

Takuzo Aida

List of Publications by Year in descending order

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398
papers

40,036
citations

2203

99
h-index

3094

187
g-index

406
all docs

406
docs citations

406
times ranked

31730
citing authors

#	ARTICLE	IF	CITATIONS
1	Stretchable active-matrix organic light-emitting diode display using printable elastic conductors. <i>Nature Materials</i> , 2009, 8, 494-499.	13.3	1,620
2	High-water-content mouldable hydrogels by mixing clay and a dendritic molecular binder. <i>Nature</i> , 2010, 463, 339-343.	13.7	1,446
3	Molecular Ordering of Organic Molten Salts Triggered by Single-Walled Carbon Nanotubes. <i>Science</i> , 2003, 300, 2072-2074.	6.0	1,288
4	A Rubberlike Stretchable Active Matrix Using Elastic Conductors. <i>Science</i> , 2008, 321, 1468-1472.	6.0	1,265
5	Self-Assembled Hexa-peri-hexabenzocoronene Graphitic Nanotube. <i>Science</i> , 2004, 304, 1481-1483.	6.0	985
6	Toward Intelligent Molecular Machines: Directed Motions of Biological and Artificial Molecules and Assemblies. <i>Chemical Reviews</i> , 2005, 105, 1377-1400.	23.0	808
7	Mechanically robust, readily repairable polymers via tailored noncovalent cross-linking. <i>Science</i> , 2018, 359, 72-76.	6.0	716
8	Photoconductive Coaxial Nanotubes of Molecularly Connected Electron Donor and Acceptor Layers. <i>Science</i> , 2006, 314, 1761-1764.	6.0	642
9	Mechanical twisting of a guest by a photoresponsive host. <i>Nature</i> , 2006, 440, 512-515.	13.7	634
10	Rewritable phosphorescent paper by the control of competing kinetic and thermodynamic self-assembling events. <i>Nature Materials</i> , 2005, 4, 546-549.	13.3	560
11	Thermoresponsive actuation enabled by permittivity switching in an electrostatically anisotropic hydrogel. <i>Nature Materials</i> , 2015, 14, 1002-1007.	13.3	530
12	Photoisomerization in dendrimers by harvesting of low-energy photons. <i>Nature</i> , 1997, 388, 454-456.	13.7	521
13	A rational strategy for the realization of chain-growth supramolecular polymerization. <i>Science</i> , 2015, 347, 646-651.	6.0	518
14	Fully Plastic Actuator through Layer-by-Layer Casting with Ionic-Liquid-Based Bucky Gel. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2410-2413.	7.2	509
15	Ionic Liquids for Soft Functional Materials with Carbon Nanotubes. <i>Chemistry - A European Journal</i> , 2007, 13, 5048-5058.	1.7	504
16	Extrusion Polymerization: Catalyzed Synthesis of Crystalline Linear Polyethylene Nanofibers Within a Mesoporous Silica. <i>Science</i> , 1999, 285, 2113-2115.	6.0	470
17	An anisotropic hydrogel with electrostatic repulsion between cofacially aligned nanosheets. <i>Nature</i> , 2015, 517, 68-72.	13.7	440
18	Phosphorescent Organogels via Metallophilic Interactions for Reversible RGB Color Switching. <i>Journal of the American Chemical Society</i> , 2005, 127, 179-183.	6.6	426

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19	Bioinspired Molecular Design of Light-Harvesting Multiporphyrin Arrays. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 150-158.	7.2	398
20	Supramolecular Linear Heterojunction Composed of Graphite-Like Semiconducting Nanotubular Segments. <i>Science</i> , 2011, 334, 340-343.	6.0	397
21	Supramolecular ferroelectrics. <i>Nature Chemistry</i> , 2015, 7, 281-294.	6.6	379
22	Metalloporphyrins as Initiators for Living and Immortal Polymerizations. <i>Accounts of Chemical Research</i> , 1996, 29, 39-48.	7.6	353
23	Selective assemblies of giant tetrahedra via precisely controlled positional interactions. <i>Science</i> , 2015, 348, 424-428.	6.0	338
24	Metalloporphyrin hosts for supramolecular chemistry of fullerenes. <i>Chemical Society Reviews</i> , 2007, 36, 189-197.	18.7	337
25	An autonomous actuator driven by fluctuations in ambient humidity. <i>Nature Materials</i> , 2016, 15, 1084-1089.	13.3	331
26	Light-Driven Open~Close Motion of Chiral Molecular Scissors. <i>Journal of the American Chemical Society</i> , 2003, 125, 5612-5613.	6.6	328
27	Comprehensive Approach to Intrinsic Charge Carrier Mobility in Conjugated Organic Molecules, Macromolecules, and Supramolecular Architectures. <i>Accounts of Chemical Research</i> , 2012, 45, 1193-1202.	7.6	318
28	A Cyclic Dimer of Metalloporphyrin Forms a Highly Stable Inclusion Complex with C60. <i>Journal of the American Chemical Society</i> , 1999, 121, 9477-9478.	6.6	314
29	Activation of carbon dioxide with aluminum porphyrin and reaction with epoxide. Studies on (tetraphenylporphinato)aluminum alkoxide having a long oxyalkylene chain as the alkoxide group. <i>Journal of the American Chemical Society</i> , 1983, 105, 1304-1309.	6.6	298
30	A Blue-Luminescent Dendritic Rod:~ Poly(phenyleneethynylene) within a Light-Harvesting Dendritic Envelope. <i>Journal of the American Chemical Society</i> , 1999, 121, 10658-10659.	6.6	295
31	Dendrimer Porphyrins and Phthalocyanines. <i>Chemical Reviews</i> , 2009, 109, 6047-6076.	23.0	293
32	Ultrahigh-throughput exfoliation of graphite into pristine ~single-layer~™ graphene using microwaves and molecularly engineered ionic liquids. <i>Nature Chemistry</i> , 2015, 7, 730-736.	6.6	291
33	Synthesis of Anisotropic Hydrogels and Their Applications. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2532-2543.	7.2	287
34	Morphology-Dependent Photochemical Events in Aryl Ether Dendrimer Porphyrins:~ Cooperation of Dendron Subunits for Singlet Energy Transduction. <i>Journal of the American Chemical Society</i> , 1998, 120, 10895-10901.	6.6	284
35	Self-assembled graphitic nanotubes with one-handed helical arrays of a chiral amphiphilic molecular graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10801-10806.	3.3	260
36	Photoinduced Electron Transfer Reaction through Dendrimer Architecture. <i>Journal of the American Chemical Society</i> , 1996, 118, 3978-3979.	6.6	245

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37	Chaperonin-mediated stabilization and ATP-triggered release of semiconductor nanoparticles. <i>Nature</i> , 2003, 423, 628-632.	13.7	232
38	Highly Conductive Sheets from Millimeter-Long Single-Walled Carbon Nanotubes and Ionic Liquids: Application to Fast-Moving, Low-Voltage Electromechanical Actuators Operable in Air. <i>Advanced Materials</i> , 2009, 21, 1582-1585.	11.1	230
39	Dramatic Effect of Dispersed Carbon Nanotubes on the Mechanical and Electroconductive Properties of Polymers Derived from Ionic Liquids. <i>Small</i> , 2006, 2, 554-560.	5.2	221
40	The State of Nanoparticle-Based Nanoscience and Biotechnology: Progress, Promises, and Challenges. <i>ACS Nano</i> , 2012, 6, 8468-8483.	7.3	211
41	Ferroelectric Columnar Liquid Crystal Featuring Confined Polar Groups Within Core-Shell Architecture. <i>Science</i> , 2012, 336, 209-213.	6.0	209
42	High performance fully plastic actuator based on ionic-liquid-based bucky gel. <i>Electrochimica Acta</i> , 2008, 53, 5555-5562.	2.6	208
43	Immortal polymerization of ϵ -caprolactone initiated by aluminum porphyrin in the presence of alcohol. <i>Macromolecules</i> , 1987, 20, 2982-2988.	2.2	207
44	Coordination Metallacycles of an Achiral Dendron Self-Assemble via Metal-Metal Interaction To Form Luminescent Superhelical Fibers. <i>Journal of the American Chemical Society</i> , 2001, 123, 5608-5609.	6.6	202
45	Redox-responsive molecular helices with highly condensed π -clouds. <i>Nature Chemistry</i> , 2011, 3, 68-73.	6.6	197
46	Biomolecular robotics for chemomechanically driven guest delivery fuelled by intracellular ATP. <i>Nature Chemistry</i> , 2013, 5, 613-620.	6.6	195
47	Nanotechnology-Based Photodynamic Therapy for Neovascular Disease Using a Supramolecular Nanocarrier Loaded with a Dendritic Photosensitizer. <i>Nano Letters</i> , 2005, 5, 2426-2431.	4.5	194
48	Liquid Crystalline Corannulene Responsive to Electric Field. <i>Journal of the American Chemical Society</i> , 2009, 131, 44-45.	6.6	193
49	Template Synthesis of Polypyrrole Nanofibers Insulated within One-Dimensional Silicate Channels: Hexagonal versus Lamellar for Recombination of Polarons into Bipolarons. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 2154-2157.	7.2	191
50	Macroscopic Spinning Chirality Memorized in Spin-Coated Films of Spatially Designed Dendritic Zinc Porphyrin-Aggregates. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6350-6355.	7.2	186
51	Amphiphilic Molecular Design as a Rational Strategy for Tailoring Bicontinuous Electron Donor and Acceptor Arrays: Photoconductive Liquid Crystalline Oligothiophene ⁶⁰ Dyads. <i>Journal of the American Chemical Society</i> , 2008, 130, 8886-8887.	6.6	185
52	Dendritic Physical Gel: Hierarchical Self-Organization of a Peptide-Core Dendrimer to Form a Micrometer-Scale Fibrous Assembly. <i>Journal of the American Chemical Society</i> , 2000, 122, 3232-3233.	6.6	184
53	Controlled polymerizations with constrained geometries. <i>Chemical Communications</i> , 2000, , 2399-2412.	2.2	183
54	Electromechanical behavior of fully plastic actuators based on bucky gel containing various internal ionic liquids. <i>Electrochimica Acta</i> , 2009, 54, 1762-1768.	2.6	175

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55	Light-Harvesting Ionic Dendrimer Porphyrins as New Photosensitizers for Photodynamic Therapy. <i>Bioconjugate Chemistry</i> , 2003, 14, 58-66.	1.8	170
56	Polyion complex micelles entrapping cationic dendrimer porphyrin: effective photosensitizer for photodynamic therapy of cancer. <i>Journal of Controlled Release</i> , 2003, 93, 141-150.	4.8	166
57	Large-Area Three-Dimensional Molecular Ordering of a Polymer Brush by One-Step Processing. <i>Science</i> , 2010, 330, 808-811.	6.0	164
58	Supramolecular Polymerization: A Conceptual Expansion for Innovative Materials. <i>Progress in Polymer Science</i> , 2020, 105, 101250.	11.8	164
59	Chirality-Memory Molecule: A D ₂ -Symmetric Fully Substituted Porphyrin as a Conceptually New Chirality Sensor. <i>Journal of the American Chemical Society</i> , 1997, 119, 5267-5268.	6.6	163
60	Ambipolar-transporting coaxial nanotubes with a tailored molecular graphene–fullerene heterojunction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21051-21056.	3.3	161
61	Cyclic Block Copolymers for Controlling Feature Sizes in Block Copolymer Lithography. <i>ACS Nano</i> , 2012, 6, 10845-10854.	7.3	158
62	Aryl Ether Dendrimers with an Interior Metalloporphyrin Functionality as a Spectroscopic Probe: A Interpenetrating Interaction with Dendritic Imidazoles. <i>Macromolecules</i> , 1996, 29, 5236-5238.	2.2	155
63	Supramolecular Peapods Composed of a Metalloporphyrin Nanotube and Fullerenes. <i>Journal of the American Chemical Society</i> , 2003, 125, 13934-13935.	6.6	152
64	Manipulation of Discrete Nanostructures by Selective Modulation of Noncovalent Forces. <i>Science</i> , 2014, 344, 499-504.	6.0	152
65	Systematic Studies on Structural Parameters for Nanotubular Assembly of Hexa-peri-hexabenzocoronenes. <i>Journal of the American Chemical Society</i> , 2008, 130, 9434-9440.	6.6	149
66	Linear versus Dendritic Molecular Binders for Hydrogel Network Formation with Clay Nanosheets: Studies with ABA Triblock Copolyethers Carrying Guanidinium Ion Pendants. <i>Journal of the American Chemical Society</i> , 2013, 135, 15650-15655.	6.6	149
67	A Large Dendritic Multiporphyrin Array as a Mimic of the Bacterial Light-Harvesting Antenna Complex: Molecular Design of an Efficient Energy Funnel for Visible Photons. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3194-3198.	7.2	148
68	Selective Extraction of Higher Fullerenes Using Cyclic Dimers of Zinc Porphyrins. <i>Journal of the American Chemical Society</i> , 2004, 126, 6570-6571.	6.6	148
69	Asymmetric epoxidation of olefins catalyzed by manganese complexes of chiral "strapped" porphyrins with diastereotopic faces. A novel strategy for stereochemical modeling of the active site of cytochrome P-450. <i>Journal of the American Chemical Society</i> , 1992, 114, 1313-1317.	6.6	146
70	A Condensable Amphiphile with a Cleavable Tail as a "Lizard" Template for the Sol-Gel Synthesis of Functionalized Mesoporous Silica. <i>Journal of the American Chemical Society</i> , 2004, 126, 988-989.	6.6	145
71	Supramolecular Polymers – we've Come Full Circle. <i>Israel Journal of Chemistry</i> , 2020, 60, 33-47.	1.0	145
72	Metal Bisporphyrinate Double-Decker Complexes as Redox-Responsive Rotating Modules. Studies on Ligand Rotation Activities of the Reduced and Oxidized Forms Using Chirality as a Probe. <i>Journal of the American Chemical Society</i> , 2000, 122, 7921-7926.	6.6	142

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73	Supramolecular Nanocarrier of Anionic Dendrimer Porphyrins with Cationic Block Copolymers Modified with Polyethylene Glycol to Enhance Intracellular Photodynamic Efficacy. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 419-423.	7.2	141
74	Catalytic reaction on both sides of a metalloporphyrin plane. Alternating copolymerization of phthalic anhydride and epoxypropane with an aluminum porphyrin-quaternary salt system. <i>Journal of the American Chemical Society</i> , 1985, 107, 1358-1364.	6.6	140
75	An Anisotropic Hydrogel Actuator Enabling Earthworm-Like Directed Peristaltic Crawling. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15772-15776.	7.2	139
76	Bulky Titanium Bis(phenolate) Complexes as Novel Initiators for Living Anionic Polymerization of μ -Caprolactone. <i>Macromolecules</i> , 2000, 33, 725-729.	2.2	129
77	Photosensitized Hydrogen Evolution from Water Using Conjugated Polymers Wrapped in Dendrimeric Electrolytes. <i>Journal of the American Chemical Society</i> , 2004, 126, 12084-12089.	6.6	129
78	Thermally bisignate supramolecular polymerization. <i>Nature Chemistry</i> , 2017, 9, 1133-1139.	6.6	129
79	A 4 V Operation, Flexible Braille Display Using Organic Transistors, Carbon Nanotube Actuators, and Organic Static Random-Access Memory. <i>Advanced Functional Materials</i> , 2011, 21, 4019-4027.	7.8	128
80	Self-assembly of lattices with high structural complexity from a geometrically simple molecule. <i>Science</i> , 2018, 361, 1242-1246.	6.0	127
81	Immortal polymerization: polymerization of epoxide and β -lactone with aluminum porphyrin in the presence of protic compound. <i>Macromolecules</i> , 1988, 21, 1195-1202.	2.2	125
82	A Novel Anion-Binding Chiral Receptor Based on a Metalloporphyrin with Molecular Asymmetry. Highly Enantioselective Recognition of Amino Acid Derivatives. <i>Journal of the American Chemical Society</i> , 1994, 116, 1337-1344.	6.6	122
83	Segregated and Alternately Stacked Donor/Acceptor Nanodomains in Tubular Morphology Tailored with Zinc Porphyrin Amphiphilic Dyads: Clear Geometrical Effects on Photoconduction. <i>Journal of the American Chemical Society</i> , 2012, 134, 2524-2527.	6.6	119
84	Self-Assembly of a Copper-Ligating Dendrimer that Provides a New Non-Heme Metalloprotein Mimic: A Dendrimer Effects on Stability of the Bis($1/4$ -oxo)dicopper(III) Core. <i>Journal of the American Chemical Society</i> , 1999, 121, 874-875.	6.6	118
85	Chiroselective Assembly of a Chiral Porphyrin Fullerene Dyad: Photoconductive Nanofiber with a Top-Class Ambipolar Charge-Carrier Mobility. <i>Journal of the American Chemical Society</i> , 2010, 132, 6628-6629.	6.6	118
86	Switching of Spin States Triggered by a Phase Transition: Spin-Crossover Properties of Self-Assembled Iron(II) Complexes with Alkyl-Tethered Triazole Ligands. <i>Journal of the American Chemical Society</i> , 2003, 125, 14690-14691.	6.6	117
87	Toward Long-Distance Mechanical Communication: Studies on a Ternary Complex Interconnected by a Bridging Rotary Module. <i>Journal of the American Chemical Society</i> , 2008, 130, 6725-6727.	6.6	116
88	Hosting Fullerenes by Dynamic Bond Formation with an Iridium Porphyrin Cyclic Dimer: A Chemical Friction for Rotary Guest Motions. <i>Journal of the American Chemical Society</i> , 2007, 129, 11912-11913.	6.6	115
89	Identification of a Frank-Kasper Z phase from shape amphiphile self-assembly. <i>Nature Chemistry</i> , 2019, 11, 899-905.	6.6	114
90	Positive Heterotropic Cooperativity for Selective Guest Binding via Electronic Communications through a Fused Zinc Porphyrin Array. <i>Journal of the American Chemical Society</i> , 2005, 127, 13086-13087.	6.6	113

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91	Magnetically Induced Anisotropic Orientation of Graphene Oxide Locked by <i>in Situ</i> Hydrogelation. <i>ACS Nano</i> , 2014, 8, 4640-4649.	7.3	113
92	Construction of Segregated Arrays of Multiple Donor and Acceptor Units Using a Dendritic Scaffold: Remarkable Dendrimer Effects on Photoinduced Charge Separation. <i>Journal of the American Chemical Society</i> , 2006, 128, 10527-10532.	6.6	112
93	Living and immortal polymerizations. <i>Progress in Polymer Science</i> , 1994, 19, 469-528.	11.8	108
94	Color-Tunable Transparent Mesoporous Silica Films: Immobilization of One-Dimensional Columnar Charge-Transfer Assemblies in Aligned Silicate Nanochannels. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3414-3417.	7.2	108
95	Semibiological Molecular Machine with an Implemented AND Logic Gate for Regulation of Protein Folding. <i>Journal of the American Chemical Society</i> , 2006, 128, 3764-3769.	6.6	107
96	Bicontinuous Cubic Liquid Crystalline Materials from Discotic Molecules: A Special Effect of Paraffinic Side Chains with Ionic Liquid Pendants. <i>Journal of the American Chemical Society</i> , 2009, 131, 17722-17723.	6.6	107
97	Electrostatic Assembly of Dendrimer Electrolytes: Negatively and Positively Charged Dendrimer Porphyrins. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 1531-1534.	7.2	105
98	Polyion Complex Micelles Encapsulating Light-Harvesting Ionic Dendrimer Zinc Porphyrins. <i>Langmuir</i> , 2000, 16, 8182-8188.	1.6	104
99	Novel photoinduced carbon-carbon bond formation via metal-alkyl and -enolate porphyrins-visible light-mediated polymerization of alkyl methacrylate catalyzed by aluminum porphyrin. <i>Journal of the American Chemical Society</i> , 1987, 109, 4737-4738.	6.6	103
100	Chirality-Memory Molecule: Crystallographic and Spectroscopic Studies on Dynamic Molecular Recognition Events by Fully Substituted Chiral Porphyrins. <i>Journal of the American Chemical Society</i> , 2000, 122, 5278-5285.	6.6	103
101	Prominent Electron Transport Property Observed for Triply Fused Metalloporphyrin Dimer: Directed Columnar Liquid Crystalline Assembly by Amphiphilic Molecular Design. <i>Journal of the American Chemical Society</i> , 2008, 130, 13812-13813.	6.6	101
102	Helix Sense-Selective Supramolecular Polymerization Seeded by a One-Handed Helical Polymeric Assembly. <i>Journal of the American Chemical Society</i> , 2015, 137, 13792-13795.	6.6	101
103	Steric separation of nucleophile and Lewis acid providing dramatically accelerated reaction. High-speed polymerization of methyl methacrylate with enolate-aluminum porphyrin/sterically crowded organoaluminum systems. <i>Journal of the American Chemical Society</i> , 1991, 113, 5903-5904.	6.6	100
104	Photoreconfigurable Supramolecular Nanotube. <i>Journal of the American Chemical Society</i> , 2013, 135, 11509-11512.	6.6	99
105	Living polymerization of epoxides with metalloporphyrin and synthesis of block copolymers with controlled chain lengths. <i>Macromolecules</i> , 1981, 14, 1162-1166.	2.2	98
106	Controlled Self-Assembly Triggered by Olefin Metathesis: Cross-Linked Graphitic Nanotubes from an Amphiphilic Hexa-peri-hexabenzocoronene. <i>Journal of the American Chemical Society</i> , 2005, 127, 8284-8285.	6.6	97
107	Well-controlled polymerization by metalloporphyrin. Synthesis of copolymer with alternating sequence and regulated molecular weight from cyclic acid anhydride and epoxide catalyzed by the system of aluminum porphyrin coupled with quaternary organic salt. <i>Macromolecules</i> , 1985, 18, 1049-1055.	2.2	96
108	Molecular Engineering of Coaxial Donor-Acceptor Heterojunction by Coassembly of Two Different Hexabenzocoronenes: Graphitic Nanotubes with Enhanced Photoconducting Properties. <i>Journal of the American Chemical Society</i> , 2007, 129, 9276-9277.	6.6	96

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109	Enantiomeric Resolution of Chiral Metallobis(porphyrin)s: Studies on Rotatability of Electronically Coupled Porphyrin Ligands. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 856-858.	4.4	94
110	A Novel Supramolecular Multicolor Thermometer by Self-Assembly of a π -Extended Zinc Porphyrin Complex. <i>Journal of the American Chemical Society</i> , 2003, 125, 15722-15723.	6.6	93
111	Guanidinium-based π -molecular glues for modulation of biomolecular functions. <i>Chemical Society Reviews</i> , 2017, 46, 6480-6491.	18.7	93
112	Homochiral Supramolecular Polymerization of an α -Shaped Chiral Monomer: A Translation of Optical Purity into Molecular Weight Distribution. <i>Journal of the American Chemical Society</i> , 2002, 124, 14017-14019.	6.6	91
113	Crystalline Nanochannels with Pendant Azobenzene Groups: Steric or Polar Effects on Gas Adsorption and Diffusion?. <i>Journal of the American Chemical Society</i> , 2017, 139, 8784-8787.	6.6	91
114	Cooperativity in Chiroptical Sensing with Dendritic Zinc Porphyrins. <i>Journal of the American Chemical Society</i> , 2005, 127, 7700-7702.	6.6	89
115	A Tubular Biocontainer: Metal Ion-Induced 1D Assembly of a Molecularly Engineered Chaperonin. <i>Journal of the American Chemical Society</i> , 2009, 131, 7556-7557.	6.6	89
116	Columnarly Assembled Liquid-Crystalline Peptidic Macrocycles Unidirectionally Orientable over a Large Area by an Electric Field. <i>Journal of the American Chemical Society</i> , 2011, 133, 13767-13769.	6.6	87
117	Stabilization of a Kinetically Favored Nanostructure: A Surface ROMP of Self-Assembled Conductive Nanocoils from a Norbornene-Appended Hexa-peri-hexabenzocoronene. <i>Journal of the American Chemical Society</i> , 2006, 128, 14337-14340.	6.6	86
118	Wide-Range 2D Lattice Correlation Unveiled for Columnarly Assembled Triphenylene Hexacarboxylic Esters. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7990-7993.	7.2	86
119	Energetics of Baird aromaticity supported by inversion of photoexcited chiral [4n]annulene derivatives. <i>Nature Communications</i> , 2017, 8, 346.	5.8	86
120	Free radical polymerization within mesoporous zeolite channels. <i>Macromolecular Rapid Communications</i> , 1997, 18, 991-996.	2.0	85
121	Photolatently modulable hydrogels using unilamellar titania nanosheets as photocatalytic crosslinkers. <i>Nature Communications</i> , 2013, 4, 2029.	5.8	85
122	Lewis Acid-Assisted Anionic Ring-Opening Polymerization of Epoxide by the Aluminum Complexes of Porphyrin, Phthalocyanine, Tetraazaannulene, and Schiff Base as Initiators. <i>Macromolecules</i> , 1994, 27, 2013-2018.	2.2	84
123	Sensing of Chiral Fullerenes by a Cyclic Host with an Asymmetrically Distorted π -Electronic Component. <i>Journal of the American Chemical Society</i> , 2006, 128, 10690-10691.	6.6	84
124	Ultralong Organic Phosphorescent Foams with High Mechanical Strength. <i>Journal of the American Chemical Society</i> , 2021, 143, 16256-16263.	6.6	84
125	Electric Double-Layer Capacitors Using π -Bucky Gels Consisting of an Ionic Liquid and Carbon Nanotubes. <i>Journal of the Electrochemical Society</i> , 2005, 152, A1913.	1.3	83
126	Photonic water dynamically responsive to external stimuli. <i>Nature Communications</i> , 2016, 7, 12559.	5.8	83

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127	Living polymerization of epoxide catalyzed by the porphyrin-chlorodiethylaluminum system. Structure of the living end. <i>Macromolecules</i> , 1981, 14, 1166-1169.	2.2	82
128	Photochemical Stitching of a Tubularly Assembled Hexabenzocoronene Amphiphile by Dimerization of Coumarin Pendants. <i>Journal of the American Chemical Society</i> , 2006, 128, 4220-4221.	6.6	82
129	Homochiral supramolecular polymerization of bowl-shaped chiral macrocycles in solution. <i>Chemical Science</i> , 2014, 5, 136-140.	3.7	82
130	Ultrafast water permeation through nanochannels with a densely fluorinated interior surface. <i>Science</i> , 2022, 376, 738-743.	6.0	82
131	Asymmetric catalysis mediated by a mirror symmetry-broken helical nanoribbon. <i>Nature Communications</i> , 2019, 10, 3976.	5.8	80
132	Electron- or Hole-Transporting Nature Selected by Side-Chain-Directed π -Stacking Geometry: Liquid Crystalline Fused Metalloporphyrin Dimers. <i>Journal of the American Chemical Society</i> , 2011, 133, 6537-6540.	6.6	79
133	Bioinspired molecular design of functional dendrimers. <i>Progress in Polymer Science</i> , 2005, 30, 403-422.	11.8	78
134	Discotic liquid crystals stabilized by interionic interactions: imidazolium ion-anchored paraffinic triphenylene. <i>Chemical Communications</i> , 2005, , 101.	2.2	78
135	Symmetric Chiral Corannulenes: Desymmetrization of Bowl Inversion Equilibrium via π -Intramolecular π -Hydrogen-Bonding Network. <i>Journal of the American Chemical Society</i> , 2014, 136, 10640-10644.	6.6	78
136	Dendritic Physical Gels: Structural Parameters for Gelation with Peptide-Core Dendrimers. <i>Macromolecules</i> , 2003, 36, 8461-8469.	2.2	77
137	Molecular Glues Carrying Multiple Guanidinium Ion Pendants via an Oligoether Spacer: Stabilization of Microtubules against Depolymerization. <i>Journal of the American Chemical Society</i> , 2009, 131, 1626-1627.	6.6	77
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