

Mutsumasa Kyotani

List of Publications by Year in descending order

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60
papers

1,292
citations

361413

20
h-index

377865

34
g-index

60
all docs

60
docs citations

60
times ranked

888
citing authors

#	ARTICLE	IF	CITATIONS
1	Studies on crystalline forms of nylon 6. II. Crystallization from the melt. Journal of Polymer Science Part A-2 Polymer Physics, 1972, 10, 1497-1508.	0.8	120
2	Highly Twisted Helical Polyacetylene with Morphology Free From the Bundle of Fibrils Synthesized in Chiral Nematic Liquid Crystal Reaction Field. Journal of the American Chemical Society, 2007, 129, 8519-8527.	13.7	111
3	Synthesis of Helical Polyacetylene in Chiral Nematic Liquid Crystals Using Crown Ether Type Binaphthyl Derivatives as Chiral Dopants. Journal of the American Chemical Society, 2005, 127, 14647-14654.	13.7	108
4	Helical Carbon and Graphitic Films Prepared from Iodine-Doped Helical Polyacetylene Film Using Morphology-Retaining Carbonization. Journal of the American Chemical Society, 2008, 130, 10880-10881.	13.7	102
5	Helicity-Controlled Liquid Crystal Reaction Field Using Nonbridged and Bridged Binaphthyl Derivatives Available for Synthesis of Helical Conjugated Polymers. Macromolecules, 2008, 41, 607-613.	4.8	60
6	Helical Polyacetylenes Synthesized in Helical Sense and Pitch Controllable Chiral Nematic Liquid Crystal with Unprecedented Temperature Dependence. Macromolecules, 2007, 40, 4762-4771.	4.8	54
7	Hierarchically Controlled Helical Graphite Films Prepared from Iodine-Doped Helical Polyacetylene Films Using Morphology-Retaining Carbonization. Journal of the American Chemical Society, 2011, 133, 17977-17992.	13.7	51
8	Mechanical and structural properties of extruded strands of blends containing a liquid-crystalline polyester with poly(ethylene terephthalate). Polymer, 1992, 33, 4756-4762.	3.8	41
9	Macroscopically Aligned Helical Polyacetylene Synthesized in Magnetically Oriented Chiral Nematic Liquid Crystal Field. Macromolecules, 2010, 43, 5943-5948.	4.8	32
10	Formation Mechanism of Helical Polyacetylene with Spiral Morphology in Asymmetric Reaction Field Consisting of Chiral Nematic Liquid Crystal. Macromolecules, 2010, 43, 8363-8372.	4.8	31
11	Studies on crystalline forms of Nylon 6. III. Crystallization from the glassy state. Journal of Macromolecular Science - Physics, 1975, 11, 509-525.	1.0	30
12	Macroscopically Aligned Helical Conjugated Polymers in Orientation-Controllable Chiral Nematic Liquid Crystal Field. Macromolecules, 2009, 42, 1817-1823.	4.8	29
13	Rheological, thermal, and mechanical properties of poly(ethylene naphthalate)/poly(ethylene Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.6	28
14	Synthesis of vertically aligned polyacetylene thin films in homeotropic liquid crystal solvents. Synthetic Metals, 2001, 117, 1-8.	3.9	27
15	Angular-resolved EELS of a carbon nanotube. Thin Solid Films, 1996, 273, 222-224.	1.8	26
16	Horizontally and vertically aligned helical conjugated polymers: Comprehensive formation mechanisms of helical fibrillar morphologies in orientation-controlled asymmetric reaction fields consisting of chiral nematic liquid crystals. Chemical Science, 2011, 2, 1389.	7.4	25
17	Orientation distribution of liquid-crystalline polyester sheets studied by polarized infrared spectroscopy. Journal of Polymer Science, Part B: Polymer Physics, 1993, 31, 1099-1108.	2.1	23
18	Entanglement-free fibrils of aligned polyacetylene films that produce single nanofibers. Nanoscale, 2010, 2, 509.	5.6	22

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19	Helical Polyacetylene Synthesized under Asymmetric Reaction Field Constructed with Chiral Nematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 332, 463-470.	0.3	21
20	Tubular-Shaped Nanocarbons Prepared from Polyaniline Synthesized by a Self-Assembly Process and Their Electrical Conductivity. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1999-2004.	0.9	21
21	Self-Assembled Nanostructures of Tailored Multi-Metal Complexes and Morphology Control by Counter-Anion Exchange. <i>Chemistry - A European Journal</i> , 2010, 16, 10638-10643.	3.3	21
22	Solution crystallization of nylon 6. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1979, 17, 103-114.	1.0	20
23	Surface orientation of a liquid-crystalline polymer studied by polarized reflection spectroscopy. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1991, 29, 1321-1328.	2.1	17
24	Efficient preparation of carbon papers by pyrolysis of iodine-treated Japanese paper. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 95, 14-20.	5.5	17
25	Syntheses of highly twisted helical polyacetylene under nano-order chiral nematic liquid crystal reaction field. <i>Current Applied Physics</i> , 2006, 6, 948-951.	2.4	16
26	Solution crystallization of nylon 12. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1982, 20, 345-356.	1.0	14
27	Structural, mechanical, and thermal properties of extruded sheets of a liquid crystalline copolyester. <i>Journal of Applied Polymer Science</i> , 1993, 47, 2053-2063.	2.6	14
28	Preparation of helical carbon and graphite films using morphology-retaining carbonization. <i>Synthetic Metals</i> , 2009, 159, 2198-2201.	3.9	14
29	Solution crystallization of blends of nylon 6 and nylon 12. <i>Journal of Macromolecular Science - Physics</i> , 1982, 21, 219-230.	1.0	13
30	Phase transitions and structural properties of a thermotropic polyester. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1983, 21, 379-387.	1.0	13
31	Thermal behavior, morphology, and mechanical properties of blend strands consisting of poly(ethylene terephthalate) and semiaromatic liquid crystalline polymer. <i>Journal of Applied Polymer Science</i> , 1996, 62, 1331-1338.	2.6	13
32	Cis-Rich Helical Polyacetylene Synthesized in Low-Temperature Chiral Nematic Liquid Crystal. <i>Macromolecules</i> , 2009, 42, 8590-8593.	4.8	12
33	Crystallization kinetics of polyethylene under high pressure. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1974, 12, 2331-2345.	1.0	11
34	Synthesis of Vertically Aligned Helical Polyacetylene Films in Homeotropic Chiral Nematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 365, 117-127.	0.3	11
35	Morphology-controlled carbonaceous and graphitic materials prepared from conjugated polymers as precursors through solid-state carbonization. <i>Synthetic Metals</i> , 2016, 216, 103-112.	3.9	11
36	Applications of fourier transform infrared microspectroscopy to the analysis of microscopic orientation in liquid crystalline polymer sheets. <i>Polymer</i> , 1992, 33, 2672-2678.	3.8	10

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37	Vertically aligned helical polyacetylene synthesized in chiral nematic liquid crystal under magnetic field. <i>Current Applied Physics</i> , 2006, 6, 952-955.	2.4	10
38	Studies on Crystalline Forms of Nylon 6. <i>Kobunshi Kagaku</i> , 1971, 28, 211-217.	0.1	9
39	Microstructures and their orientation behavior in a thermotropic polyester. <i>Journal of Macromolecular Science - Physics</i> , 1987, 26, 325-340.	1.0	9
40	Structural properties of carbon prepared from aligned polyacetylene thin films. <i>Synthetic Metals</i> , 2007, 157, 546-550.	3.9	9
41	Thermal and structural properties of extruded sheets of blends containing a liquid crystalline polyester with poly(ethylene terephthalate).. <i>Kobunshi Ronbunshu</i> , 1990, 47, 339-346.	0.2	8
42	Structural, rheological, and mechanical properties of ternary blends of PEN, PET, and liquid crystalline polymer. <i>Polymer Engineering and Science</i> , 1999, 39, 1480-1488.	3.1	8
43	Preparation of 2D Carbon Materials by Chemical Carbonization of Cellulosic Materials to Avoid Thermal Decomposition. <i>Global Challenges</i> , 2017, 1, 1700061.	3.6	7
44	The morphological properties of a thermotropic liquid crystalline polymer in the blend with poly(ethylene threphthalate).. <i>Journal of Fiber Science and Technology</i> , 1991, 47, 403-406.	0.0	6
45	Orientation distribution and layerlike morphology in extrusion-molded sheets of a liquid crystalline copolyester amide. <i>Journal of Applied Polymer Science</i> , 1993, 48, 2147-2159.	2.6	5
46	Observation of Cross Sections of Plasma-Polymerized Films of Benzene and Naphthalene by Electron Spectroscopic Imaging. <i>Japanese Journal of Applied Physics</i> , 1996, 35, L657-L660.	1.5	5
47	Chemical Carbonization of Paper Made from Wood Pulp without Thermal Decomposition Using a Catalyst and Structural Properties of the Carbonized Paper. <i>Journal of Fiber Science and Technology</i> , 2018, 74, 177-185.	0.4	5
48	Stirring-induced crystallization of nylon 6. <i>Journal of Macromolecular Science - Physics</i> , 1982, 21, 275-285.	1.0	4
49	Effect of Thermal History on the Time Evolution of the Structure of Thermotropic Liquid Crystalline Polyesters Containing a Halogen-Substituted Hydroquinone Ring. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 1743-1749.	2.2	4
50	Preparation of laminates having isotropically molecular orientation of a liquid crystalline polymer in poly(ethylene terephthalate) matrix. <i>Polymer</i> , 1994, 35, 5138-5140.	3.8	3
51	Structural properties of carbon materials from the electrochemical reduction of fluorinated naphthalene pitch. <i>Carbon</i> , 2002, 40, 1583-1590.	10.3	3
52	Structure formation of nanoribbon graphite from carbyne-like carbons. <i>Synthetic Metals</i> , 2001, 121, 1237-1238.	3.9	2
53	New Porous Carbon Materials as Gas Diffusion Layer for Polymer Electrolyte Fuel Cells. <i>Electrochemistry</i> , 2020, 88, 423-428.	1.4	2
54	Tubular-shaped nanocarbons prepared from polyaniline synthesized by a self-assembly process and their electrical conductivity. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1999-2004.	0.9	2

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55	Thermal properties of thermotropic polyesters with rigid chains. Journal of Polymer Science, Part B: Polymer Physics, 1987, 25, 501-511.	2.1	1
56	Helical graphite. Tanso, 2013, 2013, 201-209.	0.1	1
57	Nanobundles. Materials Research Society Symposia Proceedings, 1994, 359, 81.	0.1	0
58	Double-wall Carbon Nanotubes Synthesized by the Abnormal Glow Discharge Plasma Method. Materials Research Society Symposia Proceedings, 2002, 750, 1.	0.1	0
59	Chemical Carbonization in Solid-Phase of Nano-Size Cellulose Containing in Plant and Wood Pulp, and Relating Properties of the Carbonized Cellulose Fibers. Journal of Fiber Science and Technology, 2020, 76, 32-42.	0.4	0
60	Making Conductive Materials from Paper as an Insulator. Kami Pa Gikyoshi/Japan Tappi Journal, 2022, 76, 274-281.	0.1	0