

Masafumi Yoshio

List of Publications by Citations

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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 | One-dimensional ion transport in self-organized columnar ionic liquids. <i>Journal of the American Chemical Society</i> , 2004 , 126, 994-5 | 16.4 | 409 |
| 96 | 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> , 2006 , 128, 5570-7 | 16.4 | 363 |
| 95 | Self-assembly of functional columnar liquid crystals. <i>Chemical Communications</i> , 2009 , 729-39 | 5.8 | 278 |
| 94 | Transport of ions and electrons in nanostructured liquid crystals. <i>Nature Reviews Materials</i> , 2017 , 2, | 73.3 | 256 |
| 93 | 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> , 2007 , 129, 10662-3 | 16.4 | 229 |
| 92 | Layered Ionic Liquids: Anisotropic Ion Conduction in New Self-Organized Liquid-Crystalline Materials. <i>Advanced Materials</i> , 2002 , 14, 351 | 24 | 196 |
| 91 | Noncovalent approach to one-dimensional ion conductors: enhancement of ionic conductivities in nanostructured columnar liquid crystals. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1759-65 | 16.4 | 169 |
| 90 | 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> , 2011 , 133, 2163-9 | 16.4 | 146 |
| 89 | Induction of thermotropic bicontinuous cubic phases in liquid-crystalline ammonium and phosphonium salts. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2634-43 | 16.4 | 133 |
| 88 | Self-organized liquid-crystalline nanostructured membranes for water treatment: selective permeation of ions. <i>Advanced Materials</i> , 2012 , 24, 2238-41 | 24 | 129 |
| 87 | Nanostructured anisotropic ion-conductive films. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3196-7 | 16.4 | 129 |
| 86 | 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> , 2003 , 41, 3486-3492 | 2.5 | 117 |
| 85 | 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 |
| 84 | 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 |
| 83 | 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> , 2007 , 80, 1836-1841 | 5.1 | 98 |
| 82 | Macroscopically ordered polymer/CaCO ₃ hybrids prepared by using a liquid-crystalline template. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 2800-3 | 16.4 | 83 |
| 81 | Viologen-based redox-active ionic liquid crystals forming columnar phases. <i>Organic Letters</i> , 2007 , 9, 4271-4 | 16.4 | 81 |

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| 80 | 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 |
| 79 | 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 |
| 78 | Electric-Field-Responsive Lithium-Ion Conductors of Propylenecarbonate-Based Columnar Liquid Crystals. <i>Advanced Materials</i> , 2009 , 21, 1591-1594 | 24 | 76 |
| 77 | Self-Assembled Amphiphilic Diketopyrrolopyrrole-Based Oligothiophenes for Field-Effect Transistors and Solar Cells. <i>Chemistry of Materials</i> , 2011 , 23, 2285-2288 | 9.6 | 73 |
| 76 | Functional Liquid-Crystalline Polymers for Ionic and Electronic Conduction 2007 , 151-179 | | 68 |
| 75 | 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> , 2009 , 131, 6763-7 | 16.4 | 67 |
| 74 | Liquid-Crystalline Assemblies Containing Ionic Liquids: An Approach to Anisotropic Ionic Materials. <i>Chemistry Letters</i> , 2002 , 31, 320-321 | 1.7 | 66 |
| 73 | Anisotropic ion conduction in a unique smectic phase of self-assembled amphiphilic ionic liquids. <i>Chemical Communications</i> , 2005 , 1333-5 | 5.8 | 64 |
| 72 | m x n stacks of discrete aromatic stacks in solution. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9555-7 | 16.4 | 61 |
| 71 | 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 |
| 70 | 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 |
| 69 | 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 |
| 68 | 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 |
| 67 | 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 |
| 66 | Development of Nanostructured Water Treatment Membranes Based on Thermotropic Liquid Crystals: Molecular Design of Sub-Nanoporous Materials. <i>Advanced Science</i> , 2018 , 5, 1700405 | 13.6 | 54 |
| 65 | Effect of Methyl Groups onto Imidazolium Cation Ring on Liquid Crystallinity and Ionic Conductivity of Amphiphilic Ionic Liquids. <i>Chemistry Letters</i> , 2004 , 33, 1630-1631 | 1.7 | 52 |
| 64 | Ion conductive behaviour in a confined nanostructure: NMR observation of self-diffusion in a liquid-crystalline bicontinuous cubic phase. <i>Chemical Communications</i> , 2010 , 46, 728-30 | 5.8 | 50 |
| 63 | Zwitterionic liquid crystals as 1D and 3D lithium ion transport media. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11232-11238 | 13 | 49 |

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| 62 | Ionic Liquid Crystals: Self-assembly of Imidazolium Salts Containing an L-Glutamic Acid Moiety. <i>Chemistry Letters</i> , 2008 , 37, 538-539 | 1.7 | 49 |
| 61 | 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> , 2004 , 413, 99-108 | 0.5 | 46 |
| 60 | 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> , 2012 , 3, 2001 | 9.4 | 41 |
| 59 | Alignment of photoconductive self-assembled fibers composed of π -conjugated molecules under electric fields. <i>Journal of Materials Chemistry</i> , 2010 , 20, 173-179 | | 34 |
| 58 | 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 |
| 57 | Uniaxially Parallel Alignment of a Smectic A Liquid-Crystalline Rod-Coil Molecule and Its Lithium Salt Complexes Using Rubbed Polyimides. <i>Macromolecules</i> , 2007 , 40, 4874-4878 | 5.5 | 33 |
| 56 | Columnar liquid-crystalline assemblies of X-shaped pyrene-oligothiophene conjugates: photoconductivities and mechanochromic functions. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5073-5080 | 7.1 | 33 |
| 55 | 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 |
| 54 | 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 |
| 53 | Supramolecular approach to the formation of magneto-active physical gels. <i>Chemical Science</i> , 2012 , 3, 3007 | 9.4 | 29 |
| 52 | A columnar liquid-crystalline shape-persistent macrocycle having a nanosegregated structure. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 3205-7 | 3.9 | 29 |
| 51 | A Planarized Triphenylborane Mesogen: Discotic Liquid Crystals with Ambipolar Charge-Carrier Transport Properties. <i>Angewandte Chemie</i> , 2015 , 127, 7026-7029 | 3.6 | 28 |
| 50 | Spiropyran-based liquid crystals: the formation of columnar phases via acid-induced spiro-merocyanine isomerisation. <i>Chemical Communications</i> , 2006 , 4703-5 | 5.8 | 23 |
| 49 | Nanostructured Virus Filtration Membranes Based on Two-Component Columnar Liquid Crystals. <i>ACS Macro Letters</i> , 2019 , 8, 24-30 | 6.6 | 23 |
| 48 | Polymerizable Photocleavable Columnar Liquid Crystals for Nanoporous Water Treatment Membranes. <i>ACS Macro Letters</i> , 2019 , 8, 1303-1308 | 6.6 | 21 |
| 47 | 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 |
| 46 | Liquid-crystalline gels exhibiting electrooptical light scattering properties: fibrous polymerized network of a lysine-based gelator having acrylate moieties. <i>Polymer Journal</i> , 2012 , 44, 594-599 | 2.7 | 20 |
| 45 | Ionic diffusion and salt dissociation conditions of lithium liquid crystal electrolytes. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11563-71 | 3.4 | 20 |

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| 44 | 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 |
| 43 | 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 |
| 42 | 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 |
| 41 | Self-organization of Protonated 2-heptadecylimidazole as an Effective Ion Conductive Matrix. <i>Electrochemistry</i> , 2005 , 73, 623-626 | 1.2 | 19 |
| 40 | 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 |
| 39 | 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 |
| 38 | Induction of columnar and smectic phases for spiropyran derivatives: effects of acidochromism and photochromism. <i>Chemistry - an Asian Journal</i> , 2008 , 3, 534-541 | 4.5 | 16 |
| 37 | Self-assembled N-Alkylimidazolium Perfluorooctanesulfonates. <i>Chemistry Letters</i> , 2005 , 34, 442-443 | 1.7 | 16 |
| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 32 | Columnar Liquid Crystalline Imidazolium Salts: Self-Organized One-Dimensional Ion Conductors. <i>ACS Symposium Series</i> , 2007 , 161-171 | 0.4 | 13 |
| 31 | Macroscopically Ordered Polymer/CaCO ₃ Hybrids Prepared by Using a Liquid-Crystalline Template. <i>Angewandte Chemie</i> , 2008 , 120, 2842-2845 | 3.6 | 12 |
| 30 | Liquid Crystalline Ionic Liquids 2005 , 307-320 | | 12 |
| 29 | Multi-Color Photoluminescence Based on Mechanically and Thermally Induced Liquid-Crystalline Phase Transitions of a Hydrogen-Bonded Benzodithiophene Derivative. <i>ChemPhysChem</i> , 2020 , 21, 328-334 | 3.2 | 12 |
| 28 | 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 |
| 27 | 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> , 2007 , 46, 3055-8 | 16.4 | 11 |

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| 26 | Self-assembly of liquid crystalline triphenylenebigo(ethylene oxide)triphenylene molecules and their complexes with lithium triflate. <i>Liquid Crystals</i> , 2007 , 34, 107-112 | 2.3 | 11 |
| 25 | Liquid-crystalline stereoregular polyketone prepared from a mesogenic vinylarene and carbon monoxide. <i>Journal of Polymer Science Part A</i> , 2003 , 41, 3556-3563 | 2.5 | 11 |
| 24 | 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 |
| 23 | Redox-active Supramolecular Fibers of a Nitronyl Nitroxide-based Gelator. <i>Chemistry Letters</i> , 2016 , 45, 863-865 | 1.7 | 8 |
| 22 | Functional Soft Materials: Nanostructured Liquid Crystals and Self-Assembled Fibrous Aggregates. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2010 , 68, 1169-1174 | 0.2 | 8 |
| 21 | 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 |
| 20 | 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 |
| 19 | Development of functional nanoporous membranes based on photocleavable columnar liquid crystals Selective adsorption of ionic dyes. <i>European Polymer Journal</i> , 2020 , 134, 109859 | 5.2 | 7 |
| 18 | Columnar liquid-crystalline assemblies composed of spiropyran derivatives and sulfonic acids. <i>Polymers for Advanced Technologies</i> , 2008 , 19, 1362-1368 | 3.2 | 7 |
| 17 | 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> , 2001 , 357, 27-42 | | 7 |
| 16 | Liquid Crystalline Ionic Liquids | | 7 |
| 15 | 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> , 2019 , 92, 1226-1233 | 5.1 | 6 |
| 14 | 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 |
| 13 | Ferroelectric Liquid-Crystalline Binary Mixtures Based on Achiral and Chiral Trifluoromethylphenylterthiophenes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 53029-53038 | 9.5 | 5 |
| 12 | 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 |
| 11 | 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> , 2018 , 50, 889-898 | 2.7 | 2 |
| 10 | Low-Voltage-Driven Actuators Using Photo-Cross-Linked Ionic Columnar Liquid-Crystalline Polymer Films | | 2 |
| 9 | 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> , 2020 , 10, 276 | 2.3 | 1 |

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| 8 | Liquid Crystals: Self-Organized Liquid-Crystalline Nanostructured Membranes for Water Treatment: Selective Permeation of Ions (Adv. Mater. 17/2012). <i>Advanced Materials</i> , 2012 , 24, 2218-2218 | 24 | 1 |
| 7 | Liquid-Crystalline Formation and Functionalization of Ionic Liquids through Self-Organization Processes. <i>Hyomen Kagaku</i> , 2007 , 28, 318-321 | | 1 |
| 6 | Liquid Crystals as Ion Conductors 2014 , 1-23 | | |
| 5 | 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 | |
| 4 | 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> , 2008 , 490, 43-51 | 0.5 | |
| 3 | 1-Alkyl-2,3,5,6,7,8-hexasilabicyclo[2.2.2]octanes: Unconventional Class of Mesomorphic Columnar Compounds. <i>Angewandte Chemie</i> , 2007 , 119, 3115-3118 | 3.6 | |
| 2 | Oxidation-degree-dependent moisture-induced actuation of a graphene oxide film.. <i>RSC Advances</i> , 2022 , 12, 3372-3379 | 3.7 | |
| 1 | Function of Liquid Crystals 2014 , 357-410 | | |