

Masami Okamoto

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L-index

#	Paper	IF	Citations
132	Polymer/layered silicate nanocomposites: a review from preparation to processing. <i>Progress in Polymer Science</i> , 2003 , 28, 1539-1641	29.6	5523
131	Review article: Polymer-matrix Nanocomposites, Processing, Manufacturing, and Application: An Overview. <i>Journal of Composite Materials</i> , 2006 , 40, 1511-1575	2.7	1668
130	Structure-Property Relationship in Biodegradable Poly(butylene succinate)/Layered Silicate Nanocomposites. <i>Macromolecules</i> , 2003 , 36, 2355-2367	5.5	543
129	New polylactide-layered silicate nanocomposites. 2. Concurrent improvements of material properties, biodegradability and melt rheology. <i>Polymer</i> , 2003 , 44, 857-866	3.9	474
128	A hierarchical structure and properties of intercalated polypropylene/clay nanocomposites. <i>Polymer</i> , 2001 , 42, 9633-9640	3.9	442
127	New Polylactide/Layered Silicate Nanocomposites. 1. Preparation, Characterization, and Properties. <i>Macromolecules</i> , 2002 , 35, 3104-3110	5.5	427
126	New Polylactide/Layered Silicate Nanocomposites. 3. High-Performance Biodegradable Materials. <i>Chemistry of Materials</i> , 2003 , 15, 1456-1465	9.6	409
125	Influence of Crystallization on Intercalation, Morphology, and Mechanical Properties of Polypropylene/Clay Nanocomposites. <i>Macromolecules</i> , 2002 , 35, 2042-2049	5.5	396
124	Polylactide-Layered Silicate Nanocomposite: A Novel Biodegradable Material. <i>Nano Letters</i> , 2002 , 2, 1093-1096	11.5	377
123	Crystallization Behavior and Morphology of Biodegradable Polylactide/Layered Silicate Nanocomposite. <i>Macromolecules</i> , 2003 , 36, 7126-7131	5.5	371
122	Biodegradable Polylactide and Its Nanocomposites: Opening a New Dimension for Plastics and Composites. <i>Macromolecular Rapid Communications</i> , 2003 , 24, 815-840	4.8	363
121	New Polylactide/Layered Silicate Nanocomposites: Role of Organoclays. <i>Chemistry of Materials</i> , 2002 , 14, 4654-4661	9.6	362
120	Synthetic biopolymer nanocomposites for tissue engineering scaffolds. <i>Progress in Polymer Science</i> , 2013 , 38, 1487-1503	29.6	340
119	Synthesis and structure of smectic clay/poly(methyl methacrylate) and clay/polystyrene nanocomposites via in situ intercalative polymerization. <i>Polymer</i> , 2000 , 41, 3887-3890	3.9	300
118	A House of Cards Structure in Polypropylene/Clay Nanocomposites under Elongational Flow. <i>Nano Letters</i> , 2001 , 1, 295-298	11.5	264
117	New polylactide/layered silicate nanocomposites. 5. Designing of materials with desired properties. <i>Polymer</i> , 2003 , 44, 6633-6646	3.9	262
116	Biaxial Flow-Induced Alignment of Silicate Layers in Polypropylene/Clay Nanocomposite Foam. <i>Nano Letters</i> , 2001 , 1, 503-505	11.5	249

115	Foam processing and cellular structure of polypropylene/clay nanocomposites. <i>Polymer Engineering and Science</i> , 2002 , 42, 1907-1918	2.3	216
114	Foam processing and cellular structure of polylactide-based nanocomposites. <i>Polymer</i> , 2006 , 47, 5350-5359	3.9	174
113	Morphology and crystallization kinetics in a mixture of low-molecular weight aliphatic amide and polylactide. <i>Polymer</i> , 2006 , 47, 1340-1347	3.9	173
112	Well-Controlled Biodegradable Nanocomposite Foams: From Microcellular to Nanocellular. <i>Macromolecular Rapid Communications</i> , 2003 , 24, 457-461	4.8	168
111	Control of Biodegradability of Polylactide via Nanocomposite Technology. <i>Macromolecular Materials and Engineering</i> , 2003 , 288, 203-208	3.9	155
110	New Polylactide/Layered Silicate Nanocomposites, 6. <i>Macromolecular Materials and Engineering</i> , 2003 , 288, 936-944	3.9	149
109	New poly(butylene succinate)/layered silicate nanocomposites. II. Effect of organically modified layered silicates on structure, properties, melt rheology, and biodegradability. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 3160-3172	2.6	138
108	New Polylactide/Layered Silicate Nanocomposite: Nanoscale Control Over Multiple Properties. <i>Macromolecular Rapid Communications</i> , 2002 , 23, 943-947	4.8	135
107	Crystallization Controlled by Silicate Surfaces in Nylon 6-Clay Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2003 , 288, 440-445	3.9	131
106	Dispersed structure change of smectic clay/poly(methyl methacrylate) nanocomposites by copolymerization with polar comonomers. <i>Polymer</i> , 2001 , 42, 1201-1206	3.9	131
105	Recent advances in polymer/layered silicate nanocomposites: an overview from science to technology. <i>Materials Science and Technology</i> , 2006 , 22, 756-779	1.5	121
104	Intercalated Polycarbonate/Clay Nanocomposites: Nanostructure Control and Foam Processing. <i>Macromolecular Materials and Engineering</i> , 2003 , 288, 543-548	3.9	113
103	Dispersed structure and ionic conductivity of smectic clay/polymer nanocomposites. <i>Polymer</i> , 2001 , 42, 2685-2688	3.9	107
102	Biodegradable polylactide/montmorillonite nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2003 , 3, 503-10	1.3	94
101	Visual observation of CO ₂ foaming of polypropylene-clay nanocomposites. <i>Polymer Engineering and Science</i> , 2004 , 44, 1004-1011	2.3	89
100	Organically Modified Layered Titanate: A New Nanofiller to Improve the Performance of Biodegradable Polylactide. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 1359-1364	4.8	82
99	Recent Progress on the Design and Applications of Polysaccharide-Based Graft Copolymer Hydrogels as Adsorbents for Wastewater Purification. <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 496-522	3.9	79
98	New poly(butylene succinate)/layered silicate nanocomposites: preparation and mechanical properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2002 , 2, 171-6	1.3	77

97	The effect of crystallization on the structure and morphology of polypropylene/clay nanocomposites. <i>Polymer Engineering and Science</i> , 2002 , 42, 1864-1871	2.3	76
96	Influence of carbon nanotubes on the rheology and dynamic mechanical properties of polyamide-12 for laser sintering. <i>Polymer Testing</i> , 2014 , 36, 95-100	4.5	71
95	Phase separation and homogenization in poly(ethylene naphthalene-2,6-dicarboxylate)/poly(ethylene terephthalate) blends. <i>Polymer</i> , 1997 , 38, 1357-1361	3.9	67
94	Structure and properties of nanocomposites based on poly(butylene succinate) and organically modified montmorillonite. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 777-785	2.9	64
93	Novel Porous Ceramic Material via Burning of Polylactide/Layered Silicate Nanocomposite. <i>Nano Letters</i> , 2002 , 2, 423-425	11.5	64
92	Crystallization controlled by layered silicates in nylon 6/clay nano-composite. <i>Polymer</i> , 2009 , 50, 4718-4726	3.9	52
91	Direct Melt Intercalation of Polylactide Chains into Nano-Galleries: Interlayer Expansion and Nano-Composite Structure. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 751-757	4.8	49
90	Elongational Flow-Induced Crystallization and Structure Development in Supercooled Poly(ethylene naphthalate) \square <i>Macromolecules</i> , 1998 , 31, 4223-4231	5.5	46
89	Foam Processing and Cellular Structure of Polycarbonate-Based Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 773-783	3.9	44
88	Reactive processing of polymer blends: Analysis of the change in morphological and interfacial parameters with processing. <i>Polymer Engineering and Science</i> , 1993 , 33, 175-182	2.3	43
87	LCST-type phase behaviour and structure development during melt processing in a polycarbonate/poly(styrene-co-acrylonitrile) blend. <i>Polymer</i> , 1995 , 36, 87-91	3.9	42
86	Structure development in polyaniline films during electrochemical polymerization. II: Structure and properties of polyaniline films prepared via electrochemical polymerization. <i>Polymer</i> , 1998 , 39, 4359-4367	3.9	40
85	Fabrication of Polylactide-Based Biodegradable Thermoset Scaffolds for Tissue Engineering Applications. <i>Macromolecular Materials and Engineering</i> , 2013 , 298, 45-52	3.9	39
84	Synthesis and adsorption characteristics of hollow spherical allophane nano-particles. <i>Applied Clay Science</i> , 2012 , 56, 77-83	5.2	37
83	Dispersed Structure and Rheology of Lipophilized-Smectite/Toluene Suspensions. <i>Langmuir</i> , 2000 , 16, 4055-4058	4	33
82	Elongational flow opto-rheometry for polymer melts ? 1. Construction of an elongational flow opto-rheometer and some preliminary results. <i>Rheologica Acta</i> , 1997 , 36, 646-656	2.3	33
81	Crystallization behavior of nano-composite based on poly(vinylidene fluoride) and organically modified layered titanate. <i>Polymer</i> , 2008 , 49, 4298-4306	3.9	32
80	Real-time investigation of crystallization in nylon 6-clay nano-composite probed by infrared spectroscopy. <i>Polymer</i> , 2010 , 51, 5585-5591	3.9	31

79	Elongational flow and birefringence of low density polyethylene and its blends with ultrahigh molecular weight polyethylenet. <i>Polymer</i> , 1998 , 39, 2149-2153	3.9	29
78	Phase separation mechanism and structure development in poly(butylene terephthalate)/polycarbonate blends. <i>Polymer</i> , 1994 , 35, 257-261	3.9	29
77	New polylactide/layered silicate nanocomposites, 4. Structure, properties and biodegradability. <i>Composite Interfaces</i> , 2003 , 10, 435-450	2.3	28
76	Nonisothermal crystallization of poly(ethylene terephthalate) and its blends in the injection-molding process. <i>Journal of Applied Polymer Science</i> , 1995 , 57, 1055-1061	2.9	28
75	Real-time investigation of crystallization in poly(vinylidene fluoride)-based nano-composites probed by infrared spectroscopy. <i>Polymer</i> , 2008 , 49, 5186-5190	3.9	27
74	Toughening mechanism in a ternary polymer alloy: PBT/PC/rubber system. <i>Polymer</i> , 1993 , 34, 4868-4873	3.9	27
73	Structure and rheology of nanocomposite hydrogels composed of DNA and clay. <i>European Polymer Journal</i> , 2013 , 49, 923-931	5.2	25
72	Intercalation of Diphenyl Sulfide into Nanogalleries and Preparation of Poly(p-phenylenesulfide)-Based Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 1367-1374	3.9	25
71	Fabrication of PLLA/HA composite scaffolds modified by DNA. <i>Polymer</i> , 2015 , 56, 73-81	3.9	24
70	Processing and characterization of a polylactic acid/nanoclay composite for laser sintering. <i>Polymer Composites</i> , 2017 , 38, 2570-2576	3	23
69	The influence of hydroxyapatite content on properties of poly(L-lactide)/hydroxyapatite porous scaffolds obtained using thermal induced phase separation technique. <i>European Polymer Journal</i> , 2019 , 113, 313-320	5.2	23
68	Biom mineralization of hydroxyapatite on DNA molecules in SBF: morphological features and computer simulation. <i>Langmuir</i> , 2013 , 29, 11975-81	4	23
67	Elongational flow opto-rheometry for polymer melts. <i>Rheologica Acta</i> , 1997 , 36, 646-656	2.3	22
66	Poly(p-phenylenesulfide)-based nano-composite formation: Delamination of organically modified layered filler via solid-state processing. <i>Polymer</i> , 2007 , 48, 4143-4151	3.9	22
65	Structure and mechanical properties of poly(butylene terephthalate)/rubber blends prepared by dynamic vulcanization. <i>Polymer</i> , 1994 , 35, 4618-4622	3.9	22
64	Percolated Network Structure Formation and Rheological Properties in Nylon 6/Clay Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2013 , 298, 400-411	3.9	20
63	Foam processing of polyethylene ionomers with supercritical CO ₂ . <i>Composites Part A: Applied Science and Manufacturing</i> , 2009 , 40, 1708-1716	8.4	18
62	Comprehensive study on cellular morphologies, proliferation, motility, and epithelial-mesenchymal transition of breast cancer cells incubated on electrospun polymeric fiber substrates. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 2588-2600	7.3	17

61	Elongational flow opto-rheometry for polymeric liquids: 4. Rayleigh scattering studies on elongational flow-induced crystallization of poly(ethylene terephthalate) in the supercooled state. <i>Polymer</i> , 1998 , 39, 501-503	3.9	17
60	Elongational flow-induced crystallization of poly(ethylene terephthalate) under the supercooled state. <i>Polymer</i> , 1998 , 39, 3135-3141	3.9	17
59	DNA adsorption characteristics of hollow spherule allophane nano-particles. <i>Materials Science and Engineering C</i> , 2013 , 33, 5079-83	8.3	16
58	Elongational flow-induced crystallization in supercooled poly(ethylene terephthalate) with different crystallization habit. <i>Polymer</i> , 1998 , 39, 4827-4834	3.9	16
57	Fabrication of porous 3-D structure from poly(L-lactide)-based nano-composite foams. Effect of foam structure on enzymatic degradation. <i>Polymer Degradation and Stability</i> , 2008 , 93, 1081-1087	4.7	16
56	Polyethylene ionomer-based nano-composite foams prepared by a batch process and MuCell [®] injection molding. <i>Materials Science and Engineering C</i> , 2010 , 30, 62-70	8.3	15
55	Elongation of Triblock Copolymer Melt: Elongation Flow Opto-Rheometry and Small-Angle X-ray Scattering Study. <i>Macromolecules</i> , 2003 , 36, 1656-1664	5.5	15
54	Modification of Crystallization Properties of Poly(ethylene terephthalate) by Copolymerization with Arylate Units. 1. Preparation and Isothermal Crystallization of 4,4'-Biphenol-Containing Copolymers. <i>Macromolecules</i> , 1995 , 28, 6155-6160	5.5	15
53	Cellular Morphology-Mediated Proliferation and Drug Sensitivity of Breast Cancer Cells. <i>Journal of Functional Biomaterials</i> , 2017 , 8,	4.8	14
52	Delamination of Organically Modified Layered Filler via Solid-State Processing. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 1472-1475	4.8	14
51	Cytotoxicity and anticancer activity of natural rubber latex particles for cancer cells. <i>Materials Today Chemistry</i> , 2017 , 5, 63-71	6.2	13
50	Preparation and Properties of Polylactide/Layered Silicate Nanocomposite.. <i>Kobunshi Ronbunshu</i> , 2002 , 59, 760-766	0	13
49	Synthesis of Controlled Block and Graft Copolymers. I. Block-Polymerizations Initiated Asymmetric Telechelic Bromo-Terminated Polymer Together with Manganese Carbonyl. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1988 , 25, 445-466		13
48	Evaluation on Cytotoxicity of Natural Rubber Latex Nanoparticles and Application in Bone Tissue Engineering. <i>E-Journal of Soft Materials</i> , 2017 , 12, 1-10		12
47	Fabrication of biocomposites composed of natural rubber latex and bone tissue derived from MC3T3-E1 mouse preosteoblastic cells. <i>Nanocomposites</i> , 2017 , 3, 76-83	3.4	12
46	Isothermal melt crystallization behavior of neat poly(L-lactide) (PLLA) and PLLA/organically modified layered silicate (OMLS) nanocomposite studied by two-dimensional (2D) correlation spectroscopy. <i>Vibrational Spectroscopy</i> , 2012 , 60, 158-162	2.1	11
45	Preparation and characterization of DNA/allophane composite hydrogels. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 112, 429-34	6	11
44	Polypropylene-based nano-composite Formation: Delamination of organically modified layered filler via solid-state processing. <i>Polymer</i> , 2010 , 51, 4238-4242	3.9	10

43	Elongation flow-induced morphological change of a diblock copolymer melt of polystyrene and poly(ethylene propylene). <i>Polymer</i> , 2008 , 49, 2334-2341	3.9	10
42	Elongational flow birefringence of poly(methyl methacrylate)/poly(vinylidene fluoride-co-hexafluoro acetone) blends. <i>Polymer</i> , 1999 , 40, 2459-2463	3.9	10
41	Elongational Flow-Induced Higher-Order Structure Development in a Supercooled Liquid of a Metallocene-Catalyzed Syndiotactic Polystyrene. <i>Macromolecules</i> , 1999 , 32, 6206-6214	5.5	9
40	New opportunities for drug delivery carrier of natural allophane nanoparticles on human lung cancer A549 cells. <i>Applied Clay Science</i> , 2017 , 143, 422-429	5.2	8
39	Cytotoxicity of natural allophane nanoparticles on human lung cancer A549 cells. <i>Applied Clay Science</i> , 2017 , 135, 485-492	5.2	8
38	Elongational Flow Birefringence of Reactor-Made Linear Low-Density Polyethylene. <i>Macromolecules</i> , 1998 , 31, 5158-9	5.5	8
37	Single-stranded DNA adsorption characteristics by hollow spherule allophane nano-particles: pH dependence and computer simulation. <i>Applied Clay Science</i> , 2014 , 101, 591-597	5.2	7
36	Nonisothermal order-disorder phase transition of alkylammonium ions in nanoconfined space. <i>Applied Clay Science</i> , 2010 , 48, 73-80	5.2	7
35	Flow birefringence and strain-induced hardening of cycloolefin copolymers under elongational flow. <i>Polymer</i> , 2001 , 42, 9827-9835	3.9	7
34	Development of Quenched Phase-Separated Structure in Poly(styrene-co-acrylonitrile)/Poly(methyl methacrylate) Blend under Elongational Flow. <i>Macromolecules</i> , 2000 , 33, 8113-8116	5.5	7
33	Phase separation process during solution casting of acrylate-copolymer/fluoro-copolymer blends. <i>Journal of Adhesion Science and Technology</i> , 1999 , 13, 1243-1251	2	7
32	Allophane/Bt nanocomposite: Synthesis and MO simulation. <i>Applied Clay Science</i> , 2014 , 95, 191-196	5.2	6
31	Biocomposites composed of natural rubber latex and cartilage tissue derived from human mesenchymal stem cells. <i>Materials Today Chemistry</i> , 2019 , 12, 315-323	6.2	5
30	Direct melt neutralization and nano-structure of polyethylene ionomer-based nano-composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008 , 39, 1924-1929	8.4	5
29	Fabrication of Porous 3-D Structure from Poly(L-lactide)-based Nanocomposite Foam via Enzymatic Degradation. <i>International Polymer Processing</i> , 2007 , 22, 446-454	1	5
28	Structure Development and Phase Inversion in Dynamic Vulcanization of Two-Phase Polymer Blends. <i>Kobunshi Ronbunshu</i> , 1991 , 48, 657-662	0	5
27	The role of scaffolds in tissue engineering 2019 , 23-49		4
26	Effect of Substrate Stiffness on Physicochemical Properties of Normal and Fibrotic Lung Fibroblasts. <i>Materials</i> , 2020 , 13,	3.5	4

25	Shear-Induced Aggregation Behavior in Lipophilized Smectite Clay/Styrene Suspension.. <i>Nihon Reoroji Gakkaishi</i> , 2000 , 28, 199-200	0.8	4
24	Synthesis of Controlled Block and Graft Copolymers. II. Block and Graft Polymerization Initiated by Monohalo-Containing Polymer/Manganese Carbonyl Systems. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1988 , 25, 1515-1525		4
23	Cellular morphologies, motility, and epithelial-mesenchymal transition of breast cancer cells incubated on viscoelastic gel substrates in hypoxia. <i>Materials Today Chemistry</i> , 2019 , 13, 8-17	6.2	3
22	Rheology and Processing of Polymer/Layered Silicate Nanocomposites 2016 , 187-234		3
21	Synthetic biopolymer/layered silicate nanocomposites for tissue engineering scaffolds 2013 , 548-581		3
20	Back Cover: Macromol. Mater. Eng. 11/2006. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 1440-1440	3.440	3
19	Rheology in Polymer/Clay Nanocomposites: 2009 , 57-78		3
18	The Effect of Interfacial Polysilane Coating on Heat Fusion Properties of Polypropylene. <i>Nihon Reoroji Gakkaishi</i> , 2018 , 46, 123-130	0.8	3
17	Preparation and enzymatic degradation of porous crosslinked polylactides of biomass origin. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 9793-808	6.3	2
16	Polylactide/Clay Nano-Biocomposites. <i>Green Energy and Technology</i> , 2012 , 77-118	0.6	2
15	Structural development in cycloolefin copolymers under uniaxial elongational flow. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 3421-3427	2.9	2
14	?????????????????????. <i>Seikei-Kakou</i> , 2004 , 16, 574-578	0	2
13	Polymer/Layered Filler Nanocomposites: An Overview from Science to Technology 2071-2134		2
12	The Effect of Solid-state Shear Processing on the Network Formation of Clay-based Polymer Nanocomposites 2019 , 255-295		1
11	Biodegradable Polymer-Based Nanocomposites: Nanostructure Control and Nanocomposite Foaming with the Aim of Producing Nano-Cellular Plastics 271-312		1
10	Confocal Scanning Laser Microscope Image of Gradient Structure Formed in an Acrylate Copolymer/Fluoro-copolymer Blend 1999 , 69, 31-38		1
9	Fabrication of cartilage/natural rubber latex biocomposites derived from human mesenchymal stem cells in hypoxia. <i>Nanocomposites</i> , 2020 , 6, 137-148	3.4	1
8	Stemness and Epithelial-Mesenchymal Transition of Breast Cancer Cells Incubated on Viscoelastic Gel Substrates. <i>Nihon Reoroji Gakkaishi</i> , 2021 , 49, 163-170	0.8	1

7	Cellular morphologies, motility, and epithelial-mesenchymal transition of breast cancer cells incubated on electrospun polymeric fiber substrates in hypoxia. <i>Materials Today Chemistry</i> , 2019 , 11, 29-41	6.2	1
6	Potential application of natural rubber latex nanoparticles to tissue engineering 2021 , 363-403		1
5	?????????????????????. <i>Seikei-Kakou</i> , 2001 , 13, 466-468	0	
4	Development of Higher-order Structure in Supercooled Semicrystalline Polymer Liquids under Elongational Flow. <i>Journal of Fiber Science and Technology</i> , 1999 , 55, P51-P56	0	
3	???? / ??????????????. <i>Seikei-Kakou</i> , 2008 , 20, 581-588	0	
2	Nanostructure Development and Foam Processing in Polymer/ Layered Silicate Nanocomposites 2008 , 175-218		
1	Polymeric Nanocomposites in Various Uses. <i>Seikei-Kakou</i> , 2013 , 25, 114-118	0	