

Koji Takagi

List of Publications by Year in descending order

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papers

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citations

331259

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1361
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#	ARTICLE	IF	CITATIONS
1	Toward the Synthesis of a Belt-Shaped Cyclic π -Conjugated System Comprising <i>para</i> -Phenylene Framework and Amide Bridging Unit. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 47-51.	2.0	3
2	Study on Controlling the Surface Structure and Properties of a Cellulose Nanocrystal Film Modified Using Alkoxysilanes in Green Solvents. <i>Langmuir</i> , 2022, 38, 5550-5556.	1.6	3
3	Controlled/Living Cationic Polymerization of <i>p</i> -Methoxystyrene Using Tellurium-Based Chalcogen Bonding Catalysts—Discovery of a New Water-Tolerant Lewis Acid Catalyst. <i>Macromolecules</i> , 2022, 55, 3671-3680.	2.2	9
4	Palladium-Catalyzed intramolecular direct arylation of aromatic tertiary amide compounds revisited. <i>Results in Chemistry</i> , 2022, 4, 100432.	0.9	0
5	Application of Thiourea/Halogen Bond Donor Cocatalysis in Metal-Free Cationic Polymerization of Isobutyl Vinyl Ether and Styrene Derivatives. <i>Macromolecules</i> , 2022, 55, 5756-5765.	2.2	12
6	End-functionalization of dithiarubicene: modulation of optoelectronic properties by metal-catalyzed coupling reactions and device application. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5920-5929.	2.7	4
7	Stereoselectivity in dehydrative cyclic trimerization of substituted 4-alkylaminobenzoic acids. <i>New Journal of Chemistry</i> , 2021, 45, 1187-1193.	1.4	1
8	Dicationic oligotelluroxane or mononuclear telluronium cation? Elucidation of the true catalytic species and activation mechanism of the benzylic carbon-halogen bond. <i>Chemical Communications</i> , 2021, 57, 13736-13739.	2.2	9
9	Cationic polymerization of vinyl monomers using halogen bonding organocatalysts with varied activity. <i>Polymer Chemistry</i> , 2020, 11, 6739-6744.	1.9	13
10	Ladderization of poly(<i>p</i> -phenylenevinylene) derivative: Synthesis of polycyclic aromatic hydrocarbon polymer by intramolecular oxidative cyclization. <i>Polymer</i> , 2019, 179, 121607.	1.8	3
11	Cationic polymerization of <i>n</i> -hexyloxyallene by using halogen bonding organocatalysts. <i>Journal of Polymer Science Part A</i> , 2019, 57, 2436-2441.	2.5	10
12	Charge-neutral and self-doped cyclopentadithiophene-based conjugated polymers: Influence of side chain on optical, electrical, and thermoelectric properties. <i>Polymer</i> , 2019, 181, 121787.	1.8	2
13	Ladderization of polystyrene derivatives by palladium-catalyzed polymer direct arylation. <i>Polymer Chemistry</i> , 2019, 10, 2647-2652.	1.9	5
14	Chiral Non-Planar Oligophenylenes Bridged by Urea Linkage: Synthesis through Intramolecular Direct Arylation, Chiroptical Behavior, and Theoretical Investigation. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 2071-2080.	1.2	4
15	π -Extension of electron-accepting dithiarubicene with a cyano-substituted electron-withdrawing group and application in air-stable <i>n</i> -channel organic field effect transistors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12610-12618.	2.7	17
16	Potentially helical imidazole-containing conjugated oligomers: synthesis, optical properties, and conformation. <i>Polymer Journal</i> , 2019, 51, 389-395.	1.3	1
17	ESIPT emission behavior of methoxy-substituted 2-hydroxyphenylbenzimidazole isomers. <i>New Journal of Chemistry</i> , 2018, 42, 5923-5928.	1.4	27
18	Solid-State Esterification via Ionic-to-Covalent Bond Transformation in Ionic Molecular Crystals Consisting of Disubstituted Anthracene Anion-Cation Combinations. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 343-348.	2.0	1

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19	Inentitelbild: Creating Elastic Organic Crystals of π -Conjugated Molecules with Bending Mechanofluorochromism and Flexible Optical Waveguide (Angew. Chem. 52/2018). Angewandte Chemie, 2018, 130, 17154-17154.	1.6	0
20	Creating Elastic Organic Crystals of π -Conjugated Molecules with Bending Mechanofluorochromism and Flexible Optical Waveguide. Angewandte Chemie, 2018, 130, 17248-17254.	1.6	36
21	Synthesis and Structure of Optically Active Oligo(<i>N</i> -substituted <i>m</i> -benzamide)s Bearing a Bithiophene Chromophore on the Benzene Ring. Macromolecular Chemistry and Physics, 2018, 219, 1800298.	1.1	1
22	Creating Elastic Organic Crystals of π -Conjugated Molecules with Bending Mechanofluorochromism and Flexible Optical Waveguide. Angewandte Chemie - International Edition, 2018, 57, 17002-17008.	7.2	170
23	Synthesis and Field-Effect Transistor Application of π -Extended Lactam-Fused Conjugated Oligomers obtained by Tandem Direct Arylation. Chemistry - A European Journal, 2018, 24, 14137-14145.	1.7	10
24	Synthesis of polythiophene derivative bearing methoxy and pyridine groups at the \hat{I}^2 -position and formation of an intramolecular hydrogen bonding through the polymer reaction. Polymer, 2017, 114, 221-230.	1.8	2
25	Termination reaction of living poly(3-hexylthiophene) using thiophene Grignard reagents: Substituent effect on the functionalization. Polymer, 2017, 117, 354-363.	1.8	2
26	Halogen-Bonding-Mediated and Controlled Cationic Polymerization of Isobutyl Vinyl Ether: Expanding the Catalytic Scope of κ -iodoimidazolium Salts. Chemistry - A European Journal, 2017, 23, 9495-9500.	1.7	40
27	Synthesis and Optical Properties of Excited-State Intramolecular Proton Transfer Active π -Conjugated Benzimidazole Compounds: Influence of Structural Rigidification by Ring Fusion. Journal of Organic Chemistry, 2017, 82, 12173-12180.	1.7	34
28	Regioselective halogen-magnesium exchange reaction of a bithiophene derivative bearing methoxy and pyridine groups at the \hat{I}^2 -position and Kumada coupling polymerization. Polymer Journal, 2017, 49, 649-654.	1.3	2
29	Synthesis and Optical Properties of Fused π -Conjugated Imidazole Compounds. Chemistry Letters, 2017, 46, 1372-1375.	0.7	6
30	Precision Spatial Arrangement of Chromophores Using Cyclic Aromatic Triamide Scaffolds. , 2017, , 317-346.		0
31	Molecular design for tuning electronic structure of π -conjugated polymers containing fused dithienobenzimidazole units. Polymer, 2016, 107, 191-199.	1.8	3
32	Synthesis and Optical Properties of π -Conjugated Polymers Containing Fused Imidazole Skeleton. Macromolecules, 2016, 49, 8879-8887.	2.2	7
33	Synthesis and optical properties of poly(<i>N</i> -octyl- <i>m</i> -benzamide)s bearing an oligothiophene chromophore on the benzene ring. Polymer Journal, 2016, 48, 605-610.	1.3	2
34	Fused π -conjugated imidazolium liquid crystals: synthesis, self-organization, and fluorescence properties. RSC Advances, 2016, 6, 9152-9159.	1.7	16
35	Solid-State Polycondensation via Ionic-to-Covalent Bond Transformation to Control Polymer Structure: Preparation of Porphyrin-Based Ladder Polymer. ACS Macro Letters, 2015, 4, 247-250.	2.3	4
36	Synthesis and Optical Properties of Imidazole- and Benzimidazole-Based Fused π -Conjugated Compounds: Influence of Substituent, Counteranion, and π -Conjugated System. Journal of Organic Chemistry, 2015, 80, 7172-7183.	1.7	25

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37	Diastereoselective cyclization of an aminobenzoic acid derivative and chiroptical properties of triple-stranded helical bis(phenylethynyl)benzene. <i>Chemical Communications</i> , 2015, 51, 5710-5713.	2.2	15
38	Amide-bridged ladder poly(p-phenylene): synthesis by direct arylation and π -stacked assembly. <i>Polymer Chemistry</i> , 2015, 6, 6792-6795.	1.9	13
39	Polymerization Reactions (Overview)., 2015, , 1982-1987.		0
40	Synthesis and optoelectronic properties of conjugated polymers based on a dithienobenzimidazole unit in the main chain. <i>Journal of Polymer Science Part A</i> , 2014, 52, 401-409.	2.5	5
41	Synthesis, reaction, and optical properties of cyclic oligomers bearing 9,10-diphenylanthracene based on an aromatic tertiary amide unit. <i>RSC Advances</i> , 2014, 4, 6752.	1.7	11
42	Aggregation of polythiophene homopolymer and block copolymer in solution utilizing the characteristics of pyridine at the side chain. <i>Journal of Polymer Science Part A</i> , 2014, 52, 3383-3389.	2.5	5
43	Synthesis and characterization of polythiophene derivatives with nitrogen heterocycles on the side chain. <i>Journal of Polymer Science Part A</i> , 2014, 52, 2166-2174.	2.5	12
44	Helicity Induction in Three π -Conjugated Chromophores by Planar Chirality of Calixamide. <i>Chemistry - A European Journal</i> , 2013, 19, 11853-11857.	1.7	25
45	Experimental Mechanistic Studies of the Tail-to-Tail Dimerization of Methyl Methacrylate Catalyzed by N-Heterocyclic Carbene. <i>Journal of Organic Chemistry</i> , 2013, 78, 8739-8747.	1.7	57
46	N-Heterocyclic Carbene-Catalyzed Cyclotetramerization of Acrylates. <i>Organic Letters</i> , 2013, 15, 5916-5919.	2.4	40
47	Synthesis and optical properties of poly(p-benzamide)s bearing oligothiophene on the amide nitrogen atom through an alkylene spacer. <i>Polymer Journal</i> , 2013, 45, 1171-1176.	1.3	7
48	A screw-shaped alignment of pyrene using m-calix[3]amide. <i>Tetrahedron</i> , 2013, 69, 1516-1520.	1.0	9
49	Synthesis of green and blue fluorescent ladder-type conjugated imidazolium compounds. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 2245.	1.5	11
50	Synthesis and optical properties of conjugated polymers bearing a 1,8-difunctionalized carbazole unit. <i>Polymer Journal</i> , 2013, 45, 396-400.	1.3	10
51	Polymerization Reactions (Overview)., 2013, , 1-6.		0
52	Preparation of Molecular Cage by Coordination of <i>m</i> -Calix[3]amide Bearing Pyridine with Palladium Complex. <i>Chemistry Letters</i> , 2012, 41, 249-251.	0.7	9
53	Sequential one-pot and three-component reactions of an N-heterocyclic carbene to form 4-(1,2,4-triazol-5-ylidene)pyrrolidine-2,5-diones: a tandem umpolung/annulation sequence via deoxy-Breslow intermediates. <i>Tetrahedron</i> , 2012, 68, 9836-9841.	1.0	33
54	Self-Assembly of Oligothiophene Chromophores by <i>m</i> -Calix[3]amide Scaffold. <i>Journal of Organic Chemistry</i> , 2011, 76, 2471-2478.	1.7	21

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55	Syntheses of Aliphatic Polycarbonates from 2-Deoxyribonucleosides. <i>Biomacromolecules</i> , 2011, 12, 1449-1459.	2.6	15
56	Organocatalytic Tail-to-Tail Dimerization of Olefin: Umpolung of Methyl Methacrylate Mediated by N-Heterocyclic Carbene. <i>Organic Letters</i> , 2011, 13, 3722-3725.	2.4	185
57	Polycondensation of 4-Octylaminobenzoic Acid Esters Having Bithiophene at 3-Position and Optical Properties of the Polymers. <i>Kobunshi Ronbunshu</i> , 2011, 68, 33-38.	0.2	5
58	Organocatalytic head-to-tail dimerization of methacrolein via conjugate addition of methanol: an alcohol activation mechanism proved by electrospray ionization mass spectrometry. <i>Tetrahedron Letters</i> , 2011, 52, 6835-6838.	0.7	22
59	Regioselective grignard metathesis reaction of 2,5-dibromo-6-hexylpyridine-thiophene and Kumada coupling polymerization. <i>Journal of Polymer Science Part A</i> , 2011, 49, 4013-4020.	2.5	10
60	Synthesis and isomerization of conjugated oligomers containing azoimidazole unit. <i>Journal of Polymer Science Part A</i> , 2011, 49, 4993-5000.	2.5	4
61	Synthesis and light-emitting properties of carbazole-based copolymers bearing cyano-substituted arylenevinylene chromophore. <i>Journal of Polymer Science Part A</i> , 2010, 48, 91-98.	2.5	8
62	Synthesis and characterization of nitrogen-linked carbazole-containing fluorescent polymers. <i>Journal of Polymer Science Part A</i> , 2010, 48, 3729-3735.	2.5	11
63	Poly(ethylene glycol)-induced acceleration of free radical polymerization of methyl methacrylate: effects of highly viscous solvent and kinetic study. <i>Polymer Journal</i> , 2010, 42, 368-374.	1.3	9
64	Poly[(3-hexylthiophene)-block-(3-semifluoroalkylthiophene)] for Polymer Solar Cells. <i>International Journal of Molecular Sciences</i> , 2010, 11, 5027-5039.	1.8	9
65	Polymerization of branched thiophene monomers and optoelectronic properties of materials. <i>Journal of Polymer Science Part A</i> , 2009, 47, 3034-3044.	2.5	10
66	Synthesis of imidazole-containing conjugated polymers bearing phenol unit as side group and excited state intramolecular proton transfer-mediated fluorescence. <i>Journal of Polymer Science Part A</i> , 2009, 47, 4822-4829.	2.5	12
67	Synthesis and Light-Emitting Behavior of Silicon-Bridged Fluorene Copolymers Bearing Oligoarylenevinylene Chromophore. <i>Polymer Journal</i> , 2009, 41, 733-738.	1.3	2
68	Polymerization of fluorene-based monomers modified with thiavinylidene structure at 9-position and their optical properties. <i>Synthetic Metals</i> , 2009, 159, 228-233.	2.1	7
69	Tropolone-Terminated Oligomeric Fluorophores with Responsive Properties to External Environment. <i>Bulletin of the Chemical Society of Japan</i> , 2009, 82, 236-241.	2.0	8
70	Synthesis of carbazole-based light-emitting polymers incorporating 2,5-bis(phenylethenyl)-4-decyloxyanisole as collateral fluorophore. <i>Journal of Polymer Science Part A</i> , 2008, 46, 8141-8148.	2.5	6
71	Conjugated Oligomers Containing Imidazole in Main Chain with Intramolecular Hydrogen Bonding. <i>Polymer Journal</i> , 2008, 40, 614-621.	1.3	7
72	Polymeric Oligothiophene Fluorophores Spatially Isolated by Spirobifluorene and Their Emission Properties. <i>Macromolecules</i> , 2007, 40, 8807-8811.	2.2	11

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73	Synthesis and optical properties of fluorene-based polymers incorporating organosilicon unit. Journal of Polymer Science Part A, 2007, 45, 4786-4794.	2.5	19
74	Synthesis of Tropone-Containing Conjugated Polymers and Their Optical Properties. Polymer Journal, 2007, 39, 813-821.	1.3	8
75	Synthesis of Fluorene-Based Light-Emitting Polymers Bearing Silane Units and Their Optoelectronic Properties. Kobunshi Ronbunshu, 2006, 63, 663-669.	0.2	5
76	Synthesis of poly(triazinylstyrene) containing nitrogen-based ligand and function as metal ion adsorbent and oxidation catalyst. Reactive and Functional Polymers, 2006, 66, 1718-1724.	2.0	1
77	Synthesis of Triazine-Based Solid Polymer Electrolyte Bearing Oligo (ethylene oxide) Chain. Kobunshi Ronbunshu, 2005, 62, 208-213.	0.2	1
78	Synthesis and photophysical properties of polyfluorenes bearing silicon-based functional groups. Journal of Polymer Science Part A, 2005, 43, 2119-2127.	2.5	29
79	Tropone-Containing Conjugated Polymer, Part V. Polymer Bulletin, 2004, 52, 125.	1.7	3
80	Tropone-containing π -conjugated polymers: Annulation of tropone onto benzene ring in the conjugated polymer. Journal of Polymer Science Part A, 2004, 42, 1208-1215.	2.5	3
81	Coordination of nickel and copper dithiolate to 2,2'-bipyridine-based π -conjugated polymers. Journal of Polymer Science Part A, 2004, 42, 2631-2639.	2.5	3
82	Allylnickel-Catalyzed Living Coordination Polymerization of Allenes with Ester Functionality. Polymer Bulletin, 2003, 50, 335-342.	1.7	13
83	Synthesis of star polystyrene by radical polymerization with 1,2,4,5-tetrakis(p-tert-butylphenyl) Tj ETQq1 1 0.784314,rgBT /Oyerlock 10	2.6	15
84	Acid-doping to Tropone-containing Conjugated Polymer. Chemistry Letters, 2003, 32, 552-553.	0.7	5
85	SYNTHESIS OF DIBLOCK COPOLYMERS BY END FUNCTIONAL POLYSTYRENE CONTAINING PHENYLSELENO GROUPS AS POLYMERIC PHOTOINIFERTER. Journal of Macromolecular Science - Pure and Applied Chemistry, 2002, 39, 991-1006.	1.2	7
86	π -Conjugated oligomers containing tropone in the main chain: Synthesis, characterization, and optical properties. Journal of Polymer Science Part A, 2002, 40, 3927-3937.	2.5	9
87	SYNTHESIS OF ABA TYPE TRIBLOCK COPOLYMERS BY RADICAL POLYMERIZATION WITH 1,4-BIS(p-TERTBUTYLPHENYLSELENOMETHYL) BENZENE AS A PHOTOINIFERTER. Journal of Macromolecular Science - Pure and Applied Chemistry, 2001, 38, 605-626.	1.2	6
88	Synthesis of PPV-Based Conjugated Oligomer Containing Tropone in Main Chain. Chemistry Letters, 2001, 30, 1244-1245.	0.7	6
89	SYNTHESIS AND POLYMERIZATION OF ISOPROPENYL-1,3,5-TRIAZINES CARRYING A LONG ALKYL CHAIN WITH OXYETHYLENE SPACER AND THE SIDE CHAINS CRYSTALLIZATION OF OBTAINED COMB-LIKE POLYMERS. Journal of Macromolecular Science - Pure and Applied Chemistry, 2001, 38, 417-427.	1.2	0
90	RADICAL POLYMERIZATION OF METHYL METHACRYLATE WITH DIPHENYL DISELENIDE UNDER THERMAL OR PHOTOIRRADIATIONAL CONDITIONS. Journal of Macromolecular Science - Pure and Applied Chemistry, 2001, 38, 591-604.	1.2	20

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91	Synthesis of Triazine Dendrimers.. Kobunshi Ronbunshu, 2000, 57, 646-651.	0.2	4
92	Synthesis of Branched Polystyrene by Photopolymerization of Selenium-Containing Styrene Monomer. Polymer Journal, 2000, 32, 970-973.	1.3	15
93	Triazine dendrimers by divergent and convergent methods. Journal of Polymer Science Part A, 2000, 38, 4385-4395.	2.5	36
94	SYNTHESIS OF MACROMONOMER USING END FUNCTIONAL POLYSTYRENE PREPARED FROM p-METHOXYBENZYL p-TRIMETHYL-SILYLPHENYL SELENIDE AS A PHOTOINIFERTER. Journal of Macromolecular Science - Pure and Applied Chemistry, 2000, 37, 1461-1473.	1.2	6
95	Controlled radical polymerization of styrene utilizing excellent radical capturing ability of diphenyl ditelluride. Polymer Bulletin, 1999, 43, 143-150.	1.7	24
96	Synthesis and Radical Polymerization of p-Phenylselenomethylstyrene and Applications to Graft Copolymers. Polymer Journal, 1999, 31, 483-487.	1.3	20
97	Radical Polymerization of p-Substituted Styrenes with Benzyl Phenyl Selenide as Photoiniferter. Polymer Journal, 1999, 31, 411-417.	1.3	15
98	Synthesis of Telechelic Polystyrene by Radical Polymerization Using 1,4-Bis(p-tert-Butylphenylseleno-Methyl)benzene as a Photoiniferter. Journal of Macromolecular Science - Pure and Applied Chemistry, 1998, 35, 1895-1913.	1.2	9
99	Single-feed one-step block copolymerization of n-octyloxallene with phenylallene using η^3 -allylnickel as initiator. Chemical Communications, 1998, , 681-682.	2.2	22
100	Living Coordination Polymerization of Alkoxyallenes by η^3 -Allylnickel Catalyst. 2. Effect of Anionic Ligands on Polymerization Behavior and Polymer Structure. Macromolecules, 1998, 31, 2779-2783.	2.2	28
101	Living Coordination Polymerization of N-Alkenylamides by η^3 -Allylnickel Catalysts. Macromolecules, 1998, 31, 6741-6747.	2.2	41
102	Development and Application of Living Coordination Polymerization of Allene Derivatives by Allylnickel Catalysts.. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 1998, 56, 260-267.	0.0	4
103	Living Coordination Polymerization of Alkylallenes by η^3 -Allylnickel Catalyst: Observation of an Extremely High Polymerizability of 1,2-Cyclononadiene. Chemistry Letters, 1997, 26, 1187-1188.	0.7	19
104	A Novel Living Coordination Polymerization of Phenylallene Derivatives by η^3 -Allylnickel Catalyst. Macromolecules, 1997, 30, 7386-7390.	2.2	82
105	Block copolymerization of alkoxyallenes with phenylallene by the living coordination system with η^3 -allylnickel catalyst. Polymer Bulletin, 1997, 39, 685-692.	1.7	14
106	Design and synthesis of polymerizable cumulated double bond system. -Living coordination polymerization of alkylallenes by η^3 -allylnickel catalyst-. Tetrahedron, 1997, 53, 15187-15196.	1.0	44
107	Block copolymerization of alkoxyallenes by the living coordination system with a η^3 -allylnickel catalyst. Journal of Polymer Science Part A, 1995, 33, 2487-2492.	2.5	19
108	A Novel Living Coordination Polymerization of Methoxyallene by η^3 -Allylnickel Catalyst. Macromolecules, 1994, 27, 4413-4414.	2.2	83

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109	Oxidative (co)polymerization of dithiarubicene derivatives and electrochromic properties of narrow-bandgap conjugated polymers. Polymer Journal, 0, , .	1.3	0