

Chih-Hao Hsu

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,939
citations

257450

24
h-index

243625

44
g-index

49
all docs

49
docs citations

49
times ranked

2441
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective assemblies of giant tetrahedra via precisely controlled positional interactions. <i>Science</i> , 2015, 348, 424-428.	12.6	338
2	Two-Dimensional Nanocrystals of Molecular Janus Particles. <i>Journal of the American Chemical Society</i> , 2014, 136, 10691-10699.	13.7	117
3	Identification of a Frank-Kasper Z phase from shape amphiphile self-assembly. <i>Nature Chemistry</i> , 2019, 11, 899-905.	13.6	114
4	Molecular Weight Effect on the Efficiency of Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12163-12167.	8.0	111
5	High-Performance Inverted Organic Photovoltaics with Over 1 μm Thick Active Layers. <i>Advanced Energy Materials</i> , 2014, 4, 1400378.	19.5	83
6	Manipulation of Self-Assembled Nanostructure Dimensions in Molecular Janus Particles. <i>ACS Nano</i> , 2016, 10, 6585-6596.	14.6	79
7	Pathway toward Large Two-Dimensional Hexagonally Patterned Colloidal Nanosheets in Solution. <i>Journal of the American Chemical Society</i> , 2015, 137, 1392-1395.	13.7	68
8	Asymmetric Organic-Inorganic Hybrid Giant Molecule: Cyanobiphenyl Monosubstituted Polyhedral Oligomeric Silsesquioxane Nanoparticles for Vertical Alignment of Liquid Crystals. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6300-6306.	3.1	59
9	Sequence-Mandated, Distinct Assembly of Giant Molecules. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15014-15019.	13.8	57
10	Supramolecular [60]Fullerene Liquid Crystals Formed By Self-Organized Two-Dimensional Crystals. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 114-117.	13.8	56
11	Tunable Affinity and Molecular Architecture Lead to Diverse Self-Assembled Supramolecular Structures in Thin Films. <i>ACS Nano</i> , 2016, 10, 919-929.	14.6	47
12	Asymmetric Giant "Bolaform-like" Surfactants: Precise Synthesis, Phase Diagram, and Crystallization-Induced Phase Separation. <i>Macromolecules</i> , 2014, 47, 4622-4633.	4.8	46
13	Molecular-Curvature-Induced Spontaneous Formation of Curved and Concentric Lamellae through Nucleation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2459-2463.	13.8	44
14	Direct Self-Assembly of a 2D and 3D Star of David. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5258-5262.	13.8	44
15	Self-Assembly of Fullerene-Based Janus Particles in Solution: Effects of Molecular Architecture and Solvent. <i>Chemistry - A European Journal</i> , 2014, 20, 11630-11635.	3.3	39
16	Frank-Kasper and related quasicrystal spherical phases in macromolecules. <i>Science China Chemistry</i> , 2018, 61, 33-45.	8.2	39
17	Self-Assembled Hierarchical Superstructures from the Benzene-1,3,5-Tricarboxamide Supramolecules for the Fabrication of Remote-Controllable Actuating and Rewritable Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9490-9498.	8.0	38
18	Self-Assembly Behavior of A-B Diblock and C-D Random Copolymer Mixtures in the Solution State through Mediated Hydrogen Bonding. <i>Langmuir</i> , 2008, 24, 7727-7734.	3.5	36

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19	Direct Self-Assembly of a 2D and 3D Star of David. <i>Angewandte Chemie</i> , 2017, 129, 5342-5346.	2.0	36
20	Chain Overcrowding Induced Phase Separation and Hierarchical Structure Formation in Fluorinated Polyhedral Oligomeric Silsesquioxane (FPOSS)-Based Giant Surfactants. <i>Macromolecules</i> , 2015, 48, 7172-7179.	4.8	35
21	Charge-Regulated Spontaneous, Reversible Self-Assembly of the Carboxylic Acid-Functionalized Hydrophilic Fullerene Macroanions in Dilute Solution. <i>Macromolecules</i> , 2015, 48, 725-731.	4.8	29
22	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
23	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
24	A supramolecular structure with an alternating arrangement of donors and acceptors constructed by a trans-di-C60-substituted Zn porphyrin derivative in the solid state. <i>Soft Matter</i> , 2011, 7, 6135.	2.7	26
25	Enhanced Forward Osmosis Desalination with a Hybrid Ionic Liquid/Hydrogel Thermoresponsive Draw Agent System. <i>ACS Omega</i> , 2019, 4, 4296-4303.	3.5	25
26	Micellization and the Surface Hydrophobicity of Amphiphilic Poly(vinylphenol)- <i>block</i> -Polystyrene Block Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 1823-1831.	2.2	22
27	Influences of Out-Of-Plane Lattice Alignment on the OFET Performance of TIPS-PEN Crystal Arrays. <i>Crystal Growth and Design</i> , 2016, 16, 6160-6166.	3.0	22
28	A reproducible mechano-responsive luminescent system based on a discotic crown ether derivative doped with fluorophores: taking advantage of the phase transition of a matrix. <i>Chemical Communications</i> , 2013, 49, 8872.	4.1	21
29	Thickness-Dependent Order-to-Order Transitions of Bolaform-like Giant Surfactant in Thin Films. <i>Macromolecules</i> , 2017, 50, 7282-7290.	4.8	19
30	Phase behaviour and Janus hierarchical supramolecular structures based on asymmetric tapered bisamide. <i>Soft Matter</i> , 2012, 8, 4767.	2.7	18
31	Hierarchical superstructures from a star-shaped molecule consisting of a cyclic oligosiloxane with cyanobiphenyl moieties. <i>Soft Matter</i> , 2015, 11, 58-68.	2.7	18
32	Facile Synthesis and Photophysical Properties of Sphere-Square Shape Amphiphiles Based on Porphyrin-[60]Fullerene Conjugates. <i>Chemistry - an Asian Journal</i> , 2013, 8, 947-955.	3.3	16
33	Crystal structure and molecular packing of an asymmetric giant amphiphile constructed by one C60 and two POSSs. <i>Polymer</i> , 2014, 55, 4514-4520.	3.8	16
34	Suppressed Crystallization of Rod-Disc Molecule by Surface Anchoring Confinement. <i>Crystal Growth and Design</i> , 2013, 13, 1309-1315.	3.0	15
35	Modularly Constructed Polyhedral Oligomeric Silsesquioxane-Based Giant Molecules for Unconventional Nanostructure Fabrication. <i>ACS Applied Nano Materials</i> , 2020, 3, 2952-2958.	5.0	15
36	Molecular-Curvature-Induced Spontaneous Formation of Curved and Concentric Lamellae through Nucleation. <i>Angewandte Chemie</i> , 2016, 128, 2505-2509.	2.0	14

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37	Molecular Level Insight into Enhanced n-Type Transport in Solution-Printed Hybrid Thermoelectrics. <i>Advanced Energy Materials</i> , 2019, 9, 1803469.	19.5	14
38	Discovery of hierarchical superstructures in block copolymers by integrating different liquid crystalline interactions. <i>Soft Matter</i> , 2017, 13, 2583-2589.	2.7	13
39	Butterfly-Shaped Diphenylpyrimidine Molecule: Tunable Photophysical Properties by Molecular Self-Assembly Pathways. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 887-892.	4.6	12
40	Pyrene-Based Asymmetric Supramolecule: Kinetically Controlled Polymorphic Superstructures by Molecular Self-Assembly. <i>Crystal Growth and Design</i> , 2017, 17, 1707-1715.	3.0	12
41	Design Rules for Self-Assembly of 2D Nanocrystal/Metal-Organic Framework Superstructures. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13172-13176.	13.8	11
42	Regular honeycomb porous polymer films based on amphiphilic block copolymer. <i>Desalination</i> , 2006, 200, 55-57.	8.2	9
43	Sequence-Mandated, Distinct Assembly of Giant Molecules. <i>Angewandte Chemie</i> , 2017, 129, 15210-15215.	2.0	9
44	Controlling the enthalpy-entropy competition in supramolecular fullerene liquid crystals by tuning the flexible chain length. <i>Chemical Communications</i> , 2017, 53, 8336-8339.	4.1	9
45	Sugar-alcohol@ZIF nanocomposites display suppressed phase-change temperatures. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23795-23802.	10.3	9
46	The Deconstruction of Supramolecular Structures Based on Modular Precise Macromolecules. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1700390.	2.2	6
47	Supramolecular Crystals and Crystallization with Nanosized Motifs of Giant Molecules. <i>Advances in Polymer Science</i> , 2016, , 183-213.	0.8	4
48	Hybrid Thermoelectrics: Molecular Level Insight into Enhanced n-Type Transport in Solution-Printed Hybrid Thermoelectrics (<i>Adv. Energy Mater.</i> 13/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970041.	19.5	0