

Hiroaki Sai

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61
papers

6,279
citations

31
h-index

64
g-index

64
ext. papers

6,933
ext. citations

12.5
avg, IF

5.44
L-index

#	Paper	IF	Citations
61	Photocatalytic Aqueous CO Reduction to CO and CH Sensitized by Ullazine Supramolecular Polymers.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	5
60	Supramolecular Copolymers of Peptides and Lipidated Peptides and Their Therapeutic Potential.. <i>Journal of the American Chemical Society</i> , 2022 , 144, 5562-5574	16.4	0
59	Growth of Extra-Large Chromophore Supramolecular Polymers for Enhanced Hydrogen Production. <i>Nano Letters</i> , 2021 , 21, 3745-3752	11.5	5
58	3D Printing of Supramolecular Polymer Hydrogels with Hierarchical Structure. <i>Small</i> , 2021 , 17, e200574311	11	24
57	Polymorphism and Optoelectronic Properties in Crystalline Supramolecular Polymers. <i>Chemistry of Materials</i> , 2021 , 33, 706-718	9.6	5
56	Hybrid gels bulk interfacial complexation of supramolecular polymers and polyelectrolytes. <i>Soft Matter</i> , 2021 , 17, 4949-4956	3.6	3
55	Supramolecular Interactions and Morphology of Self-Assembling Peptide Amphiphile Nanostructures. <i>Nano Letters</i> , 2021 , 21, 6146-6155	11.5	8
54	Crystalline Supramolecular Polymers: Dynamics, Chirality, and Function. <i>Israel Journal of Chemistry</i> , 2021 , 61, 873-883	3.4	
53	Fast and programmable locomotion of hydrogel-metal hybrids under light and magnetic fields. <i>Science Robotics</i> , 2020 , 5,	18.6	55
52	Imaging Supramolecular Morphogenesis with Confocal Laser Scanning Microscopy at Elevated Temperatures. <i>Nano Letters</i> , 2020 , 20, 4234-4241	11.5	4
51	Supramolecular-covalent hybrid polymers for light-activated mechanical actuation. <i>Nature Materials</i> , 2020 , 19, 900-909	27	78
50	Supramolecular Exchange among Assemblies of Opposite Charge Leads to Hierarchical Structures. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12216-12225	16.4	21
49	Tunable exciton binding energy in 2D hybrid layered perovskites through donor-acceptor interactions within the organic layer. <i>Nature Chemistry</i> , 2020 , 12, 672-682	17.6	46
48	Supramolecular and Hybrid Bonding Polymers. <i>Israel Journal of Chemistry</i> , 2020 , 60, 124-131	3.4	9
47	Chromophore amphiphileβpolyelectrolyte hybrid hydrogels for photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 158-168	13	17
46	Structure and chemical stability in perovskiteβpolymer hybrid photovoltaic materials. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1687-1699	13	40
45	Impact of charge switching stimuli on supramolecular perylene monoimide assemblies. <i>Chemical Science</i> , 2019 , 10, 5779-5786	9.4	14

44	Chromophore Dipole Directs Morphology and Photocatalytic Hydrogen Generation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4965-4968	16.4	29
43	Energy Storage: Oriented Multiwalled Organic π (OH) ₂ Nanotubes for Energy Storage (Adv. Funct. Mater. 3/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870019	15.6	1
42	Enhanced Out-of-Plane Conductivity and Photovoltaic Performance in n = 1 Layered Perovskites through Organic Cation Design. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7313-7323	16.4	161
41	Oriented Multiwalled Organic π (OH) ₂ Nanotubes for Energy Storage. <i>Advanced Functional Materials</i> , 2018 , 28, 1702320	15.6	23
40	Synthesis and Formation Mechanism of All-Organic Block Copolymer-Directed Templating of Laser-Induced Crystalline Silicon Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42777-42788	9.5	28
39	Crystal-Phase Transitions and Photocatalysis in Supramolecular Scaffolds. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6120-6127	16.4	43
38	Formation pathways of mesoporous silica nanoparticles with dodecagonal tiling. <i>Nature Communications</i> , 2017 , 8, 252	17.4	31
37	Formation of Periodically-Ordered Calcium Phosphate Nanostructures by Block Copolymer-Directed Self-Assembly. <i>Chemistry of Materials</i> , 2016 , 28, 838-847	9.6	10
36	Block copolymer self-assembly-directed synthesis of mesoporous gyroidal superconductors. <i>Science Advances</i> , 2016 , 2, e1501119	14.3	81
35	Stimuli-Responsive Shapeshifting Mesoporous Silica Nanoparticles. <i>Nano Letters</i> , 2016 , 16, 651-5	11.5	22
34	Controlling the coassembly of highly amphiphilic block copolymers with a hydrolytic sol by solvent exchange. <i>RSC Advances</i> , 2015 , 5, 22499-22502	3.7	4
33	Ordered mesoporous crystalline aluminas from self-assembly of ABC triblock terpolymer/butanol/alumina sols. <i>RSC Advances</i> , 2015 , 5, 49287-49294	3.7	12
32	Direct Crystallization Route to Methylammonium Lead Iodide Perovskite from an Ionic Liquid. <i>Chemistry of Materials</i> , 2015 , 27, 3197-3199	9.6	65
31	Ordered mesoporous titania from highly amphiphilic block copolymers: tuned solution conditions enable highly ordered morphologies and ultra-large mesopores. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11478-11492	13	31
30	Crystallization kinetics of organic-inorganic trihalide perovskites and the role of the lead anion in crystal growth. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2350-8	16.4	266
29	Hierarchically Porous Materials from Block Copolymers. <i>Chemistry of Materials</i> , 2014 , 26, 339-347	9.6	88
28	Monolithic gyroidal mesoporous mixed titanium-niobium nitrides. <i>ACS Nano</i> , 2014 , 8, 8217-23	16.7	40
27	Linking experiment and theory for three-dimensional networked binary metal nanoparticle-triblock terpolymer superstructures. <i>Nature Communications</i> , 2014 , 5, 3247	17.4	51

26	Ordered nanostructured ceramic-metal composites through multifunctional block copolymer-metal nanoparticle self-assembly. <i>Journal of Sol-Gel Science and Technology</i> , 2014 , 70, 286-291	3.3	3
25	Water-Based Synthesis of Ultrasmall PEGylated Gold-Silica Core-Shell Nanoparticles with Long-Term Stability. <i>Chemistry of Materials</i> , 2014 , 26, 5201-5207	9.6	18
24	Influence of Thermal Processing Protocol upon the Crystallization and Photovoltaic Performance of Organic-Inorganic Lead Trihalide Perovskites. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17171-17177	3.8	214
23	Thermally induced structural evolution and performance of mesoporous block copolymer-directed alumina perovskite solar cells. <i>ACS Nano</i> , 2014 , 8, 4730-9	16.7	241
22	Impact of the organic halide salt on final perovskite composition for photovoltaic applications. <i>APL Materials</i> , 2014 , 2, 081802	5.7	47
21	Designing block copolymer architectures for targeted membrane performance. <i>Polymer</i> , 2014 , 55, 347-353	3.9	89
20	Hierarchical porous polymer scaffolds from block copolymers. <i>Science</i> , 2013 , 341, 530-4	33.3	214
19	Towards mesoporous Keggin-type polyoxometalates: Systematic study on organic template removal. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6238	13	8
18	Multicompartment mesoporous silica nanoparticles with branched shapes: an epitaxial growth mechanism. <i>Science</i> , 2013 , 340, 337-41	33.3	132
17	Über die Zugänglichkeit zu geordneten porösen Molybdänoxycarbid/Kohlenstoff-Nanokompositen. <i>Angewandte Chemie</i> , 2012 , 124, 13066-13070	3.6	5
16	Access to ordered porous molybdenum oxycarbide/carbon nanocomposites. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12892-6	16.4	24
15	Synthesis and Formation Mechanism of Aminated Mesoporous Silica Nanoparticles. <i>Chemistry of Materials</i> , 2012 , 24, 3895-3905	9.6	52
14	Networked and chiral nanocomposites from ABC triblock terpolymer coassembly with transition metal oxide nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1078-1087		52
13	Solution Small-Angle X-ray Scattering as a Screening and Predictive Tool in the Fabrication of Asymmetric Block Copolymer Membranes. <i>ACS Macro Letters</i> , 2012 , 1, 614-617	6.6	87
12	Ultrasmall sub-10 nm near-infrared fluorescent mesoporous silica nanoparticles. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13180-3	16.4	166
11	A silica sol-gel design strategy for nanostructured metallic materials. <i>Nature Materials</i> , 2012 , 11, 460-7	27	95
10	Highly aminated mesoporous silica nanoparticles with cubic pore structure. <i>Journal of the American Chemical Society</i> , 2011 , 133, 172-5	16.4	105
9	Block copolymer directed one-pot simple synthesis of L10-phase FePt nanoparticles inside ordered mesoporous aluminosilicate/carbon composites. <i>ACS Nano</i> , 2011 , 5, 1018-25	16.7	46

8	Ordered mesoporous silica nanoparticles with and without embedded iron oxide nanoparticles: structure evolution during synthesis. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7807		65
7	Control of Solid-State Dye-Sensitized Solar Cell Performance by Block-Copolymer-Directed TiO ₂ Synthesis. <i>Advanced Functional Materials</i> , 2010 , 20, 1787-1796	15.6	125
6	Block copolymer directed nanoporous metal thin films. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 1960-4	4.8	20
5	Metal Nanoparticle/Block Copolymer Composite Assembly and Disassembly. <i>Chemistry of Materials</i> , 2009 , 21, 5578-5584	9.6	46
4	Ordered three- and five-ply nanocomposites from ABC block terpolymer microphase separation with niobia and aluminosilicate sols. <i>Chemistry of Materials</i> , 2009 , 21, 5466-5473	9.6	58
3	Three-Component Porous Carbon/Titania Nanocomposites through Self-Assembly of ABCBA Block Terpolymers with Titania Sols. <i>Macromolecules</i> , 2009 , 42, 6682-6687	5.5	28
2	One-pot synthesis of platinum-based nanoparticles incorporated into mesoporous niobium oxide-carbon composites for fuel cell electrodes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9389-95	16.4	113
1	Functionalized single graphene sheets derived from splitting graphite oxide. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 8535-9	3.4	2925