

Naoko Yoshie

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118
papers

4,018
citations

37
h-index

59
g-index

123
ext. papers

4,341
ext. citations

5
avg, IF

5.57
L-index

#	Paper	IF	Citations
118	Bio-Based Furan Polymers with Self-Healing Ability. <i>Macromolecules</i> , 2013 , 46, 1794-1802	5.5	249
117	Structure and physical properties of bacterially synthesized polyesters. <i>Progress in Polymer Science</i> , 1992 , 17, 571-610	29.6	180
116	Microstructure of bacterially synthesized poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Macromolecules</i> , 1989 , 22, 1676-1682	5.5	147
115	Synthesis and properties of readily recyclable polymers from bisfuranic terminated poly(ethylene adipate) and multi-maleimide linkers. <i>Polymer</i> , 2006 , 47, 4946-4952	3.9	135
114	Seawater-Assisted Self-Healing of Catechol Polymers via Hydrogen Bonding and Coordination Interactions. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19047-53	9.5	111
113	Tunicate-Inspired Gallol Polymers for Underwater Adhesive: A Comparative Study of Catechol and Gallol. <i>Biomacromolecules</i> , 2017 , 18, 2959-2966	6.9	106
112	Higher-order structures and mechanical properties of stereocomplex-type poly(lactic acid) melt spun fibers. <i>Polymer</i> , 2006 , 47, 5965-5972	3.9	102
111	Complex composition distribution of poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Macromolecules</i> , 1995 , 28, 6516-6521	5.5	102
110	A thermally-stable self-mending polymer networked by Diels-Alder cycloaddition. <i>Polymer</i> , 2011 , 52, 6074-6079	3.9	99
109	Thermal behaviour and miscibility of poly(3-hydroxybutyrate)/poly(vinyl alcohol) blends. <i>Polymer</i> , 1992 , 33, 4763-4767	3.9	98
108	Tough Elastomers with Superior Self-Recoverability Induced by Bioinspired Multiphase Design. <i>Advanced Functional Materials</i> , 2017 , 27, 1701670	15.6	93
107	Self-healing bio-based furan polymers cross-linked with various bis-maleimides. <i>Polymer</i> , 2013 , 54, 5351-5357	3.9	93
106	Study of cocrystallization of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by solid-state high-resolution carbon-13 NMR spectroscopy and differential scanning calorimetry. <i>Macromolecules</i> , 1991 , 24, 2178-2182	5.5	87
105	Crystallization and compatibility of poly(vinyl alcohol)/poly(3-hydroxybutyrate) blends: Influence of blend composition and tacticity of poly(vinyl alcohol). <i>Journal of Applied Polymer Science</i> , 1995 , 56, 17-24	2.9	85
104	Thermo-responsive mending of polymers crosslinked by thermally reversible covalent bond: Polymers from bisfuranic terminated poly(ethylene adipate) and tris-maleimide. <i>Polymer Degradation and Stability</i> , 2010 , 95, 826-829	4.7	80
103	Structural Transition of Lamella Crystals in a Isomorphous Copolymer, Poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Macromolecules</i> , 2001 , 34, 8953-8960	5.5	76
102	Isomorphic behavior of random copolymers: thermodynamic analysis of cocrystallization of poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Macromolecules</i> , 1991 , 24, 3888-3892	5.5	64

101	Effect of low molecular weight additives on enzymatic degradation of poly(3-hydroxybutyrate). <i>Polymer</i> , 2000 , 41, 3227-3234	3.9	62
100	Antioxidant and Adsorption Properties of Bioinspired Phenolic Polymers: A Comparative Study of Catechol and Gallol. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 3857-3863	8.3	57
99	Two-Way Conversion between Hard and Soft Properties of Semicrystalline Cross-Linked Polymer. <i>Macromolecules</i> , 2008 , 41, 4753-4757	5.5	57
98	Comonomer compositional distribution and thermal and morphological characteristics of bacterial poly(3-hydroxybutyrate-co-3-hydroxyvalerate)s with high 3-hydroxyvalerate content. <i>Biomacromolecules</i> , 2001 , 2, 1315-23	6.9	54
97	A simple modification creates a great difference: new solid-base catalyst using methylated N-substituted SBA-15. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20030-2	16.4	52
96	Polymers with autonomous self-healing ability and remarkable reprocessability under ambient humidity conditions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19643-19652	13	50
95	Polymers with multishape memory controlled by local glass transition temperature. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2753-8	9.5	49
94	Synthesis of readily recyclable biobased plastics by Diels-Alder reaction. <i>Macromolecular Bioscience</i> , 2008 , 8, 916-22	5.5	49
93	Surface composition and biodegradability of poly(3-hydroxybutyric acid)/poly(vinyl alcohol) blend films. <i>Polymer Degradation and Stability</i> , 1998 , 62, 463-469	4.7	48
92	Morphology-Retaining Carbonization of Honeycomb-Patterned Hyperbranched Poly(phenylene vinylene) Film. <i>Macromolecules</i> , 2008 , 41, 9846-9848	5.5	48
91	Cocrystallization and phase segregation of blends of poly(3-hydroxybutyrate) and poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Polymer</i> , 2001 , 42, 5573-5580	3.9	47
90	Change of surface structure of poly(3-hydroxybutyrate) film upon enzymatic hydrolysis by PHB depolymerase. <i>Biomacromolecules</i> , 2002 , 3, 1320-6	6.9	44
89	Cocrystallization of isothermally crystallized poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Macromolecules</i> , 1992 , 25, 2046-2048	5.5	42
88	Substituent effect on structure and physical properties of semicrystalline Diels-Alder network polymers. <i>Polymer</i> , 2011 , 52, 2877-2882	3.9	40
87	Photoinduced mendable network polymer from poly(butylene adipate) end-functionalized with cinnamoyl groups. <i>Polymer Journal</i> , 2012 , 44, 724-729	2.7	40
86	Hydrogen-Bonding Interaction and Crystalline Morphology in the Binary Blends of Poly(Ecaprolactone) and Polyphenol Catechin. <i>Macromolecular Bioscience</i> , 2003 , 3, 684-693	5.5	40
85	Comonomer-unit compositions, physical properties and biodegradability of bacterial copolyhydroxyalkanoates. <i>Macromolecular Bioscience</i> , 2004 , 4, 186-98	5.5	39
84	Non-swellable self-healing polymer with long-term stability under seawater. <i>RSC Advances</i> , 2017 , 7, 19288-19298	3.7	38

83	Effect of chemical compositional distribution on solid-state structures and properties of poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Polymer</i> , 2004 , 45, 1903-1911	3.9	37
82	Temperature dependence of cocrystallization and phase segregation in blends of poly(3-hydroxybutyrate) and poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Polymer</i> , 2001 , 42, 8557-8563	2.9	37
81	Crystalline Structural Change of Bacterial Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) with Narrow Compositional Distribution. <i>Macromolecules</i> , 2001 , 34, 4659-4661	5.5	37
80	Stereocomplexation of solvent-cast poly(lactic acid) by addition of non-solvents. <i>Polymer International</i> , 2012 , 61, 301-306	3.3	35
79	Miscibility and Phase Structure of Blends of Poly(ethylene oxide) with Poly(3-hydroxybutyrate), Poly(3-hydroxypropionate), and Their Copolymers. <i>Macromolecules</i> , 2002 , 35, 727-735	5.5	35
78	Crystallization and Melting Behavior in Blends of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)s with a Narrow Composition Distribution. <i>Polymer Journal</i> , 1996 , 28, 45-50	2.7	35
77	A structural study of the crystalline state of the bacterial copolyester poly(3-hydroxybutyrate-co-4-hydroxybutyrate). <i>Polymer</i> , 1994 , 35, 193-197	3.9	35
76	Biobased poly(2,5-furandimethylene succinate-co-butylene succinate) crosslinked by reversible Diels-Alder reaction. <i>Journal of Polymer Science Part A</i> , 2014 , 52, 216-222	2.5	33
75	Partial Phase Segregation in Strongly Hydrogen-Bonded and Miscible Blends. <i>Macromolecules</i> , 2004 , 37, 3257-3266	5.5	33
74	Chemical composition distribution of bacterial copolyesters. <i>International Journal of Biological Macromolecules</i> , 1999 , 25, 193-200	7.9	31
73	Influence of tacticity and molecular weight of poly(vinyl alcohol) on crystallization and biodegradation of poly(3-hydroxybutyric acid)/poly(vinyl alcohol) blend films. <i>Polymer Degradation and Stability</i> , 1999 , 66, 263-270	4.7	30
72	Thermal, Crystallization, and Biodegradation Behavior of Poly(3-hydroxybutyrate) Blends with Poly(butylene succinate-co-butylene adipate) and Poly(butylene succinate-co-ε-caprolactone). <i>Polymer Journal</i> , 1999 , 31, 184-192	2.7	30
71	Solid structure and biodegradation of the compositionally fractionated poly(3-hydroxybutyric acid-co-3-hydroxypropionic acid)s. <i>Polymer</i> , 1999 , 40, 6821-6830	3.9	28
70	Composition Fractionation and Thermal Characterization of Poly(3-hydroxybutyrate-co-3-hydroxypropionate). <i>Polymer Journal</i> , 1996 , 28, 1096-1102	2.7	28
69	Hard-Soft Conversion in Network Polymers: Effect of Molecular Weight of Crystallizable Prepolymer. <i>Macromolecules</i> , 2010 , 43, 1011-1015	5.5	26
68	Effect of monomer composition and composition distribution on enzymatic degradation of poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Macromolecular Chemistry and Physics</i> , 1999 , 200, 977-982	2.6	26
67	Infrared analysis on blends of poly(3-hydroxybutyric acid) and stereoregular poly(vinyl alcohol): influence of tacticity of poly(vinyl alcohol) on crystallization of poly(3-hydroxybutyric acid). <i>Macromolecular Chemistry and Physics</i> , 1996 , 197, 869-880	2.6	26
66	Hydrolytic degradation of blends of poly(3-hydroxybutyrate) with poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Polymer</i> , 1994 , 35, 286-290	3.9	26

65	Nuclear magnetic resonance study on isomorphous behaviour in random copolyesters: poly(ethylene terephthalate-co-1,4-cyclohexenedimethylene terephthalate). <i>Polymer</i> , 1994 , 35, 1931-1935	3.9	26
64	The microstructures of commercially available poly(3-hydroxybutyrate-co-3-hydroxyvalerate)s. <i>Macromolecules</i> , 1989 , 22, 3800-3802	5.5	26
63	Conformational analysis of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) in solution by proton NMR spectroscopy. <i>Macromolecules</i> , 1990 , 23, 1313-1317	5.5	26
62	A crystalline supramolecular polymer with self-healing capability at room temperature. <i>Polymer Journal</i> , 2013 , 45, 955-961	2.7	25
61	A 1H NMR study of a fragment of partially n-acetylated chitin produced by lysozyme degradation. <i>Carbohydrate Research</i> , 1992 , 237, 333-8	2.9	25
60	Cocrystallization and Phase Segregation in Crystalline/Crystalline Polymer Blends of Bacterial Copolyesters. <i>Macromolecules</i> , 2004 , 37, 3770-3779	5.5	24
59	Polymers healed autonomously and with the assistance of ubiquitous stimuli: how can we combine mechanical strength and a healing ability in polymers?. <i>Polymer Journal</i> , 2018 , 50, 919-929	2.7	22
58	Thermal and morphological study of fractionated poly(3-hydroxybutyric acid-co-3-hydroxypropionic acid). <i>Macromolecular Chemistry and Physics</i> , 1997 , 198, 3539-3557	2.6	21
57	Polymorphic Crystallization and Melting/Recrystallization Behavior of Poly(3-hydroxypropionate). <i>Macromolecules</i> , 2005 , 38, 6455-6465	5.5	21
56	Studies on comonomer compositional distribution and its effect on some physical properties of bacterial poly(3-hydroxybutyric acid-co-3-hydroxypropionic acid). <i>Polymer International</i> , 1999 , 48, 1219-1228	3.3	21
55	Morphological study of bacterial poly(3-hydroxybutyrate-co-3-hydroxypropionate). <i>Macromolecular Chemistry and Physics</i> , 1996 , 197, 2467-2480	2.6	21
54	In situ FTIR microscope study on crystallization of crystalline/crystalline polymer blends of bacterial copolyesters. <i>Polymer</i> , 2003 , 44, 7405-7412	3.9	18
53	Phase Structure and Biodegradation of the Bacterial Poly(3-hydroxybutyric acid)/Chemosynthetic Poly(3-hydroxypropionic acid) Blend. <i>Polymer Journal</i> , 1998 , 30, 743-752	2.7	18
52	High-resolution solid-state 13C n.m.r. study on phase structure of the compositionally fractionated bacterial copolyester poly(3-hydroxybutyric acid-co-3-hydroxypropionic acid)s. <i>Polymer</i> , 1999 , 40, 3309-3322	3.9	18
51	Microstructure of copoly(3-hydroxyalkanoates) produced in the anaerobic/aerobic activated sludge process. <i>Polymer International</i> , 1996 , 39, 183-189	3.3	18
50	Fabrication of Water-Resistant Nacre-like Polymer/Clay Nanocomposites via in Situ Polymerization. <i>ACS Omega</i> , 2017 , 2, 8475-8482	3.9	17
49	A Simple and Versatile Method for the Construction of Nearly Ideal Polymer Networks. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9646-9652	16.4	16
48	Comonomer composition distribution of P(3HB-co-3HP)s produced by <i>Alcaligenes latus</i> at several pH conditions. <i>Macromolecular Chemistry and Physics</i> , 1999 , 200, 1047-1053	2.6	16

47	Thermoelectric Enhancement of Silicon Membranes by Ultrathin Amorphous Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12027-12031	9.5	15
46	Cocrystallization and Phase Segregation in Blends of Two Bacterial Polyesters. <i>Macromolecular Symposia</i> , 2005 , 224, 59-70	0.8	15
45	The miscibility and biodegradability of poly(3-hydroxybutyrate) blends with poly(butylene succinate-co-butylene adipate) and poly(butylene succinate-co-ε-caprolactone). <i>European Polymer Journal</i> , 2000 , 36, 2221-2229	5.2	15
44	A New Crystal Form, Polymorphism, and Multi-Morphology in Biodegradable Poly(3-hydroxypropionate). <i>Macromolecular Rapid Communications</i> , 2005 , 26, 581-585	4.8	14
43	Phase Behavior and Thermal Properties for Binary Blends of Compositionally Fractionated Poly(3-hydroxybutyrate-co-3-hydroxypropionate)s with Different Comonomer Composition. <i>Macromolecules</i> , 2001 , 34, 4834-4841	5.5	14
42	Self-Assembly of Stereocomplex-Type Poly(lactic acid). <i>Polymer Journal</i> , 2006 , 38, 1061-1067	2.7	13
41	Hydrogen-bonding interaction between poly(ε-caprolactone) and low-molecular-weight amino compounds. <i>Polymer International</i> , 2001 , 50, 463-468	3.3	12
40	Interphase synergistic effects of dynamic bonds in multiphase thermoplastic elastomers. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21195-21206	13	11
39	Biosynthesis and n.m.r. studies of deuterated poly(3-hydroxybutyrate) produced by <i>Alcaligenes eutrophus</i> H16. <i>International Journal of Biological Macromolecules</i> , 1992 , 14, 81-6	7.9	11
38	Biosynthesis of polyesters from various amino acids by <i>Alcaligenes eutrophus</i> . <i>International Journal of Biological Macromolecules</i> , 1993 , 15, 253-5	7.9	11
37	Self-healing of biobased furan polymers: Recovery of high mechanical strength by mild heating. <i>Polymer Degradation and Stability</i> , 2019 , 161, 13-18	4.7	11
36	Alcohol-assisted self-healing network polymer based on vicinal tricarbonyl chemistry. <i>Polymer</i> , 2019 , 161, 101-108	3.9	11
35	Synthesis of Diels-Alder network polymers from bisfuranic terminated poly(l-lactide) and tris-maleimide. <i>Polymer Degradation and Stability</i> , 2014 , 110, 149-155	4.7	10
34	Mechanical property tuning of semicrystalline network polymers by controlling rates of crystallization and crosslinking. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 1926-1932	2.5	10
33	Complexation of Cycloinulonexaose with Some Metal Ions. <i>Chemistry Letters</i> , 1993 , 22, 353-356	1.7	10
32	Tough Supramolecular Elastomer via Entropy-Driven Hydrogen Bonds between Vicinal Diols. <i>Macromolecules</i> , 2020 , 53, 4121-4125	5.5	9
31	Nanostructured Thin Films of Polymer Blends by Directional Crystallization onto Crystallizable Organic Solvent. <i>Macromolecules</i> , 2007 , 40, 6445-6447	5.5	9
30	Lipase-Catalyzed Transformation of Unnatural-Type Poly(3-hydroxybutanoate) into Reactive Cyclic Oligomer. <i>Macromolecular Bioscience</i> , 2002 , 2, 88-94	5.5	9

29	Biosynthesis of poly(3-hydroxyalkanoate) from amino acids. <i>International Journal of Biological Macromolecules</i> , 1992 , 14, 321-5	7.9	9
28	Biosynthesis of poly(3-hydroxyalkanoates) from threonine. <i>International Journal of Biological Macromolecules</i> , 1992 , 14, 117-8	7.9	9
27	Insights into the Role of Hydrogen Bonds on the Mechanical Properties of Polymer Networks. <i>Macromolecules</i> , 2021 , 54, 4070-4080	5.5	9
26	Preparation and some properties of stereocomplex-type poly(lactic acid)/layered silicate nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 1615-1622	2.9	8
25	A molecular mechanics study on conformations of bacterial polyester poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Polymer</i> , 1992 , 33, 817-822	3.9	8
24	Tuning the Mechanical Properties of Bioinspired Catechol Polymers by Incorporating Dual Coordination Bonds. <i>Journal of Photopolymer Science and Technology = [Fotopolimer Konwakai Shi]</i> , 2018 , 31, 75-80	0.7	7
23	Correlation between solid-state structures and enzymatic degradability of cocrystallized blends. <i>Macromolecular Bioscience</i> , 2005 , 5, 1094-100	5.5	6
22	Preparation of a topologically linked branch polymer containing cyclodextrin. <i>Polymer International</i> , 2007 , 56, 1115-1121	3.3	5
21	Fabrication of nacre-like polymer/clay nanocomposites with water-resistant and self-adhesion properties. <i>Journal of Colloid and Interface Science</i> , 2020 , 564, 113-123	9.3	5
20	Synthesis of organic phenothiazine-based molecular glasses and effect of racemic/homochiral aliphatic chain on near-infrared photorefractive property. <i>Journal of Physics and Chemistry of Solids</i> , 2012 , 73, 1136-1145	3.9	4
19	Synthesis of a Bottlebrush Polymer Gel with a Uniform and Controlled Network Structure.. <i>ACS Macro Letters</i> , 2021 , 10, 186-191	6.6	4
18	Formation of nanostructured thin films of immiscible polymer blends by directional crystallization onto a crystallizable organic solvent. <i>Colloid and Polymer Science</i> , 2015 , 293, 2165-2169	2.4	3
17	Reversible Hydride Transfer to N,N-Diarylimidazolium Cations from Hydrogen Catalyzed by Transition Metal Complexes Mimicking the Reaction of [Fe]-Hydrogenase. <i>Inorganic Chemistry</i> , 2017 , 56, 8087-8099	5.1	3
16	Synthesis and characterization of a novel imidazole cyclic trimer. <i>Tetrahedron Letters</i> , 2009 , 50, 4135-4137		3
15	Periodic Surface Pattern Induced by Crystallization of Polymer Brushes in Solvents. <i>Macromolecules</i> , 2020 , 53, 8131-8139	5.5	3
14	Epitaxy-driven Nanostructure Formation in Polymer Blend Thin Films Containing Regioregular Poly(3-hexylthiophene). <i>Chemistry Letters</i> , 2016 , 45, 604-606	1.7	2
13	Formation of Hierarchical Lamellae-in-Lamella Nanostructures from Polymer Blends Via Controlled Nonequilibrium Freezing. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 1664-8	4.8	2
12	Periodic nanopatterns from polymer blends via directional solidification and subsequent epitaxial crystallization. <i>Polymer Journal</i> , 2015 , 47, 498-504	2.7	2

11	A Simple and Versatile Method for the Construction of Nearly Ideal Polymer Networks. <i>Angewandte Chemie</i> , 2020 , 132, 9733-9739	3.6	2
10	Polyhydroxyalkanoates (PHAs), Structure, Composition and Solution Properties of 2002 ,		2
9	A Revised MM2 Force Field for the Normal Mode Vibrational Analysis of Glucopyranose. <i>Bulletin of the Chemical Society of Japan</i> , 1993 , 66, 957-959	5.1	1
8	Biosynthesis of polyesters from some unusual amino acids having linear carbon skeleton by <i>Alcaligenes eutrophus</i> . <i>Macromolecular Chemistry and Physics</i> , 1994 , 195, 3699-3707	2.6	1
7	Topologically Linked Branch Polymers from Mono-amino-cyclodextrins and Polyethylene Glycol Dicarboxylic Acid. <i>Polymer Journal</i> , 2008 , 40, 559-565	2.7	0
6	Star polymer networks: a toolbox for cross-linked polymers with controlled structure. <i>Polymer Chemistry</i> ,	4.9	0
5	Alignment of Gold Nanorods in Directionally Solidified Polymer Blends. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2017 , 30, 259-264	0.7	
4	Mending Ability of Network Polymers Loosely Cross-linked by Reversible Bonds. <i>Nippon Gomu Kyokaishi</i> , 2012 , 85, 255-259	0	
3	Kinetically accessible compact conformations of chain molecules. <i>Journal of Chemical Physics</i> , 1998 , 108, 8705-8712	3.9	
2	Tough, Self-recoverable, and Self-healable Elastomers Physically Crosslinked by Hydrogen Bonds. <i>Nippon Gomu Kyokaishi</i> , 2021 , 94, 58-65	0	
1	Tough polymer with a gradual spatial change in the hydrogen bond density controlled by simple one-pot copolymerization. <i>Polymer</i> , 2022 , 246, 124748	3.9	