model shape amphiphiles with variable composition, diverse architecture, and high fullerene functionality. <i>Polymer Chemistry</i> , 2012, 3, 124-134. | 3.9 | 44 |
| 65 | Soft Alloys Constructed with Distinct Mesoatoms via Self-Sorting Assembly of Giant Shape Amphiphiles. <i>Angewandte Chemie</i> , 0, , . | 2.0 | 2 |
| 66 | Unimolecular Nanoparticles toward more Precise Regulations of Self-Assembled Superlattices in Soft Matter. <i>Angewandte Chemie</i> , 0, , . | 2.0 | 2 |