Masami Okamoto

List of Publications by Year
in descending order

135 papers	18,702 citations	53939 47 h-index	20023 121 g-index
143 all docs	143 docs citations	143 times ranked	13741 citing authors

#	Article	IF	Citations
1	Potential application of natural rubber latex nanoparticles to tissue engineering. , 2021, , 363-403.		1
2	Stemness and Epithelial-Mesenchymal Transition of Breast Cancer Cells Incubated on Viscoelastic Gel Substrates. Nihon Reoroji Gakkaishi, 2021, 49, 163-170.	0.2	2
3	Fabrication of cartilage/natural rubber latex biocomposites derived from human mesenchymal stem cells in hypoxia. Nanocomposites, 2020, 6, 137-148.	2.2	2
4	Effect of Substrate Stiffness on Physicochemical Properties of Normal and Fibrotic Lung Fibroblasts. Materials, 2020, 13, 4495.	1.3	6
5	The influence of hydroxyapatite content on properties of poly(L-lactide)/hydroxyapatite porous scaffolds obtained using thermal induced phase separation technique. European Polymer Journal, 2019, 113, 313-320.	2.6	39
6	The role of scaffolds in tissue engineering. , 2019, , 23-49.		10
7	Cellular morphologies, motility, and epithelialâ€“mesenchymal transition of breast cancer cells incubated on viscoelastic gel substrates in hypoxia. Materials Today Chemistry, 2019, 13, 8-17.	1.7	6
8	Biocomposites composed of natural rubber latex and cartilage tissue derived from human mesenchymal stem cells. Materials Today Chemistry, 2019, 12, 315-323.	1.7	8
9	The Effect of Solid-state Shear Processing on the Network Formation of Clay-based Polymer Nanocomposites. , 2019, , 255-295.		2
10	Cellular morphologies, motility, and epithelialâ€“mesenchymal transition of breast cancer cells incubated on electrospun polymeric fiber substrates in hypoxia. Materials Today Chemistry, 2019, 11, 29-41.	1.7	2
11	The Effect of Interfacial Polysilane Coating on Heat Fusion Properties of Polypropylene. Nihon Reoroji Gakkaishi, 2018, 46, 123-130.	0.2	3
12	Processing and characterization of a polylactic acid/nanoclay composite for laser sintering. Polymer Composites, 2017, 38, 2570-2576.	2.3	27
13	New opportunities for drug delivery carrier of natural allophane nanoparticles on human lung cancer A549 cells. Applied Clay Science, 2017, 143, 422-429.	2.6	8
14	Cytotoxicity of natural allophane nanoparticles on human lung cancer A549 cells. Applied Clay Science, 2017, 135, 485-492.	2.6	9
15	Comprehensive study on cellular morphologies, proliferation, motility, and epithelialâ€“mesenchymal transition of breast cancer cells incubated on electrospun polymeric fiber substrates. Journal of Materials Chemistry B, 2017, 5, 2588-2600.	2.9	22
16	Cytotoxicity and anticancer activity of natural rubber latex particles for cancer cells. Materials Today Chemistry, 2017, 5, 63-71.	1.7	16
17	Fabrication of biocomposites composed of natural rubber latex and bone tissue derived from MC3T3-E1 mouse preosteoblastic cells. Nanocomposites, 2017, 3, 76-83.	2.2	18
18	Cellular Morphology-Mediated Proliferation and Drug Sensitivity of Breast Cancer Cells. Journal of Functional Biomaterials, 2017, 8, 18.	1.8	20

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19	Evaluation on Cytotoxicity of Natural Rubber Latex Nanoparticles and Application in Bone Tissue Engineering. E-Journal of Soft Materials, 2017, 12, 1-10.	2.0	14
20	Recent Progress on the Design and Applications of Polysaccharideâ€Based Graft Copolymer Hydrogels as Adsorbents for Wastewater Purification. Macromolecular Materials and Engineering, 2016, 301, 496-522.	1.7	114
21	CHAPTER 2. Smart Surfaces Chemistry and Coating Materials for Tissue Engineering. RSC Smart Materials, 2016, , 25-44.	0.1	0
22	Fabrication of DNA/Hydroxyapatite nanocomposites by simulated body fluid for gene delivery. AIP Conference Proceedings, 2015, , .	0.3	0
23	Fabrication of PLLA/HA composite scaffolds modified by DNA. Polymer, 2015, 56, 73-81.	1.8	31
24	DNA adsorption characteristics of hollow spherical allophane nano-particles. , 2014, , .		0
25	Preparation and Enzymatic Degradation of Porous Crosslinked Polylactides of Biomass Origin. International Journal of Molecular Sciences, 2014, 15, 9793-9808.	1.8	2
26	Allophaneâ€"Pt nanocomposite: Synthesis and MO simulation. Applied Clay Science, 2014, 95, 191-196.	2.6	6
27	Single-stranded DNA adsorption characteristics by hollow spherule allophane nano-particles: pH dependence and computer simulation. Applied Clay Science, 2014, 101, 591-597.	2.6	7
28	Influence of carbon nanotubes on the rheology and dynamic mechanical properties of polyamide-12 for laser sintering. Polymer Testing, 2014, 36, 95-100.	2.3	83
29	Fabrication of Polylactideâ€Based Biodegradable Thermoset Scaffolds for Tissue Engineering Applications. Macromolecular Materials and Engineering, 2013, 298, 45-52.	1.7	42
30	Percolated Network Structure Formation and Rheological Properties in Nylon 6/Clay Nanocomposites. Macromolecular Materials and Engineering, 2013, 298, 400-411.	1.7	22
31	Biomineralization of Hydroxyapatite on DNA Molecules in SBF: Morphological Features and Computer Simulation. Langmuir, 2013, 29, 11975-11981.	1.6	27
32	DNA adsorption characteristics of hollow spherule allophane nano-particles. Materials Science and Engineering C, 2013, 33, 5079-5083.	3.8	18
33	Structure and rheology of nanocomposite hydrogels composed of DNA and clay. European Polymer Journal, 2013, 49, 923-931.	2.6	32
34	Synthetic biopolymer nanocomposites for tissue engineering scaffolds. Progress in Polymer Science, 2013, 38, 1487-1503.	11.8	411
35	Synthetic biopolymer/layered silicate nanocomposites for tissue engineering scaffolds. , 2013, , 548-581.		3
36	Preparation and characterization of DNA/allophane composite hydrogels. Colloids and Surfaces B: Biointerfaces, 2013, 112, 429-434.	2.5	12

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37	Polymeric Nanocomposites in Various Uses. Seikei-Kakou, 2013, 25, 114-118.	0.0	0
38	Polylactide/Clay Nano-Biocomposites. Green Energy and Technology, 2012, , 77-118.	0.4	2
39	Synthesis and adsorption characteristics of hollow spherical allophane nano-particles. Applied Clay Science, 2012, 56, 77-83.	2.6	51
40	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. Vibrational Spectroscopy, 2012, 60, 158-162.	1.2	11
41	Polypropylene-based nano-composite formation: Delamination of organically modified layered filler via solid-state processing. Polymer, 2010, 51, 4238-4242.	1.8	12
42	Real-time investigation of crystallization in nylon 6-clay nano-composite probed by infrared spectroscopy. Polymer, 2010, 51, 5585-5591.	1.8	34
43	Polyethylene ionomer-based nano-composite foams prepared by a batch process and MuCellÂ® injection molding. Materials Science and Engineering C, 2010, 30, 62-70.	3.8	17
44	Nonisothermal orderâ€“disorder phase transition of alkylammonium ions in nanoconfined space. Applied Clay Science, 2010, 48, 73-80.	2.6	9
45	Crystallization controlled by layered silicates in nylon 6â€“clay nano-composite. Polymer, 2009, 50, 4718-4726.	1.8	61
46	Foam processing of polyethylene ionomers with supercritical CO2. Composites Part A: Applied Science and Manufacturing, 2009, 40, 1708-1716.	3.8	21
47	Rheology in Polymer/Clay Nanocomposites:. , 2009, , 57-78.		3
48	Elongation flow-induced morphological change of a diblock copolymer melt of polystyrene and poly(ethylene propylene). Polymer, 2008, 49, 2334-2341.	1.8	14
49	Fabrication of porous 3-D structure from poly(l-lactide)-based nano-composite foams. Effect of foam structure on enzymatic degradation. Polymer Degradation and Stability, 2008, 93, 1081-1087.	2.7	17
50	Crystallization behavior of nano-composite based on poly(vinylidene fluoride) and organically modified layered titanate. Polymer, 2008, 49, 4298-4306.	1.8	34
51	Real-time investigation of crystallization in poly(vinylidene fluoride)-based nano-composites probed by infrared spectroscopy. Polymer, 2008, 49, 5186-5190.	1.8	28
52	Direct melt neutralization and nano-structure of polyethylene ionomer-based nano-composites. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1924-1929.	3.8	8
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54	Nanostructure Development and Foam Processing in Polymer/ Layered Silicate Nanocomposites. Polymeric Foams Series, 2008, , 175-218.	0.0	0

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55	Fabrication of Porous 3-D Structure from Poly(L-lactide)-based Nanocomposite Foam via Enzymatic Degradation. International Polymer Processing, 2007, 22, 446-454.	0.3	5
56	Poly(p-phenylenesulfide)-based nano-composite formation: Delamination of organically modified layered filler via solid-state processing. Polymer, 2007, 48, 4143-4151.	1.8	26
57	Review article: Polymer-matrix Nanocomposites, Processing, Manufacturing, and Application: An Overview. Journal of Composite Materials, 2006, 40, 1511-1575.	1.2	1,886
58	Morphology and crystallization kinetics in a mixture of low-molecular weight aliphatic amide and polylactide. Polymer, 2006, 47, 1340-1347.	1.8	193
59	Foam processing and cellular structure of polylactide-based nanocomposites. Polymer, 2006, 47, 5350-5359.	1.8	185
60	Structure and properties of nanocomposites based on poly(butylene succinate) and organically modified montmorillonite. Journal of Applied Polymer Science, 2006, 102, 777-785.	1.3	70
61	Foam Processing and Cellular Structure of Polycarbonate-Based Nanocomposites. Macromolecular Materials and Engineering, 2006, 291, 773-783.	1.7	50
62	Intercalation of Diphenyl Sulfide into Nanogalleries and Preparation of Poly(p-phenylenesulfide)-Based Nanocomposites. Macromolecular Materials and Engineering, 2006, 291, 1367-1374.	1.7	27
63	Back Cover: Macromol. Mater. Eng. 11/2006. Macromolecular Materials and Engineering, 2006, 291, 1440-1440.	1.7	3
64	Direct Melt Intercalation of Polylactide Chains into Nano-Galleries: Interlayer Expansion and Nano-Composite Structure. Macromolecular Rapid Communications, 2006, 27, 751-757.	2.0	52
65	Delamination of Organically Modified Layered Filler via Solid-State Processing. Macromolecular Rapid Communications, 2006, 27, 1472-1475.	2.0	16
66	Recent Advances in Polymer/Layered Silicate Nanocomposites: An Overview from Science to Technology. , 2006, , 247-305.		0
67	Recent advances in polymer/layered silicate nanocomposites: an overview from science to technology. Materials Science and Technology, 2006, 22, 756-779.	0.8	134
68	Recent Advances in Polymeric Nanocomposites. Kobunshi, 2005, 54, 759-762.	0.0	1
69	Visual observation of CO2 foaming of polypropylene-clay nanocomposites. Polymer Engineering and Science, 2004, 44, 1004-1011.	1.5	99
70	Structural development in cycloolefin copolymers under uniaxial elongational flow. Journal of Applied Polymer Science, 2004, 91, 3421-3427.	1.3	2
71	Organically Modified Layered Titanate: A New Nanofiller to Improve the Performance of Biodegradable Polylactide. Macromolecular Rapid Communications, 2004, 25, 1359-1364.	2.0	92
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73	New polylactide/layered silicate nanocomposites. 5. Designing of materials with desired properties. Polymer, 2003, 44, 6633-6646.	1.8	278
74	Intercalated Polycarbonate/Clay Nanocomposites: Nanostructure Control and Foam Processing. Macromolecular Materials and Engineering, 2003, 288, 543-548.	1.7	119
75	New Polylactide/Layered Silicate Nanocomposites, 6. Macromolecular Materials and Engineering, 2003, 288, 936-944.	1.7	183
76	Control of Biodegradability of Polylactide via Nanocomposite Technology. Macromolecular Materials and Engineering, 2003, 288, 203-208.	1.7	165
77	Crystallization Controlled by Silicate Surfaces in Nylon 6-Clay Nanocomposites. Macromolecular Materials and Engineering, 2003, 288, 440-445.	1.7	144
78	Biodegradable Polylactide and Its Nanocomposites: Opening a New Dimension for Plastics and Composites. Macromolecular Rapid Communications, 2003, 24, 815-840.	2.0	416
79	Well-Controlled Biodegradable Nanocomposite Foams: From Microcellular to Nanocellular. Macromolecular Rapid Communications, 2003, 24, 457-461.	2.0	182
80	Polymer/layered silicate nanocomposites: a review from preparation to processing. Progress in Polymer Science, 2003, 28, 1539-1641.	11.8	6,062
81	New poly(butylene succinate)/layered silicate nanocomposites. II. Effect of organically modified layered silicates on structure, properties, melt rheology, and biodegradability. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 3160-3172.	2.4	154
82	New polylactide-layered silicate nanocomposites. 2. Concurrent improvements of material properties, biodegradability and melt rheology. Polymer, 2003, 44, 857-866.	1.8	518
83	Crystallization Behavior and Morphology of Biodegradable Polylactide/Layered Silicate Nanocomposite. Macromolecules, 2003, 36, 7126-7131.	2.2	399
84	Structureâˆ'Property Relationship in Biodegradable Poly(butylene succinate)/Layered Silicate Nanocomposites. Macromolecules, 2003, 36, 2355-2367.	2.2	590
85	Elongation of Triblock Copolymer Melt:Â Elongation Flow Opto-Rheometry and Small-Angle X-ray Scattering Study. Macromolecules, 2003, 36, 1656-1664.	2.2	18
86	New Polylactide/Layered Silicate Nanocomposites. 3. High-Performance Biodegradable Materials. Chemistry of Materials, 2003, 15, 1456-1465.	3.2	443
87	New polylactide/layered silicate nanocomposites, 4. Structure, properties and biodegradability. Composite Interfaces, 2003, 10, 435-450.	1.3	35
88	Biodegradable Polylactide/Montmorillonite Nanocomposites. Journal of Nanoscience and Nanotechnology, 2003, 3, 503-510.	0.9	106
89	New Poly(butylene succinate)/Layered Silicate Nanocomposites: Preparation and Mechanical Properties. Journal of Nanoscience and Nanotechnology, 2002, 2, 171-176.	0.9	88
90	Preparation and Properties of Polylactide/Layered Silicate Nanocomposite.. Kobunshi Ronbunshu, 2002, 59, 760-766.	0.2	14

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91	Novel Porous Ceramic Material via Burning of Polylactide/Layered Silicate Nanocomposite. Nano Letters, 2002, 2, 423-425.	4.5	79
92	Polylactide-Layered Silicate Nanocomposite:â€‰ A Novel Biodegradable Material. Nano Letters, 2002, 2, 1093-1096.	4.5	428
93	New Polylactide/Layered Silicate Nanocomposites. 1. Preparation, Characterization, and Properties. Macromolecules, 2002, 35, 3104-3110.	2.2	475
94	New Polylactide/Layered Silicate Nanocomposites:â€‰ Role of Organoclays. Chemistry of Materials, 2002, 14, 4654-4661.	3.2	385
95	Influence of Crystallization on Intercalation, Morphology, and Mechanical Properties of Polypropylene/Clay Nanocomposites. Macromolecules, 2002, 35, 2042-2049.	2.2	426
96	New Polylactide/Layered Silicate Nanocomposite: Nanoscale Control Over Multiple Properties. Macromolecular Rapid Communications, 2002, 23, 943-947.	2.0	153
97	The effect of crystallization on the structure and morphology of polypropylene/clay nanocomposites. Polymer Engineering and Science, 2002, 42, 1864-1871.	1.5	89
98	Foam processing and cellular structure of polypropylene/clay nanocomposites. Polymer Engineering and Science, 2002, 42, 1907-1918.	1.5	240
99	A House of Cards Structure in Polypropylene/Clay Nanocomposites under Elongational Flow. Nano Letters, 2001, 1, 295-298.	4.5	287
100	Biaxial Flow-Induced Alignment of Silicate Layers in Polypropylene/Clay Nanocomposite Foam. Nano Letters, 2001, 1, 503-505.	4.5	268
101	Dispersed structure change of smectic clay/poly(methyl methacrylate) nanocomposites by copolymerization with polar comonomers. Polymer, 2001, 42, 1201-1206.	1.8	137
102	Dispersed structure and ionic conductivity of smectic clay/polymer nanocomposites. Polymer, 2001, 42, 2685-2688.	1.8	115
103	Flow birefringence and strain-induced hardening of cycloolefin copolymers under elongational flow. Polymer, 2001, 42, 9827-9835.	1.8	7
104	A hierarchical structure and properties of intercalated polypropylene/clay nanocomposites. Polymer, 2001, 42, 9633-9640.	1.8	480
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106	Synthesis and structure of smectic clay/poly(methyl methacrylate) and clay/polystyrene nanocomposites via in situ intercalative polymerization. Polymer, 2000, 41, 3887-3890.	1.8	325
107	Shear-Induced Aggregation Behavior in Lipophilized Smectite Clay/Styrene Suspension.. Nihon Reoroji Gakkaishi, 2000, 28, 199-200.	0.2	5
108	Dispersed Structure and Rheology of Lipophilized-Smectite/Toluene Suspensions. Langmuir, 2000, 16, 4055-4058.	1.6	40

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109	Development of Quenched Phase-Separated Structure in Poly(styrene-co-acrylonitrile)/Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overl	2.2	7
110	Phase separation process during solution casting of acrylate-copolymer/fluoro-copolymer blends. Journal of Adhesion Science and Technology, 1999, 13, 1243-1251.	1.4	9
111	Elongational flow birefringence of poly(methyl methacrylate)/poly(vinylidene fluoride-co-hexafluoro) Tj ETQq1 1 0.784314 rgBT /Overl	1.8	11
112	Elongational Flow-Induced Higher-Order Structure Development in a Supercooled Liquid of a Metallocene-Catalyzed Syndiotactic Polystyrene. Macromolecules, 1999, 32, 6206-6214.	2.2	9
113	Structure Development of Polymeric Liquids under Elongational Flow.. Kobunshi Ronbunshu, 1999, 56, 508-523.	0.2	0
114	Confocal Scanning Laser Microscope Image of Gradient Structure Formed in an Acrylate Copolymer/Fluoro-copolymer Blend. Journal of Adhesion, 1999, 69, 31-38.	1.8	1
115	Development of Higher-order Structure in Supercooled Semicrystalline Polymer Liquids under Elongational Flow. Journal of Fiber Science and Technology, 1999, 55, P51-P56.	0.0	0
116	Elongational flow opto-rheometry for polymeric liquids: 4. Rayleigh scattering studies on elongational flow-induced crystallization of poly(ethylene terephthalate) in the supercooled state. Polymer, 1998, 39, 501-503.	1.8	19
117	Elongational flow and birefringence of low density polyethylene and its blends with ultrahigh molecular weight polyethylenet. Polymer, 1998, 39, 2149-2153.	1.8	31
118	Elongational flow-induced crystallization of poly(ethylene terephthalate) under the supercooled state. Polymer, 1998, 39, 3135-3141.	1.8	18
119	Structure development in polyaniline films during electrochemical polymerization. II: Structure and properties of polyaniline films prepared via electrochemical polymerization. Polymer, 1998, 39, 4359-4367.	1.8	42
120	Elongational flow-induced crystallization in supercooled poly(ethylene terephthalate) with different crystallization habit. Polymer, 1998, 39, 4827-4834.	1.8	19
121	Elongational Flow Birefringence of Reactor-Made Linear Low-Density Polyethylene. Macromolecules, 1998, 31, 5158-5159.	2.2	9
122	Elongational Flow-Induced Crystallization and Structure Development in Supercooled Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.2	49
123	Elongational flow opto-rheometry for polymer melts. Rheologica Acta, 1997, 36, 646-656.	1.1	33
124	Phase separation and homogenization in poly(ethylene naphthalene-2,6-dicarboxylate)/poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.8	72
125	Elongational flow opto-rheometry for polymer melts Â– 1. Construction of an elongational flow opto-rheometer and some preliminary results. Rheologica Acta, 1997, 36, 646-656.	1.1	38
126	Nonisothermal crystallization of poly(ethylene terephthalate) and its blends in the injection-molding process. Journal of Applied Polymer Science, 1995, 57, 1055-1061.	1.3	35

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127	LCST-type phase behaviour and structure development during melt processing in a polycarbonate/poly(styrene-co-acrylonitrile) blend. Polymer, 1995, 36, 87-91.	1.8	52
128	Modification of Crystallization Properties of Poly(ethylene terephthalate) by Copolymerization with Arylate Units. 1. Preparation and Isothermal Crystallization of 4,4'-Biphenol-Containing Copolymers. Macromolecules, 1995, 28, 6155-6160.	2.2	18
129	Phase separation mechanism and structure development in poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 662 Td (tereph	1.8	42
130	Structure and mechanical properties of poly(butylene terephthalate)/rubber blends prepared by dynamic vulcanization. Polymer, 1994, 35, 4618-4622.	1.8	28
131	Toughening mechanism in a ternary polymer alloy: PBT/PC/rubber system. Polymer, 1993, 34, 4868-4873.	1.8	29
132	Reactive processing of polymer blends: Analysis of the change in morphological and interfacial parameters with processing. Polymer Engineering and Science, 1993, 33, 175-182.	1.5	53
133	Structure Development and Phase Inversion in Dynamic Vulcanization of Two-Phase Polymer Blends.. Kobunshi Ronbunshu, 1991, 48, 657-662.	0.2	7
134	Synthesis of Controlled Block and Graft Copolymers. I. Block-Polymerizations Initiated Asymmetric Telechelic Bromo-Terminated Polymer Together with Manganese Carbonyl. Journal of Macromolecular Science Part A, Chemistry, 1988, 25, 445-466.	0.4	13
135	Synthesis of Controlled Block and Graft Copopolymers. II. Block and Graft Polymerization Initiated by Monohalo-Containing Polymer/Manganese Carbonyl Systems. Journal of Macromolecular Science Part A, Chemistry, 1988, 25, 1515-1525.	0.4	4