Jiro Kumaki

List of Publications by Year
in descending order

64	3,736	126907	123424
papers	citations	33 h-index	61 g-index

70	70	70	2485
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Time-resolved light scattering studies on kinetics of phase separation and phase dissolution of polymer blends. 1. Kinetics of phase separation of a binary mixture of polystyrene and poly(vinyl methyl) Tj ETQq1 1 0.784314 rgBT /Ove	13.7	248
2	Two-Dimensional Surface Chirality Control by Solvent-Induced Helicity Inversion of a Helical Polyacetylene on Graphite. Journal of the American Chemical Society, 2006, 128, 5650-5651.	13.7	248
3	Visualization of Single-Chain Conformations of a Synthetic Polymer with Atomic Force Microscopy. Journal of the American Chemical Society, 1996, 118, 3321-3322.	13.7	178
4	Helix-Sense Controlled Polymerization of a Single Phenyl Isocyanide Enantiomer Leading to Diastereomeric Helical Polyisocyanides with Opposite Helix-Sense and Cholesteric Liquid Crystals with Opposite Twist-Sense. Journal of the American Chemical Society, 2006, 128, 708-709.	13.7	158
5	Encapsulation of Fullerenes in a Helical PMMA Cavity Leading to a Robust Processable Complex with a Macromolecular Helicity Memory. Angewandte Chemie - International Edition, 2008, 47, 515-519.	13.8	154
6	Two-Dimensional Hierarchical Self-Assembly of One-Handed Helical Polymers on Graphite. Angewandte Chemie - International Edition, 2006, 45, 1245-1248.	13.8	144
7	Control of Main-Chain Stiffness of a Helical Poly(phenylacetylene) by Switching On and Off the Intramolecular Hydrogen Bonding through Macromolecular Helicity Inversion. Angewandte Chemie - International Edition, 2006, 45, 8173-8176.	13.8	144
8	Supramolecular Helical Structure of the Stereocomplex Composed of Complementary Isotactic and Syndiotactic Poly(methyl methacrylate)s as Revealed by Atomic Force Microscopy. Angewandte Chemie - International Edition, 2007, 46, 5348-5351.	13.8	140
9	Visualization of synthetic helical polymers by high-resolution atomic force microscopy. Chemical Society Reviews, 2009, 38, 737.	38.1	138
10	Conformational Change in an Isolated Single Synthetic Polymer Chain on a Mica Surface Observed by Atomic Force Microscopy. Journal of the American Chemical Society, 2003, 125, 4907-4917.	13.7	124
11	Two-Dimensional Folded Chain Crystals of a Synthetic Polymer in a Langmuirâ˜Blodgett Film. Journal of the American Chemical Society, 2005, 127, 5788-5789.	13.7	121
12	Double-Stranded Helical Polymers Consisting of Complementary Homopolymers. Journal of the American Chemical Society, 2008, 130, 7938-7945.	13.7	121
13	Monolayer of polystyrene monomolecular particles on a water surface studied by Langmuir-type film balance and transmission electron microscopy. Macromolecules, 1988, 21, 749-755.	4.8	103
14	Two- and Three-Dimensional Smectic Ordering of Single-Handed Helical Polymers. Journal of the American Chemical Society, 2008, 130, 229-236.	13.7	101
15	Well-Defined Lyotropic Liquid Crystalline Properties of Rigid-Rod Helical Polyacetylenes. Macromolecules, 2005, 38, 4061-4064.	4.8	98
16	Helix-Sense-Controlled Synthesis of Optically Active Poly(methyl methacrylate) Stereocomplexes. Journal of the American Chemical Society, 2008, 130, 11889-11891.	13.7	90
17	Twoâ€Dimensional Helixâ€Bundle Formation of a Dynamic Helical Poly(phenylacetylene) with Achiral Pendant Groups on Graphite. Angewandte Chemie - International Edition, 2007, 46, 7605-7608.	13.8	85
18	Polystyrene monomolecular particles obtained by spreading dilute solutions on the water surface. Macromolecules, 1986, 19, 2258-2263.	4.8	80

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19	Conductive Metal Nanowires Templated by the Nucleoprotein Filaments, Complex of DNA and RecA Protein. Journal of the American Chemical Society, 2005, 127, 8120-8125.	13.7	79
20	Molecular Weight Recognition in the Multiple-Stranded Helix of a Synthetic Polymer without Specific Monomerâ€“Monomer Interaction. Journal of the American Chemical Society, 2008, 130, 6373-6380.	13.7	65
21	Hierarchical Amplification of Macromolecular Helicity of Dynamic Helical Poly(phenylacetylene)s Composed of Chiral and Achiral Phenylacetylenes in Dilute Solution, Liquid Crystal, and Two-Dimensional Crystal. Journal of the American Chemical Society, 2011, 133, 108-114.	13.7	63
22	Stereocomplex Formation of Isotactic and Syndiotactic Poly(methyl methacrylate)s in Ionic Liquids Leading to Thermoreversible Ion Gels. Macromolecules, 2005, 38, 9155-9160.	4.8	59
23	Nanosphere and Nanonetwork Formations of [60]Fullerene-End-Capped Stereoregular Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overl Journal of the American Chemical Society, 2006, 128, 10560-10567.	13.7	59
24	Observation of polymer chain structures in two-dimensional films by atomic force microscopy. Polymer Journal, 2016, 48, 3-14.	2.7	57
25	Separation of C₇₀ over C₆₀ and Selective Extraction and Resolution of Higher Fullerenes by Syndiotactic Helical Poly(methyl methacrylate). Journal of the American Chemical Society, 2010, 132, 12191-12193.	13.7	54
26	Synthesis, Isolation via Self-Assembly, and Single-Molecule Observation of a [60]Fullerene-End-Capped Isotactic Poly(methyl methacrylate). Journal of the American Chemical Society, 2005, 127, 9950-9951.	13.7	52
27	â€œReptationalâ€•Movements of Single Synthetic Polymer Chains on Substrate Observed by in-Situ Atomic Force Microscopy. Macromolecules, 2006, 39, 1209-1215.	4.8	52
28	Two-Dimensional Microphase Separation of a Block Copolymer in a Langmuirâ€'Blodgett Film. Journal of the American Chemical Society, 1998, 120, 423-424.	13.7	49
29	Time-resolved light scattering studies on kinetics of phase separation and phase dissolution of polymer blends. 4. Kinetics of phase dissolution of a binary mixture of polystyrene and poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlo	3.3	40
30	Temperature Gradients Induce Phase Separation in a Miscible Polymer Solution. Physical Review Letters, 1996, 77, 1990-1993.	7.8	36
31	In Situ Real-Time Observation of Polymer Folded-Chain Crystallization by Atomic Force Microscopy at the Molecular Level. Macromolecules, 2018, 51, 7629-7636.	4.8	33
32	Visualization of Polymer Chain Conformations in Amorphous Polyisocyanide Langmuirâ€'Blodgett Films by Atomic Force Microscopy. Journal of the American Chemical Society, 2010, 132, 5604-5606.	13.7	32
33	Synthesis of Polymer Brushes Composed of Poly(phenylacetylene) Main Chain and Either Polystyrene or Poly(methyl methacrylate) Side Chains. Macromolecules, 2007, 40, 178-185.	4.8	30
34	Amplification of macromolecular helicity of dynamic helical poly(phenylacetylene)s bearing non-racemic alanine pendants in dilute solution, liquid crystal and two-dimensional crystal. Polymer Journal, 2012, 44, 42-50.	2.7	23
35	AFM Snapshots of Synthetic Multifunctional Pores with Polyacetylene Blockers: Pseudorotaxanes and Template Effects. Angewandte Chemie - International Edition, 2005, 44, 6154-6157.	13.8	22
36	Significant Melting Point Depression of Two-Dimensional Folded-Chain Crystals of Isotactic Poly(methyl methacrylate)s Observed by High-Resolution In Situ Atomic Force Microscopy. Journal of Physical Chemistry B, 2013, 117, 5594-5605.	2.6	22

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37	Crystallization Behavior of Single Isotactic Poly(methyl methacrylate) Chains Visualized by Atomic Force Microscopy. Journal of Physical Chemistry B, 2015, 119, 338-347.	2.6	22
38	Gemini Thermotropic Smectic Liquid Crystals for Two-Dimensional Nanostructured Water-Treatment Membranes. ACS Applied Materials & Interfaces, 2021, 13, 20598-20605.	8.0	22
39	Visualization of Two-Dimensional Single Chain Conformations Solubilized in a Miscible Polymer Blend Monolayer by Atomic Force Microscopy. Journal of Physical Chemistry B, 2012, 116, 6561-6568.	2.6	20
40	Accumulation of monomolecular polystyrene particles from a water surface onto a substrate. Journal of Polymer Science, Part B: Polymer Physics, 1990, 28, 105-111.	2.1	17
41	Photo-induced helixâ€“helix transition of a polystyrene derivative. Polymer Chemistry, 2014, 5, 718-721.	3.9	17
42	Evaluation of Ring Expansion-Controlled Radical Polymerization System by AFM Observation. ACS Macro Letters, 2019, 8, 634-638.	4.8	17
43	Extended-chain crystallization and stereocomplex formation of polylactides in a Langmuir monolayer. Polymer Journal, 2020, 52, 601-613.	2.7	17
44	Reversible Hierarchical Phase Separation of a Poly(methyl methacrylate) and Poly(n-nonyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	4.8	16
45	Influence of the primary structure of the main chain on backbone stiffness of cylindrical rod brushes. Polymer Journal, 2013, 45, 193-201.	2.7	14
46	Peculiar â€˜Reptationalâ€™ Movements of Single Synthetic Polymer Chains on Substrate Observed by AFM. Macromolecular Rapid Communications, 2008, 29, 406-411.	3.9	13
47	Strong Compression Rate Dependence of Phase Separation and Stereocomplexation between Isotactic and Syndiotactic Poly(methyl methacrylate)s in a Langmuir Monolayer Observed by Atomic Force Microscopy. Langmuir, 2010, 26, 12703-12708.	3.5	12
48	Two-Dimensional Phase Separation of a Poly(methyl methacrylate)/Poly(<scp>l</scp>-lactide) Mixed Langmuir Monolayer via a Spinodal Decomposition Mechanism. Journal of Physical Chemistry B, 2013, 117, 9067-9072.	2.6	10
49	Fabrication of a Polymer Molecularly Flat Substrate by Thermal Nanoimprinting and AFM Observation of Polymer Chains Deposited on It. Macromolecules, 2019, 52, 6555-6565.	4.8	10
50	Condensed desmin and actin cytoskeletal communication in lipid droplets. Cytoskeleton, 2019, 76, 477-490.	2.0	8
51	Self-Assembly of Linear and Cyclic Polylactide Stereoblock Copolymers with a Parallel and Antiparallel Chain Arrangement Distinguishing Their Directions on a Water Surface. Langmuir, 2020, 36, 6216-6221.	3.5	6
52	Morphology control through hierarchical phase separation in Langmuir monolayers of poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	9.4	5
53	Atomic force microscopy of single polymer chains on a substrate at temperatures above the bulk glass transition temperatures. Polymer, 2019, 168, 21-28.	3.8	5
54	Molecular Combing of a Flexible Polymer Chain by Simple Spin-Casting. ACS Omega, 2018, 3, 3983-3990.	3.5	3

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55	Preparation of a Si(111) Atomically Flat Substrate via Wet Etching and Evaluation as an AFM Substrate for Observations of Isolated Chains, Crystals, and Crystallization of Isotactic Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	3.5	4
56	Thermal stabilities of a molecularly stepped PMMA substrate prepared by thermal nanoimprinting and isolated PMMA chains deposited on it evaluated by high-temperature atomic force microscopy. Polymer Journal, 2021, 53, 1111-1121.	2.7	3
57	In Situ AFM Observation of Foldedâ€Chain Crystallization of a Lowâ€Molecularâ€Weight Isotactic Poly(methyl methacrylate) in a Langmuir Monolayer at the Molecular Level. Macromolecular Chemistry and Physics, 2021, 222, 2000372.	2.2	3
58	Sensing, Threading, Orienting, and Cutting Polymers with Rigid-Rod Pores. Journal of Receptor and Signal Transduction Research, 2006, 26, 461-472.	2.5	2
59	Chain movements of a molecularly flat PMMA substrate surface prepared by thermal imprinting with mica and isolated PMMA chains deposited on the PMMA substrate observed by AFM around the bulk Tg. Polymer Journal, 2022, 54, 281-292.	2.7	2
60	Molecular Combing of Various Poly(n-Alkyl Acrylate) Chains on Mica by the Dipping Method. Langmuir, 2021, 37, 7556-7564.	3.5	1
61	Macromolecular Chain Structures of Atactic Poly(methyl methacrylate) Visualized on Hydrophilized Graphene Surfaces by Atomic Force Microscopy. Chemistry Letters, 2021, 50, 1403-1406.	1.3	1
62	Solubilization of poly(styrene)(PS)-b-poly(methyl methacrylate)(PMMA)-b-PS in poly(n-nonyl acrylate) and PMMA monolayers as isolated chains with both PS blocks forming separated single-block particles. Polymer Journal, 2022, 54, 687-696.	2.7	1
63	Cover Image, Volume 76, Issue 7â€8. Cytoskeleton, 2019, 76, C1.	2.0	0
64	In situ AFM Observation of the Movements of Isolated Isotactic Poly(methyl methacrylate) Chains in a Precursor Film of an Oligo(methyl methacrylate) Droplet Spreading on Mica. Langmuir, 2020, 36, 12327-12335.	3.5	0