

# Koji Takagi

## List of Publications by Year in descending order

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citations

331670

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#	ARTICLE	IF	CITATIONS
1	Toward the Synthesis of a Belt-Shaped Cyclic $\pi$ -Conjugated System Comprising <i>para</i> -Phenylene Framework and Amide Bridging Unit. Bulletin of the Chemical Society of Japan, 2022, 95, 47-51.	3.2	3
2	Study on Controlling the Surface Structure and Properties of a Cellulose Nanocrystal Film Modified Using Alkoxysilanes in Green Solvents. Langmuir, 2022, 38, 5550-5556.	3.5	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. Macromolecules, 2022, 55, 3671-3680.	4.8	9
4	Palladium-Catalyzed intramolecular direct arylation of aromatic tertiary amide compounds revisited. Results in Chemistry, 2022, 4, 100432.	2.0	0
5	Application of Thiourea/Halogen Bond Donor Cocatalysis in Metal-Free Cationic Polymerization of Isobutyl Vinyl Ether and Styrene Derivatives. Macromolecules, 2022, 55, 5756-5765.	4.8	12
6	End-functionalization of dithiarubicene: modulation of optoelectronic properties by metal-catalyzed coupling reactions and device application. Journal of Materials Chemistry C, 2021, 9, 5920-5929.	5.5	4
7	Stereoselectivity in dehydrative cyclic trimerization of substituted 4-alkylaminobenzoic acids. New Journal of Chemistry, 2021, 45, 1187-1193.	2.8	1
8	Dicationic oligotelluroxane or mononuclear telluronium cation? Elucidation of the true catalytic species and activation mechanism of the benzylic carbon-halogen bond. Chemical Communications, 2021, 57, 13736-13739.	4.1	9
9	Cationic polymerization of vinyl monomers using halogen bonding organocatalysts with varied activity. Polymer Chemistry, 2020, 11, 6739-6744.	3.9	13
10	Ladderization of poly( <i>p</i> -phenylenevinylene) derivative: Synthesis of polycyclic aromatic hydrocarbon polymer by intramolecular oxidative cyclization. Polymer, 2019, 179, 121607.	3.8	3
11	Cationic polymerization of <i>n</i> -hexyloxyallene by using halogen bonding organocatalysts. Journal of Polymer Science Part A, 2019, 57, 2436-2441.	2.3	10
12	Charge-neutral and self-doped cyclopentadithiophene-based conjugated polymers: Influence of side chain on optical, electrical, and thermoelectric properties. Polymer, 2019, 181, 121787.	3.8	2
13	Ladderization of polystyrene derivatives by palladium-catalyzed polymer direct arylation. Polymer Chemistry, 2019, 10, 2647-2652.	3.9	5
14	Chiral Non-Planar Oligophenylenes Bridged by Urea Linkage: Synthesis through Intramolecular Direct Arylation, Chiroptical Behavior, and Theoretical Investigation. European Journal of Organic Chemistry, 2019, 2019, 2071-2080.	2.4	4
15	$\pi$ -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. Journal of Materials Chemistry C, 2019, 7, 12610-12618.	5.5	17
16	Potentially helical imidazole-containing conjugated oligomers: synthesis, optical properties, and conformation. Polymer Journal, 2019, 51, 389-395.	2.7	1
17	ESIPT emission behavior of methoxy-substituted 2-hydroxyphenylbenzimidazole isomers. New Journal of Chemistry, 2018, 42, 5923-5928.	2.8	27
18	Solid-State Esterification via Ionic-to-Covalent Bond Transformation in Ionic Molecular Crystals Consisting of Disubstituted Anthracene Anion-Cation Combinations. Bulletin of the Chemical Society of Japan, 2018, 91, 343-348.	3.2	1

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19	Innentitelbild: Creating Elastic Organic Crystals of $\pi$ -Conjugated Molecules with Bending Mechanofluorochromism and Flexible Optical Waveguide (Angew. Chem. 52/2018). Angewandte Chemie, 2018, 130, 17154-17154.	2.0	0
20	Creating Elastic Organic Crystals of $\pi$ -Conjugated Molecules with Bending Mechanofluorochromism and Flexible Optical Waveguide. Angewandte Chemie, 2018, 130, 17248-17254.	2.0	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.	2.2	1
22	Creating Elastic Organic Crystals of $\pi$ -Conjugated Molecules with Bending Mechanofluorochromism and Flexible Optical Waveguide. Angewandte Chemie - International Edition, 2018, 57, 17002-17008.	13.8	170
23	Synthesis and Field-Effect Transistor Application of $\pi$ -Extended Lactam-Fused Conjugated Oligomers obtained by Tandem Direct Arylation. Chemistry - A European Journal, 2018, 24, 14137-14145.	3.3	10
24	Synthesis of polythiophene derivative bearing methoxy and pyridine groups at the $\hat{1}^2$ -position and formation of an intramolecular hydrogen bonding through the polymer reaction. Polymer, 2017, 114, 221-230.	3.8	2
25	Termination reaction of living poly(3-hexylthiophene) using thiophene Grignard reagents: Substituent effect on the functionalization. Polymer, 2017, 117, 354-363.	3.8	2
26	Halogen-Bonding-Mediated and Controlled Cationic Polymerization of Isobutyl Vinyl Ether: Expanding the Catalytic Scope of 2-iodoimidazolium Salts. Chemistry - A European Journal, 2017, 23, 9495-9500.	3.3	40
27	Synthesis and Optical Properties of Excited-State Intramolecular Proton Transfer Active $\pi$ -Conjugated Benzimidazole Compounds: Influence of Structural Rigidification by Ring Fusion. Journal of Organic Chemistry, 2017, 82, 12173-12180.	3.2	34
28	Regioselective halogen-magnesium exchange reaction of a bithiophene derivative bearing methoxy and pyridine groups at the $\hat{1}^2$ -position and Kumada coupling polymerization. Polymer Journal, 2017, 49, 649-654.	2.7	2
29	Synthesis and Optical Properties of Fused $\pi$ -Conjugated Imidazole Compounds. Chemistry Letters, 2017, 46, 1372-1375.	1.3	6
30	Precision Spatial Arrangement of Chromophores Using Cyclic Aromatic Triamide Scaffolds. , 2017, , 317-346.		0
31	Molecular design for tuning electronic structure of $\pi$ -conjugated polymers containing fused dithienobenzimidazole units. Polymer, 2016, 107, 191-199.	3.8	3
32	Synthesis and Optical Properties of $\pi$ -Conjugated Polymers Containing Fused Imidazole Skeleton. Macromolecules, 2016, 49, 8879-8887.	4.8	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.	2.7	2
34	Fused $\pi$ -conjugated imidazolium liquid crystals: synthesis, self-organization, and fluorescence properties. RSC Advances, 2016, 6, 9152-9159.	3.6	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.	4.8	4
36	Synthesis and Optical Properties of Imidazole- and Benzimidazole-Based Fused $\pi$ -Conjugated Compounds: Influence of Substituent, Counteranion, and $\pi$ -Conjugated System. Journal of Organic Chemistry, 2015, 80, 7172-7183.	3.2	25

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37	Diastereoselective cyclization of an aminobenzoic acid derivative and chiroptical properties of triple-stranded helical bis(phenylethynyl)benzene. Chemical Communications, 2015, 51, 5710-5713.	4.1	15
38	Amide-bridged ladder poly(p-phenylene): synthesis by direct arylation and $\pi$ -stacked assembly. Polymer Chemistry, 2015, 6, 6792-6795.	3.9	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. Journal of Polymer Science Part A, 2014, 52, 401-409.	2.3	5
41	Synthesis, reaction, and optical properties of cyclic oligomers bearing 9,10-diphenylanthracene based on an aromatic tertiary amide unit. RSC Advances, 2014, 4, 6752.	3.6	11
42	Aggregation of polythiophene homopolymer and block copolymer in solution utilizing the characteristics of pyridine at the side chain. Journal of Polymer Science Part A, 2014, 52, 3383-3389.	2.3	5
43	Synthesis and characterization of polythiophene derivatives with nitrogen heterocycles on the side chain. Journal of Polymer Science Part A, 2014, 52, 2166-2174.	2.3	12
44	Helicity Induction in Three $\pi$ -Conjugated Chromophores by Planar Chirality of Calixamide. Chemistry - A European Journal, 2013, 19, 11853-11857.	3.3	25
45	Experimental Mechanistic Studies of the Tail-to-Tail Dimerization of Methyl Methacrylate Catalyzed by N-Heterocyclic Carbene. Journal of Organic Chemistry, 2013, 78, 8739-8747.	3.2	57
46	N-Heterocyclic Carbene-Catalyzed Cyclotetramerization of Acrylates. Organic Letters, 2013, 15, 5916-5919.	4.6	40
47	Synthesis and optical properties of poly(p-benzamide)s bearing oligothiophene on the amide nitrogen atom through an alkylene spacer. Polymer Journal, 2013, 45, 1171-1176.	2.7	7
48	A screw-shaped alignment of pyrene using m-calix[3]amide. Tetrahedron, 2013, 69, 1516-1520.	1.9	9
49	Synthesis of green and blue fluorescent ladder-type conjugated imidazolium compounds. Organic and Biomolecular Chemistry, 2013, 11, 2245.	2.8	11
50	Synthesis and optical properties of conjugated polymers bearing a 1,8-difunctionalized carbazole unit. Polymer Journal, 2013, 45, 396-400.	2.7	10
51	Polymerization Reactions (Overview)., 2013, , 1-6.		0
52	Preparation of Molecular Cage by Coordination of $\pi$ -Calix[3]amide Bearing Pyridine with Palladium Complex. Chemistry Letters, 2012, 41, 249-251.	1.3	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. Tetrahedron, 2012, 68, 9836-9841.	1.9	33
54	Self-Assembly of Oligothiophene Chromophores by $\pi$ -Calix[3]amide Scaffold. Journal of Organic Chemistry, 2011, 76, 2471-2478.	3.2	21

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55	Syntheses of Aliphatic Polycarbonates from 2'-Deoxyribonucleosides. <i>Biomacromolecules</i> , 2011, 12, 1449-1459.	5.4	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.	4.6	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.	1.4	22
59	Regioselective grignard metathesis reaction of 2,5-dibromo-6-(6-hexylpyridine-2-yl)thiophene and Kumada coupling polymerization. <i>Journal of Polymer Science Part A</i> , 2011, 49, 4013-4020.	2.3	10
60	Synthesis and isomerization of conjugated oligomers containing azoimidazole unit. <i>Journal of Polymer Science Part A</i> , 2011, 49, 4993-5000.	2.3	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.	2.3	8
62	Synthesis and characterization of nitrogen-linked carbazole-containing fluorescent polymers. <i>Journal of Polymer Science Part A</i> , 2010, 48, 3729-3735.	2.3	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.	2.7	9
64	Poly[(3-hexylthiophene)-block-(3-semifluoroalkylthiophene)] for Polymer Solar Cells. <i>International Journal of Molecular Sciences</i> , 2010, 11, 5027-5039.	4.1	9
65	Polymerization of branched thiophene monomers and optoelectronic properties of materials. <i>Journal of Polymer Science Part A</i> , 2009, 47, 3034-3044.	2.3	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.	2.3	12
67	Synthesis and Light-Emitting Behavior of Silicon-Bridged Fluorene Copolymers Bearing Oligoarylenevinylene Chromophore. <i>Polymer Journal</i> , 2009, 41, 733-738.	2.7	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.	3.9	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.	3.2	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.	2.3	6
71	Conjugated Oligomers Containing Imidazole in Main Chain with Intramolecular Hydrogen Bonding. <i>Polymer Journal</i> , 2008, 40, 614-621.	2.7	7
72	Polymeric Oligothiophene Fluorophores Spatially Isolated by Spirobifluorene and Their Emission Properties. <i>Macromolecules</i> , 2007, 40, 8807-8811.	4.8	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.	2.3	19
74	Synthesis of Tropone-Containing Conjugated Polymers and Their Optical Properties. Polymer Journal, 2007, 39, 813-821.	2.7	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.	4.1	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.	2.3	29
79	Tropone-Containing Conjugated Polymer, Part V. Polymer Bulletin, 2004, 52, 125.	3.3	3
80	Tropone-containing $\pi$ -conjugated polymers: Annulation of tropone onto benzene ring in the conjugated polymer. Journal of Polymer Science Part A, 2004, 42, 1208-1215.	2.3	3
81	Coordination of nickel and copper dithiolate to 2,2'-bipyridine-based $\pi$ -conjugated polymers. Journal of Polymer Science Part A, 2004, 42, 2631-2639.	2.3	3
82	Allylnickel-Catalyzed Living Coordination Polymerization of Allenes with Ester Functionality. Polymer Bulletin, 2003, 50, 335-342.	3.3	13
83	Synthesis of star polystyrene by radical polymerization with 1,2,4,5-tetrakis(p-tert-butylphenyl) triethyleneglycol ether. Journal of Polymer Science Part A, 2003, 41, 1078-1084.	0.78	15
84	Acid-doping to Tropone-containing Conjugated Polymer. Chemistry Letters, 2003, 32, 552-553.	1.3	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.	2.2	7
86	$\pi$ -Conjugated oligomers containing tropone in the main chain: Synthesis, characterization, and optical properties. Journal of Polymer Science Part A, 2002, 40, 3927-3937.	2.3	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.	2.2	6
88	Synthesis of PPV-Based Conjugated Oligomer Containing Tropone in Main Chain. Chemistry Letters, 2001, 30, 1244-1245.	1.3	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.	2.2	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.	2.2	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.	2.7	15
93	Triazine dendrimers by divergent and convergent methods. Journal of Polymer Science Part A, 2000, 38, 4385-4395.	2.3	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.	2.2	6
95	Controlled radical polymerization of styrene utilizing excellent radical capturing ability of diphenyl ditelluride. Polymer Bulletin, 1999, 43, 143-150.	3.3	24
96	Synthesis and Radical Polymerization of p-Phenylselenomethylstyrene and Applications to Graft Copolymers. Polymer Journal, 1999, 31, 483-487.	2.7	20
97	Radical Polymerization of p-Substituted Styrenes with Benzyl Phenyl Selenide as Photoiniferter. Polymer Journal, 1999, 31, 411-417.	2.7	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.	2.2	9
99	Single-feed one-step block copolymerization of n-octyloxallene with phenylallene using $\eta^3$ -allylnickel as initiator. Chemical Communications, 1998, , 681-682.	4.1	22
100	Living Coordination Polymerization of Alkoxyallenes by $\eta^3$ -Allylnickel Catalyst. 2. Effect of Anionic Ligands on Polymerization Behavior and Polymer Structure. Macromolecules, 1998, 31, 2779-2783.	4.8	28
101	Living Coordination Polymerization of N-Alkenylamides by $\eta^3$ -Allylnickel Catalysts. Macromolecules, 1998, 31, 6741-6747.	4.8	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.	0.1	4
103	Living Coordination Polymerization of Alkylallenes by $\eta^3$ -Allylnickel Catalyst: Observation of an Extremely High Polymerizability of 1,2-Cyclononadiene. Chemistry Letters, 1997, 26, 1187-1188.	1.3	19
104	A Novel Living Coordination Polymerization of Phenylallene Derivatives by $\eta^3$ -Allylnickel Catalyst. Macromolecules, 1997, 30, 7386-7390.	4.8	82
105	Block copolymerization of alkoxyallenes with phenylallene by the living coordination system with $\eta^3$ -allylnickel catalyst. Polymer Bulletin, 1997, 39, 685-692.	3.3	14
106	Design and synthesis of polymerizable cumulated double bond system. -Living coordination polymerization of alkylallenes by $\eta^3$ -allylnickel catalyst-. Tetrahedron, 1997, 53, 15187-15196.	1.9	44
107	Block copolymerization of allene derivatives with isocyanides by the coordination polymerization with $\eta^3$ -allylnickel catalyst. Journal of Polymer Science Part A, 1997, 35, 431-437.	2.3	0
108	Block copolymerization of alkoxyallenes by the living coordination system with a $\eta^3$ -allylnickel catalyst. Journal of Polymer Science Part A, 1995, 33, 2487-2492.	2.3	19

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109	A Novel Living Coordination Polymerization of Methoxyallene by $\pi$ -Allylnickel Catalyst. Macromolecules, 1994, 27, 4413-4414.	4.8	83
110	Oxidative (co)polymerization of dithiarubicene derivatives and electrochromic properties of narrow-bandgap conjugated polymers. Polymer Journal, 0, , .	2.7	0