Tomoya Higashihara

List of Publications by Year
in descending order

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245 papers	7,692 citations	50276 46 h-index	76900 74 g-index
250 all docs	250 docs citations	250 times ranked	5784 citing authors

#	Article	IF	Citations
1	Recent Progress in High Refractive Index Polymers. Macromolecules, 2015, 48, 1915-1929.	4.8	363
2	Sulfonated aromatic hydrocarbon polymers as proton exchange membranes for fuel cells. Polymer, 2009, 50, 5341-5357.	3.8	301
3	Precise syntheses of chain-multi-functionalized polymers, star-branched polymers, star-linear block polymers, densely branched polymers, and dendritic branched polymers based on iterative approach using functionalized 1,1-diphenylethylene derivatives. Progress in Polymer Science, 2005, 30, 111-182.	24.7	287
4	Locally and Densely Sulfonated Poly(ether sulfone)s as Proton Exchange Membrane. Macromolecules, 2009, 42, 1161-1166.	4.8	201
5	Synthesis of well-defined star-branched polymers by stepwise iterative methodology using living anionic polymerization. Progress in Polymer Science, 2011, 36, 323-375.	24.7	177
6	Polyimide memory: a pithy guideline for future applications. Polymer Chemistry, 2013, 4, 16-30.	3.9	177
7	High Performance Volatile Polymeric Memory Devices Based on Novel Triphenylamine-based Polyimides Containing Mono- or Dual-Mediated Phenoxy Linkages. Macromolecules, 2010, 43, 1236-1244.	4.8	153
8	Synthesis of Functionalized Asymmetric Star Polymers Containing Conductive Polyacetylene Segments by Living Anionic Polymerization. Journal of the American Chemical Society, 2005, 127, 14158-14159.	13.7	106
9	Enhancement of P3HT/PCBM Photovoltaic Efficiency Using the Surfactant of Triblock Copolymer Containing Poly(3-hexylthiophene) and Poly(4-vinyltriphenylamine) Segments. Macromolecules, 2010, 43, 6085-6091.	4.8	105
10	Star-Shaped Sulfonated Block Copoly(ether ketone)s as Proton Exchange Membranes. Macromolecules, 2008, 41, 7560-7565.	4.8	103
11	New Donorâ€“Acceptor Oligoimides for High-Performance Nonvolatile Memory Devices. Chemistry of Materials, 2011, 23, 4487-4497.	6.7	95
12	A design strategy for high mobility stretchable polymer semiconductors. Nature Communications, 2021, 12, 3572.	12.8	94
13	A Versatile and Efficient Strategy to Discrete Conjugated Oligomers. Journal of the American Chemical Society, 2017, 139, 13735-13739.	13.7	85
14	New Dibenzothiophene-Containing Donorâ^'Acceptor Polyimides for High-Performance Memory Device Applications. Journal of Physical Chemistry C, 2011, 115, 5930-5939.	3.1	83
15	Isoindigo-Based Semiconducting Polymers Using Carbosilane Side Chains for High Performance Stretchable Field-Effect Transistors. Macromolecules, 2016, 49, 8540-8548.	4.8	83
16	Hyperbranched Polymers with Controlled Degree of Branching from 0 to 100%. Journal of the American Chemical Society, 2010, 132, 11000-11001.	13.7	81
17	Thiophene and Selenophene Donorâ€“Acceptor Polyimides as Polymer Electrets for Nonvolatile Transistor Memory Devices. Macromolecules, 2012, 45, 6946-6956.	4.8	79
18	Synthesis and Characterization of High Refractive Index and High Abbeâ€™s Number Poly(thioether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	4.8	77

#	Article	IF	Citations
19	Synthesis and Characterization of Highly Refractive Polyimides Derived from Thiophene-Containing Aromatic Diamines and Aromatic Dianhydrides. Macromolecules, 2010, 43, 1836-1843.	4.8	75
20	Synthesis of hyperbranched polymers with controlled structure. Polymer Chemistry, 2013, 4, 1746-1759.	3.9	75
21	Tailoring Carbosilane Side Chains toward Intrinsically Stretchable Semiconducting Polymers. Macromolecules, 2019, 52, 4396-4404.	4.8	73
22	Highly sulfonated multiblock copoly(ether sulfone)s for fuel cell membranes. Journal of Polymer Science Part A, 2010, 48, 2757-2764.	2.3	72
23	Synthesis of highâ€refractive index polyimide containing selenophene unit. Journal of Polymer Science Part A, 2009, 47, 4428-4434.	2.3	71
24	Flexible polymer memory devices derived from triphenylamineâ€“pyrene containing donorâ€“acceptor polyimides. Journal of Materials Chemistry, 2012, 22, 20754.	6.7	70
25	Tuning the Electrical Memory Characteristics from Volatile to Nonvolatile by Perylene Imide Composition in Random Copolyimides. Macromolecules, 2012, 45, 4556-4563.	4.8	69
26	Facile Synthesis of ABA Triblock Copolymer Containing Regioregular Poly(3-hexylthiophene) and Polystyrene Segments via Linking Reaction of Poly(styryl)lithium. Macromolecules, 2008, 41, 9505-9507.	4.8	68
27	Synthesis of all-conjugated donorâ€“acceptor block copolymers and their application in all-polymer solar cells. Polymer Chemistry, 2013, 4, 5518.	3.9	68
28	Polymer Electrolyte Membranes Based on Cross-Linked Highly Sulfonated Multiblock Copoly(ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.8	67
29	Successive Synthesis of Well-Defined Asymmetric Star-Branched Polymers up to Seven-Arm, Seven-Component ABCDEFG Type by an Iterative Methodology Based on Living Anionic Polymerization. Macromolecules, 2008, 41, 3579-3587.	4.8	66
30	Highly Refractive Poly(phenylene thioether) Containing Triazine Unit. Macromolecules, 2010, 43, 4613-4615.	4.8	66
31	Preparation of Nanoporous Poly(3-hexylthiophene) Films Based on a Template System of Block Copolymers via Ionic Interaction. Macromolecules, 2010, 43, 4843-4852.	4.8	66
32	Successive Synthesis of Well-Defined Star-Branched Polymers by a New Iterative Approach Involving Coupling and Transformation Reactions. Macromolecules, 2005, 38, 4577-4587.	4.8	60
33	Locally sulfonated poly(ether sulfone)s with highly sulfonated units as proton exchange membrane. Journal of Polymer Science Part A, 2009, 47, 3444-3453.	2.3	60
34	Living Anionic Polymerization of 4-Vinyltriphenylamine for Synthesis of Novel Block Copolymers Containing Low-Polydisperse Poly(4-vinyltriphenylamine) and Regioregular Poly(3-hexylthiophene) Segments. Macromolecules, 2009, 42, 8794-8800.	4.8	60
35	Allyl Halide (Macro)initiators in ATRP: Synthesis of Block Copolymers with Polyisobutylene Segments. Macromolecules, 2008, 41, 2318-2323.	4.8	59
36	Synthesis of highly refractive polyimides derived from 3,6â€bis(4â€aminophenylenesulfanyl)pyridazine and 4,6â€bis(4â€aminophenylenesulfanyl)pyrimidine. Journal of Polymer Science Part A, 2009, 47, 4886-4894.	2.3	53

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37	Synthesis and characterization of highly refractive polyimides derived from 2,7-bis(4â€²-aminophenylenesulfanyl)thianthrene-5,5,10,10-tetraoxide and aromatic dianhydrides. Polymer, 2009, 50, 789-795.	3.8	52
38	Realization of Intrinsically Stretchable Organic Solar Cells Enabled by Charge-Extraction Layer and Photoactive Material Engineering. ACS Applied Materials & Interfaces, 2018, 10, 21712-21720.	8.0	52
39	Combining Living Anionic Polymerization with Branching Reactions in an Iterative Fashion to Design Branched Polymers. Macromolecular Rapid Communications, 2010, 31, 1031-1059.	3.9	51
40	Precise Synthesis of Regular and Asymmetric Star Polymers and Densely Branched Polymers with Starlike Structures by Means of Living Anionic Polymerization. Polymer Journal, 2002, 34, 633-658.	2.7	50
41	Polymer Electrolyte Membranes Based on Poly(phenylene ether)s with Pendant Perfluoroalkyl Sulfonic Acids. Macromolecules, 2011, 44, 1603-1609.	4.8	50
42	Tunable Electrical Memory Characteristics Using Polyimide:Polycyclic Aromatic Compound Blends on Flexible Substrates. ACS Applied Materials & Interfaces, 2013, 5, 4921-4929.	8.0	50
43	Synthesis of All-Conjugated Donorâ€“Acceptorâ€“Donor ABA-Type Triblock Copolymers via Kumada Catalyst-Transfer Polycondensation. ACS Macro Letters, 2013, 2, 506-510.	4.8	49
44	Successive Synthesis of Well-Defined Many Arm Star-Branched Polymers by an Iterative Methodology Using a Specially Designed 1,1-Diphenylethylene. Macromolecules, 2006, 39, 6081-6091.	4.8	48
45	All-conjugated diblock copolymer of poly(3-hexylthiophene)-block-poly(3-phenoxymethylthiophene) for field-effect transistor and photovoltaic applications. Organic Electronics, 2009, 10, 1541-1548.	2.6	47
46	Synthesis of allâ€conjugated poly(3â€hexylthiophene)â€blockâ€• poly(3â€(4â€²â€(3â€³,7â€³â€dimethyloctyloxy)â€3â€²â€pyridinyl)thiophene) and its blend for photovoltaic applications. Journal of Polymer Science Part A, 2011, 49, 2577-2587.	2.8	46
47	Purification-Free and Protection-Free Synthesis of Regioregular Poly(3-hexylthiophene) and Poly(3-(6-hydroxyhexyl)thiophene) Using a Zincate Complex of tBu4ZnLi2. ACS Macro Letters, 2012, 1, 167-170.	4.8	46
48	Nonstoichiometric Stille Coupling Polycondensation for Synthesizing Naphthalene-Diimide-Based Ï€-Conjugated Polymers. ACS Macro Letters, 2015, 4, 1004-1007.	4.8	46
49	Successive Synthesis of Asymmetric Star-Branched Polymers Based on Iterative Methodology Using 1,1-Diphenylethylene Derivatives of Alternative Choice at Each Iteration. Macromolecules, 2009, 42, 6006-6014.	4.8	45
50	Synthesis of hyperbranched polymers with controlled degree of branching. Polymer Journal, 2012, 44, 14-29.	2.7	45
51	Synthesis and Postfunctionalization of Rodâ€“Coil Diblock and Coilâ€“Rodâ€“Coil Triblock Copolymers Composed of Poly(3-hexylthiophene) and Poly(4-(4â€²-N,N-dihexylaminophenylethynyl)styrene) Segments. Macromolecules, 2012, 45, 9643-9656.	4.8	45
52	Synthesis of Branched Polymers by Means of Living Anionic Polymerization. 13. Synthesis of Well-Defined Star-Branched Polymers via an Iterative Approach Using Living Anionic Polymers. Macromolecules, 2002, 35, 7238-7245.	4.8	44
53	Electrically bistable memory devices based on all-conjugated block copolythiophenes and their PCBM composite films. Journal of Materials Chemistry, 2011, 21, 14502.	6.7	44
54	Synthesis and Characterization of All-Conjugated Graft Copolymers Comprised of n-Type or p-Type Backbones and Poly(3-hexylthiophene) Side Chains. Macromolecules, 2013, 46, 1783-1793.	4.8	44

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55	Synthesis of Highly Refractive Poly(phenylene thioether) Derived from 2,4-Dichloro-6-alkylthio-1,3,5-triazines and Aromatic Dithiols. Macromolecules, 2011, 44, 9180-9186.	4.8	43
56	Polymer electrolyte membranes based on poly(m-phenylene)s with sulfonic acid via long alkyl side chains. Polymer Chemistry, 2013, 4, 1235-1242.	3.9	43
57	Poly(phenylene thioether)s with Fluorene-Based Cardo Structure toward High Transparency, High Refractive Index, and Low Birefringence. Macromolecules, 2016, 49, 5849-5856.	4.8	43
58	Synthesis of Branched Polymers by Means of Living Anionic Polymerization, 8. Synthesis of Well-Defined Star-Branched Polymers by an Iterative Approach Based on Living Anionic Polymerization Using 1,1-Diphenylethylene Derivatives. Macromolecular Chemistry and Physics, 2001, 202, 3165-3173.	2.2	42
59	Synthesis of Asymmetric Star-Branched Polymers Having Two Polyacetylene Arms by Means of Living Anionic Polymerization Using 1,1-Diphenylethylene Derivatives. Macromolecules, 2007, 40, 228-238.	4.8	42
60	Influence of adjusted hydrophilicâ€“hydrophobic lengths in sulfonated multiblock copoly(ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	2.3	42
61	Synthesis of asymmetric star-branched polymers consisting of three or four different segments in composition by means of living anionic polymerization with a new dual-functionalized 1,1-bis(3-chloromethylphenyl)ethylene. Journal of Polymer Science Part A, 2004, 42, 4535-4547.	2.3	41
62	Study on Intrinsic Stretchability of Diketopyrrolopyrrole-Based Ï€-Conjugated Copolymers with Poly(acryl amide) Side Chains for Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2020, 12, 33014-33027.	8.0	41
63	Synthesis and characterization of a novel coilâ€“rodâ€“coil triblock copolymers comprised of regioregular poly(3-hexylthiophene) and poly(methyl methacrylate) segments. Reactive and Functional Polymers, 2009, 69, 457-462.	4.1	40
64	Synthesis of Thiophene-Based Ï€-Conjugated Polymers Containing Oxadiazole or Thiadiazole Moieties and Their Application to Organic Photovoltaics. Macromolecules, 2012, 45, 9046-9055.	4.8	40
65	Synthesis of poly(mâ€phenylene) and poly(mâ€phenylene)â€blockâ€poly(3â€hexylthiophene) with low polydispersities. Journal of Polymer Science Part A, 2011, 49, 2709-2714.	2.3	39
66	Cross-Linked Liquid Crystalline Polyimides with Siloxane Units: Their Morphology and Thermal Diffusivity. Macromolecules, 2013, 46, 747-755.	4.8	38
67	Lowâ€Energyâ€Consumption and Electretâ€Free Photosynaptic Transistor Utilizing Poly(3â€hexylthiophene)â€Based Conjugated Block Copolymers. Advanced Science, 2022, 9, e2105190.	11.2	38
68	Synthesis and characterization of block copolythiophene with hexyl and triethylene glycol side chains. Polymer, 2011, 52, 3687-3695.	3.8	37
69	Enhancement of power conversion efficiency and long-term stability of P3HT/PCBM solar cells using C60 derivatives with thiophene units as surfactants. Solar Energy Materials and Solar Cells, 2012, 97, 164-170.	6.2	37
70	Successive Synthesis of Well-Defined Star-Branched Polymers by Iterative Methodology Based on Living Anionic Polymerization. Polymer Journal, 2008, 40, 923-941.	2.7	36
71	Synthesis and characterization of thianthrene-based poly(phenylene sulfide)s with high refractive index over 1.8. Journal of Materials Chemistry, 2011, 21, 15727.	6.7	36
72	Recent progress in thermally stable and photosensitive polymers. Polymer Journal, 2018, 50, 57-76.	2.7	36

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73	Successive synthesis of well-defined star-branched polymers by an iterative approach based on living anionic polymerization. Macromolecular Research, 2006, 14, 287-299.	2.4	35
74	Synthesis of highly refractive and transparent polyimides derived from 4,4â€²â€²thiobis[2â€³,6â€³â€dimethylâ€4â€³â€(pâ€phenylenesulfanyl)aniline]. Journal of Polymer Science Part A, 2010, 48, 656-662.	2.3	35
75	Synthesis of sulfur-containing poly(thioester)s with high refractive indices and high Abbe numbers. Polymer Chemistry, 2010, 1, 480-484.	3.9	35
76	Synthesis of Novel Multifunctional Polyisobutylenes at Chain End(s) and Their Application to AnB Asymmetric Star and AnBAn Pompom Polymers by Combination of Living Cationic and Anionic Polymerizations. Macromolecules, 2008, 41, 5616-5625.	4.8	34
77	Polystyrenes containing flexible alkylsulfonated side chains as a proton exchange membrane for fuel cell application. Polymer Chemistry, 2012, 3, 3289.	3.9	34
78	Precision synthesis of tailor-made polythiophene-based materials and their application to organic solar cells. Macromolecular Research, 2013, 21, 257-271.	2.4	34
79	Sequentially Different AB Diblock and ABA Triblock Copolymers as P3HT:PCBM Interfacial Compatibilizers for Bulk-Heterojunction Photovoltaics. ACS Applied Materials & Interfaces, 2016, 8, 5484-5492.	8.0	34
80	Sulfonated poly(ether sulfone)s with binaphthyl units as proton exchange membranes for fuel cell application. Journal of Polymer Science Part A, 2009, 47, 5827-5834.	2.3	33
81	Synthesis and Characterization of ABC-Type Asymmetric Star Polymers Comprised of Poly(3-hexylthiophene), Polystyrene, and Poly(2-vinylpyridine) Segments. Macromolecules, 2015, 48, 245-255.	4.8	33
82	Synthesis of Novel Block Copolymers Comprised of Polyisobutylene and Poly(vinylferrocene) Segments. Macromolecules, 2007, 40, 7453-7463.	4.8	32
83	2,2â€²-Bis(1,3,4-thiadiazole)-Based ï€-Conjugated Copolymers for Organic Photovoltaics with Exceeding 8% and Its Molecular Weight Dependence of Device Performance. Macromolecules, 2017, 50, 891-899.	4.8	32
84	Synthesis of Poly(isobutylene-block-methyl methacrylate) by a Novel Coupling Approach. Macromolecules, 2006, 39, 5275-5279.	4.8	31
85	Highly refractive polymer resin derived from sulfurâ€containing aromatic acrylate. Journal of Polymer Science Part A, 2010, 48, 2604-2609.	2.3	31
86	Complex Self-Assembled Morphologies of Thin Films of an Asymmetric A₃B₃C₃ Star Polymer. ACS Macro Letters, 2013, 2, 849-855.	4.8	31
87	Investigation of the Mobilityâ€“Stretchability Properties of Naphthalenediimide-Based Conjugated Random Terpolymers with a Functionalized Conjugation Break Spacer. Macromolecules, 2021, 54, 7388-7399.	4.8	31
88	Synthesis of Well-Defined Star-Branched Polymers by Coupling Reaction of Star-Branched Polymer Anions Comprised of Three Polymer Segments with Chain-End-Functionalized Polystyrenes with a Definite Number of Benzyl Bromide Moieties. Macromolecules, 2004, 37, 5179-5189.	4.8	30
89	Precise Synthesis of Macromolecular Architectures by Novel Iterative Methodology Combining Living Anionic Polymerization with Specially Designed Linking Chemistry. Polymers, 2017, 9, 470.	4.5	30
90	Synthesis and characterization of novel polythiophenes with graphene-like structures via intramolecular oxidative coupling. Polymer Chemistry, 2012, 3, 479-485.	3.9	29

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91	Synthesis and Deformable Hierarchical Nanostructure of Intrinsically Stretchable ABA Triblock Copolymer Composed of Poly(3-hexylthiophene) and Polyisobutylene Segments. ACS Applied Polymer Materials, 2019, 1, 315-320.	4.4	29
92	Synthesis of High Refractive Index Poly(thioether sulfone)s with High Abbeâ€™s Number Derived from 2,5-Bis(sulfanylmethyl)-1,4-dithiane. Polymer Journal, 2009, 41, 860-865.	2.7	28
93	Thermotropic Liquid Crystalline Polyimides with Siloxane Linkages: Synthesis, Characterization, and Liquid Crystalline Behavior. Macromolecules, 2010, 43, 805-810.	4.8	27
94	Synthesis of a Hyperbranched Polymer with Perfect Branching Based on Piperidine-4-one. Macromolecules, 2009, 42, 994-1001.	4.8	26
95	A high performance polymer electrolyte membrane based on sulfonated poly(ether sulfone) with binaphthyl units. Journal of Materials Chemistry, 2010, 20, 6662.	6.7	26
96	Polymer electrolyte membranes based on polystyrenes with phosphonic acid via long alkyl side chains. Journal of Polymer Science Part A, 2012, 50, 4334-4340.	2.3	26
97	Development of Novel Triazine-Based Poly(phenylene sulfide)s with High Refractive Index and Low Birefringence. ACS Omega, 2020, 5, 5134-5141.	3.5	26
98	Strategic design and synthesis of Ï€-conjugated polymers suitable as intrinsically stretchable semiconducting materials. Polymer Journal, 2021, 53, 1061-1071.	2.7	26
99	Synthesis of Block Copolymers and Asymmetric Star-Branched Polymers Comprised of Polyacetylene and Polystyrene Segments via Ionic Bond Formation. Monatshefte FÃ¼r Chemie, 2006, 137, 869-880.	1.8	24
100	Synthesis of amorphous copoly(thioether sulfone)s with high refractive indices and high Abbe numbers. European Polymer Journal, 2010, 46, 34-41.	5.4	24
101	Lowâ€CTE photosensitive polyimide based on semialicyclic poly(amic acid) and photobase generator. Journal of Polymer Science Part A, 2010, 48, 1317-1323.	2.3	24
102	Polymer electrolyte membranes based on poly(phenylene ether)s with sulfonic acid via long alkyl side chains. Journal of Materials Chemistry A, 2013, 1, 11389.	10.3	24
103	Synthesis and Characterization of Multicomponent ABC- and ABCD-Type Miktoarm Star-Branched Polymers Containing a Poly(3-hexylthiophene) Segment. ACS Macro Letters, 2016, 5, 631-635.	4.8	24
104	An Alkaline-Developable, Chemically Amplified, Negative-Type Photosensitive Poly(benzoxazole) Resist Based on Poly(o-hydroxy amide), an Active Ester-Type Cross-Linker, and a Photobase Generator. Macromolecules, 2009, 42, 1024-1030.	4.8	23
105	Synthesis of block copolymers consisting of poly(3-hexylthiophene) and polystyrene segments through ionic interaction and their self-assembly behavior. Polymer Journal, 2010, 42, 43-50.	2.7	23
106	Thermal Diffusivity of Hexagonal Boron Nitride Composites Based on Cross-Linked Liquid Crystalline Polyimides. ACS Applied Materials & Interfaces, 2013, 5, 3417-3423.	8.0	23
107	Precision synthesis of regioregular poly(3-hexylthiophene) with low dispersity using a zincate complex catalyzed by nickel with the ligand of 1,2-bis(dicyclohexylphosphino)ethane. Journal of Polymer Science Part A, 2014, 52, 2287-2296.	2.3	23
108	Synthesis and Characterization of Polythiophenes Bearing Aromatic Groups at the 3-Position. Macromolecules, 2011, 44, 719-727.	4.8	22

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109	Inducing a high twisted conformation in the polyimide structure by bulky donor moieties for the development of non-volatile memory. European Polymer Journal, 2013, 49, 3377-3386.	5.4	22
110	Precise synthesis of asymmetric star-shaped polymers by coupling reactions of new specially designed polymer anions with chain-end-functionalized polystyrenes with benzyl bromide moieties. Science and Technology of Advanced Materials, 2004, 5, 469-477.	6.1	21
111	Highly phosphonated poly(Nâ€phenylacrylamide) for proton exchange membranes. Journal of Polymer Science Part A, 2011, 49, 93-100.	2.3	21
112	Synthesis of highly refractive poly(phenylene thioether)s containing a binaphthyl or diphenylfluorene unit. Polymer Chemistry, 2012, 3, 2531.	3.9	21
113	Synthesis and characterization of poly(phenylene thioether)s containing pyrimidine units exhibiting high transparency, high refractive indices, and low birefringence. Journal of Materials Chemistry C, 2015, 3, 7081-7087.	5.5	21
114	Synthesis of block copolymers comprised of poly(3â€hexylthiophene) segment with trisiloxane side chains and their application to organic thin film transistor. Journal of Polymer Science Part A, 2018, 56, 1787-1794.	2.3	21
115	Controlled Synthesis of Poly[(3-alkylthio)thiophene]s and Their Application to Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2021, 13, 31898-31909.	8.0	21
116	Synthesis of Branched Polymers by Means of Living Anionic Polymerization, 9. Radical Coupling Reaction of 1,1-Diphenylethylene-Functionalized Polymers with Potassium Naphthalenide and Its Application to Syntheses of In-Chain-Functionalized Polymers and Star-Branched Polymers. Macromolecular Chemistry and Physics, 2002, 203, 166-175.	2.2	20
117	Synthesis and Liquid Crystalline Behavior of Laterally Substituted Polyimides with Siloxane Linkages. Macromolecules, 2010, 43, 8950-8956.	4.8	20
118	Controlled synthesis of low-polydisperse regioregular poly(3-hexylthiophene) and related materials by zincate-complex metathesis polymerization. Polymer Journal, 2014, 46, 381-390.	2.7	20
119	X-ray scattering studies on molecular structures of star and dendritic polymers. Macromolecular Research, 2008, 16, 686-694.	2.4	19
120	Development of Block Copolymers with Poly(3-hexylthiophene) Segments as Compatibilizers in Non-Fullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 12083-12092.	8.0	19
121	Successive Synthesis of Regular and Asymmetric Star-Branched Polymers by Iterative Methodology Based on Living Anionic Polymerization Using Functionalized 1,1-Diphenylethylene Derivatives. Macromolecular Symposia, 2006, 240, 31-40.	0.7	18
122	Recent progress in negative-working photosensitive and thermally stable polymers. Reactive and Functional Polymers, 2013, 73, 303-315.	4.1	18
123	Synthesis and morphology of allâ€conjugated donorâ€“acceptor block copolymers based on poly(3â€hexylthiophene) and poly(naphthalene diimide). Journal of Polymer Science Part A, 2014, 52, 1139-1148.	2.3	18
124	Crosslinked copolymer with low dielectric constant and dissipation factor based on poly(2,6â€Dimethylphenolâ€coâ^'2,6â€Diphenylphenol) and a crosslinker. Journal of Polymer Science Part A, 2016, 54, 3218-3223.	2.3	18
125	Facile synthesis of diphenylethylene end-functional polyisobutylene and its applications for the synthesis of block copolymers containing poly(methacrylate)s. Polymer, 2008, 49, 386-393.	3.8	17
126	Alkalineâ€developable, chemically amplified, negativeâ€type photosensitive polyimide based on polyhydroxyimide, a crosslinker, and a photoacid generator. Journal of Applied Polymer Science, 2009, 113, 3605-3611.	2.6	17

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127	Polymer electrolyte membrane based on polyacrylate with phosphonic acidvia long alkyl side chains. Journal of Materials Chemistry A, 2013, 1, 1457-1464.	10.3	17
128	Synthesis and characterization of alkalineâ€soluble triazineâ€based poly(phenylene sulfide)s with high refractive index and low birefringence. Journal of Polymer Science Part A, 2018, 56, 724-731.	2.3	17
129	Synthesis of Well-Defined Star-Branched Polymers by Using Chain-End-Functionalized Polystyrenes with a Definite Number of 1,3-Butadienyl Groups and Its Derivatized Functions. Macromolecules, 2003, 36, 6730-6738.	4.8	16
130	An Alkaline-Developable, Negative-Working Photosensitive Polybenzoxazole Based on Poly(o-hydroxyamide), a Vinyl Sulfone-Type Cross-Linker, and a Novel Photobase Generator. Macromolecules, 2009, 42, 3780-3787.	4.8	16
131	Synchrotron X-ray Scattering Characterization of the Molecular Structures of Star Polystyrenes with Varying Numbers of Arms. Journal of Physical Chemistry B, 2010, 114, 6247-6257.	2.6	16
132	Synthesis of hyperbranched polythiophene with a controlled degree of branching viacatalyst-transfer Suzukiâ€“Miyaura coupling reaction. Polymer Chemistry, 2013, 4, 1208-1215.	3.9	16
133	Poly(arylene ether ether nitrile)s containing flexible alkylsulfonated side chains for polymer electrolyte membranes. Journal of Polymer Science Part A, 2014, 52, 21-29.	2.3	16
134	Synthesis of novel ABA triblock and (ABA) multiblock copolymers comprised of polyisobutylene and poly(Î³-benzyl-l-glutamate) segments. Reactive and Functional Polymers, 2009, 69, 429-434.	4.1	15
135	Effects of the acceptor conjugation length and composition on the electrical memory characteristics of random copolyimides. Journal of Polymer Science Part A, 2013, 51, 1348-1358.	2.3	15
136	Facile formulation of alkaline-developable positive-type photosensitive polyimide based on fluorinated poly(amic acid), poly(amic acid), and fluorinated diazonaphthoquinone. Journal of Materials Chemistry C, 2013, 1, 2553.	5.5	15
137	Synthesis of block co-polymers and star-branched polymers consisting of conducting polyacetylene segments via ionic interaction to form ionic bonds. Designed Monomers and Polymers, 2004, 7, 647-660.	1.6	14
138	Direct patterning of poly(amic acid) and lowâ€temperature imidization using a crosslinker, a photoacid generator, and a thermobase generator. Journal of Polymer Science Part A, 2009, 47, 3362-3369.	2.3	14
139	Polymer electrolyte membrane based on poly(ether sulfone) containing binaphthyl units with pendant perfluoroalkyl sulfonic acids. Journal of Polymer Science Part A, 2011, 49, 2997-3003.	2.3	14
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