

Tomomichi Itoh

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70
papers

1,212
citations

20
h-index

31
g-index

72
ext. papers

1,359
ext. citations

3.9
avg, IF

4.06
L-index

#	Paper	IF	Citations
70	Interplay between Smectic Ordering and Microphase Separation in a Series of Side-Group Liquid-Crystal Block Copolymers. <i>Macromolecules</i> , 2004 , 37, 4798-4807	5.5	110
69	Ordering on multiple lengthscales in a series of side group liquid crystal block copolymers containing a cholesteryl-based mesogen. <i>Soft Matter</i> , 2005 , 1, 355-363	3.6	69
68	First Synthesis of Poly(acylmethylene)s via Palladium-Mediated Polymerization of Diazoketones. <i>Macromolecules</i> , 2005 , 38, 2101-2108	5.5	60
67	(N-Heterocyclic Carbene)Pd/Borate Initiating Systems for Polymerization of Ethyl Diazoacetate. <i>Macromolecules</i> , 2009 , 42, 8608-8610	5.5	50
66	Synthesis of Side-Chain Liquid Crystalline Homopolymers and Block Copolymers with Cyanobiphenyl Moieties as the Mesogen by Living Anionic Polymerization and Their Thermotropic Phase Behavior. <i>Macromolecules</i> , 1999 , 32, 282-289	5.5	46
65	Three-Component Polycondensation of Bis(diazoketone) with Dicarboxylic Acids and Cyclic Ethers: Synthesis of New Types of Poly(ester ether ketone)s. <i>Macromolecules</i> , 2011 , 44, 5955-5960	5.5	42
64	Polymerization of Various Alkyl Diazoacetates Initiated with (N-Heterocyclic Carbene)Pd/Borate Systems. <i>Macromolecules</i> , 2011 , 44, 3287-3292	5.5	41
63	Ionic Conductivity of Cross-linked Polymethacrylate Derivatives/Cyclophosphazenes/Li ⁺ Salt Complexes. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2007 , 17, 367-375	3.2	41
62	Transition Metal-Mediated Copolymerization of Diazocarbonyl Compounds with Alkyne and Isocyanide. <i>Macromolecules</i> , 2006 , 39, 6440-6444	5.5	35
61	Hierarchical Order in a Side-Group Liquid Crystalline Block Copolymer. <i>Macromolecules</i> , 2003 , 36, 8898-8901	5.5	35
60	Orientation of Microphase-Segregated Cylinders in Liquid Crystalline Diblock Copolymer by Magnetic Field. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L711-L714	1.4	34
59	AllylPdCl ₂ -Based Initiating Systems for Polymerization of Alkyl Diazoacetates: Initiation and Termination Mechanism Based on Analysis of Polymer Chain End Structures. <i>Macromolecules</i> , 2012 , 45, 6869-6877	5.5	33
58	Polymerization of Hydroxy-Containing Diazoacetates: Synthesis of Hydroxy-Containing Poly(substituted methylene)s by Palladium-Mediated Polymerization and Poly(ester ether)s by Polycondensation through O _H Insertion Reaction. <i>Macromolecules</i> , 2014 , 47, 4169-4177	5.5	32
57	Palladium-mediated copolymerization of diazocarbonyl compounds with phenyldiazomethane. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 1536-1545	2.5	31
56	Pd-mediated polymerization of diazoacetates with aromatic ester group: Synthesis and photophysical property of poly(1-pyrenylmethoxycarbonylmethylene). <i>Journal of Polymer Science Part A</i> , 2013 , 51, 1020-1023	2.5	29
55	Palladium-mediated polymerization of cyclic diazoketones. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 1638-1648	2.5	29
54	Palladium-mediated Polymerization of Diazoacetamides. <i>Polymer Journal</i> , 2008 , 40, 1094-1098	2.7	28

53	Synthesis of polymers with densely-grafted oligo(ethylene glycol)s by Pd-initiated polymerization of oxyethylene-containing diazoacetates. <i>Polymer Chemistry</i> , 2015 , 6, 8124-8131	4.9	26
52	Fluorinated Poly(substituted methylene)s Prepared by Pd-Initiated Polymerization of Fluorine-Containing Alkyl and Phenyl Diazoacetates: Their Unique Solubility and Postpolymerization Modification. <i>Macromolecules</i> , 2018 , 51, 328-335	5.5	24
51	Pd-initiated controlled polymerization of diazoacetates with a bulky substituent: synthesis of well-defined homopolymers and block copolymers with narrow molecular weight distribution from cyclophosphazene-containing diazoacetates. <i>Polymer Chemistry</i> , 2015 , 6, 4709-4714	4.9	24
50	Cyclopolymerization of Bis(diazocarbonyl) Compounds Leading to Well-Defined Polymers Essentially Consisting of Cyclic Constitutional Units. <i>Macromolecules</i> , 2016 , 49, 8459-8465	5.5	19
49	Polycondensation of Bis(diazocarbonyl) Compounds with Aromatic Diols and Cyclic Ethers: Synthesis of New Type of Polyetherketones. <i>Macromolecules</i> , 2010 , 43, 4589-4598	5.5	19
48	Palladium-Mediated Polymerization of Bifunctional Diazocarbonyl Compounds: Preparation of Crosslinked Polymers by Copolymerization of Bi- and Monofunctional Diazocarbonyl Compounds. <i>Polymer Journal</i> , 2009 , 41, 1117-1123	2.7	18
47	Benzyne as a Monomer for Polymerization: Alternating Copolymerization of Benzyne and Pyridine To Give Novel Polymers with o-Phenylene and 2,3-Dihydropyridine Units in the Main Chain. <i>Macromolecules</i> , 2005 , 38, 2167-2172	5.5	18
46	Synthesis of Well-Defined Unsaturated Polyesters by Transition-Metal-Catalyzed Polycondensation of Bis(diazoacetate)s. <i>Macromolecules</i> , 2013 , 46, 5483-5487	5.5	17
45	Aromatic Polyesters with Flexible Side Chains. 8. Studies on Long Periodical Structure Observed in Layered Crystalline Phase. <i>Macromolecules</i> , 2000 , 33, 8367-8370	5.5	17
44	Effects of polystyrene-b-poly(aminomethyl styrene)s as stabilizers on dispersion polymerization of styrene in alcoholic media. <i>Journal of Colloid and Interface Science</i> , 2009 , 330, 292-7	9.3	14
43	Bulk and Thin Film Ordering in Side-Chain Liquid-Crystalline/Amorphous Diblock Copolymers: The Role of Chain Length. <i>Macromolecules</i> , 2004 , 37, 6401-6407	5.5	14
42	Pd-initiated polymerization of diazo compounds bearing dialkoxyphosphinyl group and hydrolysis of the resulting polymers and oligomers to afford phosphonic acid-containing products. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 1742-1751	2.5	12
41	Dispersion polymerization of styrene using a polystyrene/poly(L-glutamic acid) block copolymer as a stabilizer. <i>Journal of Colloid and Interface Science</i> , 2012 , 388, 112-7	9.3	11
40	Radical copolymerization of methyl 2-norbornene-2-carboxylate and 2-phenyl-2-norbornene with styrene, alkyl acrylate, and methyl methacrylate: Facile incorporation of norbornane framework into polymer main chain and its effect on glass transition temperature. <i>Polymer</i> , 2010 , 51, 397-402	3.9	11
39	Organoaluminum-mediated polymerization of diazoketones. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 5209-5214	2.5	11
38	Side-Chain Liquid Crystalline Block Copolymers with Well Defined Structures Prepared by Living Anionic Polymerization IV. Microphase Morphology in Blends with Coil Homopolystyrenes. <i>Polymer Journal</i> , 2001 , 33, 783	2.7	11
37	Lithium ion conductivity of polymers containing N-phenyl-2,6-dimethoxybenzamide framework in their side chains: Possible role of bond rotation in polymer side chain substituents for efficient ion transport. <i>Solid State Ionics</i> , 2016 , 292, 1-7	3.3	11
36	Polymerization of alkyl diazoacetates initiated by the amidinate/Pd system: efficient synthesis of high molecular weight poly(alkoxycarbonylmethylene)s with moderate stereoregularity. <i>Polymer Chemistry</i> , 2017 , 8, 4030-4037	4.9	10

35	tBuOK/iBu3Al as New Initiating System for Controlled Anionic Polymerization of tert-Butyl Acrylate and Methyl Methacrylate. <i>Macromolecules</i> , 2004 , 37, 4048-4054	5.5	10
34	Polymerization of Alkyl Diazoacetates Initiated by Pd(Naphthoquinone)/Borate Systems: Dual Role of Naphthoquinones as Oxidant and Anionic Ligand for Generating Active Pd(II) Species. <i>Macromolecules</i> , 2019 , 52, 6976-6987	5.5	9
33	Surface structure of stimuli-responsive polystyrene particles prepared by dispersion polymerization with a polystyrene/poly(L-lysine) block copolymer as a stabilizer. <i>Polymer</i> , 2014 , 55, 3961-3969	3.9	9
32	Side-Chain LC Block Copolymers with Well Defined Structures Prepared by Living Anionic Polymerization. 2: Effect of the Glass Transition Temperature of Amorphous Segments on the Phase Behaviour and Structure of the LC Segment. <i>High Performance Polymers</i> , 1998 , 10, 131-138	1.6	9
31	Helix-coil transformation of poly(Benzyl-L-glutamate) with polystyrene attached to the N or C terminus in trifluoroacetic acid/chloroform mixtures. <i>Polymer Journal</i> , 2012 , 44, 189-194	2.7	8
30	Pd-Initiated Polymerization of Dendron-Containing Diazoacetates to Afford Dendronized Poly(substituted methylene)s with Narrow Molecular Weight Distribution and Its Application to Synthesis of pH-Responsive Dendronized Polymers. <i>Macromolecules</i> , 2020 , 53, 6369-6379	5.5	8
29	Surface structure and composition of narrowly-distributed functional polystyrene particles prepared by dispersion polymerization with poly(L-glutamic acid) macromonomer as stabilizer. <i>Polymer</i> , 2015 , 70, 183-193	3.9	7
28	Poly(Eketo enol ether) Prepared by Three-Component Polycondensation of Bis(diazoketone), Bis(1,3-diketone), and Tetrahydrofuran: Mild Acid-Degradable Polymers To Afford Well-Defined Low Molecular Weight Components. <i>Macromolecules</i> , 2019 , 52, 5761-5768	5.5	7
27	Thermally induced polymerization and copolymerization with styrene of diazoketones in the presence of benzoquinone. <i>Polymer Bulletin</i> , 2011 , 66, 3-15	2.4	7
26	A novel synthetic strategy for copolymers of vinyl alcohol: Radical copolymerization of alkoxyvinylsilanes with styrene and oxidative transformation of C?Si(OR)2Me into C?OH in the copolymers to afford poly(vinyl alcohol-ran-styrene)s. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 3648-3658	2.5	7
25	Anionic polymerization of methyl methacrylate by initiating systems based on lithium amides of various secondary amines. <i>Journal of Polymer Science Part A</i> , 2005 , 43, 4405-4411	2.5	7
24	Ru-Catalyzed Polycondensation of Dialkyl 1,4-Phenylenebis(diazoacetate) with Dianiline: Synthesis of Well-Defined Aromatic Polyamines Bearing an Alkoxy carbonyl Group at the Adjacent Carbon of Each Nitrogen in the Main Chain Framework. <i>Macromolecules</i> , 2017 , 50, 9233-9238	5.5	6
23	Radical copolymerization of alkyl 2-norbornene-2-carboxylate with alkyl acrylates: Facile incorporation of norbornane framework into poly(alkyl acrylate)s. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 4597-4605	2.5	6
22	Homopolymerization and Copolymerization with Styrene of Various Alkoxyvinylsilanes and Oxidative Transformation of C-Si Bond in the Resulting Copolymers to Afford Poly[(vinyl alcohol)-co-styrene]s. <i>Polymer Journal</i> , 2008 , 40, 1140-1148	2.7	6
21	1,2-Dibromotoluene as a monomer for poly (substituted methylene) synthesis: Magnesium-mediated polycondensation of 1,2-dibromotoluene and magnesium/copper-mediated copolycondensation of 1,2-dibromotoluene with 1,6-dibromohexane. <i>Journal of Polymer Science Part A</i> , 2005 , 44, 5661-5671	2.5	6
20	Side-Chain LC Block Copolymers with Well Defined Structures Prepared by Living Anionic Polymerization. 3: Effect of the Composition on the Microdomain Structure and the Phase Behavior of the LC Segment. <i>Molecular Crystals and Liquid Crystals</i> , 2000 , 347, 211-220		6
19	Effects of solvents, additives, and allyl ligand structures on the polymerization behavior of diazoacetates initiated by allylPd complexes. <i>Polymer Chemistry</i> , 2020 , 11, 1774-1784	4.9	5
18	Polymerization of Alkyl Diazoacetates Initiated with Pd Complexes. <i>Macromolecular Symposia</i> , 2015 , 349, 57-64	0.8	5

17	Anionic polymerization of methyl methacrylate and tert-butyl acrylate initiated with the YCl ₃ /lithium amide/nBuLi systems. <i>Journal of Organometallic Chemistry</i> , 2007 , 692, 698-704	2.3	5
16	Cationic polymerization of isobutyl vinyl ether initiated with transition-metal ate complexes. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 2636-2641	2.5	5
15	Anionic Polymerization of Methyl Methacrylate Initiated with Chromium and Vanadium Ate Complexes Incorporating Diisopropylamide Ligand. <i>Polymer Journal</i> , 2003 , 35, 972-977	2.7	5
14	Molecular Weight Dependence of Phase Behavior in Side-Chain Liquid Crystalline Polymer Which Exhibits Reentrant Nematic Phase. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L381-L384	1.4	5
13	Nonspherical Uniaxial Azobenzene Polymer Particles and Their Shape Changes under UV- or White-Light Irradiation for Stimuli-Response Applications. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 2485-2494	4.3	5
12	Conformational Transformation of Poly(α -phenethyl-L-aspartate) in Block Copolymer with Polystyrene in 1,1,2,2-Tetrachloroethane. <i>Polymer Journal</i> , 2007 , 39, 853-860	2.7	4
11	Carbon-carbon main chain polymer with accumulated oligo(ethylene glycol)-substituted cyclotriphosphazenes: Study on the LCST-type phase separation of organic-inorganic poly(substituted methylene)s. <i>Polymer Journal</i> , 2020 , 52, 51-56	2.7	4
10	Control of lengths and densities of surface-attached chains on polymer particles prepared by dispersion polymerization using macromonomer stabilizer. <i>Polymer</i> , 2018 , 158, 158-165	3.9	4
9	Single-Component Polycondensation of Bis(alkoxycarbonyldiazomethyl)aromatic Compounds To Afford Poly(arylene vinylene)s with an Alkoxycarbonyl Group on Each Vinylene Carbon Atom. <i>ACS Omega</i> , 2020 , 5, 4787-4797	3.9	3
8	Controlled cationic polymer particles prepared by dispersion polymerizations using poly(L-lysine) macromonomers as a stabilizer. <i>Polymer</i> , 2017 , 118, 215-222	3.9	2
7	Radical copolymerization of alkyl cyclobutenecarboxylates fused with cycloaliphatic framework with alkyl (meth)acrylates. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 2716-2724	2.5	2
6	Optical chirality of citronelloxy-cyanobiphenyl monolayer at an air/water interface studied by the MDC and SHG measurement. <i>Chemical Physics Letters</i> , 2005 , 407, 337-341	2.5	2
5	Synthesis of polymers with a norbornane backbone by radical copolymerization of alkyl 2-norbornene-2-carboxylates for photoresist applications. <i>Polymer Journal</i> , 2013 , 45, 606-613	2.7	1
4	Preparation of poly[(vinyl alcohol)-co-(methyl methacrylate)] by oxidative transformation of C ₆ H ₅ bond in poly[di(isobutoxy)phenylvinylsilane-co-(methyl methacrylate)]. <i>Polymer Bulletin</i> , 2010 , 65, 123-132	3.4	1
3	Mg-mediated Copolycondensation of p-Dibromotoluene with Bifunctional Electrophiles. <i>Polymer Bulletin</i> , 2008 , 60, 211-218	2.4	1
2	Polymerization of Diazocarbonyl Compounds Initiated with Pd Complexes. <i>Kobunshi Ronbunshu</i> , 2015 , 72, 375-384	0	
1	Reactivity of poly(alkoxycarbonylmethylene)s under basic conditions: alkylation of main chain carbon atoms via a ketene silyl acetal-type intermediate and cleavage of the carbon-carbon main chain. <i>Polymer Chemistry</i> , 2021 , 12, 689-701	4.9	