

Takashi Kato

List of Publications by Year in Descending Order

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

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	Advanced Functional Liquid Crystals.. <i>Advanced Materials</i> , 2022 , e2109063	24	13
472	Removal of viruses from their cocktail solution by liquid-crystalline water-treatment membranes.. <i>Polymer Journal</i> , 2022 , 1-5	2.7	1
471	Anisotropic, Degradable Polymer Assemblies Driven by a Rigid Hydrogen-Bonding Motif That Induce Shape-Specific Cell Responses. <i>Macromolecules</i> , 2022 , 55, 15-25	5.5	
470	Gemini Thermotropic Smectic Liquid Crystals for Two-Dimensional Nanostructured Water-Treatment Membranes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20598-20605	9.5	7
469	Exploring Structures and Dynamics of Molecular Assemblies: Ultrafast Time-Resolved Electron Diffraction Measurements. <i>Accounts of Chemical Research</i> , 2021 , 54, 731-743	24.3	9
468	Supramolecular Association and Nanostructure Formation of Liquid Crystals and Polymers for New Functional Materials. <i>Bulletin of the Chemical Society of Japan</i> , 2021 , 94, 357-376	5.1	20
467	Methoxy-Functionalized Glycerol-Based Aliphatic Polycarbonate: Organocatalytic Synthesis, Blood Compatibility, and Hydrolytic Property. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 472-481	5.5	6
466	Self-healing and shape memory functions exhibited by supramolecular liquid-crystalline networks formed by combination of hydrogen bonding interactions and coordination bonding. <i>Chemical Science</i> , 2021 , 12, 6091-6098	9.4	8
465	Molecular insights on confined water in the nanochannels of self-assembled ionic liquid crystal. <i>Science Advances</i> , 2021 , 7,	14.3	9
464	Air/Water Interfacial Monolayer Assembly of Peptide-Conjugated Liquid-Crystalline Molecules. <i>Bulletin of the Chemical Society of Japan</i> , 2021 , 94, 2060-2067	5.1	4
463	High Virus Removal by Self-Organized Nanostructured 2D Liquid-Crystalline Smectic Membranes for Water Treatment. <i>Small</i> , 2020 , 16, e2001721	11	11
462	Formation of bis-benzimidazole and bis-benzoxazole through organocatalytic depolymerization of poly(ethylene terephthalate) and its mechanism. <i>Polymer Chemistry</i> , 2020 , 11, 4904-4913	4.9	6
461	Bioinspired selective synthesis of liquid-crystalline nanocomposites: formation of calcium carbonate-based composite nanodisks and nanorods. <i>Nanoscale Advances</i> , 2020 , 2, 2326-2332	5.1	4
460	Water Treatment: High Virus Removal by Self-Organized Nanostructured 2D Liquid-Crystalline Smectic Membranes for Water Treatment (Small 23/2020). <i>Small</i> , 2020 , 16, 2070128	11	
459	Shear-induced liquid-crystalline phase transition behaviour of colloidal solutions of hydroxyapatite nanorod composites. <i>Nanoscale</i> , 2020 , 12, 11468-11479	7.7	5
458	Nanostructured liquid-crystalline Li-ion conductors with high oxidation resistance: molecular design strategy towards safe and high-voltage-operation Li-ion batteries. <i>Chemical Science</i> , 2020 , 11, 10631-10637	9.4	13
457	Development of functional nanoporous membranes based on photocleavable columnar liquid crystals for selective adsorption of ionic dyes. <i>European Polymer Journal</i> , 2020 , 134, 109859	5.2	7

456	Transport mechanisms of water molecules and ions in sub-nano channels of nanostructured water treatment liquid-crystalline membranes: a molecular dynamics simulation study. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 604-611	4.2	8
455	Ion Selectivity of Water Molecules in Subnanoporous Liquid-Crystalline Water-Treatment Membranes: A Structural Study of Hydrogen Bonding. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23461-23465	16.4	10
454	Biomolecular Binding at Aqueous Interfaces of Langmuir Monolayers of Bioconjugated Amphiphilic Mesogenic Molecules: A Molecular Dynamics Study. <i>Langmuir</i> , 2020 , 36, 12281-12287	4	6
453	Thermally tunable selective formation of self-assembled fibers into two orthogonal directions in oriented liquid-crystalline smectic templates. <i>Chemical Communications</i> , 2020 , 56, 9954-9957	5.8	4
452	Ion Selectivity of Water Molecules in Subnanoporous Liquid-Crystalline Water-Treatment Membranes: A Structural Study of Hydrogen Bonding. <i>Angewandte Chemie</i> , 2020 , 132, 23667-23671	3.6	
451	Alkyl-Substituted Selenium-Bridged V-Shaped Organic Semiconductors Exhibiting High Hole Mobility and Unusual Aggregation Behavior. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14974-14984	16.4	12
450	Charge Transport Simulations for Organic Semiconductors 2019 , 1-23		
449	Molecular Technology for Organic Semiconductors Toward Printed and Flexible Electronics 2019 , 57-79		
448	Photo-Control of Molecular Alignment for Photonic and Mechanical Applications 2019 , 105-127		
447	Molecular Technology for Chirality Control: From Structure to Circular Polarization 2019 , 129-154		1
446	Molecular Design of Photocathode Materials for Hydrogen Evolution and Carbon Dioxide Reduction 2019 , 251-286		
445	Ultrafast isomerization-induced cooperative motions to higher molecular orientation in smectic liquid-crystalline azobenzene molecules. <i>Nature Communications</i> , 2019 , 10, 4159	17.4	26
444	Polymerizable Photocleavable Columnar Liquid Crystals for Nanoporous Water Treatment Membranes. <i>ACS Macro Letters</i> , 2019 , 8, 1303-1308	6.6	21
443	Switching of ionic conductivities in columnar liquid-crystalline anilinium salts: effects of alkyl chains, ammonium cations and counter anions on thermal properties and switching temperatures. <i>Molecular Systems Design and Engineering</i> , 2019 , 4, 342-347	4.6	5
442	Catechol-Containing Polymers: A Biomimetic Approach for Creating Novel Adhesive and Reducing Polymers 2019 , 53-70		1
441	Thermotropic Columnar Liquid Crystals Based on Wedge-Shaped Phenylphosphonic Acids. <i>Bulletin of the Chemical Society of Japan</i> , 2019 , 92, 1450-1452	5.1	3
440	Flapping Molecules for Photofunctional Materials 2019 , 17-51		7
439	Cooperative Double Activation Metal/Metal and Metal/Organic Catalysis Enabling Challenging Organic Reactions 2019 , 95-118		0

- 438 Organic Molecular Catalysts in Radical Chemistry: Challenges Toward Selective Transformations **2019**, 163-197 1
- 437 Self-Assembled Liquid-Crystalline Ion Conductors: Odd-Even Effects of Flexible Spacers Binding a Carbonate Moiety and an Aliphatic Rod-Like Core on Phase Transition Properties and Ion Conductivities. *Bulletin of the Chemical Society of Japan*, **2019**, 92, 1226-1233 5.1 6
- 436 Liquid-Phase Interfacial Synthesis of Highly Oriented Crystalline Molecular Nanosheets **2019**, 25-55
- 435 Molecular Technology for One- and Two-Dimensional Materials on Surfaces **2019**, 305-341
- 434 Chemical Functionalization of Graphitic Nanocarbons **2019**, 31-50
- 433 Molecular Technology of Excited Triplet State **2019**, 155-186
- 432 Molecular Technologies for Photocatalytic CO₂ Reduction **2019**, 209-249 2
- 431 Solution Plasma Reactions and Materials Synthesis **2019**, 137-172 2
- 430 Control of DNA Packaging by Block Cationomers for Systemic Gene Delivery System **2019**, 1-23
- 429 Molecular Technology for Degradable Synthetic Hydrogels for Biomaterials **2019**, 203-218
- 428 Molecular Technology for Epigenetics Toward Drug Discovery **2019**, 219-255
- 427 Molecular Technology for Highly Efficient Gene Silencing: DNA/RNA Heteroduplex Oligonucleotides **2019**, 257-271
- 426 Molecular Technology for Highly Sensitive Biomolecular Analysis: Hyperpolarized NMR/MRI Probes **2019**, 273-296
- 425 Molecular Technologies in Life Innovation: Novel Molecular Technologies for Labeling and Functional Control of Proteins Under Live Cell Conditions **2019**, 297-328
- 424 Molecular Technologies for Pseudo-natural Peptide Synthesis and Discovery of Bioactive Compounds Against Undruggable Targets **2019**, 329-370 0
- 423 Manipulation of Molecular Architecture with DNA **2019**, 25-41
- 422 Chemical Assembly Lines for Skeletally Diverse Indole Alkaloids **2019**, 43-70 2
- 421 Molecular Technology for Injured Brain Regeneration **2019**, 71-85

420	Engineering the Ribosomal Translation System to Introduce Non-proteinogenic Amino Acids into Peptides 2019 , 87-111			1
419	Development of Functional Nanoparticles and Their Systems Capable of Accumulating to Tumors 2019 , 113-130			
418	Glycan Molecular Technology for Highly Selective In Vivo Recognition 2019 , 131-163			
417	Molecular Technology Toward Expansion of Nucleic Acid Functionality 2019 , 165-181			
416	Molecular Technology for Membrane Functionalization 2019 , 183-202			
415	Molecular Simulations of Deformation and Fracture Processes of Crystalline Polymers 2019 , 85-106			1
414	Polymerization-Induced Self-assembly of Block Copolymer Nano-objects via Green RAFT Polymerization 2019 , 1-29			0
413	Liquid-Crystalline Hydroxyapatite/Polymer Nanorod Hybrids: Potential Bioplatfrom for Photodynamic Therapy and Cellular Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17759-17765	9.5		18
412	Tuning the c-Axis Orientation of Calcium Phosphate Hybrid Thin Films Using Polymer Templates. <i>Langmuir</i> , 2019 , 35, 4077-4084	4		4
411	Development of biomineralization-inspired hybrids based on Ehitin and zinc hydroxide carbonate and their conversion into zinc oxide thin films. <i>CrystEngComm</i> , 2019 , 21, 2893-2899	3.3		0
410	Design of Multiproton-Responsive Metal Complexes as Molecular Technology for Transformation of Small Molecules 2019 , 81-103			4
409	Global Reaction Route Mapping Strategy: A Tool for Finding New Chemistry in Computers 2019 , 173-199			
408	A Tale of Chirality Transfer, Multistep Chirality Transfer from Molecules to Molecular Assemblies, Organic to Inorganic Materials, Then to Functional Materials 2019 , 107-136			
407	Single Molecule Magnet for Quantum Information Process' 2019 , 263-304			3
406	Dimension control of ionic liquids. <i>Chemical Communications</i> , 2019 , 55, 8205-8214	5.8		27
405	Molecular Design of Glucose Biofuel Cell Electrodes 2019 , 287-306			
404	Material Transfer and Spontaneous Motion in Mesoscopic Scale with Molecular Technology 2019 , 187-208			1
403	Control of Electronic Property of C60 Fullerene via Polymerization 2019 , 1-16			

- 402 Multi-timescale Measurements with Energetic Beams for Molecular Technology **2019**, 235-261
- 401 Development of Ultra-microfabricating Polymeric Materials and Its Self-assembly Technology **2019**, 71-83
- 400 Computational Molecular Technology Toward Macroscopic Chemical Phenomena: Red Moon Methodology and Its Related Applications **2019**, 201-234 1
- 399 Self-assembled Monolayers from Carbon-Based Ligands on Metal Surfaces **2019**, 259-296
- 398 Synthetic Methods Using Interactions Between Sustainable Iron Reagents and Functionalized Carbon-Carbon Multiple Bonds **2019**, 51-76
- 397 Molecular Technology for Switch and Amplification of Chirality in Asymmetric Catalysis Using a Helically Dynamic Macromolecular Scaffold as a Source of Chirality **2019**, 77-94
- 396 Siloxane-Based Building Blocks for Molecular Technology **2019**, 119-161 1
- 395 Coordination Molecular Technology **2019**, 199-229 8
- 394 Molecular Technology for Synthesis of Versatile Copolymers via Multiple Polymerization Mechanisms **2019**, 231-258
- 393 Supramolecular Web and Application for Chiroptical Functionalization of Polymer **2019**, 297-337 0
- 392 Hairy Particles Synthesized by Surface-Initiated Living Radical Polymerization **2019**, 379-397
- 391 Static structure and dynamical behavior of colloidal liquid crystals consisting of hydroxyapatite-based nanorod hybrids. *Soft Matter*, **2019**, 15, 3315-3322 3.6 8
- 390 Designer Molecules Toward Sequence-Controlled Polymers via Chain-Growth Propagation Mechanism **2019**, 369-377
- 389 Conformational Analysis of Organic Molecules with Single-Molecule Atomic-Resolution Real-Time Transmission Electron Microscopy (SMART-TEM) Imaging **2019**, 339-368
- 388 Nanostructured Virus Filtration Membranes Based on Two-Component Columnar Liquid Crystals. *ACS Macro Letters*, **2019**, 8, 24-30 6.6 23
- 387 Liquid-crystalline behavior and ion transport properties of block-structured molecules containing a perfluorinated ethylene oxide moiety complexed with a lithium salt. *Polymer Journal*, **2018**, 50, 889-898 2.7 2
- 386 Stimuli-responsive hydroxyapatite liquid crystal with macroscopically controllable ordering and magneto-optical functions. *Nature Communications*, **2018**, 9, 568 17.4 53
- 385 Development of Nanostructured Water Treatment Membranes Based on Thermotropic Liquid Crystals: Molecular Design of Sub-Nanoporous Materials. *Advanced Science*, **2018**, 5, 1700405 13.6 54

384	Design of 3D continuous proton conduction pathway by controlling co-organization behavior of gemini amphiphilic zwitterions and acids. <i>Solid State Ionics</i> , 2018 , 317, 39-45	3.3	11
383	Noncovalent Approach to Liquid-Crystalline Ion Conductors: High-Rate Performances and Room-Temperature Operation for Li-Ion Batteries. <i>ACS Omega</i> , 2018 , 3, 159-166	3.9	19
382	Self-assembly of Liquid-crystalline Squaramides. <i>Chemistry Letters</i> , 2018 , 47, 601-604	1.7	3
381	Functional Liquid Crystals towards the Next Generation of Materials. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4355-4371	16.4	251
380	Guanine-oligothiophene conjugates: liquid-crystalline properties, photoconductivities and ion-responsive emission of their nanoscale assemblies. <i>Chemical Science</i> , 2018 , 9, 576-585	9.4	20
379	Selective lithium ion recognition in self-assembled columnar liquid crystals based on a lithium receptor. <i>Chemical Science</i> , 2018 , 9, 608-616	9.4	19
378	Design of Dication-Type Amino Acid Ionic Liquids and Their Application to Self-Assembly Media of Amphiphiles. <i>Bulletin of the Chemical Society of Japan</i> , 2018 , 91, 1-5	5.1	10
377	Functional liquid-crystalline polymers and supramolecular liquid crystals. <i>Polymer Journal</i> , 2018 , 50, 149-166	5.4	54
376	Von funktionellen Flüssigkristallen zur nächsten Generation von Materialien. <i>Angewandte Chemie</i> , 2018 , 130, 4438-4455	3.6	24
375	Bioinspired Environmentally Friendly Amorphous CaCO ₃ -Based Transparent Composites Comprising Cellulose Nanofibers. <i>ACS Omega</i> , 2018 , 3, 12722-12729	3.9	13
374	One-dimensional supramolecular hybrids: self-assembled nanofibrous materials based on a sugar gelator and calcite developed along an unusual axis. <i>CrystEngComm</i> , 2017 , 19, 1580-1584	3.3	7
373	Transport of ions and electrons in nanostructured liquid crystals. <i>Nature Reviews Materials</i> , 2017 , 2,	73.3	256
372	Self-Assembled Liquid-Crystalline Ion Conductors in Dye-Sensitized Solar Cells: Effects of Molecular Sensitizers on Their Performance. <i>ChemPlusChem</i> , 2017 , 82, 834-840	2.8	13
371	Highly Efficient Virus Rejection with Self-Organized Membranes Based on a Crosslinked Bicontinuous Cubic Liquid Crystal. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700252	10.1	31
370	Tuning of luminescence color of π -conjugated liquid crystals through co-assembly with ionic liquids. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9972-9978	7.1	11
369	Self-Assembly of Giant Spherical Liquid-Crystalline Complexes and Formation of Nanostructured Dynamic Gels that Exhibit Self-Healing Properties. <i>Angewandte Chemie</i> , 2017 , 129, 14273-14277	3.6	16
368	Periodic Surface-Ring Pattern Formation for Hydroxyapatite Thin Films Formed by Biom mineralization-Inspired Processes. <i>Langmuir</i> , 2017 , 33, 10077-10083	4	5
367	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> , 2017 , 56, 14085-14089	16.4	60

366	Macromolecular templates for biomineralization-inspired crystallization of oriented layered zinc hydroxides. <i>Polymer Journal</i> , 2017 , 49, 735-739	2.7	2
365	Liquid-crystalline fork-like dendrons. <i>Liquid Crystals</i> , 2017 , 1-14	2.3	4
364	Development of Glassy Bicontinuous Cubic Liquid Crystals for Solid Proton-Conductive Materials. <i>Advanced Materials</i> , 2017 , 29, 1604429	24	40
363	Use of Amorphous Calcium Carbonate for the Design of New Materials. <i>ChemPlusChem</i> , 2017 , 82, 107-1208	208	50
362	Construction of gyroid-structured matrices through the design of geminized amphiphilic zwitterions and their self-organization. <i>Chemical Communications</i> , 2016 , 52, 12167-12170	5.8	17
361	Redox-active Supramolecular Fibers of a Nitronyl Nitroxide-based Gelator. <i>Chemistry Letters</i> , 2016 , 45, 863-865	1.7	8
360	Heterogeneous growth of calcite at aragonite {001}- and vaterite {001}-melt interfaces: A molecular dynamics simulation study. <i>Journal of Crystal Growth</i> , 2016 , 450, 148-159	1.6	7
359	Induction of bicontinuous cubic liquid-crystalline assemblies for polymerizable amphiphiles via tailor-made design of ionic liquids. <i>Chemical Communications</i> , 2016 , 52, 13861-13864	5.8	13
358	A Comprehensive Study on Lyotropic Liquid-Crystalline Behavior of an Amphiphile in 20 Kinds of Amino Acid Ionic Liquids. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 520-6	4.5	19
357	Order estimates for the exact Lugganani-Rice expansion. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2016 , 33, 25-61	0.6	
356	Mechanoresponsive Luminescent Molecular Assemblies: An Emerging Class of Materials. <i>Advanced Materials</i> , 2016 , 28, 1073-95	24	604
355	Biomineralization-Inspired Preparation of Zinc Hydroxide Carbonate/Polymer Hybrids and Their Conversion into Zinc Oxide Thin-Film Photocatalysts. <i>Chemistry - A European Journal</i> , 2016 , 22, 7094-1014.8	4.8	11
354	Mechanoresponsive liquid crystals exhibiting reversible luminescent color changes at ambient temperature. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2752-2760	7.1	56
353	Liquid-Crystalline Dye-Sensitized Solar Cells: Design of Two-Dimensional Molecular Assemblies for Efficient Ion Transport and Thermal Stability. <i>Chemistry of Materials</i> , 2016 , 28, 6493-6500	9.6	55
352	Self-Assembled Fibers Containing Stable Organic Radical Moieties: Alignment and Magnetic Properties in Liquid Crystals. <i>Chemistry - A European Journal</i> , 2016 , 22, 8872-8	4.8	14
351	Induction of an Infinite Periodic Minimal Surface by Endowing An Amphiphilic Zwitterion with Halogen-Bond Ability. <i>ChemistryOpen</i> , 2016 , 5, 439-444	2.3	11
350	Self-Assembly of Bioconjugated Amphiphilic Mesogens Having Specific Binding Moieties at Aqueous-Liquid Crystal Interfaces. <i>Chemistry of Materials</i> , 2016 , 28, 1170-1178	9.6	27
349	Liquid-crystal-enhanced electrostatic vibration generator 2016 ,		2

348	Columnar liquid-crystalline assemblies of X-shaped pyrene- <i>l</i> igothiophene conjugates: photoconductivities and mechanochromic functions. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5073-5080	7.1	33
347	Rapid and topotactic transformation from octacalcium phosphate to hydroxyapatite (HAP): a new approach to self-organization of free-standing thin-film HAP-based nanohybrids. <i>CrystEngComm</i> , 2016 , 18, 8388-8395	3.3	14
346	Zwitterionic liquid crystals as 1D and 3D lithium ion transport media. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11232-11238	13	49
345	Design of liquid crystals: from a nematogen to thiophene-based π -conjugated mesogens. <i>Liquid Crystals</i> , 2015 , 1-9	2.3	10
344	A planarized triphenylborane mesogen: discotic liquid crystals with ambipolar charge-carrier transport properties. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6922-5	16.4	77
343	A Planarized Triphenylborane Mesogen: Discotic Liquid Crystals with Ambipolar Charge-Carrier Transport Properties. <i>Angewandte Chemie</i> , 2015 , 127, 7026-7029	3.6	28
342	Liquid Crystals: Liquid-Crystalline Electrolytes for Lithium-Ion Batteries: Ordered Assemblies of a Mesogen-Containing Carbonate and a Lithium Salt (Adv. Funct. Mater. 8/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 1205-1205	15.6	2
341	Ionic Switch Induced by a Rectangular-Hexagonal Phase Transition in Benzenammonium Columnar Liquid Crystals. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13212-5	16.4	57
340	2D assemblies of ionic liquid crystals based on imidazolium moieties: formation of ion-conductive layers. <i>New Journal of Chemistry</i> , 2015 , 39, 4471-4477	3.6	32
339	Use of a protic salt for the formation of liquid-crystalline proton-conductive complexes with mesomorphic diols. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22656-22662	13	19
338	Liquid-crystalline calcium carbonate: biomimetic synthesis and alignment of nanorod calcite. <i>Chemical Science</i> , 2015 , 6, 6230-6234	9.4	24
337	Hydroxyapatite formation on oxidized cellulose nanofibers in a solution mimicking body fluid. <i>Polymer Journal</i> , 2015 , 47, 158-163	2.7	19
336	Organic/inorganic fusion materials: cyclodextrin-based polymer/CaCO ₃ hybrids incorporating dye molecules through host-guest interactions. <i>Polymer Journal</i> , 2015 , 47, 122-127	2.7	7
335	Biomimetic synthesis of functional organic/inorganic hybrid materials: organic molecular control of self-organization of hybrids. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 974-89	3.9	115
334	Chitin: Formation of Helically Structured Chitin/CaCO ₃ Hybrids through an Approach Inspired by the Biomimetic Processes of Crustacean Cuticles (Small 38/2015). <i>Small</i> , 2015 , 11, 5126	11	3
333	Liquid-Crystalline Biomacromolecular Templates for the Formation of Oriented Thin-Film Hybrids Composed of Ordered Chitin and Alkaline-Earth Carbonate. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 2356-60	4.5	10
332	Formation of Helically Structured Chitin/CaCO ₃ Hybrids through an Approach Inspired by the Biomimetic Processes of Crustacean Cuticles. <i>Small</i> , 2015 , 11, 5127-33	11	53
331	VWAP execution as an optimal strategy. <i>SIAM Letters</i> , 2015 , 7, 33-36	0.2	10

330	Design and validation for improve usability of Laser Induced Liquid Jet hand piece. <i>Journal of Japan Society of Computer Aided Surgery</i> , 2015 , 17, 23-37	0.1	
329	Development of Gyroid Structures through the Design of Self-organizing Ionic Liquids and Their Application. <i>Nihon Kessho Gakkaishi</i> , 2015 , 57, 184-190	0	
328	Liquid-Crystalline Electrolytes for Lithium-Ion Batteries: Ordered Assemblies of a Mesogen-Containing Carbonate and a Lithium Salt. <i>Advanced Functional Materials</i> , 2015 , 25, 1206-1212	15.6	78
327	Tuning of morphology and polymorphs of carbonate/polymer hybrids using photoreactive polymer templates. <i>CrystEngComm</i> , 2015 , 17, 6947-6954	3.3	7
326	Columnar nanostructured polymer films containing ionic liquids in supramolecular one-dimensional nanochannels. <i>Journal of Polymer Science Part A</i> , 2015 , 53, 366-371	2.5	17
325	Nanostructured Two-Component Liquid-Crystalline Electrolytes for High-Temperature Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2014 , 26, 6496-6502	9.6	56
324	Morphology tuning in the formation of vaterite crystal thin films with thermoresponsive poly(N-isopropylacrylamide) brush matrices. <i>CrystEngComm</i> , 2014 , 16, 3540-3547	3.3	17
323	Supramolecular effects on formation of CaCO ₃ thin films on a polymer matrix. <i>CrystEngComm</i> , 2014 , 16, 1496-1501	3.3	11
322	Macroscopic photocontrol of ion-transporting pathways of a nanostructured imidazolium-based photoresponsive liquid crystal. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9552-5	16.4	102
321	A One-Factor Conditionally Linear Commodity Pricing Model under Partial Information. <i>Asia-Pacific Financial Markets</i> , 2014 , 21, 151-174	0.9	
320	Bioinspired stiff and flexible composites of nanocellulose-reinforced amorphous CaCO ₃ . <i>Materials Horizons</i> , 2014 , 1, 321	14.4	53
319	Covalent attachment of mechanoresponsive luminescent micelles to glasses and polymers in aqueous conditions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4273-80	16.4	67
318	Biomimetic approach to the development of hybrid materials: preparation of patterned polymer/strontium carbonate thin films using thermoresponsive polymer brush matrices. <i>Polymer Journal</i> , 2014 , 46, 499-504	2.7	12
317	An optimal execution problem with market impact. <i>Finance and Stochastics</i> , 2014 , 18, 695-732	1.9	9
316	Design of Amphiphilic Zwitterions Forming Liquid-Crystalline Phases and Effects of Lithium Salt Addition on Their Phase Behavior. <i>Bulletin of the Chemical Society of Japan</i> , 2014 , 87, 792-796	5.1	14
315	Aggregation-induced Emission of a Liquid-crystalline Quinolinium Salt Molecule in Aqueous Solution. <i>Chemistry Letters</i> , 2014 , 43, 184-186	1.7	13
314	Liquid-Crystalline Catenanes and Rotaxanes 2014 , 1-15		
313	Liquid-Crystalline Gels 2014 , 1-25		

312	Liquid Crystal Semiconductors: Oligothiophene and Related Materials 2014 , 1-34		3
311	Redox-Active (Electrochromic) Liquid Crystals 2014 , 1-17		1
310	Liquid Crystals as Ion Conductors 2014 , 1-23		
309	Evaluation of Stability and Effect of Gripping Method on a Laser-Induced Liquid Jet Hand Applicator for Usability Improvement. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2014 , 58, 1786-1789		0.4
308	Design and Synthesis of Side-Chain Liquid Crystal Polymers 2014 , 1-34		
307	Mechanochromic Photoluminescent Liquid Crystals Containing 5,5'-Bis(2-phenylethynyl)-2,2'-bithiophene. <i>Molecular Crystals and Liquid Crystals</i> , 2014 , 594, 112-121	0.5	14
306	Aragonite nanorods in calcium carbonate/polymer hybrids formed through self-organization processes from amorphous calcium carbonate solution. <i>Small</i> , 2014 , 10, 1634-41	11	42
305	Thermal or mechanical stimuli-induced photoluminescence color change of a molecular assembly composed of an amphiphilic anthracene derivative in water. <i>Chemistry - A European Journal</i> , 2014 , 20, 10397-403	4.8	28
304	Hydrogen-Bonded Systems: Discrete Defined Aggregates by Intermolecular H-Bonding, Amides, Carboxylic Acids, and Heterocycles 2014 , 1-28		7
303	Design and Synthesis of Organic/Inorganic Hybrid Materials Inspired by Biomineralization: Morphology Control of Calcium Carbonate Thin Films using Polymers and Mg ²⁺ Ions. <i>Oleoscience</i> , 2014 , 14, 417-423		0.1
302	Liquid Crystalline Materials 2014 , 243-300		
301	Function of Liquid Crystals 2014 , 357-410		
300	Bisphenylsulfone-based molecular assemblies: polar columnar liquid crystals aligned in electric fields and fibrous aggregates in organic solvents. <i>New Journal of Chemistry</i> , 2013 , 37, 143-147	3.6	29
299	Designer lyotropic liquid-crystalline systems containing amino acid ionic liquids as self-organisation media of amphiphiles. <i>Chemical Communications</i> , 2013 , 49, 11746-8	5.8	33
298	Effects of magnesium ions and water molecules on the structure of amorphous calcium carbonate: a molecular dynamics study. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 14849-56	3.4	29
297	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> , 2013 , 135, 15286-9	16.4	112
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