

Takashi Kajitani

List of Publications by Year in descending order

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60
papers

2,203
citations

218677

26
h-index

223800

46
g-index

64
all docs

64
docs citations

64
times ranked

2739
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial muscle-like function from hierarchical supramolecular assembly of photoresponsive molecular motors. <i>Nature Chemistry</i> , 2018, 10, 132-138.	13.6	330
2	Large-Area Three-Dimensional Molecular Ordering of a Polymer Brush by One-Step Processing. <i>Science</i> , 2010, 330, 808-811.	12.6	164
3	Helix-Sense Controlled Polymerization of a Single Phenyl Isocyanide Enantiomer Leading to Diastereomeric Helical Polyisocyanides with Opposite Helix-Sense and Cholesteric Liquid Crystals with Opposite Twist-Sense. <i>Journal of the American Chemical Society</i> , 2006, 128, 708-709.	13.7	158
4	Rational synthesis of organic thin films with exceptional long-range structural integrity. <i>Science</i> , 2015, 348, 1122-1126.	12.6	107
5	Two- and Three-Dimensional Smectic Ordering of Single-Handed Helical Polymers. <i>Journal of the American Chemical Society</i> , 2008, 130, 229-236.	13.7	101
6	Wide-Range 2D Lattice Correlation Unveiled for Columnar Assembled Triphenylene Hexacarboxylic Esters. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7990-7993.	13.8	86
7	A few-layer molecular film on polymer substrates to enhance the performance of organic devices. <i>Nature Nanotechnology</i> , 2018, 13, 139-144.	31.5	84
8	Hexathioalkyl sumanenes: an electron-donating buckybowl as a building block for supramolecular materials. <i>Chemical Science</i> , 2017, 8, 8405-8410.	7.4	54
9	Supramolecular Scaffold for Tailoring the Two-Dimensional Assembly of Functional Molecular Units into Organic Thin Films. <i>Journal of the American Chemical Society</i> , 2016, 138, 11727-11733.	13.7	48
10	Supramolecular Packing and Macroscopic Alignment Controls Actuation Speed in Macroscopic Strings of Molecular Motor Amphiphiles. <i>Journal of the American Chemical Society</i> , 2018, 140, 17724-17733.	13.7	46
11	Amphiphilic Design of a Discotic Liquid-Crystalline Molecule for Dipole Manipulation: Hierarchical Columnar Assemblies with a 2D Superlattice Structure. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1031-1034.	13.8	44
12	Generation of a Chiral Mesophase by Achiral Molecules: Absolute Chiral Induction in the Smectic C Phase of 4-Octyloxyphenyl 4-Octyloxybenzoate. <i>Journal of the American Chemical Society</i> , 2005, 127, 1124-1125.	13.7	42
13	Anomalous Stiff Backbones of Helical Poly(phenyl isocyanide) Derivatives. <i>Macromolecules</i> , 2008, 41, 7752-7754.	4.8	42
14	Spontaneous Chiral Induction in a Cubic Phase. <i>Chemistry of Materials</i> , 2005, 17, 3812-3819.	6.7	41
15	Helix-Sense-Controlled Polymerization of Optically Active Phenyl Isocyanides. <i>Macromolecules</i> , 2008, 41, 1601-1611.	4.8	40
16	Generation of Stable Calamitic Liquid-Crystal Phases with Lateral Intermolecular Hydrogen Bonding. <i>Chemistry of Materials</i> , 2004, 16, 2329-2331.	6.7	39
17	Terminal Functionalization with a Triptycene Motif That Dramatically Changes the Structural and Physical Properties of an Amorphous Polymer. <i>Journal of the American Chemical Society</i> , 2018, 140, 13497-13502.	13.7	39
18	Latticelike Smectic Liquid Crystal Phase in a Rigid-Rod Helical Polyisocyanide with Mesogenic Pendants. <i>Journal of the American Chemical Society</i> , 2011, 133, 9156-9159.	13.7	38

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19	Dual-Controlled Macroscopic Motions in a Supramolecular Hierarchical Assembly of Motor Amphiphiles. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10985-10989.	13.8	38
20	Liquid crystalline amides: linear arrangement of rod-like molecules by lateral intermolecular hydrogen bonding and molecular shape effect. <i>Journal of Materials Chemistry</i> , 2004, 14, 3449.	6.7	37
21	High-fidelity self-assembly pathways for hydrogen-bonding molecular semiconductors. <i>Scientific Reports</i> , 2017, 7, 43098.	3.3	34
22	Water-induced self-assembly of an amphiphilic perylene bisimide dyad into vesicles, fibers, coils, and rings. <i>Materials Chemistry Frontiers</i> , 2018, 2, 171-179.	5.9	34
23	Visualization of Polymer Chain Conformations in Amorphous Polyisocyanide Langmuir-Blodgett Films by Atomic Force Microscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 5604-5606.	13.7	32
24	Photoalignment of an Azobenzene-Based Chromonic Liquid Crystal Dispersed in Triacetyl Cellulose: Single-Layer Alignment Films with an Exceptionally High Order Parameter. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11074-11078.	8.0	31
25	Supramolecular Assemblies of Ferrocene-Hinged Naphthalenediimides: Multiple Conformational Changes in Film States. <i>Journal of the American Chemical Society</i> , 2016, 138, 11245-11253.	13.7	30
26	<i>o</i> -Phenylene Octamers as Surface Modifiers for Homeotropic Columnar Ordering of Discotic Liquid Crystals. <i>Journal of the American Chemical Society</i> , 2013, 135, 14564-14567.	13.7	28
27	Hydrogen bond-directed supramolecular polymorphism leading to soft and hard molecular ordering. <i>Chemical Communications</i> , 2020, 56, 4280-4283.	4.1	28
28	Impact of helical organization on the photovoltaic properties of oligothiophene supramolecular polymers. <i>Chemical Science</i> , 2018, 9, 3638-3643.	7.4	27
29	Photoactuating Artificial Muscles of Motor Amphiphiles as an Extracellular Matrix Mimetic Scaffold for Mesenchymal Stem Cells. <i>Journal of the American Chemical Society</i> , 2022, 144, 3543-3553.	13.7	27
30	Helical Polyisocyanides with Fan-Shaped Pendants. <i>Macromolecules</i> , 2009, 42, 560-567.	4.8	25
31	Hydrogen-bonded oligothiophene rosettes with a benzodithiophene terminal unit: self-assembly and application to bulk heterojunction solar cells. <i>Chemical Communications</i> , 2016, 52, 7874-7877.	4.1	25
32	Uniaxial Orientation of a Rodlike Helical Poly(phenylacetylene) in an Electric Field. <i>Macromolecules</i> , 2008, 41, 258-261.	4.8	24
33	Supramolecular Polymerization of Supermacrocycles: Effect of Molecular Conformations on Kinetics and Morphology. <i>Chemistry - A European Journal</i> , 2017, 23, 5270-5280.	3.3	21
34	Highly-ordered Triptycene Modifier Layer Based on Blade Coating for Ultraflexible Organic Transistors. <i>Scientific Reports</i> , 2019, 9, 9200.	3.3	20
35	Ring shape-dependent self-sorting of pillar[n]arenes assembled on a surface. <i>Communications Chemistry</i> , 2018, 1, .	4.5	19
36	Chiral crystal-like droplets displaying unidirectional rotational sliding. <i>Nature Materials</i> , 2019, 18, 266-272.	27.5	17

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37	Light-regulated crystal growth of π -conjugated luminophores in an azobenzene matrix. <i>Communications Chemistry</i> , 2018, 1, .	4.5	16
38	A design principle of polymers processable into 2D homeotropic order. <i>Nature Communications</i> , 2016, 7, 13640.	12.8	14
39	Synthesis and Self-Assembly of Cyclic 2,7-Anthrylene Ethynylene 1,3-Phenylene Ethynylene Trimer with a Planar Conformation. <i>Chemistry - A European Journal</i> , 2016, 22, 16760-16764.	3.3	13
40	Self-assembly of alkylated and perfluoroalkylated scissor-shaped azobenzene dyads into distinct structures. <i>Chemical Communications</i> , 2020, 56, 15619-15622.	4.1	11
41	Dielectric response of 1,1-difluorosumanene caused by an in-plane motion. <i>Materials Chemistry Frontiers</i> , 2022, 6, 1752-1758.	5.9	10
42	Ultralow-Noise Organic Transistors Based on Polymeric Gate Dielectrics with Self-Assembled Modifiers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41561-41569.	8.0	9
43	Fluorescent Supramolecular Polymorphism Driven by Distinct Hydrogen Bonding Lattice. <i>Chemistry Letters</i> , 2020, 49, 1009-1012.	1.3	9
44	Changing the structural and physical properties of 3-arm star poly(ϵ -valerolactone)s by a branch-point design. <i>Chemical Communications</i> , 2021, 57, 3901-3904.	4.1	9
45	Thermal and optical properties of multiblock macrocycles with hysteretic polymorphic transition. <i>Materials Chemistry Frontiers</i> , 2018, 2, 969-974.	5.9	8
46	Chlorine-based inductively coupled plasma etching of GaAs wafer using tripodal paraffinic triptycene as an etching resist mask. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 06GL01.	1.5	7
47	An electron-accepting molecular unit exhibiting an orientational preference favorable for organic photovoltaic applications. <i>Thin Solid Films</i> , 2015, 583, 34-39.	1.8	6
48	Rewriting the phase diagram of a diamagnetic liquid crystal by a magnetic field. <i>Nature Communications</i> , 2018, 9, 4431.	12.8	6
49	Dual-Controlled Macroscopic Motions in a Supramolecular Hierarchical Assembly of Motor Amphiphiles. <i>Angewandte Chemie</i> , 2019, 131, 11101-11105.	2.0	6
50	Liquid-Crystalline Compounds Consisting of Two Mesogenic Cores in Parallel Conformation. <i>Chemistry of Materials</i> , 2001, 13, 2468-2471.	6.7	5
51	π -Tuning fork-shaped mesogens: large hysteresis in the interdigitated layer structure in the liquid crystal phases. <i>Journal of Materials Chemistry</i> , 2004, 14, 2612-2621.	6.7	5
52	Tetrathiafulvalene Hybridized with Indacenetetraone as Visible-light-harvesting Electron Acceptor Applicable to Bulk-heterojunction Organic Photovoltaics. <i>Chemistry Letters</i> , 2013, 42, 1417-1419.	1.3	5
53	Design of a molecular memory element with an alternating circular array of dipolar rotors and rotation suppressors. <i>Chemical Science</i> , 2020, 11, 8388-8393.	7.4	5
54	Introduction of Triptycene with a Particular Substitution Pattern into Polymer Chains Can Dramatically Improve the Structural and Rheological Properties. <i>ACS Macro Letters</i> , 2021, 10, 1529-1534.	4.8	5

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55	Sumanene Hexaester: An Electron-Deficient Buckybowl. <i>Synthesis</i> , 2019, 51, 4576-4581.	2.3	4
56	Heat-Triggered Crystallization of Liquid Crystalline Macrocycles Allowing for Conductance Switching through Hysteretic Thermal Phase Transitions. <i>Chemistry - an Asian Journal</i> , 2019, 14, 141-148.	3.3	4
57	Calamitic Liquid Crystalline Molecules with Lateral Intermolecular Hydrogen Bonding. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 439, 173/[2039]-177/[2043].	0.9	3
58	Structure-preserving Solid-state Thermal Huisgen Cycloaddition Polymerization of a Self-assembled Triptycene-based AB ₃ -type Monomer. <i>Chemistry Letters</i> , 2021, 50, 2006-2010.	1.3	3
59	Room-Temperature Pentacene Fluids: Oligoethylene Glycol Substituent-Controlled Morphologies and Singlet Fission. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11910-11918.	2.6	2
60	Ultrafast Singlet Fission and Efficient Carrier Transport in a Lamellar Assembly of Bis[(trialkoxypheyl)ethynyl]pentacene. <i>Journal of Physical Chemistry C</i> , 0, , .	3.1	1