

# Takeshi Sakamoto

## List of Publications by Year in descending order

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35  
papers

1,542  
citations

361045

20  
h-index

395343

33  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1716  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional Liquid Crystals towards the Next Generation of Materials. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4355-4371.	7.2	363
2	Self-Organized Liquid-Crystalline Nanostructured Membranes for Water Treatment: Selective Permeation of Ions. <i>Advanced Materials</i> , 2012, 24, 2238-2241.	11.1	156
3	Biomimetic synthesis of functional organic/inorganic hybrid materials: organic molecular control of self-organization of hybrids. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 974-989.	1.5	139
4	Macromolecular Templating for the Formation of Inorganic-Organic Hybrid Structures. <i>MRS Bulletin</i> , 2010, 35, 127-132.	1.7	107
5	Use of Amorphous Calcium Carbonate for the Design of New Materials. <i>ChemPlusChem</i> , 2017, 82, 107-120.	1.3	85
6	Development of Nanostructured Water Treatment Membranes Based on Thermotropic Liquid Crystals: Molecular Design of Sub-Nanoporous Materials. <i>Advanced Science</i> , 2018, 5, 1700405.	5.6	73
7	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> , 2009, 9, 622-625.	1.4	57
8	Aragonite Nanorods in Calcium Carbonate/Polymer Hybrids Formed through Self-Organization Processes from Amorphous Calcium Carbonate Solution. <i>Small</i> , 2014, 10, 1634-1641.	5.2	46
9	Highly Efficient Virus Rejection with Self-Organized Membranes Based on a Crosslinked Bicontinuous Cubic Liquid Crystal. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700252.	3.9	46
10	Calcium Carbonate/Polymer Thin-Film Hybrids: Induction of the Formation of Patterned Aragonite Crystals by Thermal Treatment of a Polymer Matrix. <i>Polymer Journal</i> , 2009, 41, 522-523.	1.3	38
11	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, 14849-14856.	1.2	38
12	Tuning the Stability of CaCO <sub>3</sub> Crystals with Magnesium Ions for the Formation of Aragonite Thin Films on Organic Polymer Templates. <i>Chemistry - an Asian Journal</i> , 2013, 8, 3002-3009.	1.7	35
13	Polymerizable Photocleavable Columnar Liquid Crystals for Nanoporous Water Treatment Membranes. <i>ACS Macro Letters</i> , 2019, 8, 1303-1308.	2.3	34
14	Nanostructured Virus Filtration Membranes Based on Two-Component Columnar Liquid Crystals. <i>ACS Macro Letters</i> , 2019, 8, 24-30.	2.3	32
15	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.	1.4	31
16	Von funktionellen Flüssigkristallen zur nächsten Generation von Materialien. <i>Angewandte Chemie</i> , 2018, 130, 4438-4455.	1.6	31
17	One-Dimensional Assembly of Silica Nanospheres: Effects of Nonionic Block Copolymers. <i>Langmuir</i> , 2012, 28, 13181-13188.	1.6	28
18	Self-organization of Patterned CaCO <sub>3</sub> /Polymer Composite Films: Tuning of Their Morphologies by the Change of Molecular Weights of Acidic Polymers. <i>Chemistry Letters</i> , 2006, 35, 310-311.	0.7	26

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19	Photoimaging of Self-Organized CaCO <sub>3</sub> /Polymer Hybrid Films by Formation of Regular Relief and Flat Surface Morphologies. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5856-5859.	7.2	26
20	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.	7.2	26
21	High Virus Removal by Self-Organized Nanostructured 2D Liquid-Crystalline Smectic Membranes for Water Treatment. <i>Small</i> , 2020, 16, e2001721.	5.2	22
22	Rapid and topotactic transformation from octacalcium phosphate to hydroxyapatite (HAP): a new approach to self-organization of free-standing thin-film HAP-based nano hybrids. <i>CrystEngComm</i> , 2016, 18, 8388-8395.	1.3	21
23	Development of functional nanoporous membranes based on photocleavable columnar liquid crystals " Selective adsorption of ionic dyes. <i>European Polymer Journal</i> , 2020, 134, 109859.	2.6	16
24	Preparation of Thin-film Hydroxyapatite/Polymer Hybrids. <i>Chemistry Letters</i> , 2011, 40, 458-460.	0.7	15
25	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.	0.7	12
26	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.	1.2	12
27	Tuning of morphology and polymorphs of carbonate/polymer hybrids using photoreactive polymer templates. <i>CrystEngComm</i> , 2015, 17, 6947-6954.	1.3	7
28	Periodic Surface-Ring Pattern Formation for Hydroxyapatite Thin Films Formed by Biomineralization-Inspired Processes. <i>Langmuir</i> , 2017, 33, 10077-10083.	1.6	6
29	Thermotropic Columnar Liquid Crystals Based on Wedge-Shaped Phenylphosphonic Acids. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 1450-1452.	2.0	4
30	Removal of viruses from their cocktail solution by liquid-crystalline water-treatment membranes. <i>Polymer Journal</i> , 2022, 54, 821-825.	1.3	4
31	Liquid Crystals: Self-Organized Liquid-Crystalline Nanostructured Membranes for Water Treatment: Selective Permeation of Ions ( <i>Adv. Mater.</i> 17/2012). <i>Advanced Materials</i> , 2012, 24, 2218-2218.	11.1	1
32	Virus Filtration: Highly Efficient Virus Rejection with Self-Organized Membranes Based on a Crosslinked Bicontinuous Cubic Liquid Crystal ( <i>Adv. Healthcare Mater.</i> 14/2017). <i>Advanced Healthcare Materials</i> , 2017, 6, .	3.9	0
33	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.	1.6	0
34	Water Treatment: High Virus Removal by Self-Organized Nanostructured 2D Liquid-Crystalline Smectic Membranes for Water Treatment ( <i>Small</i> 23/2020). <i>Small</i> , 2020, 16, 2070128.	5.2	0
35	Development of Self-Assembled Liquid-Crystalline Membranes Transporting Ions, Electrons, and Molecules. <i>Membrane</i> , 2016, 41, 132-137.	0.0	0