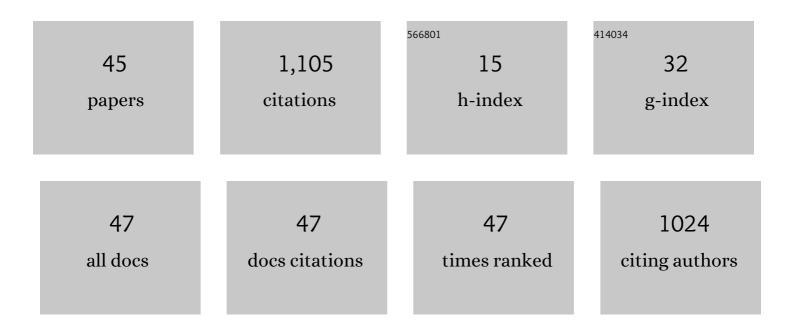
Mikihiro Hayashi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Rheological Characteristics of Cross-Linked Materials with Associative Bond Exchange Mechanisms. Nihon Reoroji Gakkaishi, 2022, 50, 15-20.	0.2	12
2	Correlation between Self-Assembled Nanostructures and Bond Exchange Properties for Polyacrylate-Based Vitrimer-like Materials with a Trans- <i>N</i> -Alkylation Bond Exchange Mechanism. Macromolecules, 2022, 55, 1771-1782.	2.2	20
3	Exploring the effects of bound rubber phase on the physical properties of nano-silica composites with a vitrimer-like bond exchangeable matrix. Polymer Journal, 2022, 54, 1307-1319.	1.3	7
4	Design and basic properties of polyester vitrimers combined with an ionomer concept. Molecular Systems Design and Engineering, 2021, 6, 234-241.	1.7	4
5	Simple preparation, properties, and functions of vitrimer-like polyacrylate elastomers using trans-N-alkylation bond exchange. Polymer Journal, 2021, 53, 835-840.	1.3	13
6	Enhancement of Mechanical Properties of ABA Triblock Copolymer-Based Elastomers by Incorporating Partial Cross-Links on the Soft Bridge Chains. ACS Applied Polymer Materials, 2021, 3, 1271-1275.	2.0	7
7	Versatile functionalization of polymeric soft materials by implanting various types of dynamic cross-links. Polymer Journal, 2021, 53, 779-788.	1.3	8
8	Importance of interfacial mixed layer to determine the middle block Tg in lamellar structures of uncross-linked and cross-linked hard-b-soft-b-hard triblock copolymers. Polymer, 2021, 227, 123868.	1.8	3
9	Achievement of a Highly Rapid Bond Exchange for Self-Catalyzed Polyester Vitrimers by Incorporating Tertiary Amino Groups on the Network Strands. ACS Applied Polymer Materials, 2021, 3, 4424-4429.	2.0	16
10	Versatile tensile and fracture behaviors of dual cross-linked elastomers by postpreparation photo tuning of local cross-link density. Polymer, 2021, 230, 124089.	1.8	3
11	Oneâ€Pot Synthesis of Dual Supramolecular Associative PMMAâ€Based Copolymers and the Precise Thermal Property Tuning. Macromolecular Chemistry and Physics, 2021, 222, 2000302.	1.1	4
12	Extraction of intrinsic effects of glassy domain cross-linking on the tensile properties of ABA block copolymer elastomers via photo cross-linking approach. Polymer, 2021, 234, 124235.	1.8	4
13	Advantage of graft architecture with a flexible main chain for implantation of ductile nature into brittle amorphous acrylic glass. Polymer, 2021, 236, 124316.	1.8	5
14	Fair Investigation of Cross-Link Density Effects on the Bond-Exchange Properties for Trans-Esterification-Based Vitrimers with Identical Concentrations of Reactive Groups. Macromolecules, 2020, 53, 182-189.	2.2	96
15	Direct observation of the formation of a cyclic poly(alkyl sorbate) via <scp>chainâ€growth</scp> polymerization by an <scp><i>N</i>â€heterocyclic</scp> carbene initiator and <scp>ringâ€closing</scp> without extreme dilution. Journal of Polymer Science, 2020, 58, 2936-2942.	2.0	15
16	Long-range lamellar formation in blends of divided-lamellar-forming liquid crystal block copolymers with liquid crystal homopolymers. Polymer, 2020, 211, 123086.	1.8	3
17	Dominant Factor of Bond-Exchange Rate for Catalyst-Free Polyester Vitrimers with Internal Tertiary Amine Moieties. ACS Applied Polymer Materials, 2020, 2, 5365-5370.	2.0	32
18	Deformation of Hierarchical Lamellar Structure Formed by a Liquid Crystalline Block Copolymer. Macromolecular Chemistry and Physics, 2020, 221, 2000042.	1.1	4

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#	Article	IF	CITATIONS
19	Implantation of Recyclability and Healability into Cross-Linked Commercial Polymers by Applying the Vitrimer Concept. Polymers, 2020, 12, 1322.	2.0	73
20	Quick and Efficient Thermal Stability Enhancement of Microâ€Phase Separated Structure Formed from ABA Triblock Copolymers by Photo Cross‣inking Approach. ChemistrySelect, 2020, 5, 2842-2847.	0.7	4
21	One-pot synthesis of dual supramolecular associative copolymers by using a novel acrylate monomer bearing urethane and pendant pyridine groups. Polymer Chemistry, 2020, 11, 2318-2324.	1.9	4
22	Functionalization of triblock copolymer elastomers by cross-linking the end blocks <i>via trans-N</i> -alkylation-based exchangeable bonds. Polymer Chemistry, 2020, 11, 1713-1719.	1.9	35
23	Extraction of intrinsic cross-linking effects of A hard domains on segmental motion of B soft block for ABA triblock copolymer-based elastomers by utilizing photo cross-linking. Polymer, 2020, 192, 122343.	1.8	8
24	Glass transition analysis of model metallosupramolecular polyesters bearing pendant pyridine ligands with a controlled ligand–ligand distance. Polymer Journal, 2020, 52, 505-514.	1.3	4
25	Experimental and Theoretical Investigation of Intrinsic Pyridine Isomer Effects on Physical Property Tuning of Metallo Supramolecular Polymers Bearing Multiple Pyridine Ligands. ACS Applied Polymer Materials, 2020, 2, 2327-2337.	2.0	5
26	Preparation of Colorless, Highly Transparent, Epoxy-Based Vitrimers by the Thiol-Epoxy Click Reaction and Evaluation of Their Shape-Memory Properties. ACS Applied Polymer Materials, 2020, 2, 2452-2457.	2.0	30
27	Conference Report for the 14 th International Workshop for East Asian Young Rheologists (IWEAYR-14) in Nagoya. Nihon Reoroji Gakkaishi, 2019, 47, 123-125.	0.2	Ο
28	Lamellar structures in blends of amorphous–block–main-chain liquid crystal–block–amorphous copolymers and amorphous homopolymers: Effects of the amorphous homopolymer molecular weight. Polymer, 2019, 178, 121555.	1.8	7
29	Preparation of All Polyesterâ€Based Semiâ€IPN Elastomers Containing Selfâ€Associative or Nonâ€Associative Guest Chains via Postâ€Blending Crossâ€Linking. Macromolecular Materials and Engineering, 2019, 304, 1900147.	1.7	8
30	Hydrophobicity enhancement of polyurethanes by attaching fluorinated end blocks via ATRP and correlation between surface properties and self-assembly nature. Polymer, 2019, 172, 312-321.	1.8	8
31	Synthesis of amorphous low <i>T</i> _g polyesters with multiple COOH side groups and their utilization for elastomeric vitrimers based on post-polymerization cross-linking. Polymer Chemistry, 2019, 10, 2047-2056.	1.9	81
32	Investigation of electrophoretic deposition behavior of fluorinated poly(methacrylate)s: A new paradigm of electrophoretic non-ionic polymers. Polymer, 2019, 167, 54-59.	1.8	3
33	Synthesis of sulfone-containing non-ionic polyurethanes for electrophoretic deposition coating. Polymer Journal, 2018, 50, 959-966.	1.3	5
34	Simple Strategy for Dual Control of Crystallization and Thermal Property on Polyesters by Dispersing Metal Salts Via Multiple Coordination Bonds. Macromolecular Chemistry and Physics, 2018, 219, 1800127.	1.1	10
35	Thermal stability enhancement of hydrogen bonded semicrystalline thermoplastics achieved by combination of aramide chemistry and supramolecular chemistry. Polymer Chemistry, 2017, 8, 461-471.	1.9	22
36	<i>N</i> -Heterocyclic Carbene Initiated Anionic Polymerization of (<i>E</i> , <i>E</i>)-Methyl Sorbate and Subsequent Ring-Closing to Cyclic Poly(alkyl sorbate). Journal of the American Chemical Society, 2017, 139, 15005-15012.	6.6	78

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37	Highly Extensible Supramolecular Elastomers with Large Stress Generation Capability Originating from Multiple Hydrogen Bonds on the Long Soft Network Strands. Macromolecular Rapid Communications, 2016, 37, 678-684.	2.0	51
38	Macromol. Rapid Commun. 8/2016. Macromolecular Rapid Communications, 2016, 37, 732-732.	2.0	0
39	Mechanical Property Enhancement of ABA Block Copolymer-Based Elastomers by Incorporating Transient Cross-Links into Soft Middle Block. Macromolecules, 2015, 48, 421-431.	2.2	122
40	Preparation and Viscoelasticity of Hydrogen Bonded Supramolecular Ion Gels Composed of ABA Triblock Copolymer and C Homopolymer in an Ionic Liquid. Nihon Reoroji Gakkaishi, 2014, 42, 135-141.	0.2	2
41	Viscoelastic properties of supramolecular soft materials with transient polymer network. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 755-764.	2.4	30
42	Thermoreversible Supramolecular Polymer Gels via Metal–Ligand Coordination in an Ionic Liquid. Macromolecules, 2013, 46, 8304-8310.	2.2	66
43	Design and properties of supramolecular polymer gels. Soft Matter, 2012, 8, 6416.	1.2	151
44	Simple preparation of supramolecular polymer gels via hydrogen bonding by blending two liquid polymers. Soft Matter, 2011, 7, 1667.	1.2	39
45	Potential of Graftmpolymers Bearing Inner Molten Block and Outer Glassy Block at the Graft Chains for Thermoplastic Elastomers with Enhanced Properties. Macromolecular Chemistry and Physics, 0, , 2200073.	1.1	3