Astushi Takahara

List of Publications by Year
in descending order

677 papers	24,049 citations	9264 74 h-index	16183 124 g-index
695 all docs	695 docs citations	695 times ranked	17478 citing authors

#	Article	IF	Citations
1	Selfâ€Healing of Covalently Crossâ€Linked Polymers by Reshuffling Thiuram Disulfide Moieties in Air under Visible Light. Advanced Materials, 2012, 24, 3975-3980.	21.0	585
2	Repeatable Photoinduced Selfâ€Healing of Covalently Crossâ€Linked Polymers through Reshuffling of Trithiocarbonate Units. Angewandte Chemie - International Edition, 2011, 50, 1660-1663.	13.8	488
3	Dynamic covalent polymers: Reorganizable polymers with dynamic covalent bonds. Progress in Polymer Science, 2009, 34, 581-604.	24.7	458
4	Selfâ€Healing of Chemical Gels Crossâ€Linked by Diarylbibenzofuranoneâ€Based Triggerâ€Free Dynamic Covalent Bonds at Room Temperature. Angewandte Chemie - International Edition, 2012, 51, 1138-1142.	13.8	431
5	Selective Modification of Halloysite Lumen with Octadecylphosphonic Acid: New Inorganic Tubular Micelle. Journal of the American Chemical Society, 2012, 134, 1853-1859.	13.7	377
6	Wettability and Antifouling Behavior on the Surfaces of Superhydrophilic Polymer Brushes. Langmuir, 2012, 28, 7212-7222.	3.5	376
7	Wetting Transition from the Cassieâ€"Baxter State to the Wenzel State on Textured Polymer Surfaces. Langmuir, 2014, 30, 2061-2067.	3.5	362
8	Surface Molecular Motion of the Monodisperse Polystyrene Films. Macromolecules, 1997, 30, 280-285.	4.8	321
9	Molecular Aggregation Structure and Surface Properties of Poly(fluoroalkyl acrylate) Thin Films. Macromolecules, 2005, 38, 5699-5705.	4.8	301
10	Super-Liquid-Repellent Surfaces Prepared by Colloidal Silica Nanoparticles Covered with Fluoroalkyl Groups. Langmuir, 2005, 21, 7299-7302.	3.5	300
11	Film Thickness Dependence of the Surface Structure of Immiscible Polystyrene/Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	4.8	299
12	Control of Nanobiointerfaces Generated from Well-Defined Biomimetic Polymer Brushes for Protein and Cell Manipulations. Biomacromolecules, 2004, 5, 2308-2314.	5.4	280
13	A dynamic covalent polymer driven by disulfidemetathesis under photoirradiation. Chemical Communications, 2010, 46, 1150-1152.	4.1	275
14	Biomimetic Dopamine Derivative for Selective Polymer Modification of Halloysite Nanotube Lumen. Journal of the American Chemical Society, 2012, 134, 12134-12137.	13.7	253
15	Friction behavior of high-density poly(2-methacryloyloxyethyl phosphorylcholine) brush in aqueous media. Soft Matter, 2007, 3, 740.	2.7	242
16	Macroscopic-Wetting Anisotropy on the Line-Patterned Surface of Fluoroalkylsilane Monolayers. Langmuir, 2005, 21, 911-918.	3.5	237
17	Polystyrene- and Poly(3-vinylpyridine)-Grafted Magnetite Nanoparticles Prepared through Surface-Initiated Nitroxide-Mediated Radical Polymerization. Macromolecules, 2004, 37, 2203-2209.	4.8	209
18	Mechanophores with a Reversible Radical System and Freezingâ€Induced Mechanochemistry in Polymer Solutions and Gels. Angewandte Chemie - International Edition, 2015, 54, 6168-6172.	13.8	202

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19	Molecular Weight Dependence of Surface Dynamic Viscoelastic Properties for the Monodisperse Polystyrene Film. Macromolecules, 1996, 29, 3040-3042.	4.8	187
20	Rheological Analysis of Surface Relaxation Process of Monodisperse Polystyrene Films. Macromolecules, 2000, 33, 7588-7593.	4.8	185
21	Competition between Oxidation and Coordination in Cross-Linking of Polystyrene Copolymer Containing Catechol Groups. ACS Macro Letters, 2012, 1, 457-460.	4.8	168
22	A Thermodynamic Polymer Cross-Linking System Based on Radically Exchangeable Covalent Bonds. Macromolecules, 2006, 39, 2121-2125.	4.8	167
23	Bovine serum albumin adsorption onto immobilized organotrichlorosilane surface: Influence of the phase separation on protein adsorption patterns. Journal of Biomaterials Science, Polymer Edition, 1998, 9, 131-150.	3.5	162
24	Imaging of Dynamic Viscoelastic Properties of a Phase-Separated Polymer Surface by Forced Oscillation Atomic Force Microscopy. Macromolecules, 1994, 27, 7932-7934.	4.8	159
25	Ultrathinning-Induced Surface Phase Separation of Polystyrene/Poly(vinyl methyl ether) Blend Film. Macromolecules, 1995, 28, 934-938.	4.8	155
26	Polymer Scrambling:Â Macromolecular Radical Crossover Reaction between the Main Chains of Alkoxyamine-Based Dynamic Covalent Polymers. Journal of the American Chemical Society, 2003, 125, 4064-4065.	13.7	147
27	Effect of soft segment chemistry on the biostability of segmented polyurethanes. I.In vitro oxidation. Journal of Biomedical Materials Research Part B, 1991, 25, 341-356.	3.1	144
28	Synthesis of Self-Healing Polymers by Scandium-Catalyzed Copolymerization of Ethylene and Anisylpropylenes. Journal of the American Chemical Society, 2019, 141, 3249-3257.	13.7	144
29	Tribological properties of hydrophilic polymer brushes under wet conditions. Chemical Record, 2010, 10, 208-216.	5.8	143
30	Depth Dependence of the Surface Glass Transition Temperature of a Poly(styrene-block-methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30 Spectroscopy. Macromolecules, 1995, 28, 3482-3484.	4.8	142
31	Mechanochromic Dynamic Covalent Elastomers: Quantitative Stress Evaluation and Autonomous Recovery. ACS Macro Letters, 2015, 4, 1307-1311.	4.8	142
32	Determination of Surface Glass Transition Temperature of Monodisperse Polystyrene Based on Temperature-Dependent Scanning Viscoelasticity Microscopy. Macromolecules, 1999, 32, 4474-4476.	4.8	137
33	Design and performance of horizontal-type neutron reflectometer SOFIA at J-PARC/MLF. European Physical Journal Plus, 2011, 126, 1.	2.6	136
34	Novel neutron reflectometer SOFIA at J-PARC/MLF for in-situ soft-interface characterization. Polymer Journal, 2013, 45, 100-108.	2.7	134
35	Anti-fouling behavior of polymer brush immobilized surfaces. Polymer Journal, 2016, 48, 325-331.	2.7	133
36	Chain dimensions and surface characterization of superhydrophilic polymer brushes with zwitterion side groups. Soft Matter, 2013, 9, 5138.	2.7	130

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37	Effect of Surface Molecular Aggregation State and Surface Molecular Motion on Wetting Behavior of Water on Poly(fluoroalkyl methacrylate) Thin Films. Macromolecules, 2010, 43, 454-460.	4.8	128
38	Microphase separated structure, surface composition and blood compatibility of segmented poly(urethaneureas) with various soft segment components. Polymer, 1985, 26, 987-996.	3.8	126
39	Self-Healing of a Cross-Linked Polymer with Dynamic Covalent Linkages at Mild Temperature and Evaluation at Macroscopic and Molecular Levels. Macromolecules, 2015, 48, 5632-5639.	4.8	125
40	Polystyrene-Grafted Magnetite Nanoparticles Prepared through Surface-Initiated Nitroxyl-Mediated Radical Polymerization. Chemistry of Materials, 2003, 15, 3-5.	6.7	122
41	Aggregation state and mesophase structure of comb-shaped polymers with fluorocarbon side groups. Polymer, 1992, 33, 1316-1320.	3.8	116
42	Effect of Polydispersity on Surface Molecular Motion of Polystyrene Films. Macromolecules, 1997, 30, 6626-6632.	4.8	116
43	Study of the surface glass transition behaviour of amorphous polymer film by scanning-force microscopy and surface spectroscopy. Polymer, 1998, 39, 4665-4673.	3.8	112
44	Surface Molecular Aggregation Structure and Surface Molecular Motions of High-Molecular-Weight Polystyrene/Low-Molecular-Weight Poly(methyl methacrylate) Blend Films. Macromolecules, 1998, 31, 863-869.	4.8	112
45	Multipurpose soft-material SAXS/WAXS/GISAXS beamline at SPring-8. Polymer Journal, 2011, 43, 471-477.	2.7	112
46	Mechanically Robust and Selfâ€Healable Superlattice Nanocomposites by Selfâ€Assembly of Singleâ€Component â€œStickyâ€•Polymerâ€Grafted Nanoparticles. Advanced Materials, 2015, 27, 3934-3941.	21.0	111
47	Thermal Reorganization and Molecular Weight Control of Dynamic Covalent Polymers Containing Alkoxyamines in Their Main Chains. Macromolecules, 2007, 40, 1429-1434.	4.8	104
48	Longâ€Range Hydrophilic Attraction between Water and Polyelectrolyte Surfaces in Oil. Angewandte Chemie - International Edition, 2016, 55, 15017-15021.	13.8	103
49	Programmed Thermodynamic Formation and Structure Analysis of Star-like Nanogels with Core Cross-linked by Thermally Exchangeable Dynamic Covalent Bonds. Journal of the American Chemical Society, 2007, 129, 13298-13304.	13.7	102
50	Surface Relaxation Process of Monodisperse Polystyrene Film Based on Lateral Force Microscopic Measurements. Macromolecules, 1998, 31, 5150-5151.	4.8	99
51	Tribological Properties of Poly(methyl methacrylate) Brushes Prepared by Surface-Initiated Atom Transfer Radical Polymerization. Polymer Journal, 2005, 37, 767-775.	2.7	99
52	Perfluoropolyether-infused nano-texture: a versatile approach to omniphobic coatings with low hysteresis and high transparency. Chemical Communications, 2013, 49, 597-599.	4.1	99
53	Phase Separated Morphology of an Immobilized Organosilane Monolayer Studied by a Scanning Probe Microscope. Langmuir, 1995, 11, 1341-1346.	3.5	97
54	Large-scale self-assembled zirconium phosphate smectic layers via a simple spray-coating process. Nature Communications, 2014, 5, 3589.	12.8	97

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55	Dynamic Formation of Graft Polymers via Radical Crossover Reaction of Alkoxyamines. Macromolecules, 2004, 37, 1696-1701.	4.8	91
56	Microphase separated structure and blood compatibility of segmented poly(urethaneureas) with different diamines in the hard segment. Polymer, 1985, 26, 978-986.	3.8	90
57	Molecular Aggregation State of n-Octadecyltrichlorosilane Monolayer Prepared at an Air/Water Interface. Langmuir, 1998, 14, 971-974.	3.5	90
58	A dynamic (reversible) covalent polymer: radical crossover behaviour of TEMPOâ€"containing poly(alkoxyamine ester)s. Chemical Communications, 2002, , 2838-2839.	4.1	90
59	Network Reorganization of Dynamic Covalent Polymer Gels with Exchangeable Diarylbibenzofuranone at Ambient Temperature. Journal of the American Chemical Society, 2014, 136, 11839-11845.	13.7	90
60	Mobility Gradient in Surface Region of Monodisperse Polystyrene Films. Macromolecules, 2003, 36, 1235-1240.	4.8	87
61	Dimensions of a Free Linear Polymer and Polymer Immobilized on Silica Nanoparticles of a Zwitterionic Polymer in Aqueous Solutions with Various Ionic Strengths. Langmuir, 2008, 24, 8772-8778.	3.5	86
62	Searching for a Stable Highâ€Performance Magnetorheological Suspension. Advanced Materials, 2018, 30, e1704769.	21.0	85
63	Reversible adhesive-free nanoscale adhesion utilizing oppositely charged polyelectrolyte brushes. Soft Matter, 2011, 7, 5717.	2.7	84
64	Well-Defined Poly(sulfobetaine) Brushes Prepared by Surface-Initiated ATRP Using a Fluoroalcohol and Ionic Liquids as the Solvents. Macromolecules, 2011, 44, 104-111.	4.8	84
65	Polyelectrolyte brushes: a novel stable lubrication system in aqueous conditions. Faraday Discussions, 2012, 156, 403.	3.2	84
66	Reversible Radical Ring-Crossover Polymerization of an Alkoxyamine-Containing Dynamic Covalent Macrocycle. Macromolecules, 2005, 38, 6316-6320.	4.8	82
67	Effect of soft segment chemistry on the biostability of segmented polyurethanes. II.In vitro hydrolytic degradation and lipod sorption. Journal of Biomedical Materials Research Part B, 1992, 26, 801-818.	3.1	81
68	Changes in Network Structure of Chemical Gels Controlled by Solvent Quality through Photoinduced Radical Reshuffling Reactions of Trithiocarbonate Units. ACS Macro Letters, 2012, 1, 478-481.	4.8	81
69	Effects of droplet size and solute concentration on drying process of polymer solution droplets deposited on homogeneous surfaces. International Journal of Heat and Mass Transfer, 2006, 49, 3561-3567.	4.8	79
70	Direct Synthesis of Well-Defined Poly[{2-(methacryloyloxy)ethyl}trimethylammonium chloride] Brush via Surface-Initiated Atom Transfer Radical Polymerization in Fluoroalcohol. Macromolecules, 2010, 43, 8409-8415.	4.8	78
71	Surface molecular mobility and platelet reactivity of segmented poly(etherurethaneureas) with hydrophilic and hydrophobic soft segment components. Journal of Biomaterials Science, Polymer Edition, 1989, 1, 17-29.	3.5	77
72	Repeatable mechanochemical activation of dynamic covalent bonds in thermoplastic elastomers. Chemical Communications, 2016, 52, 10482-10485.	4.1	76

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73	Spontaneously Formed Hydrophilic Surfaces by Segregation of Block Copolymers with Water-Soluble Blocks. Macromolecules, 2005, 38, 5180-5189.	4.8	75
74	Transparent polymer nanohybrid prepared by in situ synthesis of aluminosilicate nanofibers in poly(vinyl alcohol) solution. Soft Matter, 2005, 1, 372.	2.7	75
75	Influence of Molecular Weight Dispersity of Poly{2-(perfluorooctyl)ethyl acrylate} Brushes on Their Molecular Aggregation States and Wetting Behavior. Macromolecules, 2012, 45, 1509-1516.	4.8	75
76	Dynamic covalent diarylbibenzofuranone-modified nanocellulose: mechanochromic behaviour and application in self-healing polymer composites. Polymer Chemistry, 2017, 8, 2115-2122.	3.9	75
77	Preparation and properties of [poly(methyl methacrylate)/imogolite] hybrid via surface modification using phosphoric acid ester. Polymer, 2005, 46, 12386-12392.	3.8	74
78	Molecular Motion in Ultrathin Polystyrene Films:Â Dynamic Mechanical Analysis of Surface and Interfacial Effects. Macromolecules, 2005, 38, 9735-9741.	4.8	73
79	Effect of surface hydrophilicity on ex vivo blood compatibility of segmented polyurethanes. Biomaterials, 1991, 12, 324-334.	11.4	72
80	Polystyrene-grafted titanium oxide nanoparticles prepared through surface-initiated nitroxide-mediated radical polymerization and their application to polymer hybrid thin films. Soft Matter, 2006, 2, 415.	2.7	71
81	X-ray photoelectron spectroscopy study of polyimide thin films with Ar cluster ion depth profiling. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, L1-L4.	2.1	71
82	Superior Properties of Polyurethane Elastomers Synthesized with Aliphatic Diisocyanate Bearing a Symmetric Structure. Macromolecules, 2017, 50, 1008-1015.	4.8	71
83	Scanning force microscopic studies of surface structure and protein adsorption behavior of organosilane monolayers. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1996, 14, 1747-1754.	2.1	70
84	Scrambling reaction between polymers prepared by step-growth and chain-growth polymerizations: macromolecular cross-metathesis between 1,4-polybutadiene and olefin-containing polyester. Chemical Communications, 2009, , 1073.	4.1	70
85	Molecular self-assembly of one-dimensional polymer nanostructures in nanopores of anodic alumina oxide templates. Progress in Polymer Science, 2018, 77, 95-117.	24.7	70
86	Materials and Life Science Experimental Facility (MLF) at the Japan Proton Accelerator Research Complex II: Neutron Scattering Instruments. Quantum Beam Science, 2017, 1, 9.	1.2	69
87	Application of imogolite clay nanotubes in organicâ€"inorganic nanohybrid materials. Journal of Materials Chemistry, 2012, 22, 11887.	6.7	68
88	Halloysite Nanotubes: Green Nanomaterial for Functional Organicâ€inorganic Nanohybrids. Chemical Record, 2018, 18, 986-999.	5.8	68
89	Fatigue failure mechanisms of short glass-fiber reinforced nylon 66 based on nonlinear dynamic viscoelastic measurement. Polymer, 2001, 42, 5803-5811.	3.8	67
90	Effect of Low Surface Energy Chain Ends on the Glass Transition Temperature of Polymer Thin Films. Macromolecules, 2002, 35, 1491-1492.	4.8	67

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91	Thermosensitive Transparent Semi-Interpenetrating Polymer Networks for Wound Dressing and Cell Adhesion Control. Biomacromolecules, 2008, 9, 1313-1321.	5.4	67
92	Reorganizable Chemical Polymer Gels Based on Dynamic Covalent Exchange and Controlled Monomer Insertion. Macromolecules, 2009, 42, 8733-8738.	4.8	67
93	Versatile inhibition of marine organism settlement by zwitterionic polymer brushes. Polymer Journal, 2015, 47, 811-818.	2.7	67
94	Precise surface structure control of inorganic solid and metal oxide nanoparticles through surface-initiated radical polymerization. Science and Technology of Advanced Materials, 2006, 7, 617-628.	6.1	66
95	Three-Dimensional Analysis of Collagen Lamellae in the Anterior Stroma of the Human Cornea Visualized by Second Harmonic Generation Imaging Microscopy. , 2011, 52, 911.		66
96	Morphology and mechanical properties of polymer surfaces via scanning force microscopy. Progress in Surface Science, 1996, 52, 1-52.	8.3	65
97	Dependence of the Molecular Aggregation State of Octadecylsiloxane Monolayers on Preparation Methods. Langmuir, 2005, 21, 905-910.	3.5	64
98	Supramolecular control of spin-crossover phenomena in lipophilic Fe(II)-1,2,4-triazole complexes. Journal of Polymer Science Part A, 2006, 44, 5192-5202.	2.3	63
99	Orientation of poly(vinyl alcohol) nanofiber and crystallites in non-woven electrospun nanofiber mats under uniaxial stretching. Polymer, 2012, 53, 4702-4708.	3.8	63
100	Quantitative Analysis of Collagen Lamellae in the Normal and Keratoconic Human Cornea by Second Harmonic Generation Imaging Microscopy. Investigative Ophthalmology and Visual Science, 2014, 55, 8377-8385.	3.3	63
101	Bringing movable and deployable networks to disaster areas: development and field test of MDRU. IEEE Network, 2016, 30, 86-91.	6.9	63
102	Effect of Charged Group Spacer Length on Hydration State in Zwitterionic Poly(sulfobetaine) Brushes. Langmuir, 2017, 33, 8404-8412.	3.5	63
103	Electrospinning of non-ionic cellulose ethers/polyvinyl alcohol nanofibers: Characterization and applications. Carbohydrate Polymers, 2018, 181, 175-182.	10.2	63
104	Intelligent Build-Up of Complementarily Reactive Diblock Copolymers via Dynamic Covalent Exchange toward Symmetrical and Miktoarm Star-like Nanogels. Macromolecules, 2010, 43, 1785-1791.	4.8	62
105	Preparation of Low-Surface-Energy Poly[2-(perfluorooctyl)ethyl acrylate] Microparticles and Its Application to Liquid Marble Formation. Langmuir, 2011, 27, 1269-1274.	3.5	62
106	Molecular Aggregation State ofn-Octadecyltrichlorosilane Monolayers Prepared by the Langmuir and Chemisorption Methods. Langmuir, 2000, 16, 3932-3936.	3.5	61
107	Effect of aggregation state of hard segment in segmented poly(urethaneureas) on their fatigue behavior after interaction with blood components. Journal of Biomedical Materials Research Part B, 1985, 19, 13-34.	3.1	60
108	Synthesis and Frictional Properties of Poly(2,3-dihydroxypropyl methacrylate) Brush Prepared by Surface-initiated Atom Transfer Radical Polymerization. Chemistry Letters, 2005, 34, 1582-1583.	1.3	60

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109	Morphological Control of Helical Structures of an ABC-Type Triblock Terpolymer by Distribution Control of a Blending Homopolymer in a Block Copolymer Microdomain. Macromolecules, 2013, 46, 6991-6997.	4.8	60
110	Surface Mobile Layer of Polystyrene Film below Bulk Glass Transition Temperature. Macromolecules, 2001, 34, 6164-6166.	4.8	59
111	Microscopic lamellar organization in high-density polyethylene banded spherulites studied by scanning probe microscopy. Polymer, 2002, 43, 3441-3446.	3.8	59
112	Nonisothermal Crystallization Behaviors of Nanocomposites Prepared by In Situ Polymerization of High-Density Polyethylene on Multiwalled Carbon Nanotubes. Macromolecules, 2010, 43, 10545-10553.	4.8	59
113	Environmentally friendly repeatable adhesion using a sulfobetaine-type polyzwitterion brush. Polymer Chemistry, 2013, 4, 4987.	3.9	58
114	Linking experiment and theory for three-dimensional networked binary metal nanoparticleâ€“triblock terpolymer superstructures. Nature Communications, 2014, 5, 3247.	12.8	58
115	Tunable Lyotropic Photonic Liquid Crystal Based on Graphene Oxide. ACS Photonics, 2014, 1, 79-86.	6.6	58
116	Mixing of immiscible polymers using nanoporous coordination templates. Nature Communications, 2015, 6, 7473.	12.8	58
117	Aggregation structure and surface properties of immobilized organosilane monolayers prepared by the upward drawing method. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 2530-2536.	2.1	57
118	A Novel Method To Examine Surface Composition in Mixtures of Chemically Identical Two Polymers with Different Molecular Weights. Macromolecules, 2002, 35, 4702-4706.	4.8	57
119	Aggregation States and Surface Wettability in Films of Poly(styrene-block-2-perfluorooctyl ethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 1 20, 5304-5310.	3.5	57
120	Chain dimension of polyampholytes in solution and immobilized brush states. Polymer Journal, 2012, 44, 121-130.	2.7	57
121	Neutron reflectivity study of the swollen structure of polyzwitterion and polyeletrolyte brushes in aqueous solution. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 1673-1686.	3.5	57
122	Enhanced pool boiling of ethanol on wettability-patterned surfaces. Applied Thermal Engineering, 2019, 149, 325-331.	6.0	55
123	Influence of chemical structure of hard segments on physical properties of polyurethane elastomers: a review. Journal of Polymer Research, 2020, 27, 1.	2.4	55
124	Surface chemical composition and surface molecular mobility of diblock and random copolymers with hydrophobic and hydrophilic segments. Polymer, 1990, 31, 1149-1153.	3.8	54
125	Visualization of Active Surface Molecular Motion in Polystyrene Film by Scanning Viscoelasticity Microscopy. Langmuir, 2003, 19, 6573-6575.	3.5	54
126	Detection of Subepithelial Fibrosis Associated with Corneal Stromal Edema by Second Harmonic Generation Imaging Microscopy. , 2009, 50, 3145.		54

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127	Poly(methyl methacrylate) grafted imogolite nanotubes prepared through surface-initiated ARGET ATRP. Chemical Communications, 2011, 47, 5813.	4.1	54
128	A â€œnon-stickyâ€•superhydrophobic surface prepared by self-assembly of fluoroalkyl phosphonic acid on a hierarchically micro/nanostructured alumina gel film. Chemical Communications, 2012, 48, 6824.	4.1	54
129	Surface Segregation of the Higher Surface Free Energy Component in Symmetric Polymer Blend Films. Macromolecules, 1998, 31, 3746-3749.	4.8	53
130	Surface Molecular Motion of Monodisperse Î±,Ï‰-Diamino-Terminated and Î±,Ï‰-Dicarboxy-Terminated Polystyrenes. Macromolecules, 2001, 34, 8761-8767.	4.8	52
131	Preparation of Novel Polymer Hybrids from Imogolite Nanofiber. Polymer Journal, 2007, 39, 1-15.	2.7	52
132	Surface glass transition temperatures of monodisperse polystyrene films by scanning force microscopy. Science and Technology of Advanced Materials, 2000, 1, 31-35.	6.1	51
133	Anomalous Surface Relaxation Process in Polystyrene Ultrathin Films. Macromolecules, 2003, 36, 4937-4943.	4.8	51
134	Phase selective preparations and surface modifications of spherical hollow nanomagnets. Journal of Materials Chemistry, 2006, 16, 3215.	6.7	51
135	Robust Liquid Marbles Stabilized with Surface-Modified Halloysite Nanotubes. Langmuir, 2013, 29, 14971-14975.	3.5	51
136	Experimental station for multiscale surface structural analyses of soft-material films at SPring-8 via a GISWAX/GIXD/XR-integrated system. Polymer Journal, 2013, 45, 109-116.	2.7	51
137	Surface Modification of Aluminosilicate Nanofiber â€œImogoliteâ€• Chemistry Letters, 2001, 30, 1162-1163.	1.3	50
138	Surface Structure of Asymmetric Fluorinated Block Copolymers. Macromolecules, 2004, 37, 939-945.	4.8	50
139	Simultaneous and sequential micro-porous semi-interpenetrating polymer network hydrogel films for drug delivery and wound dressing applications. Polymer, 2009, 50, 3537-3546.	3.8	50
140	Macroscopic Frictional Properties of Poly(1-(2-methacryloyloxy)ethyl-3-butyl Imidazolium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (Interfaces, 2010, 2, 1120-1128.	8.0	49
141	Effect of Chain End Chemistry on Surface Molecular Motion of Polystyrene Films. Macromolecules, 1998, 31, 5148-5149.	4.8	48
142	Structure and Dewetting Behavior of Polyhedral Oligomeric Silsesquioxane-Filled Polystyrene Thin Films. Langmuir, 2007, 23, 902-907.	3.5	48
143	Control of Dispersion State of Silsesquioxane Nanofillers for Stabilization of Polystyrene Thin Films. Langmuir, 2008, 24, 5766-5772.	3.5	48
144	Evaluation of fatigue lifetime and elucidation of fatigue mechanism in plasticized poly(vinyl chloride) in terms of dynamic viscoelasticity. Journal of Applied Polymer Science, 1980, 25, 597-614.	2.6	47

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145	Effect of hydrophilic soft segment side chains on the surface properties and blood compatibility of segmented poly (urethaneureas). Journal of Biomedical Materials Research Part B, 1991, 25, 1095-1118.	3.1	47
146	Characterization of catecholâ€containing natural thermosetting polymer â€œurushiolâ€•thin film. Journal of Polymer Science Part A, 2013, 51, 3688-3692.	2.3	47
147	Influence of Trace Amount of Well-Dispersed Carbon Nanotubes on Structural Development and Tensile Properties of Polypropylene. Macromolecules, 2013, 46, 463-473.	4.8	47
148	Surface segregation of chain ends in Î±,Ï‰-fluoroalkyl-terminated polystyrenes films. Polymer, 2003, 44, 4171-4177.	3.8	46
149	Internally Modified Halloysite Nanotubes as Inorganic Nanocontainers for a Flame Retardant. Chemistry Letters, 2013, 42, 121-123.	1.3	46
150	Superhydrophobic magnetic poly(DOPAm-co-PFOEA)/Fe₃O₄/cellulose microspheres for stable liquid marbles. Chemical Communications, 2016, 52, 1895-1898.	4.1	46
151	Analysis of fatigue behavior of high-density polyethylene based on dynamic viscoelastic measurements during the fatigue process. Journal of Applied Polymer Science, 1981, 26, 1085-1104.	2.6	45
152	Morphological Investigation of Midblockâ€Sulfonated Block Ionomers Prepared from Solvents Differing in Polarity. Macromolecular Rapid Communications, 2015, 36, 432-438.	3.9	45
153	Biobased Polymer Coating Using Catechol Derivative Urushiol. Langmuir, 2016, 32, 4619-4623.	3.5	45
154	Analysis of surface structure of built-up film of fluorocarbon amphiphile and polymer/(fluorocarbon) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 22, 617-622.	4.8	44
155	Imogolite Reinforced Nanocomposites: Multifaceted Green Materials. Materials, 2010, 3, 1709-1745.	2.9	44
156	Substrateâ€Independent Underwater Superoleophobic Surfaces Inspired by Fishâ€Skin and Musselâ€Adhesives. Advanced Materials Interfaces, 2014, 1, 1300092.	3.7	44
157	Enhancement of the Hydrogen-Bonding Network of Water Confined in a Polyelectrolyte Brush. Langmuir, 2017, 33, 3954-3959.	3.5	44
158	Contamination-Free Transmission Electron Microscopy for High-Resolution Carbon Elemental Mapping of Polymers. ACS Nano, 2009, 3, 1297-1304.	14.6	43
159	Heterogeneous Lamellar Structures Near the Polymer/Substrate Interface. Macromolecules, 2012, 45, 7098-7106.	4.8	43
160	Solution Processable Iridescent Self-Assembled Nanoplatelets with Finely Tunable Interlayer Distances Using Charge- and Sterically Stabilizing Oligomeric Polyoxyalkyleneamine Surfactants. Chemistry of Materials, 2014, 26, 1528-1537.	6.7	43
161	Liquid Marbles Supported by Monodisperse Poly(methylsilsesquioxane) Particles. Langmuir, 2014, 30, 9071-9075.	3.5	43
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