

Astushi Takahara

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Self-Healing of Covalently Cross-Linked Polymers by Reshuffling Thiuram Disulfide Moieties in Air under Visible Light. <i>Advanced Materials</i> , 2012, 24, 3975-3980.	11.1	585
2	Repeatable Photoinduced Self-Healing of Covalently Cross-Linked Polymers through Reshuffling of Trithiocarbonate Units. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1660-1663.	7.2	488
3	Dynamic covalent polymers: Reorganizable polymers with dynamic covalent bonds. <i>Progress in Polymer Science</i> , 2009, 34, 581-604.	11.8	458
4	Self-Healing of Chemical Gels Cross-Linked by Diarylbibenzofuranone-Based Trigger-Free Dynamic Covalent Bonds at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1138-1142.	7.2	431
5	Selective Modification of Halloysite Lumen with Octadecylphosphonic Acid: New Inorganic Tubular Micelle. <i>Journal of the American Chemical Society</i> , 2012, 134, 1853-1859.	6.6	377
6	Wettability and Antifouling Behavior on the Surfaces of Superhydrophilic Polymer Brushes. <i>Langmuir</i> , 2012, 28, 7212-7222.	1.6	376
7	Wetting Transition from the Cassie-Baxter State to the Wenzel State on Textured Polymer Surfaces. <i>Langmuir</i> , 2014, 30, 2061-2067.	1.6	362
8	Surface Molecular Motion of the Monodisperse Polystyrene Films. <i>Macromolecules</i> , 1997, 30, 280-285.	2.2	321
9	Molecular Aggregation Structure and Surface Properties of Poly(fluoroalkyl acrylate) Thin Films. <i>Macromolecules</i> , 2005, 38, 5699-5705.	2.2	301
10	Super-Liquid-Repellent Surfaces Prepared by Colloidal Silica Nanoparticles Covered with Fluoroalkyl Groups. <i>Langmuir</i> , 2005, 21, 7299-7302.	1.6	300
11	Film Thickness Dependence of the Surface Structure of Immiscible Polystyrene/Poly(methyl methacrylate) Blends. <i>Langmuir</i> , 2005, 21, 7299-7302.	2.2	299
12	Control of Nanobiointerfaces Generated from Well-Defined Biomimetic Polymer Brushes for Protein and Cell Manipulations. <i>Biomacromolecules</i> , 2004, 5, 2308-2314.	2.6	280
13	A dynamic covalent polymer driven by disulfidemetathesis under photoirradiation. <i>Chemical Communications</i> , 2010, 46, 1150-1152.	2.2	275
14	Biomimetic Dopamine Derivative for Selective Polymer Modification of Halloysite Nanotube Lumen. <i>Journal of the American Chemical Society</i> , 2012, 134, 12134-12137.	6.6	253
15	Friction behavior of high-density poly(2-methacryloyloxyethyl phosphorylcholine) brush in aqueous media. <i>Soft Matter</i> , 2007, 3, 740.	1.2	242
16	Macroscopic-Wetting Anisotropy on the Line-Patterned Surface of Fluoroalkylsilane Monolayers. <i>Langmuir</i> , 2005, 21, 911-918.	1.6	237
17	Polystyrene- and Poly(3-vinylpyridine)-Grafted Magnetite Nanoparticles Prepared through Surface-Initiated Nitroxide-Mediated Radical Polymerization. <i>Macromolecules</i> , 2004, 37, 2203-2209.	2.2	209
18	Mechanophores with a Reversible Radical System and Freezing-Induced Mechanochemistry in Polymer Solutions and Gels. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6168-6172.	7.2	202

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19	Molecular Weight Dependence of Surface Dynamic Viscoelastic Properties for the Monodisperse Polystyrene Film. <i>Macromolecules</i> , 1996, 29, 3040-3042.	2.2	187
20	Rheological Analysis of Surface Relaxation Process of Monodisperse Polystyrene Films. <i>Macromolecules</i> , 2000, 33, 7588-7593.	2.2	185
21	Competition between Oxidation and Coordination in Cross-Linking of Polystyrene Copolymer Containing Catechol Groups. <i>ACS Macro Letters</i> , 2012, 1, 457-460.	2.3	168
22	A Thermodynamic Polymer Cross-Linking System Based on Radically Exchangeable Covalent Bonds. <i>Macromolecules</i> , 2006, 39, 2121-2125.	2.2	167
23	Bovine serum albumin adsorption onto immobilized organotrichlorosilane surface: Influence of the phase separation on protein adsorption patterns. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1998, 9, 131-150.	1.9	162
24	Imaging of Dynamic Viscoelastic Properties of a Phase-Separated Polymer Surface by Forced Oscillation Atomic Force Microscopy. <i>Macromolecules</i> , 1994, 27, 7932-7934.	2.2	159
25	Ultrathinning-Induced Surface Phase Separation of Polystyrene/Poly(vinyl methyl ether) Blend Film. <i>Macromolecules</i> , 1995, 28, 934-938.	2.2	155
26	Polymer Scrambling: A Macromolecular Radical Crossover Reaction between the Main Chains of Alkoxyamine-Based Dynamic Covalent Polymers. <i>Journal of the American Chemical Society</i> , 2003, 125, 4064-4065.	6.6	147
27	Effect of soft segment chemistry on the biostability of segmented polyurethanes. I. In vitro oxidation. <i>Journal of Biomedical Materials Research Part B</i> , 1991, 25, 341-356.	3.0	144
28	Synthesis of Self-Healing Polymers by Scandium-Catalyzed Copolymerization of Ethylene and Anisylpropylenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 3249-3257.	6.6	144
29	Tribological properties of hydrophilic polymer brushes under wet conditions. <i>Chemical Record</i> , 2010, 10, 208-216.	2.9	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. <i>Macromolecules</i> , 1995, 28, 3482-3484.	2.2	142
31	Mechanochromic Dynamic Covalent Elastomers: Quantitative Stress Evaluation and Autonomous Recovery. <i>ACS Macro Letters</i> , 2015, 4, 1307-1311.	2.3	142
32	Determination of Surface Glass Transition Temperature of Monodisperse Polystyrene Based on Temperature-Dependent Scanning Viscoelasticity Microscopy. <i>Macromolecules</i> , 1999, 32, 4474-4476.	2.2	137
33	Design and performance of horizontal-type neutron reflectometer SOFIA at J-PARC/MLF. <i>European Physical Journal Plus</i> , 2011, 126, 1.	1.2	136
34	Novel neutron reflectometer SOFIA at J-PARC/MLF for in-situ soft-interface characterization. <i>Polymer Journal</i> , 2013, 45, 100-108.	1.3	134
35	Anti-fouling behavior of polymer brush immobilized surfaces. <i>Polymer Journal</i> , 2016, 48, 325-331.	1.3	133
36	Chain dimensions and surface characterization of superhydrophilic polymer brushes with zwitterion side groups. <i>Soft Matter</i> , 2013, 9, 5138.	1.2	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. <i>Macromolecules</i> , 2010, 43, 454-460.	2.2	128
38	Microphase separated structure, surface composition and blood compatibility of segmented poly(urethaneureas) with various soft segment components. <i>Polymer</i> , 1985, 26, 987-996.	1.8	126
39	Self-Healing of a Cross-Linked Polymer with Dynamic Covalent Linkages at Mild Temperature and Evaluation at Macroscopic and Molecular Levels. <i>Macromolecules</i> , 2015, 48, 5632-5639.	2.2	125
40	Polystyrene-Grafted Magnetite Nanoparticles Prepared through Surface-Initiated Nitroxyl-Mediated Radical Polymerization. <i>Chemistry of Materials</i> , 2003, 15, 3-5.	3.2	122
41	Aggregation state and mesophase structure of comb-shaped polymers with fluorocarbon side groups. <i>Polymer</i> , 1992, 33, 1316-1320.	1.8	116
42	Effect of Polydispersity on Surface Molecular Motion of Polystyrene Films. <i>Macromolecules</i> , 1997, 30, 6626-6632.	2.2	116
43	Study of the surface glass transition behaviour of amorphous polymer film by scanning-force microscopy and surface spectroscopy. <i>Polymer</i> , 1998, 39, 4665-4673.	1.8	112
44	Surface Molecular Aggregation Structure and Surface Molecular Motions of High-Molecular-Weight Polystyrene/Low-Molecular-Weight Poly(methyl methacrylate) Blend Films. <i>Macromolecules</i> , 1998, 31, 863-869.	2.2	112
45	Multipurpose soft-material SAXS/WAXS/GISAXS beamline at SPring-8. <i>Polymer Journal</i> , 2011, 43, 471-477.	1.3	112
46	Mechanically Robust and Self-Healable Superlattice Nanocomposites by Self-Assembly of Single-Component "Sticky" Polymer-Grafted Nanoparticles. <i>Advanced Materials</i> , 2015, 27, 3934-3941.	11.1	111
47	Thermal Reorganization and Molecular Weight Control of Dynamic Covalent Polymers Containing Alkoxyamines in Their Main Chains. <i>Macromolecules</i> , 2007, 40, 1429-1434.	2.2	104
48	Long-Range Hydrophilic Attraction between Water and Polyelectrolyte Surfaces in Oil. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15017-15021.	7.2	103
49	Programmed Thermodynamic Formation and Structure Analysis of Star-like Nanogels with Core Cross-linked by Thermally Exchangeable Dynamic Covalent Bonds. <i>Journal of the American Chemical Society</i> , 2007, 129, 13298-13304.	6.6	102
50	Surface Relaxation Process of Monodisperse Polystyrene Film Based on Lateral Force Microscopic Measurements. <i>Macromolecules</i> , 1998, 31, 5150-5151.	2.2	99
51	Tribological Properties of Poly(methyl methacrylate) Brushes Prepared by Surface-Initiated Atom Transfer Radical Polymerization. <i>Polymer Journal</i> , 2005, 37, 767-775.	1.3	99
52	Perfluoropolyether-infused nano-texture: a versatile approach to omniphobic coatings with low hysteresis and high transparency. <i>Chemical Communications</i> , 2013, 49, 597-599.	2.2	99
53	Phase Separated Morphology of an Immobilized Organosilane Monolayer Studied by a Scanning Probe Microscope. <i>Langmuir</i> , 1995, 11, 1341-1346.	1.6	97
54	Large-scale self-assembled zirconium phosphate smectic layers via a simple spray-coating process. <i>Nature Communications</i> , 2014, 5, 3589.	5.8	97

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55	Dynamic Formation of Graft Polymers via Radical Crossover Reaction of Alkoxyamines. <i>Macromolecules</i> , 2004, 37, 1696-1701.	2.2	91
56	Microphase separated structure and blood compatibility of segmented poly(urethaneureas) with different diamines in the hard segment. <i>Polymer</i> , 1985, 26, 978-986.	1.8	90
57	Molecular Aggregation State of n-Octadecyltrichlorosilane Monolayer Prepared at an Air/Water Interface. <i>Langmuir</i> , 1998, 14, 971-974.	1.6	90
58	A dynamic (reversible) covalent polymer: radical crossover behaviour of TEMPO-containing poly(alkoxyamine ester)s. <i>Chemical Communications</i> , 2002, , 2838-2839.	2.2	90
59	Network Reorganization of Dynamic Covalent Polymer Gels with Exchangeable Diarylbibenzofuranone at Ambient Temperature. <i>Journal of the American Chemical Society</i> , 2014, 136, 11839-11845.	6.6	90
60	Mobility Gradient in Surface Region of Monodisperse Polystyrene Films. <i>Macromolecules</i> , 2003, 36, 1235-1240.	2.2	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. <i>Langmuir</i> , 2008, 24, 8772-8778.	1.6	86
62	Searching for a Stable High-Performance Magnetorheological Suspension. <i>Advanced Materials</i> , 2018, 30, e1704769.	11.1	85
63	Reversible adhesive-free nanoscale adhesion utilizing oppositely charged polyelectrolyte brushes. <i>Soft Matter</i> , 2011, 7, 5717.	1.2	84
64	Well-Defined Poly(sulfobetaine) Brushes Prepared by Surface-Initiated ATRP Using a Fluoroalcohol and Ionic Liquids as the Solvents. <i>Macromolecules</i> , 2011, 44, 104-111.	2.2	84
65	Polyelectrolyte brushes: a novel stable lubrication system in aqueous conditions. <i>Faraday Discussions</i> , 2012, 156, 403.	1.6	84
66	Reversible Radical Ring-Crossover Polymerization of an Alkoxyamine-Containing Dynamic Covalent Macrocycle. <i>Macromolecules</i> , 2005, 38, 6316-6320.	2.2	82
67	Effect of soft segment chemistry on the biostability of segmented polyurethanes. II. In vitro hydrolytic degradation and lipid sorption. <i>Journal of Biomedical Materials Research Part B</i> , 1992, 26, 801-818.	3.0	81
68	Changes in Network Structure of Chemical Gels Controlled by Solvent Quality through Photoinduced Radical Reshuffling Reactions of Trithiocarbonate Units. <i>ACS Macro Letters</i> , 2012, 1, 478-481.	2.3	81
69	Effects of droplet size and solute concentration on drying process of polymer solution droplets deposited on homogeneous surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 3561-3567.	2.5	79
70	Direct Synthesis of Well-Defined Poly[2-(methacryloyloxy)ethyl]trimethylammonium chloride Brush via Surface-Initiated Atom Transfer Radical Polymerization in Fluoroalcohol. <i>Macromolecules</i> , 2010, 43, 8409-8415.	2.2	78
71	Surface molecular mobility and platelet reactivity of segmented poly(etherurethaneureas) with hydrophilic and hydrophobic soft segment components. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1989, 1, 17-29.	1.9	77
72	Repeatable mechanochemical activation of dynamic covalent bonds in thermoplastic elastomers. <i>Chemical Communications</i> , 2016, 52, 10482-10485.	2.2	76

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73	Spontaneously Formed Hydrophilic Surfaces by Segregation of Block Copolymers with Water-Soluble Blocks. <i>Macromolecules</i> , 2005, 38, 5180-5189.	2.2	75
74	Transparent polymer nanohybrid prepared by in situ synthesis of aluminosilicate nanofibers in poly(vinyl alcohol) solution. <i>Soft Matter</i> , 2005, 1, 372.	1.2	75
75	Influence of Molecular Weight Dispersity of Poly{2-(perfluorooctyl)ethyl acrylate} Brushes on Their Molecular Aggregation States and Wetting Behavior. <i>Macromolecules</i> , 2012, 45, 1509-1516.	2.2	75
76	Dynamic covalent diarylbibenzofuranone-modified nanocellulose: mechanochromic behaviour and application in self-healing polymer composites. <i>Polymer Chemistry</i> , 2017, 8, 2115-2122.	1.9	75
77	Preparation and properties of [poly(methyl methacrylate)/imogolite] hybrid via surface modification using phosphoric acid ester. <i>Polymer</i> , 2005, 46, 12386-12392.	1.8	74
78	Molecular Motion in Ultrathin Polystyrene Films: A Dynamic Mechanical Analysis of Surface and Interfacial Effects. <i>Macromolecules</i> , 2005, 38, 9735-9741.	2.2	73
79	Effect of surface hydrophilicity on ex vivo blood compatibility of segmented polyurethanes. <i>Biomaterials</i> , 1991, 12, 324-334.	5.7	72
80	Polystyrene-grafted titanium oxide nanoparticles prepared through surface-initiated nitroxide-mediated radical polymerization and their application to polymer hybrid thin films. <i>Soft Matter</i> , 2006, 2, 415.	1.2	71
81	X-ray photoelectron spectroscopy study of polyimide thin films with Ar cluster ion depth profiling. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010, 28, L1-L4.	0.9	71
82	Superior Properties of Polyurethane Elastomers Synthesized with Aliphatic Diisocyanate Bearing a Symmetric Structure. <i>Macromolecules</i> , 2017, 50, 1008-1015.	2.2	71
83	Scanning force microscopic studies of surface structure and protein adsorption behavior of organosilane monolayers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996, 14, 1747-1754.	0.9	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. <i>Chemical Communications</i> , 2009, , 1073.	2.2	70
85	Molecular self-assembly of one-dimensional polymer nanostructures in nanopores of anodic alumina oxide templates. <i>Progress in Polymer Science</i> , 2018, 77, 95-117.	11.8	70
86	Materials and Life Science Experimental Facility (MLF) at the Japan Proton Accelerator Research Complex II: Neutron Scattering Instruments. <i>Quantum Beam Science</i> , 2017, 1, 9.	0.6	69
87	Application of imogolite clay nanotubes in organic-inorganic nanohybrid materials. <i>Journal of Materials Chemistry</i> , 2012, 22, 11887.	6.7	68
88	Halloysite Nanotubes: Green Nanomaterial for Functional Organic-Inorganic Nanohybrids. <i>Chemical Record</i> , 2018, 18, 986-999.	2.9	68
89	Fatigue failure mechanisms of short glass-fiber reinforced nylon 66 based on nonlinear dynamic viscoelastic measurement. <i>Polymer</i> , 2001, 42, 5803-5811.	1.8	67
90	Effect of Low Surface Energy Chain Ends on the Glass Transition Temperature of Polymer Thin Films. <i>Macromolecules</i> , 2002, 35, 1491-1492.	2.2	67

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91	Thermosensitive Transparent Semi-Interpenetrating Polymer Networks for Wound Dressing and Cell Adhesion Control. <i>Biomacromolecules</i> , 2008, 9, 1313-1321.	2.6	67
92	Reorganizable Chemical Polymer Gels Based on Dynamic Covalent Exchange and Controlled Monomer Insertion. <i>Macromolecules</i> , 2009, 42, 8733-8738.	2.2	67
93	Versatile inhibition of marine organism settlement by zwitterionic polymer brushes. <i>Polymer Journal</i> , 2015, 47, 811-818.	1.3	67
94	Precise surface structure control of inorganic solid and metal oxide nanoparticles through surface-initiated radical polymerization. <i>Science and Technology of Advanced Materials</i> , 2006, 7, 617-628.	2.8	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. <i>Progress in Surface Science</i> , 1996, 52, 1-52.	3.8	65
97	Dependence of the Molecular Aggregation State of Octadecylsiloxane Monolayers on Preparation Methods. <i>Langmuir</i> , 2005, 21, 905-910.	1.6	64
98	Supramolecular control of spin-crossover phenomena in lipophilic Fe(II)-1,2,4-triazole complexes. <i>Journal of Polymer Science Part A</i> , 2006, 44, 5192-5202.	2.5	63
99	Orientation of poly(vinyl alcohol) nanofiber and crystallites in non-woven electrospun nanofiber mats under uniaxial stretching. <i>Polymer</i> , 2012, 53, 4702-4708.	1.8	63
100	Quantitative Analysis of Collagen Lamellae in the Normal and Keratoconic Human Cornea by Second Harmonic Generation Imaging Microscopy. <i>Investigative Ophthalmology and Visual Science</i> , 2014, 55, 8377-8385.	3.3	63
101	Bringing movable and deployable networks to disaster areas: development and field test of MDRU. <i>IEEE Network</i> , 2016, 30, 86-91.	4.9	63
102	Effect of Charged Group Spacer Length on Hydration State in Zwitterionic Poly(sulfobetaine) Brushes. <i>Langmuir</i> , 2017, 33, 8404-8412.	1.6	63
103	Electrospinning of non-ionic cellulose ethers/polyvinyl alcohol nanofibers: Characterization and applications. <i>Carbohydrate Polymers</i> , 2018, 181, 175-182.	5.1	63
104	Intelligent Build-Up of Complementarily Reactive Diblock Copolymers via Dynamic Covalent Exchange toward Symmetrical and Miktoarm Star-like Nanogels. <i>Macromolecules</i> , 2010, 43, 1785-1791.	2.2	62
105	Preparation of Low-Surface-Energy Poly[2-(perfluorooctyl)ethyl acrylate] Microparticles and Its Application to Liquid Marble Formation. <i>Langmuir</i> , 2011, 27, 1269-1274.	1.6	62
106	Molecular Aggregation State of Octadecyltrichlorosilane Monolayers Prepared by the Langmuir and Chemisorption Methods. <i>Langmuir</i> , 2000, 16, 3932-3936.	1.6	61
107	Effect of aggregation state of hard segment in segmented poly(urethaneureas) on their fatigue behavior after interaction with blood components. <i>Journal of Biomedical Materials Research Part B</i> , 1985, 19, 13-34.	3.0	60
108	Synthesis and Frictional Properties of Poly(2,3-dihydroxypropyl methacrylate) Brush Prepared by Surface-initiated Atom Transfer Radical Polymerization. <i>Chemistry Letters</i> , 2005, 34, 1582-1583.	0.7	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. <i>Macromolecules</i> , 2013, 46, 6991-6997.	2.2	60
110	Surface Mobile Layer of Polystyrene Film below Bulk Glass Transition Temperature. <i>Macromolecules</i> , 2001, 34, 6164-6166.	2.2	59
111	Microscopic lamellar organization in high-density polyethylene banded spherulites studied by scanning probe microscopy. <i>Polymer</i> , 2002, 43, 3441-3446.	1.8	59
112	Nonisothermal Crystallization Behaviors of Nanocomposites Prepared by <i>In Situ</i> Polymerization of High-Density Polyethylene on Multiwalled Carbon Nanotubes. <i>Macromolecules</i> , 2010, 43, 10545-10553.	2.2	59
113	Environmentally friendly repeatable adhesion using a sulfobetaine-type polyzwitterion brush. <i>Polymer Chemistry</i> , 2013, 4, 4987.	1.9	58
114	Linking experiment and theory for three-dimensional networked binary metal nanoparticle-triblock terpolymer superstructures. <i>Nature Communications</i> , 2014, 5, 3247.	5.8	58
115	Tunable Lyotropic Photonic Liquid Crystal Based on Graphene Oxide. <i>ACS Photonics</i> , 2014, 1, 79-86.	3.2	58
116	Mixing of immiscible polymers using nanoporous coordination templates. <i>Nature Communications</i> , 2015, 6, 7473.	5.8	58
117	Aggregation structure and surface properties of immobilized organosilane monolayers prepared by the upward drawing method. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1994, 12, 2530-2536.	0.9	57
118	A Novel Method To Examine Surface Composition in Mixtures of Chemically Identical Two Polymers with Different Molecular Weights. <i>Macromolecules</i> , 2002, 35, 4702-4706.	2.2	57
119	Aggregation States and Surface Wettability in Films of Poly(styrene-block-2-perfluorooctyl ethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 11 20, 5304-5310.	1.6	57
120	Chain dimension of polyampholytes in solution and immobilized brush states. <i>Polymer Journal</i> , 2012, 44, 121-130.	1.3	57
121	Neutron reflectivity study of the swollen structure of polyzwitterion and polyelectrolyte brushes in aqueous solution. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014, 25, 1673-1686.	1.9	57
122	Enhanced pool boiling of ethanol on wettability-patterned surfaces. <i>Applied Thermal Engineering</i> , 2019, 149, 325-331.	3.0	55
123	Influence of chemical structure of hard segments on physical properties of polyurethane elastomers: a review. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	55
124	Surface chemical composition and surface molecular mobility of diblock and random copolymers with hydrophobic and hydrophilic segments. <i>Polymer</i> , 1990, 31, 1149-1153.	1.8	54
125	Visualization of Active Surface Molecular Motion in Polystyrene Film by Scanning Viscoelasticity Microscopy. <i>Langmuir</i> , 2003, 19, 6573-6575.	1.6	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.	2.2	54
128	A "non-sticky" superhydrophobic surface prepared by self-assembly of fluoroalkyl phosphonic acid on a hierarchically micro/nanostructured alumina gel film. Chemical Communications, 2012, 48, 6824.	2.2	54
129	Surface Segregation of the Higher Surface Free Energy Component in Symmetric Polymer Blend Films. Macromolecules, 1998, 31, 3746-3749.	2.2	53
130	Surface Molecular Motion of Monodisperse \pm Diamino-Terminated and \pm Dicarboxy-Terminated Polystyrenes. Macromolecules, 2001, 34, 8761-8767.	2.2	52
131	Preparation of Novel Polymer Hybrids from Imogolite Nanofiber. Polymer Journal, 2007, 39, 1-15.	1.3	52
132	Surface glass transition temperatures of monodisperse polystyrene films by scanning force microscopy. Science and Technology of Advanced Materials, 2000, 1, 31-35.	2.8	51
133	Anomalous Surface Relaxation Process in Polystyrene Ultrathin Films. Macromolecules, 2003, 36, 4937-4943.	2.2	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.	1.6	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.	1.3	51
137	Surface Modification of Aluminosilicate Nanofiber "Imogolite". Chemistry Letters, 2001, 30, 1162-1163.	0.7	50
138	Surface Structure of Asymmetric Fluorinated Block Copolymers. Macromolecules, 2004, 37, 939-945.	2.2	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.	1.8	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.	4.0	49
141	Effect of Chain End Chemistry on Surface Molecular Motion of Polystyrene Films. Macromolecules, 1998, 31, 5148-5149.	2.2	48
142	Structure and Dewetting Behavior of Polyhedral Oligomeric Silsesquioxane-Filled Polystyrene Thin Films. Langmuir, 2007, 23, 902-907.	1.6	48
143	Control of Dispersion State of Silsesquioxane Nanofillers for Stabilization of Polystyrene Thin Films. Langmuir, 2008, 24, 5766-5772.	1.6	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.	1.3	47

#	ARTICLE	IF	CITATIONS
145	Effect of hydrophilic soft segment side chains on the surface properties and blood compatibility of segmented poly (urethaneureas). <i>Journal of Biomedical Materials Research Part B</i> , 1991, 25, 1095-1118.	3.0	47
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