

# Takashi Kato

## List of Publications by Citations

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473  
papers

26,174  
citations

82  
h-index

148  
g-index

525  
ext. papers

27,762  
ext. citations

7.6  
avg, IF

7.33  
L-index

#	Paper	IF	Citations
473	Functional liquid-crystalline assemblies: self-organized soft materials. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 45, 38-68	16.4	1358
472	Crystal engineering: from structure to function. <i>Science</i> , <b>2002</b> , 295, 2410-3	33.3	1161
471	Mechanically induced luminescence changes in molecular assemblies. <i>Nature Chemistry</i> , <b>2009</b> , 1, 605-10	17.6	1008
470	Mechanoresponsive Luminescent Molecular Assemblies: An Emerging Class of Materials. <i>Advanced Materials</i> , <b>2016</b> , 28, 1073-95	24	604
469	A new approach to mesophase stabilization through hydrogen bonding molecular interactions in binary mixtures. <i>Journal of the American Chemical Society</i> , <b>1989</b> , 111, 8533-8534	16.4	567
468	An acidic matrix protein, Pif, is a key macromolecule for nacre formation. <i>Science</i> , <b>2009</b> , 325, 1388-90	33.3	520
467	One-dimensional ion transport in self-organized columnar ionic liquids. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 994-5	16.4	409
466	Stacking of conical molecules with a fullerene apex into polar columns in crystals and liquid crystals. <i>Nature</i> , <b>2002</b> , 419, 702-5	50.4	367
465	One-dimensional ion-conductive polymer films: alignment and fixation of ionic channels formed by self-organization of polymerizable columnar liquid crystals. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 5570-7	16.4	363
464	Stabilization of a liquid-crystalline phase through noncovalent interaction with a polymer side chain. <i>Macromolecules</i> , <b>1989</b> , 22, 3818-3819	5.5	349
463	Stimuli-responsive luminescent liquid crystals: change of photoluminescent colors triggered by a shear-induced phase transition. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 5175-8	16.4	348
462	Solid-state CP/MAS carbon-13 NMR study of cellulose polymorphs. <i>Macromolecules</i> , <b>1989</b> , 22, 3168-3172	5.5	330
461	Calcium Carbonate/Organic Hybrid Materials. <i>Advanced Materials</i> , <b>2002</b> , 14, 869	24	302
460	Brightly tricolored mechanochromic luminescence from a single-luminophore liquid crystal: reversible writing and erasing of images. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 9128-32	16.4	281
459	Liquid-crystalline physical gels. <i>Chemical Society Reviews</i> , <b>2007</b> , 36, 1857-67	58.5	279
458	Use of intermolecular hydrogen bonding for the induction of liquid crystallinity in the side chain of polysiloxanes. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 6630-6639	16.4	279
457	Self-assembly of functional columnar liquid crystals. <i>Chemical Communications</i> , <b>2009</b> , 729-39	5.8	278

456	Transport of ions and electrons in nanostructured liquid crystals. <i>Nature Reviews Materials</i> , <b>2017</b> , 2, 73-3	256
455	Functional Liquid Crystals towards the Next Generation of Materials. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 4355-4371	16.4 251
454	Hydrogen-bonded liquid crystals. Novel mesogens incorporating nonmesogenic bipyridyl compounds through complexation between hydrogen-bond donor and acceptor moieties. <i>Chemistry of Materials</i> , <b>1993</b> , 5, 1094-1100	9.6 238
453	Self-organization of room-temperature ionic liquids exhibiting liquid-crystalline bicontinuous cubic phases: formation of nano-ion channel networks. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 10662-3	16.4 229
452	Electroactive supramolecular self-assembled fibers comprised of doped tetrathiafulvalene-based gelators. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 14769-75	16.4 225
451	A Stimuli-Responsive, Photoluminescent, Anthracene-Based Liquid Crystal: Emission Color Determined by Thermal and Mechanical Processes. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 1869-1875	15.6 223
450	Hydrogen-Bonded Liquid Crystalline Materials: Supramolecular Polymeric Assembly and the Induction of Dynamic Function. <i>Macromolecular Rapid Communications</i> , <b>2001</b> , 22, 797-814	4.8 217
449	Conjugated Oligothiophene-Based Polycatenar Liquid Crystals: Self-Organization and Photoconductive, Luminescent, and Redox Properties. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 411-419	15.6 197
448	Layered Ionic Liquids: Anisotropic Ion Conduction in New Self-Organized Liquid-Crystalline Materials. <i>Advanced Materials</i> , <b>2002</b> , 14, 351	24 196
447	Funktionelle flüssigkristalline Aggregate: selbstorganisierte weiche Materialien. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 44-74	3.6 189
446	A Liquid-Crystalline Polymer Network Built by Molecular Self-Assembly through Intermolecular Hydrogen Bonding. <i>Angewandte Chemie International Edition in English</i> , <b>1994</b> , 33, 1644-1645	188
445	Hydrogen-bonded liquid crystals built from hydrogen-bonding donors and acceptors. Infrared study on the stability of the hydrogen bond between carboxylic acid and pyridyl moieties. <i>Liquid Crystals</i> , <b>1993</b> , 14, 1311-1317	2.3 180
444	Thin-Film Formation of Calcium Carbonate Crystals: Effects of Functional Groups of Matrix Polymers. <i>Chemistry of Materials</i> , <b>2001</b> , 13, 688-693	9.6 179
443	Supramolecular chirality of thermotropic liquid-crystalline folic acid derivatives. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 1969-72	16.4 174
442	Noncovalent approach to one-dimensional ion conductors: enhancement of ionic conductivities in nanostructured columnar liquid crystals. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 1759-65	16.4 169
441	Molecular self-assembly of liquid crystalline side-chain polymers through intermolecular hydrogen bonding. Polymeric complexes built from a polyacrylate and stilbazoles. <i>Macromolecules</i> , <b>1992</b> , 25, 6836-6841	5.5 169
440	Self-organized calcium carbonate with regular surface-relief structures. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 5299-303	16.4 167
439	Photoresponsive Anisotropic Soft Solids: Liquid-Crystalline Physical Gels Based on a Chiral Photochromic Gelator. <i>Advanced Materials</i> , <b>2003</b> , 15, 1335-1338	24 165

- 438 A liquid-crystalline bistable [2]rotaxane. *Angewandte Chemie - International Edition*, **2007**, 46, 4675-9 16.4 158
- 437 Effects of macromolecules on the crystallization of CaCO<sub>3</sub> the Formation of Organic/Inorganic Composites. *Supramolecular Science*, **1998**, 5, 411-415 157
- 436 Electro-functional octupolar  $\pi$ -conjugated columnar liquid crystals. *Journal of the American Chemical Society*, **2011**, 133, 13437-44 16.4 150
- 435 3D interconnected ionic nano-channels formed in polymer films: self-organization and polymerization of thermotropic bicontinuous cubic liquid crystals. *Journal of the American Chemical Society*, **2011**, 133, 2163-9 16.4 146
- 434 Supramolecular Liquid-Crystalline Networks Built by Self-Assembly of Multifunctional Hydrogen-Bonding Molecules. *Chemistry of Materials*, **1996**, 8, 961-968 9.6 146
- 433 Template Effect of Crystalline Poly(vinyl alcohol) for Selective Formation of Aragonite and Vaterite CaCO<sub>3</sub>Thin Films. *Macromolecules*, **2003**, 36, 6449-6452 5.5 144
- 432 Hydrogen bonding and the self-assembly of supramolecular liquid-crystalline materials. *Macromolecular Symposia*, **1995**, 98, 311-326 0.8 143
- 431 Hydrogen-Bonded Liquid Crystals: Molecular Self-Assembly for Dynamically Functional Materials **2000**, 95-146 141
- 430 Induction of thermotropic bicontinuous cubic phases in liquid-crystalline ammonium and phosphonium salts. *Journal of the American Chemical Society*, **2012**, 134, 2634-43 16.4 133
- 429 Nanostructured liquid crystals combining ionic and electronic functions. *Journal of the American Chemical Society*, **2010**, 132, 7702-8 16.4 131
- 428 Dendritic folate rosettes as ion channels in lipid bilayers. *Journal of the American Chemical Society*, **2006**, 128, 2218-9 16.4 130
- 427 Self-organized liquid-crystalline nanostructured membranes for water treatment: selective permeation of ions. *Advanced Materials*, **2012**, 24, 2238-41 24 129
- 426 Nanostructured anisotropic ion-conductive films. *Journal of the American Chemical Society*, **2003**, 125, 3196-7 16.4 129
- 425 Aragonite CaCO<sub>3</sub> thin-film formation by cooperation of Mg<sup>2+</sup> and organic polymer matrices. *Chemical Communications*, **2000**, 487-488 5.8 129
- 424 Self-organization of oriented calcium carbonate/polymer composites: effects of a matrix peptide isolated from the exoskeleton of a crayfish. *Angewandte Chemie - International Edition*, **2006**, 45, 2876-9 16.4 128
- 423 Nanostructured ion-conductive films: Layered assembly of a side-chain liquid-crystalline polymer with an imidazolium ionic moiety. *Journal of Polymer Science Part A*, **2003**, 41, 3486-3492 2.5 117
- 422 Biomineralization-inspired synthesis of functional organic/inorganic hybrid materials: organic molecular control of self-organization of hybrids. *Organic and Biomolecular Chemistry*, **2015**, 13, 974-89 3.9 115
- 421 Clicked Interlocked Molecules. *Bulletin of the Chemical Society of Japan*, **2007**, 80, 1856-1869 5.1 114

4 <sup>20</sup>	Synthesis and structural, electrochemical, and stacking properties of conical molecules possessing buckyferrocene on the apex. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 9586-7	16.4	114
4 <sup>19</sup>	Liquid-Crystalline Complexes of Mesogenic Dimers Containing Oxyethylene Moieties with LiCF <sub>3</sub> SO <sub>3</sub> : Self-Organized Ion Conductive Materials. <i>Chemistry of Materials</i> , <b>2000</b> , 12, 782-789	9.6	114
4 <sup>18</sup>	Stacking of molecules possessing a fullerene apex and a cup-shaped cavity connected by a silicon connection. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 432-3	16.4	113
4 <sup>17</sup>	3D Anhydrous proton-transporting nanochannels formed by self-assembly of liquid crystals composed of a sulfobetaine and a sulfonic acid. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 15286-9	16.4	112
4 <sup>16</sup>	From nanostructured liquid crystals to polymer-based electrolytes. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 7847-8	16.4	112
4 <sup>15</sup>	Nano-segregated polymeric film exhibiting high ionic conductivities. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 15618-23	16.4	109
4 <sup>14</sup>	Gelation of Room-Temperature Liquid Crystals by the Association of a trans-1,2-Bis(amino)cyclohexane Derivative. <i>Advanced Materials</i> , <b>1998</b> , 10, 606-608	24	107
4 <sup>13</sup>	Nanosegregated Amorphous Composites of Calcium Carbonate and an Organic Polymer. <i>Advanced Materials</i> , <b>2008</b> , 20, 3633-3637	24	107
4 <sup>12</sup>	Supramolecular Liquid-Crystalline Complexes Exhibiting Room-Temperature Mesophases and Electrooptic Effects. Hydrogen-Bonded Mesogens Derived from Alkylpyridines and Benzoic Acids. <i>Chemistry of Materials</i> , <b>1995</b> , 7, 368-372	9.6	107
4 <sup>11</sup>	Self-assembly of thermotropic liquid-crystalline folic acid derivatives: hydrogen-bonded complexes forming layers and columns. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 2875-2886		106
4 <sup>10</sup>	Color-tunable fluorescent organogels: columnar self-assembly of pyrene-containing oligo(glutamic acid)s. <i>Langmuir</i> , <b>2007</b> , 23, 274-8	4	103
4 <sup>09</sup>	Structures and Properties of Supramolecular Liquid-Crystalline Side-Chain Polymers Built through Intermolecular Hydrogen Bonds. <i>Macromolecules</i> , <b>1996</b> , 29, 8734-8739	5.5	103
4 <sup>08</sup>	Macroscopic photocontrol of ion-transporting pathways of a nanostructured imidazolium-based photoresponsive liquid crystal. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 9552-5	16.4	102
4 <sup>07</sup>	Macromolecular Templating for the Formation of Inorganic-Organic Hybrid Structures. <i>MRS Bulletin</i> , <b>2010</b> , 35, 127-132	3.2	102
4 <sup>06</sup>	Induction of Ferroelectricity in Polymeric Systems through Hydrogen Bonding. <i>Angewandte Chemie International Edition in English</i> , <b>1992</b> , 31, 1531-1533		102
4 <sup>05</sup>	Full-color tunable photoluminescent ionic liquid crystals based on tripodal pyridinium, pyrimidinium, and quinolinium salts. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 5652-61	16.4	101
4 <sup>04</sup>	Columnar Liquid-Crystalline Imidazolium Salts. Effects of Anions and Cations on Mesomorphic Properties and Ionic Conductivities. <i>Bulletin of the Chemical Society of Japan</i> , <b>2007</b> , 80, 1836-1841	5.1	98
4 <sup>03</sup>	Fast and High-Contrast Electro-optical Switching of Liquid-Crystalline Physical Gels: Formation of Oriented Microphase-Separated Structures. <i>Advanced Functional Materials</i> , <b>2003</b> , 13, 313-317	15.6	94

- 402 An electrochromic nanostructured liquid crystal consisting of pi-conjugated and ionic moieties. *Journal of the American Chemical Society*, **2008**, 130, 13206-7 16.4 93
- 401 Supramolecular Liquid-Crystalline Side-Chain Polymers Built through a Molecular Recognition Process by Double Hydrogen Bonds. *Macromolecules*, **1995**, 28, 8875-8876 5.5 93
- 400 Self-Assembly of Liquid Crystalline Complexes Having Angular Structures through Intermolecular Hydrogen Bonding. *Chemistry Letters*, **1992**, 21, 265-268 1.7 93
- 399 Stimuli-Responsive Luminescent Liquid Crystals: Change of Photoluminescent Colors Triggered by a Shear-Induced Phase Transition. *Angewandte Chemie*, **2008**, 120, 5253-5256 3.6 92
- 398 A new urea gelator: incorporation of intra- and intermolecular hydrogen bonding for stable 1D self-assembly. *Organic and Biomolecular Chemistry*, **2003**, 1, 3464-9 3.9 91
- 397 Self-assembly of folic acid derivatives: induction of supramolecular chirality by hierarchical chiral structures. *Chemistry - A European Journal*, **2004**, 10, 5942-51 4.8 89
- 396 Brightly Tricolored Mechanochromic Luminescence from a Single-Luminophore Liquid Crystal: Reversible Writing and Erasing of Images. *Angewandte Chemie*, **2011**, 123, 9294-9298 3.6 88
- 395 Self-Aggregation of an Amino Acid Derivative in a Liquid-Crystalline Physical Gel/Easter Response to Electric Fields. *Advanced Materials*, **1999**, 11, 392-394 24 85
- 394 Macroscopically ordered polymer/CaCO<sub>3</sub> hybrids prepared by using a liquid-crystalline template. *Angewandte Chemie - International Edition*, **2008**, 47, 2800-3 16.4 83
- 393 A liquid-crystalline [2]catenane and its copper(I) complex. *Angewandte Chemie - International Edition*, **2007**, 46, 4680-3 16.4 82
- 392 Layered Thin-Film Composite Consisting of Polymers and Calcium Carbonate: A Novel Organic/Inorganic Material with an Organized Structure. *Chemistry Letters*, **2000**, 29, 186-187 1.7 82
- 391 Electron transport and electrochemistry of mesomorphic fullerenes with long-range ordered lamellae. *Journal of the American Chemical Society*, **2008**, 130, 9236-7 16.4 81
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- 389 Hydrogen-Bonded Liquid Crystals. A Novel Mesogen Incorporating Nonmesogenic 4,4'-Bipyridine through Selective Recognition between Hydrogen Bonding Donor and Acceptor. *Chemistry Letters*, **1990**, 19, 2003-2006 1.7 81
- 388 Liquid-Crystalline Electrolytes for Lithium-Ion Batteries: Ordered Assemblies of a Mesogen-Containing Carbonate and a Lithium Salt. *Advanced Functional Materials*, **2015**, 25, 1206-1212 15.6 78
- 387 A planarized triphenylborane mesogen: discotic liquid crystals with ambipolar charge-carrier transport properties. *Angewandte Chemie - International Edition*, **2015**, 54, 6922-5 16.4 77
- 386 3D continuous water nanosheet as a gyroid minimal surface formed by bicontinuous cubic liquid-crystalline zwitterions. *Journal of the American Chemical Society*, **2012**, 134, 11354-7 16.4 77
- 385 Self-Assembly of a Twin Liquid Crystalline Complex through Intermolecular Hydrogen Bondings. *Chemistry Letters*, **1990**, 19, 919-922 1.7 77

384	A redox-switchable [2]rotaxane in a liquid-crystalline state. <i>Chemical Communications</i> , <b>2010</b> , 46, 1224-6	5.8	76
383	Electric-Field-Responsive Lithium-Ion Conductors of Propylenecarbonate-Based Columnar Liquid Crystals. <i>Advanced Materials</i> , <b>2009</b> , 21, 1591-1594	24	76
382	Hydrogen-bonded liquid crystals built from hydrogen-bonding donors and acceptors Infrared study on the stability of the hydrogen bond between carboxylic acid and pyridyl moieties. <i>Liquid Crystals</i> , <b>2006</b> , 33, 1429-1437	2.3	76
381	The positive effect on hole transport behaviour in anisotropic gels consisting of discotic liquid crystals and hydrogen-bonded fibres. <i>Chemical Communications</i> , <b>2002</b> , 428-9	5.8	76
380	Supramolecular hydrogen-bonded liquid-crystalline polymer complexes. Design of side-chain polymers and a host-guest system by noncovalent interaction. <i>Journal of Polymer Science Part A</i> , <b>1996</b> , 34, 57-62	2.5	75
379	Anisotropic proton-conductive materials formed by the self-organization of phosphonium-type zwitterions. <i>Advanced Materials</i> , <b>2011</b> , 23, 3071-4	24	73
378	Enhanced Hole-Transporting Behavior of Discotic Liquid-Crystalline Physical Gels. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 1668-1675	15.6	72
377	Columnar liquid crystalline pi-conjugated oligothiophenes. <i>Chemical Communications</i> , <b>2006</b> , 3399-401	5.8	72
376	A rodlike organogelator: fibrous aggregation of azobenzene derivatives with a syn-chiral carbonate moiety. <i>Chemical Communications</i> , <b>2002</b> , 1870-1	5.8	72
375	Use of Intermolecular Hydrogen Bonding between Imidazolyl Moieties and Carboxylic Acids for the Supramolecular Self-Association of Liquid-Crystalline Side-Chain Polymers and Networks. <i>Macromolecules</i> , <b>1998</b> , 31, 4475-4479	5.5	72
374	A Water-Soluble Mechanochromic Luminescent Pyrene Derivative Exhibiting Recovery of the Initial Photoluminescence Color in a High-Humidity Environment. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 5277-5284	15.6	71
373	Supramolecular liquid-crystalline materials: molecular self-assembly and self-organization through intermolecular hydrogen bonding. <i>Supramolecular Science</i> , <b>1996</b> , 3, 53-59		71
372	Mechanochromic luminescent liquid crystals based on a bianthryl moiety. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 2648	7.1	69
371	Functional Liquid-Crystalline Polymers for Ionic and Electronic Conduction <b>2007</b> , 151-179		68
370	Covalent attachment of mechanoresponsive luminescent micelles to glasses and polymers in aqueous conditions. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 4273-80	16.4	67
369	Electric field-assisted alignment of self-assembled fibers composed of hydrogen-bonded molecules having laterally fluorinated mesogens. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 6763-7	16.4	67
368	Liquid-Crystalline Assemblies Containing Ionic Liquids: An Approach to Anisotropic Ionic Materials. <i>Chemistry Letters</i> , <b>2002</b> , 31, 320-321	1.7	66
367	Anisotropic ion conduction in a unique smectic phase of self-assembled amphiphilic ionic liquids. <i>Chemical Communications</i> , <b>2005</b> , 1333-5	5.8	64

366	Electrooptical properties of liquid-crystalline physical gels: a new oligo(amino acid) gelator for light scattering display materials. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 2197-2201		63
365	Gelation of liquid crystals with self-assembled fibers. <i>Topics in Current Chemistry</i> , <b>2005</b> , 256, 219-36		62
364	Hydrogen-bonded ferroelectric liquid-crystalline complexes based on a chiral benzoic acid and stilbazoles. induction of chiral smectic C phases by molecular self-assembly. <i>Ferroelectrics</i> , <b>1993</b> , 148, 161-167	0.6	62
363	m x n stacks of discrete aromatic stacks in solution. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 9555-7	16.4	61
362	Homeotropically oriented nematic physical gels for electrooptical materials. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 2870		61
361	Self-Assembly of Giant Spherical Liquid-Crystalline Complexes and Formation of Nanostructured Dynamic Gels that Exhibit Self-Healing Properties. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14085-14089	16.4	60
360	Anisotropic Self-Aggregation of an Anthracene Derivative: Formation of Liquid-Crystalline Physical Gels in Oriented States. <i>Langmuir</i> , <b>2002</b> , 18, 7086-7088	4	60
359	Smectic liquid-crystalline physical gels. Anisotropic self-aggregation of hydrogen-bonded molecules in layered structures. <i>Chemical Communications</i> , <b>1999</b> , 781-782	5.8	59
358	Ionic Switch Induced by a Rectangular-Hexagonal Phase Transition in Benzenammonium Columnar Liquid Crystals. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 13212-5	16.4	57
357	Bistable Nematic Liquid Crystals with Self-Assembled Fibers. <i>Advanced Materials</i> , <b>2005</b> , 17, 692-696	24	57
356	Self-Assembly of Liquid-Crystalline Polyamide Complexes through the Formation of Double Hydrogen Bonds between a 2,6-Bis(amino)pyridine Moiety and Benzoic Acids. <i>Macromolecules</i> , <b>1998</b> , 31, 3551-3555	5.5	57
355	Supramolecular ferroelectric liquid crystals. Hydrogen-bonded complexes between benzoic acids and chiral stilbazoles. <i>Liquid Crystals</i> , <b>1996</b> , 21, 25-30	2.3	57
354	Mechanoresponsive liquid crystals exhibiting reversible luminescent color changes at ambient temperature. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 2752-2760	7.1	56
353	Nanostructured Two-Component Liquid-Crystalline Electrolytes for High-Temperature Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6496-6502	9.6	56
352	Liquid-Crystalline Dye-Sensitized Solar Cells: Design of Two-Dimensional Molecular Assemblies for Efficient Ion Transport and Thermal Stability. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6493-6500	9.6	55
351	Development of Nanostructured Water Treatment Membranes Based on Thermotropic Liquid Crystals: Molecular Design of Sub-Nanoporous Materials. <i>Advanced Science</i> , <b>2018</b> , 5, 1700405	13.6	54
350	Functional liquid-crystalline polymers and supramolecular liquid crystals. <i>Polymer Journal</i> , <b>2018</b> , 50, 149-166		54
349	Stimuli-responsive hydroxyapatite liquid crystal with macroscopically controllable ordering and magneto-optical functions. <i>Nature Communications</i> , <b>2018</b> , 9, 568	17.4	53

348	Bioinspired stiff and flexible composites of nanocellulose-reinforced amorphous CaCO <sub>3</sub> . <i>Materials Horizons</i> , <b>2014</b> , 1, 321	14.4	53
347	Formation of Helically Structured Chitin/CaCO <sub>3</sub> Hybrids through an Approach Inspired by the Biomineralization Processes of Crustacean Cuticles. <i>Small</i> , <b>2015</b> , 11, 5127-33	11	53
346	Anisotropic Self-Assembly of Photoluminescent Oligo(p-Phenylenevinylene) Derivatives in Liquid Crystals: An Effective Strategy for the Macroscopic Alignment of EGels. <i>Advanced Materials</i> , <b>2009</b> , 21, 4029-4033	24	53
345	Three-Dimensional Relief Structures of CaCO <sub>3</sub> Crystal Assemblies Formed by Spontaneous Two-Step Crystal Growth on a Polymer Thin Film. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 622-625	3.5	53
344	One-dimensional chiral self-assembly of pyrene derivatives based on dendritic oligopeptides. <i>Organic Letters</i> , <b>2006</b> , 8, 2463-6	6.2	52
343	Supramolecular Chirality of Thermotropic Liquid-Crystalline Folic Acid Derivatives. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 2003-2006	3.6	52
342	Effect of Methyl Groups onto Imidazolium Cation Ring on Liquid Crystallinity and Ionic Conductivity of Amphiphilic Ionic Liquids. <i>Chemistry Letters</i> , <b>2004</b> , 33, 1630-1631	1.7	52
341	Selective ring-opening polymerization of di-O-methylated and di-O-benzylated 1,4-anhydro- $\alpha$ -D-ribofuranoses and structure proof of synthetic cellulose-type polysaccharide (1,4-anhydro- $\alpha$ -D-ribofuranose) and (1,4-anhydro- $\beta$ -D-ribofuranose). <i>Journal of the American Chemical Society</i> , <b>1983</b> , 105, 6865-6871	16.4	52
340	CaCO <sub>3</sub> /chitin-whisker hybrids: formation of CaCO <sub>3</sub> crystals in chitin-based liquid-crystalline suspension. <i>Polymer Journal</i> , <b>2010</b> , 42, 583-586	2.7	51
339	Electro- and Photoactive Molecular Assemblies of Liquid Crystals and Physical Gels. <i>Chemistry Letters</i> , <b>2009</b> , 38, 634-639	1.7	51
338	Use of Amorphous Calcium Carbonate for the Design of New Materials. <i>ChemPlusChem</i> , <b>2017</b> , 82, 107-1208		50
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