

Astushi Takahara

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Association Behavior of a Homopolymer Containing Choline Phosphonate Groups in Aqueous Solutions. <i>Chemistry Letters</i> , 2022 , 51, 103-106	1.7	1
658	Morphological study of isotactic polypropylene thin films on different substrates using grazing incidence wide-angle X-ray diffraction. <i>Polymer</i> , 2022 , 245, 124665	3.9	
657	Molecular Aggregation Structure of Notched Nylon 12 Film during Uniaxial Elongation. <i>Nippon Gomu Kyokaishi</i> , 2021 , 94, 293-298	0	
656	Random Forest Analysis of X-ray Diffraction and Scattering Data on Crystalline Polymer. <i>Journal of Computer Chemistry Japan</i> , 2021 , 20, 103-105	0.2	1
655	Actuator Performance of a Hydrogenated Carboxylated Acrylonitrile-Butadiene Rubber/Silica-Coated BaTiO Dielectric Elastomer. <i>ACS Omega</i> , 2021 , 6, 649-655	3.9	1
654	Microdomain structure change and macroscopic mechanical response of styrenic triblock copolymer under cyclic uniaxial and biaxial stretching modes. <i>Polymer Journal</i> , 2021 , 53, 703-712	2.7	3
653	Actuator Performance of Dielectric Elastomers Comprising Hydrogenated Carboxylated Acrylonitrile-Butadiene Rubber/Nitrile Group-Modified Titanium Oxide Particles. <i>ACS Omega</i> , 2021 , 6, 6965-6972	3.9	1
652	Synthesis of Polysiloxanes with Functional Groups by Using Organometallic Carboxylate Catalysts. <i>Chemistry Letters</i> , 2021 , 50, 542-545	1.7	1
651	Single-Lap Joints Bonded with Epoxy Nanocomposite Adhesives: Effect of Organoclay Reinforcement on Adhesion and Fatigue Behaviors. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 3428-3437	4.3	2
650	Probing the in-plane liquid-like behavior of liquid crystal elastomers. <i>Science Advances</i> , 2021 , 7,	14.3	4
649	Freestanding Tough Glassy Membranes Produced by Simple Solvent Casting of Polyrotaxane Derivatives. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 4177-4183	4.3	0
648	Preparation and characterization of an imogolite/chitosan hybrid with pyridoxal-5'-phosphate as an interfacial modifier.. <i>RSC Advances</i> , 2021 , 11, 31712-31716	3.7	1
647	Exploring the Mesoscopic Morphology in Mussel Adhesive Proteins by Soft X-ray Spectromicroscopy. <i>Biomacromolecules</i> , 2021 , 22, 1256-1260	6.9	1
646	Tailoring Multistimuli Responsive Micropatterns Activated by Various Mechanical Modes. <i>Advanced Functional Materials</i> , 2021 , 31, 2100612	15.6	8
645	Dynamics of matrix-free nanocomposites consisting of block copolymer-grafted silica nanoparticles under elongation evaluated through X-ray photon correlation spectroscopy. <i>Polymer</i> , 2021 , 229, 124003	3.9	1
644	Synthesis and surface properties of amphiphilic copolymer consisting of hydrophobic perfluorocarbon and hydrophilic zwitterionic blocks. <i>Polymer</i> , 2021 , 230, 124029	3.9	0
643	Preparation of an (inorganic/organic) hybrid hydrogel from a peptide oligomer and a tubular aluminosilicate nanofiber.. <i>RSC Advances</i> , 2021 , 11, 4901-4905	3.7	3

642	Adhesion enhancement of Poly(etheretherketone) via surface-initiated photopolymerization of glycidyl methacrylate. <i>Polymer</i> , 2020 , 209, 122971	3.9	2
641	Enhanced adhesion effect of epoxy resin on carbon fiber-reinforced Poly(etheretherketone) via surface initiated photopolymerization of glycidyl methacrylate. <i>Polymer</i> , 2020 , 209, 123036	3.9	3
640	Complex Network Representation of the Structure-Mechanical Property Relationships in Elastomers with Heterogeneous Connectivity. <i>Patterns</i> , 2020 , 1, 100135	5.1	6
639	Influence of chemical structure of hard segments on physical properties of polyurethane elastomers: a review. <i>Journal of Polymer Research</i> , 2020 , 27, 1	2.7	20
638	Cationic Polymer Brush/Giant Polysaccharide Sacran Assembly: Structure and Lubricity. <i>Langmuir</i> , 2020 , 36, 6494-6501	4	3
637	Fabrication and Deformation of Mechanochromic Nanocomposite Elastomers Based on Rubbery and Glassy Block Copolymer-Grafted Silica Nanoparticles. <i>Macromolecules</i> , 2020 , 53, 4541-4551	5.5	6
636	Preparation of polymethyl methacrylate with well-controlled stereoregularity by anionic polymerization in an ionic liquid solvent. <i>Journal of Polymer Science</i> , 2020 , 58, 1960-1964	2.4	2
635	Enhanced Adhesion Effect of Epoxy Resin on Metal Surfaces Using Polymer with Catechol and Epoxy Groups. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 1500-1507	4.3	11
634	Functionalization of Metal Surface via Thiol-Ene Click Chemistry: Synthesis, Adsorption Behavior, and Postfunctionalization of a Catechol- and Allyl-Containing Copolymer. <i>ACS Omega</i> , 2020 , 5, 7488-7496	3.9	7
633	Relationship between the Relative Dielectric Constant and the Monomer Sequence of Acrylonitrile in Rubber. <i>ACS Omega</i> , 2020 , 5, 16255-16262	3.9	3
632	Synthesis of a conductive polymer thin film having a choline phosphate side group and its bioadhesive properties. <i>Chemical Communications</i> , 2020 , 56, 2691-2694	5.8	8
631	Fluoropolymer Nanoparticles Prepared Using Trifluoropropene Telomer Based Fluorosurfactants. <i>Langmuir</i> , 2020 , 36, 1754-1760	4	3
630	Structure and Properties of Hybrid Film Fabricated by Spin-Assisted Layer-by-Layer Assembly of Sacran and Imogolite Nanotubes. <i>Langmuir</i> , 2020 , 36, 1718-1726	4	6
629	Molecular Design and Characterization of Ionic Monomers with Varying Ion Pair Interaction Energies. <i>Macromolecules</i> , 2020 , 53, 1629-1637	5.5	9
628	Film formation process of natural rubber latex particles: roles of the particle size and distribution of non-rubber species on film microstructure. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 592, 124571	5.1	7
627	Molecular Aggregation Structure and Surface Properties of Biomimetic Catechol-Bearing Poly[2-(perfluorooctyl)ethyl acrylate] and Its Application to Superamphiphobic Coatings. <i>ACS Omega</i> , 2020 , 5, 8169-8180	3.9	4
626	Crystal polymorphism of polylactide and its composites by X-ray diffraction study. <i>Polymer Journal</i> , 2020 , 52, 755-763	2.7	15
625	Mechanical Stabilization of Deoxyribonucleic Acid Solid Films Based on Hydrated Ionic Liquid. <i>Biomacromolecules</i> , 2020 , 21, 464-471	6.9	4

624	In Situ Synchrotron Radiation X-ray Scattering Investigation of a Microphase-Separated Structure of Thermoplastic Elastomers under Uniaxial and Equi-Biaxial Deformation Modes. <i>Macromolecules</i> , 2020 , 53, 8901-8909	5.5	11
623	Hydration State Variation of Polyzwitterion Brushes through Interplay with Ions. <i>Langmuir</i> , 2020 , 36, 9015-9024	4	12
622	Highly Dielectric Rubber Bearing Cyanoethyl Group with Various Side-Chain Structures. <i>Macromolecules</i> , 2020 , 53, 10128-10136	5.5	4
621	Application of Synchrotron Radiation X-ray Scattering and Spectroscopy to Soft Matter. <i>Polymers</i> , 2020 , 12,	4.5	7
620	Anionic Polymerization of Methacrylate-functionalized Ionic Monomers in Ionic Liquid. <i>Chemistry Letters</i> , 2020 , 49, 1459-1461	1.7	0
619	Synthesis and Hydration Behavior of a Hydrolysis-Resistant Quasi-Choline Phosphate Zwitterionic Polymer. <i>Biomacromolecules</i> , 2020 , 21, 2125-2131	6.9	6
618	Effect of Ion-Pair Interaction Energy and Alkyl Chain Length on the Dispersibility of Carbon Nanotubes in a Conductive Composite Elastomer. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 1773-1780	4.3	
617	Investigation of Deformation Behavior of Thiourethane Elastomers Using In Situ X-ray Scattering, Diffraction, and Absorption Methods. <i>Macromolecules</i> , 2019 , 52, 6825-6833	5.5	19
616	Direct visualization of the molecular orientation and microstructure of glassy transparent polymers after the scratch test based on optical microscopy and X-ray scattering. <i>Polymer</i> , 2019 , 181, 121773	3.9	5
615	Incorporation of Benzoxazine Pendants in Polymer Chains: A Simple Approach to Add-Up Multi-Responsive Functions. <i>Macromolecular Chemistry and Physics</i> , 2019 , 220, 1800526	2.6	0
614	Preparation and characterization of boronic acid- functionalized halloysite nanotube/poly(vinyl alcohol) nanocomposites. <i>Polymer</i> , 2019 , 178, 121581	3.9	6
613	High-Performance Interface 2019 , 167-180		
612	X-Ray and Neutron Reflectivity and Grazing Incidence X-Ray Diffraction 2019 , 129-139		0
611	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	16.4	92
610	Direct Evaluation of Local Dynamic Viscoelastic Properties of Isotactic Polypropylene Films Based on a Dynamic eBeam X-ray Diffraction Method. <i>ACS Macro Letters</i> , 2019 , 8, 218-222	6.6	7
609	Organic-Inorganic Hybrid Films Fabricated from Cellulose Fibers and Imogolite Nanotubes. <i>Biomacromolecules</i> , 2019 , 20, 3566-3574	6.9	9
608	Preface to the Interfaces and Biology 1: Mechanobiology Special Issue. <i>Langmuir</i> , 2019 , 35, 7333-7334	4	
607	Pre-Vulcanization of Large and Small Natural Rubber Latex Particles: Film-Forming Behavior and Mechanical Properties. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1900283	3.9	3

606	Nanocomposite Elastomers Composed of Silica Nanoparticles Grafted with a Comb-Shaped Copolymer Brush. <i>Macromolecules</i> , 2019 , 52, 5963-5970	5.5	14
605	Advantages of bulge testing and rupture mechanism of glassy polymer films. <i>Polymer</i> , 2019 , 179, 121633-9	3.9	8
604	Elevation of the flow temperature of gels formed by nano fibers of Poly(L-lactic acid) by surface crystallization induced by block copolymers. <i>Polymer</i> , 2019 , 181, 121768	3.9	1
603	Molecular aggregation structure and water repellency of Poly(perfluorohexyl acrylate) with a carbamate linkage. <i>Polymer</i> , 2019 , 182, 121846	3.9	4
602	Preface to The 15th Pacific Polymer Conference (PPC-15) Virtual Issue. <i>Langmuir</i> , 2019 , 35, 4413-4414	4	
601	Influence of water evaporation/absorption on the stability of glycerol-water marbles.. <i>RSC Advances</i> , 2019 , 9, 34465-34471	3.7	10
600	Enhanced pool boiling of ethanol on wettability-patterned surfaces. <i>Applied Thermal Engineering</i> , 2019 , 149, 325-331	5.8	33
599	Microphase-separated structure and mechanical properties of cycloaliphatic diisocyanate-based thiourethane elastomers. <i>Polymer Journal</i> , 2019 , 51, 265-273	2.7	16
598	Ion-Specific Hydration States of Zwitterionic Poly(sulfobetaine methacrylate) Brushes in Aqueous Solutions. <i>Langmuir</i> , 2019 , 35, 1583-1589	4	17
597	Smectic ordered structure and water repellency of a poly(fluoroalkyl acrylate) with a carbamate linker. <i>Polymer Journal</i> , 2019 , 51, 189-198	2.7	7
596	Effect of Blend Composition on Scratch Behavior of Polystyrene/Poly(2,6-dimethyl-1,4-phenyleneoxide) Blends. <i>Macromolecular Chemistry and Physics</i> , 2019 , 220, 1800371	2.6	7
595	Lamellar orientation in isotactic polypropylene thin films: a complement study via grazing incidence X-ray diffraction and surface/cross-sectional imaging. <i>Polymer Journal</i> , 2019 , 51, 183-188	2.7	6
594	Preparation of High-Density Polymer Brushes with a Multihelical Structure. <i>Langmuir</i> , 2018 , 34, 3283-3288	4	8
593	Polymer coating glass to improve the protein antifouling effect. <i>Polymer Journal</i> , 2018 , 50, 381-388	2.7	9
592	Effect of Polycaprolactone Crystalline Block on Surface Reorganization of a Phosphorylcholine-based Amphiphilic Block Copolymer Surface Modifier. <i>Chemistry Letters</i> , 2018 , 47, 247-250	1.7	2
591	Halloysite Nanotubes: Green Nanomaterial for Functional Organic-Inorganic Nanohybrids. <i>Chemical Record</i> , 2018 , 18, 986-999	6.6	48
590	Design of High-Density Helical Polymer Brush on Silica Nanoparticles for the Size Recognition of Fullerene Molecules. <i>ACS Macro Letters</i> , 2018 , 7, 148-152	6.6	14
589	Counteranion-Specific Hydration States of Cationic Polyelectrolyte Brushes. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 5268-5275	3.9	16

588	In situ synchrotron radiation X-ray diffraction studies on molecular aggregation structure of nylon 12 films during bulge testing. <i>Soft Matter</i> , 2018 , 14, 1659-1664	3.6	9
587	Electrospinning of non-ionic cellulose ethers/polyvinyl alcohol nanofibers: Characterization and applications. <i>Carbohydrate Polymers</i> , 2018 , 181, 175-182	10.3	52
586	Direct polymer brush grafting to polymer fibers and films by surface-initiated polymerization. <i>Polymer Journal</i> , 2018 , 50, 101-108	2.7	14
585	Synthesis of a bio-inspired catechol/phosphorylcholine surface modifier and characterization of its surface properties. <i>Journal of Polymer Science Part A</i> , 2018 , 56, 38-49	2.5	4
584	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	29.6	55
583	Searching for a Stable High-Performance Magnetorheological Suspension. <i>Advanced Materials</i> , 2018 , 30, e1704769	24	60
582	Structure Analyses of Charged Polymer Brush Films/Water Interface by Neutron Reflectivity. <i>Hamon</i> , 2018 , 28, 178-182	0	
581	Self-healing cellulose nanocrystal-stabilized droplets for water collection under oil. <i>Soft Matter</i> , 2018 , 14, 9308-9311	3.6	9
580	Separation of Endo-cyclic 2-Methacryloyloxyethyl Choline Phosphate by Anion Exchange Approach. <i>Chemistry Letters</i> , 2018 , 47, 1509-1511	1.7	7
579	Anti-(bio)Fouling. <i>Biologically-inspired Systems</i> , 2018 , 239-257	0.7	1
578	Direct Hydrophilic Modification of Polymer Surfaces via Surface-Initiated ATRP. <i>ACS Symposium Series</i> , 2018 , 157-168	0.4	1
577	Organic-Inorganic Hybrid Thin Films Fabricated by Layer-by-Layer Assembly of the Phosphorylated Cellulose Nanocrystal and Imogolite Nanotubes. <i>Langmuir</i> , 2018 , 34, 13361-13367	4	14
576	Investigating the Mechanistic and Structural Role of Lipid Hydrolysis in the Stabilization of Ammonia-Preserved Hevea Rubber Latex. <i>Langmuir</i> , 2018 , 34, 12730-12738	4	19
575	Preparation of polymer brushes with well-controlled stereoregularity and evaluation of their functional properties. <i>Polymer Journal</i> , 2018 , 50, 931-939	2.7	2
574	Depth-Resolved Characterization of Perylenediimide Side-Chain Polymer Thin Film Structure Using Grazing-Incidence Wide-Angle X-ray Diffraction with Tender X-rays. <i>Langmuir</i> , 2018 , 34, 8516-8521	4	7
573	Superior Properties of Polyurethane Elastomers Synthesized with Aliphatic Diisocyanate Bearing a Symmetric Structure. <i>Macromolecules</i> , 2017 , 50, 1008-1015	5.5	50
572	Strain-induced molecular aggregation states around a crack tip in a segmented polyurethane film under uniaxial stretching. <i>Polymer</i> , 2017 , 116, 458-465	3.9	7
571	Versatile anti-fouling surface design through nature-inspired approaches. <i>Green Materials</i> , 2017 , 5, 14-21	3.2	2

570	Effect of molecular mobility of pre-ordered phase on crystallization in microphase-separated lamellar morphology of strongly segregated crystalline-crystalline diblock copolymers. <i>Polymer</i> , 2017 , 116, 403-411	3.9	6
569	Zwitterionic polymer brush grafting on anodic aluminum oxide membranes by surface-initiated atom transfer radical polymerization. <i>Polymer Chemistry</i> , 2017 , 8, 2309-2316	4.9	21
568	Enhancement of the Hydrogen-Bonding Network of Water Confined in a Polyelectrolyte Brush. <i>Langmuir</i> , 2017 , 33, 3954-3959	4	27
567	Mechanically Enhanced Hyaluronic Acid Hybrid Hydrogels with Halloysite Nanotubes. <i>Chemistry Letters</i> , 2017 , 46, 1217-1219	1.7	3
566	Orientation and crystallization of regioregular poly(3-dodecylthiophene) in alumina nanopores. <i>Soft Matter</i> , 2017 , 13, 4661-4666	3.6	10
565	Aqueous lubrication of poly(etheretherketone) via surface-initiated polymerization of electrolyte monomers. <i>Polymer</i> , 2017 , 116, 549-555	3.9	16
564	Dynamic covalent diarylbibenzofuranone-modified nanocellulose: mechanochromic behaviour and application in self-healing polymer composites. <i>Polymer Chemistry</i> , 2017 , 8, 2115-2122	4.9	62
563	Ion-Specific Modulation of Interfacial Interaction Potentials between Solid Substrates and Cell-Sized Particles Mediated via Zwitterionic, Super-Hydrophilic Poly(sulfobetaine) Brushes. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 1396-1404	3.4	14
562	Effect of chain architecture of polyol with secondary hydroxyl group on aggregation structure and mechanical properties of polyurethane elastomer. <i>Polymer</i> , 2017 , 116, 423-428	3.9	27
561	Dimensional Characterizations from Rod Stars to Brushes of Polymers with a Low Degree of Polymerization. <i>Macromolecules</i> , 2017 , 50, 324-331	5.5	9
560	Elastomers built up through the π -stacking association of polycyclic planar aromatic diimides. <i>RSC Advances</i> , 2017 , 7, 46195-46200	3.7	5
559	Superamphiphobic Coatings from Combination of a Biomimetic Catechol-Bearing Fluoropolymer and Halloysite Nanotubes. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700907	4.6	20
558	High Performance Polyurethane Elastomers Using New Cyclaliphatic Diisocyanate. <i>Nihon Reoroji Gakkaishi</i> , 2017 , 45, 261-268	0.8	2
557	Control of the primary and secondary structure of polymer brushes by surface-initiated living/controlled polymerization. <i>Polymer Chemistry</i> , 2017 , 8, 5456-5468	4.9	14
556	Effect of Charged Group Spacer Length on Hydration State in Zwitterionic Poly(sulfobetaine) Brushes. <i>Langmuir</i> , 2017 , 33, 8404-8412	4	42
555	Molecular Aggregation States and Physical Properties of Syndiotactic Polystyrene/Hydrogenated Polyisoprene Multiblock Copolymers with Crystalline Hard Domain. <i>Macromolecules</i> , 2017 , 50, 6184-6191	5.5	12
554	Multifunctional nitrogen-doped carbon dots from maleic anhydride and tetraethylenepentamine via pyrolysis for sensing, adsorbance, and imaging applications. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 1026-1033	8.5	32
553	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	1.6	42

552	Interphase Structure of Oxidized Carbon Fiber Reinforced Polyamide 6 Revealed by Synchrotron Microbeam X-ray Diffraction and Infrared-Spectroscopy. <i>Kobunshi Ronbunshu</i> , 2017 , 74, 91-98	0	
551	Liquid Marbles from Polymer Particles: Formation Mechanism, Physical Characterizations, and Applications. <i>Kobunshi Ronbunshu</i> , 2017 , 74, 26-35	0	2
550	Depth-Dependent Structural Analyses in PS-b-P2VP Thin Films as Revealed by Grazing Incidence Small Angle Scattering in the Tender Energy Region. <i>Kobunshi Ronbunshu</i> , 2017 , 74, 109-113	0	3
549	Radical crossover reactions of alkoxyamine-based dynamic covalent polymer brushes on nanoparticles and the effect on their dispersibility. <i>Polymer Journal</i> , 2016 , 48, 147-155	2.7	8
548	Direct surface modification of poly(VDF-co-TrFE) films by surface-initiated ATRP without pretreatment. <i>RSC Advances</i> , 2016 , 6, 86373-86384	3.7	12
547	Autonomously Substitutable Organosilane Thin Films Based on Dynamic Covalent Diarylbibenzofuranone Units. <i>Chemistry Letters</i> , 2016 , 45, 36-38	1.7	8
546	Direct Characterization of In-Plane Phase Separation in Polystyrene Brush/Cyclohexane System. <i>Macromolecules</i> , 2016 , 49, 4862-4866	5.5	13
545	Effect of molecular weight on microcrystalline structure formation in polymer with perylenediimide side chain. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 2275-2283	2.6	6
544	Repeatable mechanochemical activation of dynamic covalent bonds in thermoplastic elastomers. <i>Chemical Communications</i> , 2016 , 52, 10482-5	5.8	64
543	Long-Range Hydrophilic Attraction between Water and Polyelectrolyte Surfaces in Oil. <i>Angewandte Chemie</i> , 2016 , 128, 15241-15245	3.6	2
542	Long-Range Hydrophilic Attraction between Water and Polyelectrolyte Surfaces in Oil. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15017-15021	16.4	74
541	Real-time displacement measurement system using phase-shifted optical pulse interferometry: Application to a seismic observation system. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 022701	1.4	1
540	Preparation of Novel Functional Interface using Polymethyl Methacrylate (PMMA) Brush with Well-Controlled Stereoregularity. <i>Journal of the Adhesion Society of Japan</i> , 2016 , 52, 16-21	0.1	
539	Swollen structure and electrostatic interactions of polyelectrolyte brush in aqueous solution. <i>Polymer</i> , 2016 , 98, 464-469	3.9	14
538	Interphase crystal structure of polyamide 6 on carbon materials revealed by grazing incidence X-ray diffraction with synchrotron radiation. <i>Polymer</i> , 2016 , 97, 174-178	3.9	8
537	Direct observation of polyelectrolyte brushes under wet and dry conditions by atmospheric scanning electron microscopy. <i>Microscopy (Oxford, England)</i> , 2016 , 65, 139-44	1.3	3
536	An effect of surface segregation of polyhedral oligomeric silsesquioxanes on surface physical properties of acrylic hard coating materials. <i>Polymer</i> , 2016 , 84, 81-88	3.9	13
535	Anti-fouling behavior of polymer brush immobilized surfaces. <i>Polymer Journal</i> , 2016 , 48, 325-331	2.7	99

534	Superhydrophobic magnetic poly(DOPAm-co-PFOEA)/Fe ₃ O ₄ /cellulose microspheres for stable liquid marbles. <i>Chemical Communications</i> , 2016 , 52, 1895-8	5.8	40
533	Bringing movable and deployable networks to disaster areas: development and field test of MDRU. <i>IEEE Network</i> , 2016 , 30, 86-91	11.4	46
532	Interface manipulated two-phase nanostructure in a triblock terpolymer with a short middle segment. <i>Polymer Journal</i> , 2016 , 48, 533-538	2.7	3
531	Precise Synthesis of Poly(methyl methacrylate) Brush with Well-Controlled Stereoregularity Using a Surface-Initiated Living Anionic Polymerization Method. <i>Macromolecules</i> , 2016 , 49, 2071-2076	5.5	23
530	Tuning Surface Wettability at the Submicron-Scale: Effect of Focused Ion Beam Irradiation on a Self-Assembled Monolayer. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 274-280	3.8	14
529	In situ ultra-small-angle X-ray scattering study under uniaxial stretching of colloidal crystals prepared by silica nanoparticles bearing hydrogen-bonding polymer grafts. <i>IUCrJ</i> , 2016 , 3, 211-8	4.7	14
528	CHAPTER 4: Design and Physicochemical Characterization of Novel Organic/Inorganic Hybrids from Natural Aluminosilicate Nanotubes. <i>RSC Smart Materials</i> , 2016 , 131-156	0.6	5
527	Supramolecular network polymers formed from polyamidine and carboxy-terminated telechelic poly(n-butyl acrylate) via amidinium-carboxylate salt bridges. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 2148-2155	2.5	5
526	Tribute to Toyoki Kunitake. <i>Langmuir</i> , 2016 , 32, 12231-12241	4	2
525	Surface Modification of Non-Woven Electrospun Fine Fiber Mats through Surface-Initiated Atom Transfer Radical Polymerization. <i>Kobunshi Ronbunshu</i> , 2016 , 73, 225-232	0	
524	Solvent free oxidative coupling polymerization of 3-hexylthiophene (3HT) in the presence of FeCl ₃ particles. <i>RSC Advances</i> , 2016 , 6, 111993-111996	3.7	13
523	Tribological properties of cross-linked oleophilic polymer brushes on diamond-like carbon films. <i>Polymer</i> , 2016 , 89, 128-134	3.9	15
522	Interphase structure of carbon fiber reinforced polyamide 6 revealed by microbeam X-ray diffraction with synchrotron radiation. <i>Polymer</i> , 2016 , 89, 154-158	3.9	16
521	Biobased Polymer Coating Using Catechol Derivative Urushiol. <i>Langmuir</i> , 2016 , 32, 4619-23	4	35
520	Crystallization-induced structure fluctuation of crystallized microdomain structure composed of strongly segregated crystalline-crystalline diblock copolymers. <i>Polymer</i> , 2016 , 102, 256-265	3.9	7
519	Imogolite Polymer Nanocomposites. <i>Developments in Clay Science</i> , 2016 , 7, 628-671		3
518	Observation of constraint surface dynamics of polystyrene thin films by functionalization of a silsesquioxane cage. <i>Polymer</i> , 2016 , 105, 487-499	3.9	5
517	Fully Liquid-Crystalline ABA Triblock Copolymer of Fluorinated Side-Chain Liquid-Crystalline A Block and Main-Chain Liquid-Crystalline B Block: Higher Order Structure in Bulk and Thin Film States. <i>Macromolecules</i> , 2016 , 49, 6061-6074	5.5	11

516	Design and characterization of hybrid hydrogels composed of imogolite fibrous nanotubular clay and hyaluronic acid. <i>Polymer</i> , 2016 , 100, 238-243	3.9	12
515	Effect of nanoparticle SiO ₂ grafted poly (methyl methacrylate) on poly(L-lactic) acid crystallization. <i>Polymer Bulletin</i> , 2015 , 72, 1247-1263	2.4	5
514	Molecular reorientation of polyimide film induced by thermal nanoimprint lithography and liquid crystals alignment on it. <i>Polymer</i> , 2015 , 72, 113-117	3.9	7
513	Molecular aggregation states and wetting behavior of a poly{2-(perfluorooctyl)ethyl acrylate} brush-immobilized nano-imprinted surface. <i>Polymer</i> , 2015 , 69, 10-16	3.9	15
512	Mixing of immiscible polymers using nanoporous coordination templates. <i>Nature Communications</i> , 2015 , 6, 7473	17.4	50
511	Structural Analysis of Microphase Separated Interface in an ABC-Type Triblock Terpolymer by Combining Methods of Synchrotron-Radiation Grazing Incidence Small-Angle X-ray Scattering and Electron Microtomography. <i>Macromolecules</i> , 2015 , 48, 2697-2705	5.5	17
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