

Koji Nishida

List of Publications by Year in descending order

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docs citations

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2597
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#	ARTICLE	IF	CITATIONS
1	Crystallization and Melting Behavior of Poly(L-lactic Acid). <i>Macromolecules</i> , 2007, 40, 9463-9469.	4.8	548
2	Effect of Polylactide Stereocomplex on the Crystallization Behavior of Poly(L-lactic acid). <i>Macromolecules</i> , 2009, 42, 4739-4745.	4.8	180
3	Conformational Change and Orientation Fluctuations Prior to the Crystallization of Syndiotactic Polystyrene. <i>Macromolecules</i> , 1999, 32, 8932-8937.	4.8	105
4	Effects of high molecular weight component on crystallization of polyethylene under shear flow. <i>Polymer</i> , 2006, 47, 5669-5677.	3.8	103
5	Hierarchic Structure of Shish-Kebab by Neutron Scattering in a Wide Q Range. <i>Macromolecules</i> , 2007, 40, 3650-3654.	4.8	102
6	Crystallization of Isotactic Polypropylene from Prequenched Mesomorphic Phase. <i>Macromolecules</i> , 2006, 39, 8035-8040.	4.8	98
7	Thermal expansion behavior of ultrathin polymer films supported on silicon substrate. <i>Physical Review E</i> , 2004, 69, 061803.	2.1	96
8	Spinodal Crystallization of Polymers: Crystallization from the Unstable Melt. , 0, , 187-240.		88
9	Crystallization of Isotactic Polypropylene under Shear Flow Observed in a Wide Spatial Scale. <i>Macromolecules</i> , 2006, 39, 7617-7625.	4.8	86
10	Effect of Isotacticity on Formation of Mesomorphic Phase of Isotactic Polypropylene. <i>Macromolecules</i> , 2005, 38, 8749-8754.	4.8	76
11	Crystallization of Polyethylene Blends under Shear Flow. Effects of Crystallization Temperature and Ultrahigh Molecular Weight Component. <i>Macromolecules</i> , 2007, 40, 7270-7275.	4.8	71
12	Precursor of shish-kebab in isotactic polystyrene under shear flow. <i>Polymer</i> , 2009, 50, 2095-2103.	3.8	71
13	Crystallization of polyethylene under shear flow as studied by time resolved depolarized light scattering. Effects of shear rate and shear strain. <i>Polymer</i> , 2005, 46, 1878-1885.	3.8	69
14	Loosening Xyloglucan Accelerates the Enzymatic Degradation of Cellulose in Wood. <i>Molecular Plant</i> , 2009, 2, 904-909.	8.3	69
15	Determination of intrinsic viscosity of polyelectrolyte solutions. <i>Polymer</i> , 2002, 43, 1295-1300.	3.8	66
16	Multilamellar Structures Induced by Hydrophilic and Hydrophobic Ions Added to a Binary Mixture of D_2O and 3-Methylpyridine. <i>Physical Review Letters</i> , 2009, 103, 167803.	7.8	63
17	Distributions of glass-transition temperature and thermal expansivity in multilayered polystyrene thin films studied by neutron reflectivity. <i>Physical Review E</i> , 2011, 83, 021801.	2.1	62
18	Conformational Change and Orientation Fluctuations of Isotactic Polystyrene Prior to Crystallization. <i>Polymer Journal</i> , 1999, 31, 722-727.	2.7	60

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19	Precursor of Shish-Kebab above the Melting Temperature by Microbeam X-ray Scattering. <i>Macromolecules</i> , 2013, 46, 3031-3036.	4.8	52
20	Early aggregation preceding the nucleation of insulin amyloid fibrils as monitored by small angle X-ray scattering. <i>Scientific Reports</i> , 2015, 5, 15485.	3.3	51
21	Charge Density Dependence of Correlation Length Due to Electrostatic Repulsion in Polyelectrolyte Solutions. <i>Macromolecules</i> , 1995, 28, 2472-2475.	4.8	47
22	Phase separation and dewetting in polystyrene/poly(vinyl methyl ether) blend thin films in a wide thickness range. <i>Polymer</i> , 2008, 49, 254-262.	3.8	46
23	Inelastic Neutron Scattering Study of Low Energy Excitations in Polymer Thin Films. <i>Physical Review Letters</i> , 2005, 95, 056102.	7.8	45
24	Further evidence of spinodal decomposition during the induction period of polymer crystallization: Time-resolved small-angle x-ray scattering prior to crystallization of poly(ethylene naphthalate). <i>Physical Review E</i> , 2000, 62, R1497-R1500.	2.1	41
25	Effects of cononsolvency on gelation of poly(vinyl alcohol) in mixed solvents of dimethyl sulfoxide and water. <i>Polymer</i> , 2003, 44, 4075-4078.	3.8	41
26	Mesomorphic Phase of Poly(butylene-2,6-naphthalate). <i>Macromolecules</i> , 2008, 41, 3157-3161.	4.8	38
27	Distribution of glass transition temperature in multilayered poly(methyl methacrylate) thin film supported on a Si substrate as studied by neutron reflectivity. <i>Physical Review E</i> , 2013, 88, 032601.	2.1	38
28	Interfacial properties of polystyrene thin films as revealed by neutron reflectivity. <i>Physical Review E</i> , 2011, 84, 031802.	2.1	37
29	Electrostatic persistence length of NaPSS polyelectrolytes determined by a zero average contrast SANS technique. <i>Polymer</i> , 1997, 38, 6083-6085.	3.8	33
30	Novel morphology of isotactic polypropylene crystal generated by a rapid temperature jump method. <i>Polymer</i> , 2004, 45, 1433-1437.	3.8	32
31	Isothermal Crystallization Process of Poly(<i>l</i> -lactic acid)/Poly(<i>d</i> -lactic acid) Blends after Rapid Cooling from the Melt. <i>ACS Omega</i> , 2016, 1, 476-482.	3.5	32
32	Theoretical calculation of reduced viscosity of polyelectrolyte solutions. <i>Polymer</i> , 2001, 42, 8657-8662.	3.8	31
33	Structure and dynamics of poly(vinyl alcohol) gels in mixtures of dimethyl sulfoxide and water. <i>Polymer Journal</i> , 2012, 44, 83-94.	2.7	31
34	Detailed analysis of the induction period of polymer crystallization by depolarized light scattering. <i>Physical Review E</i> , 2002, 65, 061801.	2.1	28
35	A high-resolution small-angle light scattering instrument for soft matter studies. <i>Journal of Applied Crystallography</i> , 2008, 41, 723-728.	4.5	27
36	Precursor of Shish-Kebab in Atactic Polystyrene/Isotactic Polystyrene Blend above Nominal Melting Temperature. <i>Macromolecules</i> , 2012, 45, 4630-4637.	4.8	26

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37	Low-energy excitations and the fast process of polystyrene thin supported films studied by inelastic and quasielastic neutron scattering. <i>Physical Review E</i> , 2006, 74, 021801.	2.1	25
38	In situ observations of the mesophase formation of isotactic polypropylene—A fast time-resolved X-ray diffraction study. <i>Polymer Journal</i> , 2012, 44, 95-101.	2.7	25
39	Improvement of poly(vinyl alcohol) properties by the addition of magnesium nitrate. <i>Journal of Applied Polymer Science</i> , 2009, 112, 1647-1652.	2.6	23
40	Relaxation of shish-kebab precursor in isotactic polystyrene after short-term shear flow. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 214-221.	2.1	21
41	Glassy Dynamics and Heterogeneity of Polymer Thin Films. <i>Journal of the Physical Society of Japan</i> , 2009, 78, 041004.	1.6	20
42	Relationship between the Local Dynamics and Gas Permeability of Para-Substituted Poly(1-chloro-2-phenylacetylenes). <i>Macromolecules</i> , 2012, 45, 6008-6014.	4.8	20
43	Microbeam Wide-Angle X-ray Scattering Study on Precursor of Shish Kebab. Effects of Shear Rate and Annealing on Inner Structure. <i>Macromolecules</i> , 2015, 48, 3337-3343.	4.8	19
44	Melt memory effects on recrystallization of polyamide 6 revealed by depolarized light scattering and small-angle X-ray scattering. <i>Journal of Applied Polymer Science</i> , 2011, 122, 1913-1920.	2.6	18
45	Vitrification and crystallization of poly(butylene-2,6-naphthalate). <i>Thermochimica Acta</i> , 2015, 603, 110-115.	2.7	18
46	Gelation-Induced Phase Separation of Poly(vinyl alcohol) in Mixed Solvents of Dimethyl Sulfoxide and Water. <i>Macromolecules</i> , 2007, 40, 8750-8755.	4.8	17
47	Spinodal patterns indicating unstable regime of polymer crystallization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 1817-1822.	2.1	16
48	Details of Structure Formation During the Induction Period of Spinodal-Type Polymer Crystallization. <i>Journal of Macromolecular Science - Physics</i> , 2003, 42, 709-715.	1.0	15
49	Time-resolved specular and off-specular neutron reflectivity measurements on deuterated polystyrene and poly(vinyl methyl ether) blend thin films during dewetting process. <i>Journal of Chemical Physics</i> , 2009, 131, 104907.	3.0	15
50	Dewetting Process of Deuterated Polystyrene and Poly(vinyl methyl ether) Blend Thin Films via Phase Separation. <i>Macromolecules</i> , 2013, 46, 4540-4547.	4.8	15
51	Dielectric Behavior of Guest <i>cis</i> -Polyisoprene Confined in Spherical Microdomain of Triblock Copolymer.. <i>Macromolecules</i> , 2012, 45, 2809-2819.	4.8	14
52	In situ small-angle X-ray and neutron scattering measurements on a blend of deuterated and hydrogenated polyethylenes during uniaxial drawing. <i>Polymer Journal</i> , 2013, 45, 293-299.	2.7	14
53	Structural analysis of poly(ethylene terephthalate) during uniaxial drawing above the glass transition temperature. <i>Polymer Journal</i> , 2013, 45, 50-56.	2.7	13
54	Precursor of Primary Nucleation in Isotactic Polystyrene Induced by Shear Flow. , 2007, , 87-96.		13

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55	Giant single crystal of isotactic polypropylene showing near-equilibrium melting temperature. <i>Polymer Journal</i> , 2013, 45, 287-292.	2.7	12
56	Trajectory of Critical Point in Polymerization-Induced Phase Separation of Epoxy/Oligoethylene Glycol Solutions. <i>Macromolecules</i> , 2014, 47, 4453-4459.	4.8	12
57	Salting-out and salting-in effects of amphiphilic salt on cloud point of aqueous methylcellulose. <i>Process Biochemistry</i> , 2017, 59, 52-57.	3.7	12
58	Heating rate effects on the crystallization behavior of isotactic polypropylene from mesophase "A" de-polarized light transmission study. <i>Polymer</i> , 2012, 53, 2777-2782.	3.8	11
59	Molecular weight dependence of mean square displacement in ultrathin polymer films as studied by inelastic neutron scattering. <i>Physical Review E</i> , 2008, 77, 032801.	2.1	10
60	Role of molecular weight in shish-kebab formation during drawing by small-angle neutron and X-ray scattering. <i>Polymer Journal</i> , 2017, 49, 831-837.	2.7	10
61	Hydrogen bonding interactions of styrene-maleimide copolymers with diaminotriazine derivatives. <i>Journal of Applied Polymer Science</i> , 2006, 101, 2338-2346.	2.6	9
62	Lower critical solution temperature type of phase separation in aqueous mixture of polyelectrolytes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007, 56, 265-269.	5.0	9
63	Mesomorphic phase formation of plasticized poly(L-lactic acid). <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	9
64	Effect of organic anion with multiple hydrophobic sites on gelation and phase separation in aqueous methylcellulose solution: Beyond simple salting-in effect. <i>Polymer</i> , 2019, 178, 121574.	3.8	7
65	Theoretical calculation of the reduced viscosity of aqueous suspensions of charged spherical particles. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 1068-1074.	2.1	6
66	Oriented Structure in Isotactic Polystyrene Melt Induced by Shear Flow. <i>Kobunshi Ronbunshu</i> , 2009, 66, 419-427.	0.2	6
67	Critical Dissolution Ionic Strength of Aqueous Solution of Chitosan Hydrochloride Salt. <i>Journal of Fiber Science and Technology</i> , 2014, 70, 225-231.	0.0	6
68	Specifications of Multiple-Temperature-Jump Hot-Stage for "In Situ" Observation and Examples of Application. <i>Journal of Fiber Science and Technology</i> , 2019, 75, 145-152.	0.4	6
69	Hierarchic Structure of Poly(vinyl alcohol) Gels. <i>Kobunshi Ronbunshu</i> , 1998, 55, 595-602.	0.2	5
70	Rheo-SANS study on gelation of poly(vinyl alcohol). <i>Physica B: Condensed Matter</i> , 2006, 385-386, 810-813.	2.7	5
71	Relationship between the local dynamics and gas permeability of polyacetylenes containing polymethylated indan/tetrahydronaphthalene moieties. <i>Polymer</i> , 2014, 55, 182-186.	3.8	5
72	Crystal morphology of polyurea on rapid quenching. <i>Polymer</i> , 2021, 213, 123201.	3.8	5

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73	Elementary Process of Polymer Crystallization and Self-Organization. Journal of Fiber Science and Technology, 2006, 62, P.88-P.92.	0.0	5
74	Small-angle neutron scattering study of poly(vinyl alcohol) gels during melting process. Journal of Applied Polymer Science, 2005, 95, 157-160.	2.6	4
75	Salting-In and Salting-Out Effects on Cloud Point of Aqueous Methylcellulose by Addition of Monomeric and Polymeric Sodium Styrene Sulfonate. Journal of Fiber Science and Technology, 2015, 71, 297-301.	0.0	4
76	Quasi-Equilibrium Gelation Temperature of Aqueous Methylcellulose. Journal of Fiber Science and Technology, 2016, 72, 251-257.	0.4	3
77	Molecular weight component dependence of shish-kebab structure of polyethylene blends with X-ray and neutron scattering measurements covering a wide spatial scale. Polymer Crystallization, 2019, 2, e10034.	0.8	3
78	Visualization of Nonequilibrium Properties of a Crystalline Polymer: Formation of Ring-Lite Due to the Gibbs-Thomson Effect and Dark-Ring Due to the Melting Point Inversion. Crystal Growth and Design, 2022, 22, 441-448.	3.0	3
79	FT-IR Study of the Morphological Interactions in PHB/PAZO Blends and their Dependence on Solvent Variation. Polymers and Polymer Composites, 2005, 13, 681-686.	1.9	2
80	The Effect of Solvent on the Miscibility of Blends of Poly 1-[4-(3-carboxy-4-hydroxy-phenylazo)benzene Polymer Composites, 2005, 13, 443-452.	1.9	2
81	The Effects of Ultra-High Molecular Weight Components on Crystallization under Shear Flow. Kobunshi Ronbunshu, 2007, 64, 419-428.	0.2	2
82	Investigation into Polyhydroxybutyrate Morphology under the Influence of Varying Solvent Type. Polymers and Polymer Composites, 2004, 12, 699-703.	1.9	1
83	Control of Phase Structure of Thermoplastic Polyurethane by Multiple Temperature Jump Method. Kobunshi Ronbunshu, 2007, 64, 96-101.	0.2	1
84	Quantum Beam Studies on Polymer Crystallization under Flow. Polymer Journal, 2007, 39, 1085-1097.	2.7	1
85	A Study on Polymerization-Induced Phase Separation (PIPS) of Epoxy Solution in Oligoethylene Glycol Aiming at Controlling the Characteristic Length. Journal of Fiber Science and Technology, 2016, 72, 126-131.	0.4	1
86	Device for Simultaneous Measurements of Viscosity and Light Transmittance with Example of Application. Journal of Fiber Science and Technology, 2019, 75, 58-62.	0.4	1
87	Formation of Shish-Kebab Structures in Ultrahigh Molecular Weight Polyethylene (UHMWPE)/Low Molecular Weight Polyethylene (LMWPE) Composites under Shear Flow. , 0, , 552-576.		0
88	Heterogeneity in Polymer Thin Films. , 2011, , .		0
89	Flow and Deformation-induced Polymer Crystallization by SANS and SAXS. Nihon Kessho Gakkaishi, 2015, 57, 27-33.	0.0	0
90	A study on the isothermal crystallization of poly(3-methylbutene-1). Polymer Journal, 2019, 51, 173-182.	2.7	0

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91	Polymer Crystallization under Shear Flow - Formation Mechanism of Fiber Structure -. Journal of Fiber Science and Technology, 2007, 63, P.58-P.62.	0.0	0
92	Mesomorphic Phase in Crystalline Polymer. Journal of Fiber Science and Technology, 2007, 63, P.412-P.416.	0.0	0
93	In Situ Observation of Structure Formation in Fibers and Films. Journal of Fiber Science and Technology, 2009, 65, P.337-P.340.	0.0	0
94	Fundamental Properties of Polymer Solids. Seikei-Kakou, 2010, 22, 362-365.	0.0	0
95	Mesomorphic Phase of Isotactic Polypropylene -Part2-. Seikei-Kakou, 2011, 23, 418-420.	0.0	0