

Takanori Fukushima

List of Publications by Citations

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199 papers	13,283 citations	51 h-index	113 g-index
218 ext. papers	14,543 ext. citations	8.9 avg, IF	6.26 L-index

#	Paper	IF	Citations
199	Stretchable active-matrix organic light-emitting diode display using printable elastic conductors. <i>Nature Materials</i> , 2009 , 8, 494-9	27	1425
198	Molecular ordering of organic molten salts triggered by single-walled carbon nanotubes. <i>Science</i> , 2003 , 300, 2072-4	33.3	1178
197	A rubberlike stretchable active matrix using elastic conductors. <i>Science</i> , 2008 , 321, 1468-72	33.3	1156
196	Self-assembled hexa-peri-hexabenzocoronene graphitic nanotube. <i>Science</i> , 2004 , 304, 1481-3	33.3	923
195	Photoconductive coaxial nanotubes of molecularly connected electron donor and acceptor layers. <i>Science</i> , 2006 , 314, 1761-4	33.3	604
194	Ionic liquids for soft functional materials with carbon nanotubes. <i>Chemistry - A European Journal</i> , 2007 , 13, 5048-58	4.8	467
193	Fully plastic actuator through layer-by-layer casting with ionic-liquid-based bucky gel. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2410-3	16.4	445
192	Supramolecular linear heterojunction composed of graphite-like semiconducting nanotubular segments. <i>Science</i> , 2011 , 334, 340-3	33.3	338
191	Ultrahigh-throughput exfoliation of graphite into pristine 'single-layer' graphene using microwaves and molecularly engineered ionic liquids. <i>Nature Chemistry</i> , 2015 , 7, 730-6	17.6	248
190	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, 10801-6	11.5	240
189	Artificial muscle-like function from hierarchical supramolecular assembly of photoresponsive molecular motors. <i>Nature Chemistry</i> , 2018 , 10, 132-138	17.6	224
188	Synthesis of p-tert-Butylthiacalix[4]arene and its Inclusion Property. <i>Tetrahedron</i> , 2000 , 56, 1437-1443	2.4	216
187	Dramatic effect of dispersed carbon nanotubes on the mechanical and electroconductive properties of polymers derived from ionic liquids. <i>Small</i> , 2006 , 2, 554-60	11	209
186	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	24	200
185	Unveiling a New Aspect of Simple Arylboronic Esters: Long-Lived Room-Temperature Phosphorescence from Heavy-Atom-Free Molecules. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2728-2733	16.4	192
184	High performance fully plastic actuator based on ionic-liquid-based bucky gel. <i>Electrochimica Acta</i> , 2008 , 53, 5555-5562	6.7	182
183	Redox-responsive molecular helices with highly condensed Eclouds. <i>Nature Chemistry</i> , 2011 , 3, 68-73	17.6	179

182	Amphiphilic molecular design as a rational strategy for tailoring bicontinuous electron donor and acceptor arrays: photoconductive liquid crystalline oligothiophene--C60 dyads. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8886-7	16.4	173
181	Electromechanical behavior of fully plastic actuators based on bucky gel containing various internal ionic liquids. <i>Electrochimica Acta</i> , 2009 , 54, 1762-1768	6.7	156
180	Large-area three-dimensional molecular ordering of a polymer brush by one-step processing. <i>Science</i> , 2010 , 330, 808-11	33.3	153
179	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, 21051-6	11.5	149
178	Ultraflexible organic amplifier with biocompatible gel electrodes. <i>Nature Communications</i> , 2016 , 7, 11425	5.4	139
177	Systematic studies on structural parameters for nanotubular assembly of hexa-peri-hexabenzocoronenes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 9434-40	16.4	132
176	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	15.6	109
175	A two-coordinate boron cation featuring C-B+-C bonding. <i>Nature Chemistry</i> , 2014 , 6, 498-503	17.6	105
174	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, 3414-7	16.4	102
173	"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, 17722-3	16.4	99
172	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, 8284-5	16.4	92
171	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, 9276-7	16.4	89
170	A Glass Hook Allows Fishing of Hexa-peri-hexabenzocoronene Graphitic Nanotubes: Fabrication of a Macroscopic Fiber with Anisotropic Electrical Conduction. <i>Advanced Materials</i> , 2006 , 18, 1297-1300	24	87
169	Conductive one-handed nanocoils by coassembly of hexabenzocoronenes: control of morphology and helical chirality. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1672-5	16.4	86
168	Helix Sense-Selective Supramolecular Polymerization Seeded by a One-Handed Helical Polymeric Assembly. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13792-5	16.4	85
167	An Absolute Asymmetric Synthesis of the [2 + 2] Cycloadduct via Single Crystal-to-Single Crystal Transformation by Charge-Transfer Excitation of Solid-State Molecular Complexes Composed of Arylolefins and Bis[1,2,5]thiadiazolotetracyanoquinodimethane. <i>Journal of the American Chemical Society</i> , 1994 , 116, 2793-2803	16.4	84
166	Organic thin films. Rational synthesis of organic thin films with exceptional long-range structural integrity. <i>Science</i> , 2015 , 348, 1122-6	33.3	81
165	Stabilization of a kinetically favored nanostructure: surface ROMP of self-assembled conductive nanocoils from a norbornene-appended hexa-peri-hexabenzocoronene. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14337-40	16.4	78

164	Discotic liquid crystals stabilized by interionic interactions: imidazolium ion-anchored paraffinic triphenylene. <i>Chemical Communications</i> , 2005 , 101-3	5.8	77
163	Photochemical stitching of a tubularly assembled hexabenzocoronene amphiphile by dimerization of coumarin pendants. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4220-1	16.4	76
162	Boron-mediated sequential alkyne insertion and C-C coupling reactions affording extended π -conjugated molecules. <i>Nature Communications</i> , 2016 , 7, 12704	17.4	75
161	Discotic ionic liquid crystals of triphenylene as dispersants for orienting single-walled carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 8490-4	16.4	73
160	Electric Double-Layer Capacitors Using Bucky Gels Consisting of an Ionic Liquid and Carbon Nanotubes. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1913	3.9	71
159	Wide-range 2D lattice correlation unveiled for columnar assembled triphenylene hexacarboxylic esters. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7990-3	16.4	66
158	Metal-ion-coated graphitic nanotubes: controlled self-assembly of a pyridyl-appended gemini-shaped hexabenzocoronene amphiphile. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4747-50	16.4	66
157	Hexabenzocoronene graphitic nanotube appended with dithienylethene pendants: photochromism for the modulation of photoconductivity. <i>Advanced Materials</i> , 2010 , 22, 829-32	24	65
156	Dynamic Redox Systems as Electrochromic Materials: Bistability and Advanced Response. <i>Synlett</i> , 2007 , 2007, 0851-0869	2.2	65
155	A few-layer molecular film on polymer substrates to enhance the performance of organic devices. <i>Nature Nanotechnology</i> , 2018 , 13, 139-144	28.7	64
154	Radially diblock nanotube: site-selective functionalization of a tubularly assembled hexabenzocoronene. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1530-1	16.4	55
153	Formation of water-dispersible nanotubular graphitic assembly decorated with isothiuronium ion groups and its supramolecular functionalization. <i>Journal of the American Chemical Society</i> , 2007 , 129, 719-22	16.4	55
152	Supramolecular scaffolds enabling the controlled assembly of functional molecular units. <i>Chemical Science</i> , 2018 , 9, 2028-2041	9.4	53
151	Remarkable effects of terminal groups and solvents on helical folding of o-phenylene oligomers. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11084-7	16.4	53
150	Preparation, structure, and amphoteric redox properties of p-phenylenediamine-type dyes fused with a chalcogenadiazole unit. <i>Journal of Organic Chemistry</i> , 2001 , 66, 8954-60	4.2	53
149	Dynamic or nondynamic? Helical trajectory in hexabenzocoronene nanotubes biased by a detachable chiral auxiliary. <i>Journal of the American Chemical Society</i> , 2013 , 135, 114-7	16.4	52
148	Tetrafluoroborate salts as site-selective promoters for sol-gel synthesis of mesoporous silica. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9013-6	16.4	51
147	Use of side-chain incompatibility for tailoring long-range p/n heterojunctions: photoconductive nanofibers formed by self-assembly of an amphiphilic donor-acceptor dyad consisting of oligothiophene and perylenediimide. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 1566-72	4.5	47

146	Bioinspired design of a polymer gel sensor for the realization of extracellular Ca(2+) imaging. <i>Scientific Reports</i> , 2016 , 6, 24275	4.9	45
145	Induction of Single-Handed Helicity of Polyacetylenes Using Mechanically Chiral Rotaxanes as Chiral Sources. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14858-14862	16.4	41
144	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, 11727-33	16.4	38
143	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, 1031-4	16.4	37
142	Photoconductivity of Self-Assembled Hexabenzocoronene Nanotube: Insight into the Charge Carrier Mobilities on Local and Long-Range Scales. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2549-2554	6.4	36
141	Hexathioalkyl sumanenes: an electron-donating buckybowl as a building block for supramolecular materials. <i>Chemical Science</i> , 2017 , 8, 8405-8410	9.4	33
140	Improved Bath Sonication Method for Dispersion of Individual Single-Walled Carbon Nanotubes Using New Triphenylene-Based Surfactant. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 2000-2004	1.4	33
139	Synthesis and Property of Semicrystalline Anion Exchange Membrane with Well-Defined Ion Channel Structure. <i>Macromolecules</i> , 2015 , 48, 2576-2584	5.5	31
138	Formation of an Isolable Divinylborinium Ion through Twofold 1,2-Carboboration between a Diarylborinium Ion and Diphenylacetylene. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5312-5316	16.4	30
137	Triptycene Tripods for the Formation of Highly Uniform and Densely Packed Self-Assembled Monolayers with Controlled Molecular Orientation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5995-6005	16.4	30
136	Anisotropic Poisson Effect and Deformation-Induced Fluorescence Change of Elastic 9,10-Dibromoanthracene Single Crystals. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16195-16201	16.4	30
135	An anion-conductive microporous membrane composed of a rigid ladder polymer with a spirobiindane backbone. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17655-17659	13	29
134	Selective synthesis of single- and multi-walled supramolecular nanotubes by using solvophobic/solvophilic controls: stepwise radial growth via "coil-on-tube" intermediates. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11168-72	16.4	28
133	Isolation and X-ray Structural Determination of Both Folded and Twisted Conformers of Bis{4H,8H-4-(dicyanomethylene)-benzo[1,2-c:4,5-c']bis[1,2,5]thiadiazol-8-ylidene}, an Overcrowded Ethylene with High Electron Affinity. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 2495-2497		28
132	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	16.4	28
131	High-fidelity self-assembly pathways for hydrogen-bonding molecular semiconductors. <i>Scientific Reports</i> , 2017 , 7, 43098	4.9	27
130	The molecular and electronic structures of a thioaroyl cation formed by borinium ion-mediated C=S double bond cleavage of CS ₂ . <i>Chemical Communications</i> , 2015 , 51, 13342-5	5.8	27
129	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, 11074-8	9.5	27

128	o-Phenylene octamers as surface modifiers for homeotropic columnar ordering of discotic liquid crystals. <i>Journal of the American Chemical Society</i> , 2013 , 135, 14564-7	16.4	27
127	Mesoscopic Structural Aspects of Ca ²⁺ -Triggered Polymer Chain Folding of a Tetraphenylethene-Appended Poly(acrylic acid) in Relation to Its Aggregation-Induced Emission Behavior. <i>Macromolecules</i> , 2017 , 50, 5940-5945	5.5	26
126	Intramolecular Photoinduced Electron-Transfer Processes in Tetrathienylethylene-Quaterthiophene[60]Fullerene Triad in Solutions. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 250-256	2.8	26
125	An analytical system for single nanomaterials: combination of capillary electrophoresis with Raman spectroscopy or with scanning probe microscopy for individual single-walled carbon nanotube analysis. <i>Analytical Chemistry</i> , 2009 , 81, 7336-41	7.8	25
124	Soft materials with graphitic nanostructures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007 , 365, 1539-52	3	25
123	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	16.4	25
122	7,7,8,8-Tetraaryl-o-quinodimethane stabilized by dibenzo annulation: a helical π -electron system that exhibits electrochromic and unique chiroptical properties. <i>Chemistry - A European Journal</i> , 2013 , 19, 117-23	4.8	24
121	Rigid-to-Flexible Conformational Transformation: An Efficient Route to Ring-Opening of a Triaryl Base-Containing Ladder Polymer. <i>ACS Macro Letters</i> , 2017 , 6, 775-780	6.6	24
120	Solvation Dynamics of Fluorophores with an Anthroyloxy Group at the Heptane/Water Interface as Studied by Time-Resolved Total Internal Reflection Fluorescence Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 4786-4792	3.4	24
119	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	7.8	24
118	Hydrogen-bonded oligothiophene rosettes with a benzodithiophene terminal unit: self-assembly and application to bulk heterojunction solar cells. <i>Chemical Communications</i> , 2016 , 52, 7874-7	5.8	23
117	Induced-fit expansion and contraction of a self-assembled nanocube finely responding to neutral and anionic guests. <i>Nature Communications</i> , 2018 , 9, 4530	17.4	23
116	Supramolecular Assemblies of Ferrocene-Hinged Naphthalenediimides: Multiple Conformational Changes in Film States. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11245-53	16.4	22
115	Raising the metal-insulator transition temperature of VO ₂ thin films by surface adsorption of organic polar molecules. <i>Applied Physics Express</i> , 2015 , 8, 121101	2.4	21
114	First stable tetracyanodiphenylquinodimethane with a completely planar geometry: Preparation, X-ray structure, and highly conductive complexes of bis[1,2,5]thiadiazolo-TCNDQ. <i>Tetrahedron Letters</i> , 1999 , 40, 1175-1178	2	21
113	Synthesis and Catalytic Applications of a Triptycene-Based Monophosphine Ligand for Palladium-Mediated Organic Transformations. <i>ACS Omega</i> , 2017 , 2, 1930-1937	3.9	20
112	Dual-Controlled Macroscopic Motions in a Supramolecular Hierarchical Assembly of Motor Amphiphiles. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10985-10989	16.4	20
111	Pyrazino-tetracyanonaphthoquinodimethanes: sterically deformed electron acceptors affording zwitterionic radicals. <i>Tetrahedron</i> , 2004 , 60, 1997-2003	2.4	20

110	Impact of helical organization on the photovoltaic properties of oligothiophene supramolecular polymers. <i>Chemical Science</i> , 2018 , 9, 3638-3643	9.4	19
109	Mechanistic Study of Highly Efficient Direct 1,2-Carboboration of Alkynes with 9-Borafluorenes. <i>Chemistry - A European Journal</i> , 2018 , 24, 13223-13230	4.8	19
108	Unusual side-chain effects on charge-carrier lifetime in discotic liquid crystals. <i>Chemistry - an Asian Journal</i> , 2009 , 4, 876-80	4.5	18
107	A ternary blend of a polymer, fullerene, and insulating self-assembling triptycene molecules for organic photovoltaics. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18490-18498	13	17
106	Electronic Soft Materials Based on Graphitic Nanostructures. <i>Polymer Journal</i> , 2006 , 38, 743-756	2.7	17
105	Supramolecular Polymerization of Supermacrocycles: Effect of Molecular Conformations on Kinetics and Morphology. <i>Chemistry - A European Journal</i> , 2017 , 23, 5270-5280	4.8	16
104	Formation of environmentally stable hole-doped graphene films with instantaneous and high-density carrier doping via a boron-based oxidant. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	16
103	Charge Transport Properties of Hexabenzocoronene Nanotubes by Field Effect: Influence of the Oligoether Side Chains on the Mobility. <i>Chemistry Letters</i> , 2009 , 38, 888-889	1.7	16
102	A simple route to bimodal mesoporous silica via tetrafluoroborate ion-mediated hydrophobic transformation of template micellar surface. <i>Journal of Materials Chemistry</i> , 2005 , 15, 1329		16
101	Ethanol vapor-mediated maturing for the enhancement of structural regularity of hexagonal mesoporous silica films. <i>Chemical Communications</i> , 2004 , 2572-3	5.8	16
100	2,3,5,6,8,9-Hexabromosumanene: Synthesis and Its Application to Suzuki-Miyaura Cross-coupling. <i>Chemistry Letters</i> , 2017 , 46, 1368-1371	1.7	15
99	Tetracyanoquinodimethanes Fused With A [1,2,5]Chalcogenadiazole Ring. <i>Molecular Crystals and Liquid Crystals</i> , 1997 , 296, 165-180	0.5	15
98	Single-component organic semiconductors based on novel radicals that exhibit electrochemical amphotericity: preparation, crystal structures, and solid-state properties of N,N'-dicyanopyrazinonaphthoquinodiiminides substituted with an N-alkylpyridinium unit. <i>Journal of Organic Chemistry</i> , 2001 , 66, 216-24	4.2	15
97	Expandability of Ultralong C ₁₁ Bonds: Largely Different C1 ₁ C ₂ Bond Lengths Determined by Low-temperature X-ray Structural Analyses on Pseudopolymorphs of 1,1-Bis(4-fluorophenyl)-2,2-bis(4-methoxyphenyl)pyracene. <i>Chemistry Letters</i> , 2014 , 43, 86-88	1.7	14
96	Oxidative Protonolysis of the Expanded Central C ₁₁ Bond in a Di(spiroacridan)-type Hexaphenylethane Derivative Accompanied by UV-Vis, FL, and CD Spectral Changes. <i>Chemistry Letters</i> , 2014 , 43, 887-889	1.7	14
95	Ring shape-dependent self-sorting of pillar[n]arenes assembled on a surface. <i>Communications Chemistry</i> , 2018 , 1,	6.3	14
94	An Organic Borate Salt with Superior -Doping Capability for Organic Semiconductors. <i>Advanced Science</i> , 2020 , 7, 2001322	13.6	13
93	Spatiotemporal Dynamics of Aggregation-Induced Emission Enhancement Controlled by Optical Manipulation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7063-7068	16.4	13

- 92 Self-assembled graphitic nanotubes from an amphiphilic hexabenzocoronene bearing thiol functionalities: Redox-mediated polymerization and depolymerization. *Journal of Polymer Science Part A*, **2006**, 44, 5120-5127 2.5 13
- 91 Formation of an Isolable Divinylborinium Ion through Twofold 1,2-Carboboration between a Diarylborinium Ion and Diphenylacetylene. *Angewandte Chemie*, **2017**, 129, 5396-5400 3.6 12
- 90 Seamless growth of a supramolecular carpet. *Nature Communications*, **2016**, 7, 10653 17.4 12
- 89 Highly-ordered Triptycene Modifier Layer Based on Blade Coating for Ultraflexible Organic Transistors. *Scientific Reports*, **2019**, 9, 9200 4.9 12
- 88 (11)B Solid-State NMR Interaction Tensors of Linear Two-Coordinate Boron: The Dimesitylborinium Cation. *Inorganic Chemistry*, **2015**, 54, 11889-96 5.1 12
- 87 Preparation, Properties, and X-ray Structures of Bis(10-methyl-9-methyleneacridan)-type Electron Donors with a Thiophene, Bithiophene, or Terthiophene Skeleton: Redox Switching of Thiophene π -thienoquinoid Structure Accompanied by UV-Vis/NIR Electrochromic Response. *Chemistry Letters*, **2013**, 42, 1001-1006 1.7 12
- 86 Dibenzotetrathiafulvalenes inserted with cycloalkanes and their tricyclic valence isomers: reversible C-C bond making/breaking upon electron transfer. *Chemical Communications*, **1997**, 2325-2326 5.8 12
- 85 Discrete Self-Assembly and Functionality of Guest Molecules in an Organic Framework. *Chemistry of Materials*, **2016**, 28, 5847-5854 9.6 11
- 84 Electrochiroptical Response in Aqueous Media: 9,10-Dihydrophenanthrene-9,10-diyl Dications with Michler's Hydrol Blue Chromophores Attached with Oligoethylene Glycol Units. *Chemistry Letters*, **2014**, 43, 982-984 1.7 11
- 83 Form factor of an N-layered helical tape and its application to nanotube formation of hexa-peri-hexabenzocoronene-based molecules. *Journal of Applied Crystallography*, **2010**, 43, 850-857 3.8 11
- 82 Synthesis and Self-Assembly of Cyclic 2,7-Anthrylene Ethynylene 1,3-Phenylene Ethynylene Trimer with a Planar Conformation. *Chemistry - A European Journal*, **2016**, 22, 16760-16764 4.8 11
- 81 Highly air- and moisture-stable hole-doped carbon nanotube films achieved using boron-based oxidant. *Applied Physics Express*, **2017**, 10, 035101 2.4 10
- 80 Chiral crystal-like droplets displaying unidirectional rotational sliding. *Nature Materials*, **2019**, 18, 266-272 7.7 10
- 79 Synthesis and Reactivity of Cyclic Borane-Amidine Conjugated Molecules Formed by Direct 1,2-Carboboration of Carbodiimides with 9-Borafluorenes. *Chemistry - an Asian Journal*, **2019**, 14, 1879-1885 4.5 10
- 78 Electric-Field-Controllable Conductance Switching of an Overcrowded Ethylene Self-Assembled Monolayer. *Journal of the American Chemical Society*, **2019**, 141, 18544-18550 16.4 10
- 77 Possible One-Dimensional Helical Conductor: Hexa-peri-hexabenzocoronene Nanotube. *Journal of the Physical Society of Japan*, **2008**, 77, 034710 1.5 10
- 76 A design principle of polymers processable into 2D homeotropic order. *Nature Communications*, **2016**, 7, 13640 17.4 10
- 75 Highly efficient transformation of linear poly(phenylene ethynylene)s into zigzag-shaped π -conjugated microporous polymers through boron-mediated alkyne benzannulation. *Materials Chemistry Frontiers*, **2018**, 2, 807-814 7.8 9

74	Convenient Route to Monocarba-closo-dodecaborate Anions. <i>Organometallics</i> , 2016 , 35, 2022-2025	3.8	9
73	Narrower HOMO-LUMO gap attained by conformational switching through peripheral polyarylation in 1,4,5,8-tetraaza-9,10-anthraquinodimethanes. <i>Tetrahedron</i> , 2018 , 74, 2239-2244	2.4	8
72	Redox Switching of Conjugation Length Using 9,9,10,10-Tetraaryl-9,10-dihydrophenanthrene as an ON/OFF Unit: Preparation, X-ray Structure, and Redox Properties of Perfluorobiphenyl Derivative and Its SNAr Reactions to π -Extended Analogues. <i>Chemistry Letters</i> , 2013 , 42, 703-705	1.7	8
71	Magnetic field effect on the photocarriers in self-assembled hexabenzocoronene nanotubes. <i>Synthetic Metals</i> , 2010 , 160, 275-279	3.6	8
70	Translation of the assembling trajectory by preorganisation: a study of the magnetic properties of 1D polymeric unpaired electrons immobilised on a discrete nanoscopic scaffold. <i>Chemical Communications</i> , 2015 , 51, 1206-9	5.8	7
69	Topology Effect of AIEgen-Appended Poly(acrylic acid) with Biocompatible Segments on Ca^{2+} -Sensing and Protein-Adsorption-Resistance Properties. <i>ACS Macro Letters</i> , 2018 , 7, 711-715	6.6	7
68	Effect of Acceptor Lamination on Photocarrier Dynamics in Hole Transporting Hexabenzocoronene Nanotubular Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15295-15305	3.8	7
67	Oxidative Conversion of Tetraaryldihydrodibenzothiepins into Elemental Sulfur and Stable Cationic Dyes Accompanied by Dual UV-Vis and CD Spectral Changes. <i>Chemistry Letters</i> , 2013 , 42, 706-708	1.7	7
66	Photoinduced Electron Transfer from Tetrathienylethylenes to Fullerenes (C60/C70): Tetrathienylethylene-Dendrimer Effect. <i>Bulletin of the Chemical Society of Japan</i> , 2003 , 76, 1341-1349	5.1	7
65	Porous Honeycomb Self-Assembled Monolayers: Tripodal Adsorption and Hidden Chirality of Carboxylate Anchored Triptycenes on Ag. <i>ACS Nano</i> , 2021 ,	16.7	7
64	A highly sensitive humidity sensor based on an aggregation-induced emission luminogen-appended hygroscopic polymer microresonator. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 799-803	7.8	7
63	First-Principles Study of the Adsorption Behavior of Triptycene Molecular Tripods on Au(111): Site Selectivity and Unambiguous Molecular Orientation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4401-4406	3.8	6
62	Selective synthesis of diazacyclooctane -containing flexible ladder polymers with symmetrically or unsymmetrically substituted side chains. <i>Polymer Chemistry</i> , 2020 , 11, 3690-3694	4.9	6
61	Chemical hole doping into large-area transition metal dichalcogenide monolayers using boron-based oxidant. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 02CB15	1.4	6
60	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	1.4	6
59	Self-Assembled Nanotubes and Nanocoils from π -Conjugated Building Blocks 2008 , 1-27		6
58	A versatile scaffold for facile synthesis of fluorescent cyano-substituted stilbenes. <i>Tetrahedron</i> , 2019 , 75, 1079-1084	2.4	6
57	Sensing the chirality of various organic solvents by helically arranged π -blades. <i>Chemical Communications</i> , 2018 , 54, 12314-12317	5.8	6

56	Control of molecular orientation in a single-molecule junction with a tripodal triptycene anchoring unit: toward a simple and facile single-molecule diode. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 035003	1.4	5
55	An electron-accepting molecular unit exhibiting an orientational preference favorable for organic photovoltaic applications. <i>Thin Solid Films</i> , 2015 , 583, 34-39	2.2	5
54	Single-molecule junction of an overcrowded ethylene with binary conductance states. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 03EG05	1.4	5
53	Thermal and optical properties of multiblock macrocycles with hysteretic polymorphic transition. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 969-974	7.8	5
52	Ultralow-Noise Organic Transistors Based on Polymeric Gate Dielectrics with Self-Assembled Modifiers. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41561-41569	9.5	5
51	Amorphous Carbon-promoted Low-temperature Crystallization of Silica. <i>Chemistry Letters</i> , 2006 , 35, 228-229	1.7	5
50	Supramolecular Aggregation of m-Nitrobenzoic Acid by C ₆ H ₅ NO ₂ and O ₆ H ₅ NO ₂ Hydrogen Bondings in the Crystalline Charge-Transfer Complexes with Aromatic Hydrocarbons. <i>Journal of Organic Chemistry</i> , 1999 , 64, 7107-7113	4.2	5
49	An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21817-21823	16.4	5
48	A Theoretical Study on the Mechanism of the Oxidative Deborylation/C-C Coupling Reaction of Borepin Derivatives. <i>Journal of Organic Chemistry</i> , 2019 , 84, 1941-1950	4.2	4
47	Electrochromic and unique chiroptical properties of helically deformed tetraarylquinodimethanes generated from less-hindered dicationic precursors upon reduction. <i>Pure and Applied Chemistry</i> , 2014 , 86, 507-516	2.1	4
46	Fast fully plastic actuator based on ionic-liquid-based bucky gel 2008 ,		4
45	4,7-Bis(dimethylamino)benzimidazoles and twin-type derivatives: reversible two-stage redox system modulated by proton-transfer. <i>Tetrahedron Letters</i> , 2003 , 44, 7881-7884	2	4
44	Three-Way Output Molecular Response System Based on Tetrakis(3,4-dialkoxyphenyl)-3,4-dihydro[5]helicenes: Perturbation of Properties by Long Alkyl Chains. <i>Heterocycles</i> , 2015 , 90, 126	0.8	4
43	Rewriting the phase diagram of a diamagnetic liquid crystal by a magnetic field. <i>Nature Communications</i> , 2018 , 9, 4431	17.4	4
42	Mobility enhancement of DNTT and BTBT derivative organic thin-film transistors by triptycene molecule modification. <i>Organic Electronics</i> , 2021 , 96, 106219	3.5	4
41	Dual-Controlled Macroscopic Motions in a Supramolecular Hierarchical Assembly of Motor Amphiphiles. <i>Angewandte Chemie</i> , 2019 , 131, 11101-11105	3.6	3
40	Interface Dependence of Charge Formation Dynamics in Hexabenzocoronene. <i>Applied Physics Express</i> , 2012 , 5, 062401	2.4	3
39	Nanostructured silicate film templated by discotic CT-complex column. <i>Studies in Surface Science and Catalysis</i> , 2003 , 73-76	1.8	3

38	Switching of the conformational flexibility of a diazacyclooctane-containing ladder polymer by coordination and elimination of a Lewis acid. <i>Polymer Chemistry</i> , 2020 , 11, 236-240	4.9	3
37	Anisotropic Poisson Effect and Deformation-Induced Fluorescence Change of Elastic 9,10-Dibromoanthracene Single Crystals. <i>Angewandte Chemie</i> , 2020 , 132, 16329-16335	3.6	3
36	Self-Assembly Growth of an Upright Molecular Precursor with a Rigid Framework. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 31272-31278	3.8	3
35	9,9'-Bi(xanthene)-Type Hexaphenylethane Derivatives as Advanced Organic Electrochromic Systems. <i>Heterocycles</i> , 2021 , 102, 419	0.8	3
34	An Air- and Water-Stable B N -Heteropentalene Serving as a Host Material for a Phosphorescent OLED. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23812-23818	16.4	3
33	Quantum Chemical Studies on Electron-Accepting Overcrowded Ethylene with a Polarizable Skeleton. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 7797-7806	2.8	2
32	Temperature Dependence of Magnetophotoconductance in One-Dimensional Molecular Assembly of Hexabenzocoronene. <i>ACS Omega</i> , 2017 , 2, 3260-3266	3.9	2
31	Tetrathiafulvalene Hybridized with Indacenetetraone as Visible-light-harvesting Electron Acceptor Applicable to Bulk-heterojunction Organic Photovoltaics. <i>Chemistry Letters</i> , 2013 , 42, 1417-1419	1.7	2
30	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	9.4	2
29	Chalcogen Bond versus Weak Hydrogen Bond: Changing Contributions in Determining the Crystal Packing of [1,2,5]-Chalcogenadiazole-Fused Tetracyanonaphthoquinodimethanes. <i>Organic Materials</i> , 2021 , 03, 090-096	1.9	2
28	Two-step Conformational Control of a Dibenzo Diazacyclooctane Derivative by Stepwise Protonation. <i>Asian Journal of Organic Chemistry</i> , 2021 , 10, 1377-1381	3	2
27	An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence. <i>Angewandte Chemie</i> , 2021 , 133, 21988-21994	3.6	2
26	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	5.8	2
25	Analysis of Interconversion between Atropisomers of Chiral Substituted 9,9-Bicarbazole. <i>European Journal of Organic Chemistry</i> , 2021 , 2021, 449-451	3.2	2
24	Sumanene Hexaester: An Electron-Deficient Buckybowl. <i>Synthesis</i> , 2019 , 51, 4576-4581	2.9	1
23	Spatiotemporal Dynamics of Aggregation-Induced Emission Enhancement Controlled by Optical Manipulation. <i>Angewandte Chemie</i> , 2020 , 132, 7129-7134	3.6	1
22	Molecular Wires with Controllable π-Delocalization Incorporating Redox-Triggered π-Conjugated Switching Units. <i>ChemPlusChem</i> , 2019 , 84, 634-642	2.8	1
21	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	6.6	1

20	Stereoselective Encapsulation for a Triarylmethyl cation o,o-Dimer by Natural β -Cyclodextrin: Origin of Chiral Recognition for the Axially Chiral Dicationic Guest. <i>Heterocycles</i> , 2017 , 94, 1123	0.8	1
19	Visualization of Thermal Transport Properties of Self-Assembled Monolayers on Au(111) by Contact and Noncontact Scanning Thermal Microscopy. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18777-18783	16.4	1
18	Room-Temperature Pentacene Fluids: Oligoethylene Glycol Substituent-Controlled Morphologies and Singlet Fission. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 11910-11918	3.4	1
17	Observation of Borane-Olefin Proximity Interaction Governing the Structure and Reactivity of Boron-Containing Macrocycles. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 14630-14635	16.4	1
16	Perchlorinated Triptycene Tribenzoquinone. <i>Chemistry Letters</i> , 2021 , 50, 1240-1243	1.7	1
15	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	4.5	1
14	Thermal transport properties of an oriented thin film of a paraffinic tripodal triptycene. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, 038002	1.4	1
13	Cyano-Substituted Triptycene-Based Monolayers on Au(111): Tripodal Adsorption, Dipole Engineering, and Charge Transfer. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 18968-18978	3.8	1
12	An Air- and Water-Stable B ₄ N ₄ -Heteropentalene Serving as a Host Material for a Phosphorescent OLED. <i>Angewandte Chemie</i> , 2021 , 133, 24005	3.6	1
11	Manipulation of dual fluorescence behavior in aggregation-induced emission enhancement of a tetraphenylethene-appended polymer by optical tweezers. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5920-5929	7.1	1
10	Cavitand-Based Pd-Pyridyl Coordination Capsules: Guest-Induced Homo- or Heterocapsule Selection and Applications of Homocapsules to the Protection of a Photosensitive Guest and Chiral Capsule Formation. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 2218-2230	4.5	0
9	Graphitic Nanotubes Formed by Programmed Self-Assembly. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2007 , 65, 852-861	0.2	0
8	Observation of Borane-Olefin Proximity Interaction Governing the Structure and Reactivity of Boron-Containing Macrocycles. <i>Angewandte Chemie</i> , 2021 , 133, 14751-14756	3.6	0
7	Thermal and Gas Adsorption Properties of Tröger's Base/Diaza-cyclooctane Hybrid Ladder Polymers. <i>ChemNanoMat</i> , 2021 , 7, 824-830	3.5	0
6	End-functionalization of dithiarubicene: modulation of optoelectronic properties by metal-catalyzed coupling reactions and device application. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5920-5929	7.1	0
5	Scanning tunnelling microscopy analysis of octameric o-phenylenes on Au(111). <i>RSC Advances</i> , 2016 , 6, 55970-55975	3.7	0
4	Reaktivtitelbild: Formation of an Isolable Divinylborinium Ion through Twofold 1,2-Carboboration between a Diarylborinium Ion and Diphenylacetylene (Angew. Chem. 19/2017). <i>Angewandte Chemie</i> , 2017 , 129, 5456-5456	3.6	0
3	Innentitelbild: An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence (Angew. Chem. 40/2021). <i>Angewandte Chemie</i> , 2021 , 133, 21766-21766	3.6	0

- 2 A single-molecule conductance study on the rotational isomers of a hexaarylbenzene derivative carrying dipolar rotating units. *Japanese Journal of Applied Physics*, **2021**, 60, 108002 1.4
- 1 On the cutting edge: anterior transpetrosal approach vs the middle fossa approach. Clinical application, surgical anatomy, and results. *Sel'novskij Vestnik*, **2022**, 12, 19-28 0.3