

# Masafumi Yoshio

## 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.

97  
papers

5,078  
citations

38  
h-index

70  
g-index

103  
ext. papers

5,468  
ext. citations

8.7  
avg, IF

5.52  
L-index

#	Paper	IF	Citations
97	Oxidation-degree-dependent moisture-induced actuation of a graphene oxide film.. <i>RSC Advances</i> , <b>2022</b> , 12, 3372-3379	3.7	
96	Low-Voltage-Driven Actuators Using Photo-Cross-Linked Ionic Columnar Liquid-Crystalline Polymer Films <b>2022</b> , 4, 153-158		2
95	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> , <b>2021</b> , 12, 6091-6098	9.4	8
94	Development of functional nanoporous membranes based on photocleavable columnar liquid crystals for selective adsorption of ionic dyes. <i>European Polymer Journal</i> , <b>2020</b> , 134, 109859	5.2	7
93	Ion-Conductive Nanostructured Polymer Films Formed by Photopolymerization of Lyotropic Columnar Liquid-Crystalline Monomers, Composed of a Zwitterionic Compound and a Protic Ionic Liquid. <i>Crystals</i> , <b>2020</b> , 10, 276	2.3	1
92	Multi-Color Photoluminescence Based on Mechanically and Thermally Induced Liquid-Crystalline Phase Transitions of a Hydrogen-Bonded Benzodithiophene Derivative. <i>ChemPhysChem</i> , <b>2020</b> , 21, 328-334	3.2	12
91	Ferroelectric Liquid-Crystalline Binary Mixtures Based on Achiral and Chiral Trifluoromethylphenylterthiophenes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 53029-53038	9.5	5
90	Polymerizable Photocleavable Columnar Liquid Crystals for Nanoporous Water Treatment Membranes. <i>ACS Macro Letters</i> , <b>2019</b> , 8, 1303-1308	6.6	21
89	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> , <b>2019</b> , 4, 342-347	4.6	5
88	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. <i>Bulletin of the Chemical Society of Japan</i> , <b>2019</b> , 92, 1226-1233	5.1	6
87	Nanostructured Virus Filtration Membranes Based on Two-Component Columnar Liquid Crystals. <i>ACS Macro Letters</i> , <b>2019</b> , 8, 24-30	6.6	23
86	Liquid-crystalline behavior and ion transport properties of block-structured molecules containing a perfluorinated ethylene oxide moiety complexed with a lithium salt. <i>Polymer Journal</i> , <b>2018</b> , 50, 889-898	2.7	2
85	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
84	Noncovalent Approach to Liquid-Crystalline Ion Conductors: High-Rate Performances and Room-Temperature Operation for Li-Ion Batteries. <i>ACS Omega</i> , <b>2018</b> , 3, 159-166	3.9	19
83	Guanine-oligothiophene conjugates: liquid-crystalline properties, photoconductivities and ion-responsive emission of their nanoscale assemblies. <i>Chemical Science</i> , <b>2018</b> , 9, 576-585	9.4	20
82	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> , <b>2018</b> , 91, 1-5	5.1	10
81	One-dimensional supramolecular hybrids: self-assembled nanofibrous materials based on a sugar gelator and calcite developed along an unusual axis. <i>CrystEngComm</i> , <b>2017</b> , 19, 1580-1584	3.3	7

80	Transport of ions and electrons in nanostructured liquid crystals. <i>Nature Reviews Materials</i> , <b>2017</b> , 2,	73.3	256
79	Self-Assembled Liquid-Crystalline Ion Conductors in Dye-Sensitized Solar Cells: Effects of Molecular Sensitizers on Their Performance. <i>ChemPlusChem</i> , <b>2017</b> , 82, 834-840	2.8	13
78	Tuning of luminescence color of $\pi$ -conjugated liquid crystals through co-assembly with ionic liquids. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 9972-9978	7.1	11
77	Self-Assembly of Giant Spherical Liquid-Crystalline Complexes and Formation of Nanostructured Dynamic Gels that Exhibit Self-Healing Properties. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 14273-14277	3.6	16
76	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
75	Redox-active Supramolecular Fibers of a Nitronyl Nitroxide-based Gelator. <i>Chemistry Letters</i> , <b>2016</b> , 45, 863-865	1.7	8
74	Induction of bicontinuous cubic liquid-crystalline assemblies for polymerizable amphiphiles via tailor-made design of ionic liquids. <i>Chemical Communications</i> , <b>2016</b> , 52, 13861-13864	5.8	13
73	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> , <b>2016</b> , 11, 520-6	4.5	19
72	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
71	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
70	Self-Assembled Fibers Containing Stable Organic Radical Moieties: Alignment and Magnetic Properties in Liquid Crystals. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 8872-8	4.8	14
69	Columnar liquid-crystalline assemblies of X-shaped pyrene $\pi$ -ligothiophene conjugates: photoconductivities and mechanochromic functions. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 5073-5080	7.1	33
68	Zwitterionic liquid crystals as 1D and 3D lithium ion transport media. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11232-11238	13	49
67	A planarized triphenylborane mesogen: discotic liquid crystals with ambipolar charge-carrier transport properties. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 6922-5	16.4	77
66	A Planarized Triphenylborane Mesogen: Discotic Liquid Crystals with Ambipolar Charge-Carrier Transport Properties. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 7026-7029	3.6	28
65	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> , <b>2015</b> , 25, 1205-1205	15.6	2
64	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
63	2D assemblies of ionic liquid crystals based on imidazolium moieties: formation of ion-conductive layers. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 4471-4477	3.6	32

62	Use of a protic salt for the formation of liquid-crystalline proton-conductive complexes with mesomorphic diols. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 22656-22662	13	19
61	Development of Gyroid Structures through the Design of Self-organizing Ionic Liquids and Their Application. <i>Nihon Kessho Gakkaishi</i> , <b>2015</b> , 57, 184-190	0	
60	Liquid-Crystalline Electrolytes for Lithium-Ion Batteries: Ordered Assemblies of a Mesogen-Containing Carbonate and a Lithium Salt. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1206-1212	15.6	78
59	Columnar nanostructured polymer films containing ionic liquids in supramolecular one-dimensional nanochannels. <i>Journal of Polymer Science Part A</i> , <b>2015</b> , 53, 366-371	2.5	17
58	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
57	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
56	Liquid Crystals as Ion Conductors <b>2014</b> , 1-23		
55	Mechanochromic Photoluminescent Liquid Crystals Containing 5,5'-Bis(2-phenylethynyl)-2,2'-bithiophene. <i>Molecular Crystals and Liquid Crystals</i> , <b>2014</b> , 594, 112-121	0.5	14
54	Function of Liquid Crystals <b>2014</b> , 357-410		
53	Bisphenylsulfone-based molecular assemblies: polar columnar liquid crystals aligned in electric fields and fibrous aggregates in organic solvents. <i>New Journal of Chemistry</i> , <b>2013</b> , 37, 143-147	3.6	29
52	Designer lyotropic liquid-crystalline systems containing amino acid ionic liquids as self-organisation media of amphiphiles. <i>Chemical Communications</i> , <b>2013</b> , 49, 11746-8	5.8	33
51	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
50	Induction of thermotropic bicontinuous cubic phases in liquid-crystalline ammonium and phosphonium salts. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 2634-43	16.4	133
49	Liquid-crystalline gels exhibiting electrooptical light scattering properties: fibrous polymerized network of a lysine-based gelator having acrylate moieties. <i>Polymer Journal</i> , <b>2012</b> , 44, 594-599	2.7	20
48	Co-organisation of ionic liquids with amphiphilic diethanolamines: construction of 3D continuous ionic nanochannels through the induction of liquid-crystalline bicontinuous cubic phases. <i>Chemical Science</i> , <b>2012</b> , 3, 2001	9.4	41
47	Self-organized liquid-crystalline nanostructured membranes for water treatment: selective permeation of ions. <i>Advanced Materials</i> , <b>2012</b> , 24, 2238-41	24	129
46	Liquid Crystals: Self-Organized Liquid-Crystalline Nanostructured Membranes for Water Treatment: Selective Permeation of Ions (Adv. Mater. 17/2012). <i>Advanced Materials</i> , <b>2012</b> , 24, 2218-2218	24	1
45	Supramolecular approach to the formation of magneto-active physical gels. <i>Chemical Science</i> , <b>2012</b> , 3, 3007	9.4	29

44	3D interconnected ionic nano-channels formed in polymer films: self-organization and polymerization of thermotropic bicontinuous cubic liquid crystals. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 2163-9	16.4	146
43	Self-Assembled Amphiphilic Diketopyrrolopyrrole-Based Oligothiophenes for Field-Effect Transistors and Solar Cells. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 2285-2288	9.6	73
42	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
41	Alignment of photoconductive self-assembled fibers composed of $\pi$ -conjugated molecules under electric fields. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 173-179		34
40	Ion conductive behaviour in a confined nanostructure: NMR observation of self-diffusion in a liquid-crystalline bicontinuous cubic phase. <i>Chemical Communications</i> , <b>2010</b> , 46, 728-30	5.8	50
39	Functional Soft Materials: Nanostructured Liquid Crystals and Self-Assembled Fibrous Aggregates. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , <b>2010</b> , 68, 1169-1174	0.2	8
38	Electric-Field-Responsive Lithium-Ion Conductors of Propylenecarbonate-Based Columnar Liquid Crystals. <i>Advanced Materials</i> , <b>2009</b> , 21, 1591-1594	24	76
37	Self-assembly of functional columnar liquid crystals. <i>Chemical Communications</i> , <b>2009</b> , 729-39	5.8	278
36	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
35	A columnar liquid-crystalline shape-persistent macrocycle having a nanosegregated structure. <i>Organic and Biomolecular Chemistry</i> , <b>2009</b> , 7, 3205-7	3.9	29
34	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
33	The Influence of Hydrogen Bonding on Generation and Stabilization of Self-Assembled Layer Structure of 6-[4-( Trans -4-pentylcyclohexyl)phenoxy]hexane-1,2-diol. <i>Molecular Crystals and Liquid Crystals</i> , <b>2008</b> , 490, 43-51	0.5	
32	Ionic Liquid Crystals: Self-assembly of Imidazolium Salts Containing an L-Glutamic Acid Moiety. <i>Chemistry Letters</i> , <b>2008</b> , 37, 538-539	1.7	49
31	Columnar liquid-crystalline assemblies composed of spiropyran derivatives and sulfonic acids. <i>Polymers for Advanced Technologies</i> , <b>2008</b> , 19, 1362-1368	3.2	7
30	Macroscopically ordered polymer/CaCO <sub>3</sub> hybrids prepared by using a liquid-crystalline template. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 2800-3	16.4	83
29	Macroscopically Ordered Polymer/CaCO <sub>3</sub> Hybrids Prepared by Using a Liquid-Crystalline Template. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 2842-2845	3.6	12
28	Induction of columnar and smectic phases for spiropyran derivatives: effects of acidichromism and photochromism. <i>Chemistry - an Asian Journal</i> , <b>2008</b> , 3, 534-541	4.5	16
27	Functional Liquid-Crystalline Polymers for Ionic and Electronic Conduction <b>2007</b> , 151-179		68

26	1-alkyl-2,3,5,6,7,8-hexasilabicyclo[2.2.2]octanes: unconventional class of mesomorphic columnar compounds. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 3055-8	16.4	11
25	1-Alkyl-2,3,5,6,7,8-hexasilabicyclo[2.2.2]octanes: Unconventional Class of Mesomorphic Columnar Compounds. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 3115-3118	3.6	
24	Columnar Liquid Crystalline Imidazolium Salts: Self-Organized One-Dimensional Ion Conductors. <i>ACS Symposium Series</i> , <b>2007</b> , 161-171	0.4	13
23	Self-assembly of liquid crystalline triphenyleneβligo(ethylene oxide)βriphenylene molecules and their complexes with lithium triflate. <i>Liquid Crystals</i> , <b>2007</b> , 34, 107-112	2.3	11
22	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
21	Uniaxially Parallel Alignment of a Smectic A Liquid-Crystalline Rod-coil Molecule and Its Lithium Salt Complexes Using Rubbed Polyimides. <i>Macromolecules</i> , <b>2007</b> , 40, 4874-4878	5.5	33
20	Viologen-based redox-active ionic liquid crystals forming columnar phases. <i>Organic Letters</i> , <b>2007</b> , 9, 4271-4	6.4	81
19	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
18	Liquid-Crystalline Formation and Functionalization of Ionic Liquids through Self-Organization Processes. <i>Hyomen Kagaku</i> , <b>2007</b> , 28, 318-321		1
17	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
16	Spiropyran-based liquid crystals: the formation of columnar phases via acid-induced spiro-merocyanine isomerisation. <i>Chemical Communications</i> , <b>2006</b> , 4703-5	5.8	23
15	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
14	Self-assembled N-Alkylimidazolium Perfluorooctanesulfonates. <i>Chemistry Letters</i> , <b>2005</b> , 34, 442-443	1.7	16
13	Liquid Crystalline Ionic Liquids <b>2005</b> , 307-320		12
12	Self-organization of Protonated 2-heptadecylimidazole as an Effective Ion Conductive Matrix. <i>Electrochemistry</i> , <b>2005</b> , 73, 623-626	1.2	19
11	Ionic diffusion and salt dissociation conditions of lithium liquid crystal electrolytes. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 11563-71	3.4	20
10	SELF-ASSEMBLY OF AN IONIC LIQUID AND A HYDROXYL-TERMINATED LIQUID CRYSTAL: ANISOTROPIC ION CONDUCTION IN LAYERED NANOSTRUCTURES. <i>Molecular Crystals and Liquid Crystals</i> , <b>2004</b> , 413, 99-108	0.5	46
9	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

8	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
7	Nanostructured ion-conductive films: Layered assembly of a side-chain liquid-crystalline polymer with an imidazolium ionic moiety. <i>Journal of Polymer Science Part A</i> , <b>2003</b> , 41, 3486-3492	2.5	117
6	Liquid-crystalline stereoregular polyketone prepared from a mesogenic vinylarene and carbon monoxide. <i>Journal of Polymer Science Part A</i> , <b>2003</b> , 41, 3556-3563	2.5	11
5	Nanostructured anisotropic ion-conductive films. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 3196-7	16.4	129
4	Layered Ionic Liquids: Anisotropic Ion Conduction in New Self-Organized Liquid-Crystalline Materials. <i>Advanced Materials</i> , <b>2002</b> , 14, 351	24	196
3	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
2	Enthalpy Relaxation Behavior of Liquid-Crystalline Glasses of an Esterified Cholesterol Derivative and its Complex Salts with Aliphatic Amines. <i>Molecular Crystals and Liquid Crystals</i> , <b>2001</b> , 357, 27-42		7
1	Liquid Crystalline Ionic Liquids 375-392		7