

Tomoyuki Ohishi

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,292
citations

393982

19
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360668

35
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docs citations

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times ranked

1220
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | Mechanochromic Dynamic Covalent Elastomers: Quantitative Stress Evaluation and Autonomous Recovery. <i>ACS Macro Letters</i> , 2015, 4, 1307-1311. | 2.3 | 142 |
| 3 | Degradable epoxy resins prepared from diepoxide monomer with dynamic covalent disulfide linkage. <i>Polymer</i> , 2016, 82, 319-326. | 1.8 | 130 |
| 4 | Enhancing Mechanochemical Activation in the Bulk State by Designing Polymer Architectures. <i>ACS Macro Letters</i> , 2016, 5, 1124-1127. | 2.3 | 92 |
| 5 | 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 |
| 6 | Repeatable mechanochemical activation of dynamic covalent bonds in thermoplastic elastomers. <i>Chemical Communications</i> , 2016, 52, 10482-10485. | 2.2 | 76 |
| 7 | Biobased Polymer Coating Using Catechol Derivative Urushiol. <i>Langmuir</i> , 2016, 32, 4619-4623. | 1.6 | 45 |
| 8 | A variety of poly(m-benzamide)s with low polydispersities from inductive effect-assisted chain-growth polycondensation. <i>Journal of Polymer Science Part A</i> , 2006, 44, 4990-5003. | 2.5 | 44 |
| 9 | Three Mechanisms of Asymmetric Polymerization of Phenylacetylenes Having an α -Amino Ether Residue and Two Hydroxy Groups. <i>Macromolecules</i> , 2010, 43, 8353-8362. | 2.2 | 37 |
| 10 | Synthesis of polyethylene/polyester copolymers through main chain exchange reactions via olefin metathesis. <i>Polymer</i> , 2014, 55, 6245-6251. | 1.8 | 35 |
| 11 | Insertion Metathesis Depolymerization of Aromatic Disulfide-containing Dynamic Covalent Polymers under Weak Intensity Photoirradiation. <i>Chemistry Letters</i> , 2013, 42, 1346-1348. | 0.7 | 34 |
| 12 | Metathesis-driven scrambling reactions between polybutadiene or naturally occurring polyisoprene and olefin-containing polyurethane. <i>Polymer</i> , 2015, 78, 145-153. | 1.8 | 34 |
| 13 | Dynamic covalent polymer brushes: reversible surface modification of reactive polymer brushes with alkoxyamine-based dynamic covalent bonds. <i>Polymer Chemistry</i> , 2012, 3, 3077. | 1.9 | 31 |
| 14 | Enhancement of the stimuli-responsiveness and photo-stability of dynamic diselenide bonds and diselenide-containing polymers by neighboring aromatic groups. <i>Polymer</i> , 2018, 154, 281-290. | 1.8 | 30 |
| 15 | Novel Water-Soluble Poly(m-benzamide)s: Precision Synthesis and Thermosensitivity in Aqueous Solution. <i>Macromolecular Rapid Communications</i> , 2006, 27, 716-721. | 2.0 | 29 |
| 16 | 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. | 2.2 | 27 |
| 17 | Synthesis via Chain-Growth Condensation Polymerization and Gelating Properties of a Variety of Block Copolymers of Meta- and Para-Substituted Aromatic Polyamides. <i>Macromolecules</i> , 2008, 41, 9683-9691. | 2.2 | 21 |
| 18 | Synthesis of Core Cross-Linked Star Polymers Consisting of Well-Defined Aromatic Polyamide Arms. <i>Macromolecules</i> , 2010, 43, 3206-3214. | 2.2 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Helix-sense-selective Polymerization of Substituted Acetylenes by Using an Isolated Rh Chiral Initiator with an Amino Acid Ligand. <i>Chemistry Letters</i> , 2013, 42, 430-432. | 0.7 | 19 |
| 20 | Redox Properties of Copper(I) Complex Bearing 4,7-Diphenyl-2,9-dimethyl-1,10-phenanthroline and 1,4-Bis(diphenylphosphino)butane Ligands and Effects of Light in the Presence of Chloroform. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 286-288. | 2.0 | 17 |
| 21 | Reversible cross-linking reactions of alkoxyamine-appended polymers under bulk conditions for transition between flow and rubber-like states. <i>Polymer</i> , 2014, 55, 1474-1480. | 1.8 | 14 |
| 22 | Synthesis of linear and cyclic aromatic peptides with fixed conformation owing to intramolecular hydrogen bonding by condensation polymerization method. <i>Tetrahedron Letters</i> , 2011, 52, 7067-7070. | 0.7 | 13 |
| 23 | Radical crossover reactions of a dynamic covalent polymer brush for reversible hydrophilicity control. <i>Polymer</i> , 2014, 55, 4586-4592. | 1.8 | 12 |
| 24 | Precise characterization of outermost surface of crystalline/crystalline diblock copolymer thin films using synchrotron radiation soft X-ray photoelectron spectroscopy. <i>Polymer Journal</i> , 2014, 46, 637-640. | 1.3 | 11 |
| 25 | X-ray absorption fine structure study on the role of solvent on polymerization of 3-hexylthiophene with solid FeCl ₃ particles. <i>Journal of Polymer Science Part A</i> , 2015, 53, 2075-2078. | 2.5 | 11 |
| 26 | 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. | 1.3 | 9 |
| 27 | Autonomously Substitutable Organosilane Thin Films Based on Dynamic Covalent Diarylbibenzofuranone Units. <i>Chemistry Letters</i> , 2016, 45, 36-38. | 0.7 | 8 |
| 28 | Structural reorganization and crack-healing properties of hydrogels based on dynamic diselenide linkages. <i>Science and Technology of Advanced Materials</i> , 2020, 21, 450-460. | 2.8 | 8 |
| 29 | Plasticizer-Promoted Thermal Crosslinking of a Dynamic Covalent Polymer with Complementarily Reactive Alkoxyamine Units in the Side Chain under Bulk Conditions. <i>Bulletin of the Chemical Society of Japan</i> , 2014, 87, 1023-1025. | 2.0 | 6 |
| 30 | Aggregation, gelation instability, and morphologies of diblock copolymers consisting of poly(<i>p</i> -benzamide) and poly(<i>m</i> -benzamide). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1732-1739. | 2.4 | 4 |
| 31 | Restoration of Color Caused by Redox Reactions of Copper(I) Complexes Bearing 2,2'-Bipyridine and (<i>RBulletin of the Chemical Society of Japan, 2017, 90, 798-800. | 2.0 | 2 |
| 32 | Synthesis and structural analysis of conjugated benzoxazaborine derivatives. <i>Tetrahedron Letters</i> , 2018, 59, 4153-4157. | 0.7 | 2 |
| 33 | Synthesis and characterization of cyclobutenedione-bithiophene- π -conjugated polymers: acetal-protecting strategy for Kumada-Tamao-Corriu coupling polymerization between aryl bromide and Grignard reagents. <i>RSC Advances</i> , 2019, 9, 40863-40872. | 1.7 | 2 |
| 34 | Synthesis of a coronene analogue containing an amide bond by Pd-mediated intramolecular C-C bond formation of 2-halogenated 4-(alkylamino)benzoic acid cyclic trimer. <i>Tetrahedron Letters</i> , 2021, 62, 152704. | 0.7 | 2 |
| 35 | PET (Poly(ethylene terephthalate)) and PTT (Poly(trimethylene terephthalate))., 2014, , 1-5. | | 1 |