Astushi Takahara

List of Publications by Citations

659 papers	20,497 citations	70 h-index	115 g-index
695 ext. papers	22,127 ext. citations	4.1 avg, IF	6.93 L-index

#	Paper	IF	Citations
659	Self-healing of covalently cross-linked polymers by reshuffling thiuram disulfide moieties in air under visible light. *Advanced Materials*, **2012**, 24, 3975-80	24	489
658	Repeatable photoinduced self-healing of covalently cross-linked polymers through reshuffling of trithiocarbonate units. *Angewandte Chemie - International Edition*, **2011**, 50, 1660-3	16.4	430
657	Self-healing of chemical gels cross-linked by diarylbibenzofuranone-based trigger-free dynamic covalent bonds at room temperature. *Angewandte Chemie - International Edition*, **2012**, 51, 1138-42	16.4	392
656	Dynamic covalent polymers: Reorganizable polymers with dynamic covalent bonds. *Progress in Polymer Science*, **2009**, 34, 581-604	29.6	366
655	Selective modification of halloysite lumen with octadecylphosphonic acid: new inorganic tubular micelle. *Journal of the American Chemical Society*, **2012**, 134, 1853-9	16.4	321
654	Wettability and antifouling behavior on the surfaces of superhydrophilic polymer brushes. *Langmuir*, **2012**, 28, 7212-22	4	313
653	Surface Molecular Motion of the Monodisperse Polystyrene Films. *Macromolecules*, **1997**, 30, 280-285	5.5	292
652	Film Thickness Dependence of the Surface Structure of Immiscible Polystyrene/Poly(methyl methacrylate) Blends. *Macromolecules*, **1996**, 29, 3232-3239	5.5	278
651	Super-liquid-repellent surfaces prepared by colloidal silica nanoparticles covered with fluoroalkyl groups. *Langmuir*, **2005**, 21, 7299-302	4	276
650	Control of nanobiointerfaces generated from well-defined biomimetic polymer brushes for protein and cell manipulations. *Biomacromolecules*, **2004**, 5, 2308-14	6.9	266
649	Molecular Aggregation Structure and Surface Properties of Poly(fluoroalkyl acrylate) Thin Films. *Macromolecules*, **2005**, 38, 5699-5705	5.5	262
648	Wetting transition from the Cassie-Baxter state to the Wenzel state on textured polymer surfaces. *Langmuir*, **2014**, 30, 2061-7	4	237
647	A dynamic covalent polymer driven by disulfide metathesis under photoirradiation. *Chemical Communications*, **2010**, 46, 1150-2	5.8	228
646	Biomimetic dopamine derivative for selective polymer modification of halloysite nanotube lumen. *Journal of the American Chemical Society*, **2012**, 134, 12134-7	16.4	226
645	Friction behavior of high-density poly(2-methacryloyloxyethyl phosphorylcholine) brush in aqueous media. *Soft Matter*, **2007**, 3, 740-746	3.6	222
644	Macroscopic-wetting anisotropy on the line-patterned surface of fluoroalkylsilane monolayers. *Langmuir*, **2005**, 21, 911-8	4	217
643	Polystyrene- and Poly(3-vinylpyridine)-Grafted Magnetite Nanoparticles Prepared through Surface-Initiated Nitroxide-Mediated Radical Polymerization. *Macromolecules*, **2004**, 37, 2203-2209	5.5	200

642	Molecular Weight Dependence of Surface Dynamic Viscoelastic Properties for the Monodisperse Polystyrene Film. *Macromolecules*, **1996**, 29, 3040-3042	5.5	166
641	Rheological Analysis of Surface Relaxation Process of Monodisperse Polystyrene Films. *Macromolecules*, **2000**, 33, 7588-7593	5.5	164
640	A Thermodynamic Polymer Cross-Linking System Based on Radically Exchangeable Covalent Bonds. *Macromolecules*, **2006**, 39, 2121-2125	5.5	154
639	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, 131-50	3.5	151
638	Mechanophores with a reversible radical system and freezing-induced mechanochemistry in polymer solutions and gels. *Angewandte Chemie - International Edition*, **2015**, 54, 6168-72	16.4	150
637	Competition between Oxidation and Coordination in Cross-Linking of Polystyrene Copolymer Containing Catechol Groups.. *ACS Macro Letters*, **2012**, 1, 457-460	6.6	144
636	Ultrathinning-Induced Surface Phase Separation of Polystyrene/Poly(vinyl methyl ether) Blend Film. *Macromolecules*, **1995**, 28, 934-938	5.5	141
635	Imaging of Dynamic Viscoelastic Properties of a Phase-Separated Polymer Surface by Forced Oscillation Atomic Force Microscopy. *Macromolecules*, **1994**, 27, 7932-7934	5.5	138
634	Polymer scrambling: macromolecular radical crossover reaction between the main chains of alkoxyamine-based dynamic covalent polymers. *Journal of the American Chemical Society*, **2003**, 125, 4064-5	16.4	135
633	Depth Dependence of the Surface Glass Transition Temperature of a Poly(styrene-block-methyl methacrylate) Diblock Copolymer Film on the Basis of Temperature-Dependent X-ray Photoelectron Spectroscopy. *Macromolecules*, **1995**, 28, 3482-3484	5.5	135
632	Effect of soft segment chemistry on the biostability of segmented polyurethanes. I. In vitro oxidation. *Journal of Biomedical Materials Research Part B*, **1991**, 25, 341-56		131
631	Repeatable Photoinduced Self-Healing of Covalently Cross-Linked Polymers through Reshuffling of Trithiocarbonate Units. *Angewandte Chemie*, **2011**, 123, 1698-1701	3.6	125
630	Determination of Surface Glass Transition Temperature of Monodisperse Polystyrene Based on Temperature-Dependent Scanning Viscoelasticity Microscopy. *Macromolecules*, **1999**, 32, 4474-4476	5.5	124
629	Tribological properties of hydrophilic polymer brushes under wet conditions. *Chemical Record*, **2010** , 10, 208-16	6.6	120
628	Mechanochromic Dynamic Covalent Elastomers: Quantitative Stress Evaluation and Autonomous Recovery. *ACS Macro Letters*, **2015**, 4, 1307-1311	6.6	118
627	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	5.5	115
626	Polystyrene-Grafted Magnetite Nanoparticles Prepared through Surface-Initiated Nitroxyl-Mediated Radical Polymerization. *Chemistry of Materials*, **2003**, 15, 3-5	9.6	113
625	Chain dimensions and surface characterization of superhydrophilic polymer brushes with zwitterion side groups. *Soft Matter*, **2013**, 9, 5138	3.6	111

624	Aggregation state and mesophase structure of comb-shaped polymers with fluorocarbon side groups. *Polymer*, **1992**, 33, 1316-1320	3.9	109
623	Microphase separated structure, surface composition and blood compatibility of segmented poly(urethaneureas) with various soft segment components. *Polymer*, **1985**, 26, 987-996	3.9	107
622	Study of the surface glass transition behaviour of amorphous polymer film by scanning-force microscopy and surface spectroscopy. *Polymer*, **1998**, 39, 4665-4673	3.9	104
621	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	5.5	103
620	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	5.5	102
619	Effect of Polydispersity on Surface Molecular Motion of Polystyrene Films. *Macromolecules*, **1997**, 30, 6626-6632	5.5	102
618	Design and performance of horizontal-type neutron reflectometer SOFIA at J-PARC/MLF. *European Physical Journal Plus*, **2011**, 126, 1	3.1	101
617	Multipurpose soft-material SAXS/WAXS/GISAXS beamline at SPring-8. *Polymer Journal*, **2011**, 43, 471-477	2.7	100
616	Anti-fouling behavior of polymer brush immobilized surfaces. *Polymer Journal*, **2016**, 48, 325-331	2.7	99
615	Novel neutron reflectometer SOFIA at J-PARC/MLF for in-situ soft-interface characterization. *Polymer Journal*, **2013**, 45, 100-108	2.7	98
614	Thermal Reorganization and Molecular Weight Control of Dynamic Covalent Polymers Containing Alkoxyamines in Their Main Chains. *Macromolecules*, **2007**, 40, 1429-1434	5.5	97
613	Synthesis of Self-Healing Polymers by Scandium-Catalyzed Copolymerization of Ethylene and Anisylpropylenes. *Journal of the American Chemical Society*, **2019**, 141, 3249-3257	16.4	92
612	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, 13298-304	16.4	92
611	Mechanically Robust and Self-Healable Superlattice Nanocomposites by Self-Assembly of Single-Component "Sticky" Polymer-Grafted Nanoparticles. *Advanced Materials*, **2015**, 27, 3934-41	24	90
610	Tribological Properties of Poly(methyl methacrylate) Brushes Prepared by Surface-Initiated Atom Transfer Radical Polymerization. *Polymer Journal*, **2005**, 37, 767-775	2.7	89
609	Surface Relaxation Process of Monodisperse Polystyrene Film Based on Lateral Force Microscopic Measurements. *Macromolecules*, **1998**, 31, 5150-1	5.5	89
608	Perfluoropolyether-infused nano-texture: a versatile approach to omniphobic coatings with low hysteresis and high transparency. *Chemical Communications*, **2013**, 49, 597-9	5.8	88
607	Phase Separated Morphology of an Immobilized Organosilane Monolayer Studied by a Scanning Probe Microscope. *Langmuir*, **1995**, 11, 1341-1346	4	88

606	Dynamic Formation of Graft Polymers via Radical Crossover Reaction of Alkoxyamines. *Macromolecules*, **2004**, 37, 1696-1701	5.5	87
605	Mobility Gradient in Surface Region of Monodisperse Polystyrene Films. *Macromolecules*, **2003**, 36, 1235-1240	5.5	85
604	Molecular Aggregation State of n-Octadecyltrichlorosilane Monolayer Prepared at an Air/Water Interface. *Langmuir*, **1998**, 14, 971-974	4	85
603	A dynamic (reversible) covalent polymer: radical crossover behaviour of TEMPO-containing poly(alkoxyamine ester)s. *Chemical Communications*, **2002**, 2838-9	5.8	84
602	Large-scale self-assembled zirconium phosphate smectic layers via a simple spray-coating process. *Nature Communications*, **2014**, 5, 3589	17.4	81
601	Network reorganization of dynamic covalent polymer gels with exchangeable diarylbibenzofuranone at ambient temperature. *Journal of the American Chemical Society*, **2014**, 136, 11839-45	16.4	79
600	Reversible Radical Ring-Crossover Polymerization of an Alkoxyamine-Containing Dynamic Covalent Macrocycle. *Macromolecules*, **2005**, 38, 6316-6320	5.5	78
599	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, 8772-8	4	77
598	Microphase separated structure and blood compatibility of segmented poly(urethaneureas) with different diamines in the hard segment. *Polymer*, **1985**, 26, 978-986	3.9	77
597	Reversible adhesive-free nanoscale adhesion utilizing oppositely charged polyelectrolyte brushes. *Soft Matter*, **2011**, 7, 5717	3.6	76
596	Long-Range Hydrophilic Attraction between Water and Polyelectrolyte Surfaces in Oil. *Angewandte Chemie - International Edition*, **2016**, 55, 15017-15021	16.4	74
595	Well-Defined Poly(sulfobetaine) Brushes Prepared by Surface-Initiated ATRP Using a Fluoroalcohol and Ionic Liquids as the Solvents. *Macromolecules*, **2011**, 44, 104-111	5.5	72
594	Preparation and properties of [poly(methyl methacrylate)/imogolite] hybrid via surface modification using phosphoric acid ester. *Polymer*, **2005**, 46, 12386-12392	3.9	72
593	Polyelectrolyte brushes: a novel stable lubrication system in aqueous conditions. *Faraday Discussions*, **2012**, 156, 403-12; discussion 413-34	3.6	71
592	Transparent polymer nanohybrid prepared by in situ synthesis of aluminosilicate nanofibers in poly(vinyl alcohol) solution. *Soft Matter*, **2005**, 1, 372-377	3.6	71
591	Effect of soft segment chemistry on the biostability of segmented polyurethanes. II. In vitro hydrolytic degradation and lipid sorption. *Journal of Biomedical Materials Research Part B*, **1992**, 26, 801-18		71
590	Molecular Motion in Ultrathin Polystyrene Films: Dynamic Mechanical Analysis of Surface and Interfacial Effects. *Macromolecules*, **2005**, 38, 9735-9741	5.5	70
589	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	6.6	69

588	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	5.5	68
587	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, 415-421	3.6	68
586	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	68
585	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	5.5	67
584	Reorganizable Chemical Polymer Gels Based on Dynamic Covalent Exchange and Controlled Monomer Insertion. *Macromolecules*, **2009**, 42, 8733-8738	5.5	67
583	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	4.9	67
582	Spontaneously Formed Hydrophilic Surfaces by Segregation of Block Copolymers with Water-Soluble Blocks. *Macromolecules*, **2005**, 38, 5180-5189	5.5	67
581	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	2.9	67
580	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**, 1073-5	5.8	65
579	Effect of surface hydrophilicity on ex vivo blood compatibility of segmented polyurethanes. *Biomaterials*, **1991**, 12, 324-34	15.6	65
578	Repeatable mechanochemical activation of dynamic covalent bonds in thermoplastic elastomers. *Chemical Communications*, **2016**, 52, 10482-5	5.8	64
577	Self-Healing of Chemical Gels Cross-Linked by Diarylbibenzofuranone-Based Trigger-Free Dynamic Covalent Bonds at Room Temperature. *Angewandte Chemie*, **2012**, 124, 1164-1168	3.6	64
576	Effect of Low Surface Energy Chain Ends on the Glass Transition Temperature of Polymer Thin Films. *Macromolecules*, **2002**, 35, 1491-1492	5.5	63
575	Dynamic covalent diarylbibenzofuranone-modified nanocellulose: mechanochromic behaviour and application in self-healing polymer composites. *Polymer Chemistry*, **2017**, 8, 2115-2122	4.9	62
574	Application of imogolite clay nanotubes in organic–inorganic nanohybrid materials. *Journal of Materials Chemistry*, **2012**, 22, 11887		62
573	Dependence of the molecular aggregation state of octadecylsiloxane monolayers on preparation methods. *Langmuir*, **2005**, 21, 905-10	4	62
572	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	2.9	61
571	Thermosensitive transparent semi-interpenetrating polymer networks for wound dressing and cell adhesion control. *Biomacromolecules*, **2008**, 9, 1313-21	6.9	61

570	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	7.1	61
569	Searching for a Stable High-Performance Magnetorheological Suspension. *Advanced Materials*, **2018**, 30, e1704769	24	60
568	Morphology and mechanical properties of polymer surfaces via scanning force microscopy. *Progress in Surface Science*, **1996**, 52, 1-52	6.6	59
567	Surface Mobile Layer of Polystyrene Film below Bulk Glass Transition Temperature. *Macromolecules* , **2001**, 34, 6164-6166	5.5	58
566	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	2.5	57
565	Intelligent Build-Up of Complementarily Reactive Diblock Copolymers via Dynamic Covalent Exchange toward Symmetrical and Miktoarm Star-like Nanogels. *Macromolecules*, **2010**, 43, 1785-1791	5.5	56
564	Aggregation states and surface wettability in films of poly(styrene-block-2-perfluorooctyl ethyl acrylate) diblock copolymers synthesized by atom transfer radical polymerization. *Langmuir*, **2004**, 20, 5304-10	4	56
563	Molecular Aggregation State of n-Octadecyltrichlorosilane Monolayers Prepared by the Langmuir and Chemisorption Methods. *Langmuir*, **2000**, 16, 3932-3936	4	56
562	Molecular self-assembly of one-dimensional polymer nanostructures in nanopores of anodic alumina oxide templates. *Progress in Polymer Science*, **2018**, 77, 95-117	29.6	55
561	Nonisothermal Crystallization Behaviors of Nanocomposites Prepared byIn SituPolymerization of High-Density Polyethylene on Multiwalled Carbon Nanotubes. *Macromolecules*, **2010**, 43, 10545-10553	5.5	55
560	Fatigue failure mechanisms of short glass-fiber reinforced nylon 66 based on nonlinear dynamic viscoelastic measurement. *Polymer*, **2001**, 42, 5803-5811	3.9	55
559	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	2.9	55
558	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	1.7	54
557	Poly(methyl methacrylate) grafted imogolite nanotubes prepared through surface-initiated ARGET ATRP. *Chemical Communications*, **2011**, 47, 5813-5	5.8	53
556	Visualization of Active Surface Molecular Motion in Polystyrene Film by Scanning Viscoelasticity Microscopy. *Langmuir*, **2003**, 19, 6573-6575	4	53
555	A Novel Method To Examine Surface Composition in Mixtures of Chemically Identical Two Polymers with Different Molecular Weights. *Macromolecules*, **2002**, 35, 4702-4706	5.5	53
554	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		53
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552	Preparation of low-surface-energy poly[2-(perfluorooctyl)ethyl acrylate] microparticles and its application to liquid marble formation. *Langmuir*, **2011**, 27, 1269-74	4	52
551	Microscopic lamellar organization in high-density polyethylene banded spherulites studied by scanning probe microscopy. *Polymer*, **2002**, 43, 3441-3446	3.9	52
550	Linking experiment and theory for three-dimensional networked binary metal nanoparticle-triblock terpolymer superstructures. *Nature Communications*, **2014**, 5, 3247	17.4	51
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548	Superior Properties of Polyurethane Elastomers Synthesized with Aliphatic Diisocyanate Bearing a Symmetric Structure. *Macromolecules*, **2017**, 50, 1008-1015	5.5	50
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546	Tunable Lyotropic Photonic Liquid Crystal Based on Graphene Oxide. *ACS Photonics*, **2014**, 1, 79-86	6.3	50
545	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	5.5	50
544	Environmentally friendly repeatable adhesion using a sulfobetaine-type polyzwitterion brush. *Polymer Chemistry*, **2013**, 4, 4987	4.9	50
543	Preparation of Novel Polymer Hybrids from Imogolite Nanofiber. *Polymer Journal*, **2007**, 39, 1-15	2.7	50
542	Detection of subepithelial fibrosis associated with corneal stromal edema by second harmonic generation imaging microscopy **2009**, 50, 3145-50		49
541	Simultaneous and sequential micro-porous semi-interpenetrating polymer network hydrogel films for drug delivery and wound dressing applications. *Polymer*, **2009**, 50, 3537-3546	3.9	49
540	Phase selective preparations and surface modifications of spherical hollow nanomagnets. *Journal of Materials Chemistry*, **2006**, 16, 3215		49
539	Surface Structure of Asymmetric Fluorinated Block Copolymers. *Macromolecules*, **2004**, 37, 939-945	5.5	49
538	Anomalous Surface Relaxation Process in Polystyrene Ultrathin Films. *Macromolecules*, **2003**, 36, 4937-4943	5.5	49
537	Surface Modification of Aluminosilicate Nanofiber Imogolite *Chemistry Letters*, **2001**, 30, 1162-1163	1.7	49
536	Surface glass transition temperatures of monodisperse polystyrene films by scanning force microscopy. *Science and Technology of Advanced Materials*, **2000**, 1, 31-35	7.1	49
535	Surface Molecular Motion of Monodisperse Diamino-Terminated and Dicarboxy-Terminated Polystyrenes. *Macromolecules*, **2001**, 34, 8761-8767	5.5	49

534	Halloysite Nanotubes: Green Nanomaterial for Functional Organic-Inorganic Nanohybrids. *Chemical Record*, **2018**, 18, 986-999	6.6	48
533	Robust liquid marbles stabilized with surface-modified halloysite nanotubes. *Langmuir*, **2013**, 29, 14971-5	4	48
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531	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, 6824-6	5.8	47
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529	Versatile inhibition of marine organism settlement by zwitterionic polymer brushes. *Polymer Journal*, **2015**, 47, 811-818	2.7	46
528	Bringing movable and deployable networks to disaster areas: development and field test of MDRU. *IEEE Network*, **2016**, 30, 86-91	11.4	46
527	Influence of Trace Amount of Well-Dispersed Carbon Nanotubes on Structural Development and Tensile Properties of Polypropylene. *Macromolecules*, **2013**, 46, 463-473	5.5	46
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525	Surface Segregation of the Higher Surface Free Energy Component in Symmetric Polymer Blend Films. *Macromolecules*, **1998**, 31, 3746-3749	5.5	46
524	Three-dimensional analysis of collagen lamellae in the anterior stroma of the human cornea visualized by second harmonic generation imaging microscopy **2011**, 52, 911-5		45
523	Effect of Chain End Chemistry on Surface Molecular Motion of Polystyrene Films. *Macromolecules*, **1998**, 31, 5148-9	5.5	45
522	Chain dimension of polyampholytes in solution and immobilized brush states. *Polymer Journal*, **2012**, 44, 121-130	2.7	44
521	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	44
520	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, 1095-118		44
519	Surface segregation of chain ends in 卌fluoroalkyl-terminated polystyrenes films. *Polymer*, **2003**, 44, 4171-4177	3.9	43
518	Effect of Charged Group Spacer Length on Hydration State in Zwitterionic Poly(sulfobetaine) Brushes. *Langmuir*, **2017**, 33, 8404-8412	4	42
517	Materials and Life Science Experimental Facility (MLF) at the Japan Proton Accelerator Research Complex II: Neutron Scattering Instruments. *Quantum Beam Science*, **2017**, 1, 9	1.6	42

516	Imogolite Reinforced Nanocomposites: Multifaceted Green Materials. *Materials*, **2010**, 3, 1709-1745	3.5	42
515	Structure and dewetting behavior of polyhedral oligomeric silsesquioxane-filled polystyrene thin films. *Langmuir*, **2007**, 23, 902-7	4	42
514	Surface chemical composition and surface molecular mobility of diblock and random copolymers with hydrophobic and hydrophilic segments. *Polymer*, **1990**, 31, 1149-1153	3.9	42
513	Liquid marbles supported by monodisperse poly(methylsilsesquioxane) particles. *Langmuir*, **2014**, 30, 9071-5	4	41
512	Reversible cross-linking of hydrophilic dynamic covalent polymers with radically exchangeable alkoxyamines in aqueous media. *Polymer Chemistry*, **2011**, 2, 2021	4.9	41
511	Analysis of surface structure of built-up film of fluorocarbon amphiphile and polymer/(fluorocarbon amphiphile) composite thin film by means of x-ray photoelectron spectroscopy. *Macromolecules*, **1989**, 22, 617-622	5.5	41
510	Superhydrophobic magnetic poly(DOPAm-co-PFOEA)/Fe3O4/cellulose microspheres for stable liquid marbles. *Chemical Communications*, **2016**, 52, 1895-8	5.8	40
509	Substrate-Independent Underwater Superoleophobic Surfaces Inspired by Fish-Skin and Mussel-Adhesives. *Advanced Materials Interfaces*, **2014**, 1, 1300092	4.6	40
508	Neutron reflectivity study of the swollen structure of polyzwitterion and polyeletrolyte brushes in aqueous solution. *Journal of Biomaterials Science, Polymer Edition*, **2014**, 25, 1673-86	3.5	39
507	Internally Modified Halloysite Nanotubes as Inorganic Nanocontainers for a Flame Retardant. *Chemistry Letters*, **2013**, 42, 121-123	1.7	39
506	Surface molecular motion in thin films of poly(styrene-block-methyl methacrylate) diblock copolymer. *Acta Polymerica*, **1995**, 46, 476-482		38
505	Rational approach to star-like nanogels with different arm lengths: formation by dynamic covalent exchange and their imaging. *Chemical Communications*, **2009**, 689-91	5.8	37
504	Morphological investigation of midblock-sulfonated block ionomers prepared from solvents differing in polarity. *Macromolecular Rapid Communications*, **2015**, 36, 432-8	4.8	36
503	Semirigid Biobased Polymer Brush: Poly(α-methylene-γ-butyrolactone) Brushes. *ACS Macro Letters*, **2012**, 1, 1124-1127	6.6	36
502	Contamination-free transmission electron microscopy for high-resolution carbon elemental mapping of polymers. *ACS Nano*, **2009**, 3, 1297-304	16.7	36
501	Molecular Aggregation State and Molecular Motion of Organosilane Monolayers Prepared at the Air/Water Interface. *Langmuir*, **2000**, 16, 9314-9320	4	36
500	Characterization of catechol-containing natural thermosetting polymer Urushiol thin film. *Journal of Polymer Science Part A*, **2013**, 51, 3688-3692	2.5	35
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