

Original papers

Google Scholar: <https://scholar.google.com/citations?user=2E0ht9EAAAAJ&hl=en>

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Synthesis of Fluorocycloparaphenylenes via Macrocyclic Pd Complexes

Ryogo Oneda, Hiroya Igarashi, Zhe Sheng, Takaki Kanbara, Junpei Kuwabara *

Chem. Eur. J., **2025**, in press.

Effects of Ring Strain on Molecular Dynamics of Sterically Hindered 4,7-Phenanthroline Unit

Naruki Ishida, Yoshitaka Tsuchido, Yukihiro Shimoi, Kazuhiro Marumoto, Takaki Kanbara, Junpei Kuwabara*

Eur. J. Org. Chem., **2025**, 28, e202500644.

Synthesis of a Thiazole N-Oxide-based π -Conjugated Polymer via Direct Arylation Polycondensation under Mild Conditions

Junhui Chen, Akito Ichige, Tianyi Cai, Junpei Kuwabara, Takeshi Yasuda, Takaki Kanbara*

Polymer, **2025**, 337, 129006.

Synthesis of Conjugated Polymers with Controlled Terminal Structures by Direct Arylation Polycondensation and Correlation Between Terminal Structures and Emission Properties

Ziwei Hu, Takeshi Yasuda, Takaki Kanbara*, Junpei Kuwabara*

Macromol. Chem. Phys. **2025**, 226, 2400506.

Synthesis of Bithiazole-Based Poly (arylenevinylene) s via Co-Catalyzed Hydroarylation Polyaddition and Tuning of Their Optical Properties by N-Methylation and N-Oxidation

Boya Li, Ryota Iwamori, Junpei Kuwabara, Takeshi Yasuda, Takaki Kanbara*

Macromol. Rapid Commun., **2025**, 46, 2401082.

Molecular design and synthesis of narrow-bandgap poly (thienylenevinylene) s via Co-catalyzed hydroarylation polyaddition

Ryota Iwamori, Kenta Miyata, Junpei Kuwabara, Takeshi Yasuda, Takaki Kanbara*

Synth. Met., **2025**, 311, 117817.

Synthesis of Tetraaryl Diazachrysenes by the Povarov Reaction and π Extension To Construct a Condensed Azaperylene Motif

Yuanrong Shan, Takeshi Yasuda, Takaki Kanbara, Junpei Kuwabara*

Asian J. Org. Chem., **2025**, 14, e202400625.

Spontaneous Formation of π -Conjugated Polymeric Colloidal Molecules Through Stepwise Coacervation and Symmetric Compartmentalization

Osamu Oki, Shunichiro Noguchi, Sota Nakayama, Hiroshi Yamagishi, Junpei Kuwabara, Takaki Kanbara, Yohei Yamamoto*

Small, **2025**, 21, 2570039.

Mechanistic study on the reductive elimination of (aryl)(fluoroaryl) palladium complexes: a key step in regiospecific dehydrogenative cross-coupling

Tomoki Iida, Ryota Sato, Yusuke Yoshigoe, Takaki Kanbara*, Junpei Kuwabara*

Dalton Trans., **2024** 2024, 53, 13340-13347. (Selected as an open access article, Front cover image of the journal).

(IF = 3.5) times cited: 0

Near-unity angular anisotropy of circularly polarized luminescence from microspheres of monodispersed chiral conjugated polymers

Sota Nakayama, Hiroshi Yamagishi*, Osamu Oki, Soh Kushida, Junhui Chen, Junpei Kuwabara, Takaki Kanbara, Wijk Yospunya, Reiko Oda, Yohei Yamamoto*

Chem. Commun., **2024**, 60, 7634–7637. (IF = 4.3) times cited: 0

Regioselective Synthesis of Pyrrole-Based Poly (arylenevinylene)s via Mn-Catalyzed Hydroarylation Polyaddition

Kakeru Tsukahara, Ryota Iwamori, Junpei Kuwabara, Takaki Kanbara*

Macromol. Rapid Commun., **2024**, 45, 2400456. (IF = 4.2) times cited: 0

Molecular Design of Naphthalene- and Carbazole-Based Monomers for Regiospecific Synthesis of Poly (arylenevinylene)s via Co-Catalyzed Hydroarylation Polyaddition

Ryota Iwamori, Junpei Kuwabara, Takeshi Yasuda, Takaki Kanbara*

Macromol. Rapid Commun., **2024**, 45, 2400168. (IF = 4.2) times cited: 1

Regioselective synthesis of thiophene-based poly(arylenevinylene)s via Co-catalyzed hydroarylation polyaddition

Ryota Iwamori, Junpei Kuwabara, Takeshi Yasuda, Takaki Kanbara*

Macromolecules, **2023**, 56, 5407–5414. (IF = 5.1) times cited: 3

Flexible and Red-Emissive Organic Single-Crystal Microresonator for Efficient Active Waveguides

Takumi Matsuo,* Junpei Kuwabara, Takaki Kanbara and Shotaro Hayashi*

J. Phys. Chem. Lett., **2023**, 14, 6577–6582. (IF = 4.8) times cited: 3

Synthesis of Triazatriphenylene Derivative Through Multi-Component Reaction of Aryl-amine, Aldehyde, and Alkyne

Sachie Yamamoto, Naruki Ishida, Takeshi Yasuda, Takaki Kanbara, Junpei Kuwabara*

Asian J. Org. Chem., **2023**, e202300181. (IF = 2.8) times cited: 0

Straightforward and regiospecific synthesis of 1,3,5,7-tetra-arylated acene bearing different aryl groups

Ryota Sato, Kunfeng Chen, Takeshi Yasuda, Takaki Kanbara*, Junpei Kuwabara*

Org. Chem. Front., **2023**, 10, 2955-2962. (IF = 4.6) times cited: 2

Nonstoichiometric Direct Arylation Polymerization of Octafluorobiphenyl with 2,7-Diiodofluorene for Regulating C-H Terminals of π -Conjugated Polymer

Lisa Takimoto, Taiki Goto, Junhui Chen, Junpei Kuwabara, Takaki Kanbara*

Macromol. Rapid Commun., **2023**, 202300225. (IF = 4.2) times cited: 2

Facile Synthesis of Bis-pentafluoroarylated Anthracene Derivatives for N-type Organic-Field-Effect Transistor Applications

Ryota Sato, Takeshi Yasuda, Takanobu Hiroto, Takaki Kanbara*, Junpei Kuwabara*

Chem. Eur. J., **2023**, 29, e202203816. (IF = 3.9) times cited: 6

One-pot two-step cross-dehydrogenative-coupling polycondensation for synthesis of tetrafluorobenzene-based conjugated polymer

Naoki Onda, Ryota Sato, Junpei Kuwabara, Takeshi Yasuda, Takaki Kanbara*

Synth. Met., **2023**, 293, 117279. (IF = 4.0) times cited: 4

Direct Arylation Polycondensation for Synthesis of Medium-Bandgap Polymer Donors (PBDB-T) for Organic Photovoltaics

Junpei Kuwabara*, Kota Hiyaji, Shuyang Guo, Xin Jiang, Takeshi Yasuda, Takaki Kanbara*

Polym. J., **2023**, 55, 395-404. (IF = 2.3) times cited: 2

Unique regioselectivity of the Pd-catalysed cross-dehydrogenative coupling reaction of simple polyaromatic hydrocarbons with polyfluoroarenes

Ryota Sato, Tomoki Iida, Takaki Kanbara*, Junpei Kuwabara*

Chem Commun., **2022**, 58, 11511-11514. (IF = 4.3) times cited: 10

Tracking side reactions of the inverse vulcanization process and developing monomer selection guidelines

Yusuke Onose, Yuri Ito, Junpei Kuwabara*, Takaki Kanbara*

Polym. Chem., **2022**, 13, 5486-5493. (IF = 4.1) times cited: 9

Facile Synthesis of 1,7-Phenanthroline Derivatives and Evaluation of Their Properties as Hole-Blocking Materials in Organic Light-Emitting Diodes

Sachie Yamamoto, Takeshi Yasuda, Takaki Kanbara, Junpei Kuwabara*

Bull. Chem. Soc. Jpn., **2022**, 95, 458-465. (IF = 3.3)

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Ryota Iwamori, Ryota Sato, Junpei Kuwabara, Takaki Kanbara*

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Junpei Kuwabara*, Ryuya Kawasaki, Takeshi Yasuda, Takaki Kanbara*

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Direct Evidence of the Internal Deterioration Mechanism due to Molecular Chain Ends in Polymer Solar Cells by Operando Spin Detection

Haruka Asai, Dong Xue, Shinpei Kamiya, Junpei Kuwabara, Takaki Kanbara, Kazuhiro Marumoto*

ACS Appl. Polym. Mater. **2022**, 4, 607–617. (IF = 4.4) times cited: 6

Fluorescence Switchable Conjugated Polymer Microdisk Arrays by Cosolvent Vapor Annealing

Hiroshi Yamagishi, Tokiya Matsui, Yusuke Kitayama, Yusuke Aikyo, Liang Tong, Junpei Kuwabara, Takaki Kanbara, Masakazu Morimoto, Masahiro Irie, Yohei Yamamoto

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Synthesis of Azine-Based Conjugated Polymers by Metal-Free Dehydration Polycondensation and Characterization of Their Physical Properties

Hiroki Murakami, Kyoya Kobayashi, Keita Suzuki, Takeshi Yasuda, Takaki Kanbara, Junpei Kuwabara*

Macromolecules, **2021**, 54, 11281–11288. (IF = 5.1) times cited: 7

Synthesis of pyrrole-based poly(arylenevinylene)s via Co-catalyzed hydroarylation of alkynes

Ryota Iwamori, Ryota Sato, Junpei Kuwabara, Takeshi Yasuda, and Takaki Kanbara*

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One-Pot Synthesis of Triazatriphenylene Using the Povarov Reaction

Sachie Yamamoto, Zong Yang Zhou, Goki Hiruta, Katsuhiko Takeuchi, Jun-Chul Choi, Takeshi Yasuda, Takaki Kanbara, Junpei Kuwabara*

J. Org. Chem., **2021**, 86, 7920-7927. (IF = 3.3) times cited: 12

Algae-Inspired, Sulfur-Based Polymer with Infrared Transmission and Elastic Function

Junpei Kuwabara, Kaho Oi, Makoto M. Watanabe, Takashi Fukuda*, Takaki Kanbara*

ACS Appl. Polym. Mater., **2020**, 2, 5173-5178. (IF = 4.4) times cited: 22

Air-stable Pd (0) catalyst bearing dual phosphine ligands: a detailed evaluation of air stability and catalytic

property in cross-coupling reactions

Ryota Sato, Takaki Kanbara* Junpei Kuwabara*

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Facile access to conjugated polymers under aerobic conditions via Pd-Catalyzed direct arylation and aryl amination polycondensation

Xi Chen, Akito Ichige, Junhui Chen, Iori Fukushima, Junpei Kuwabara, Takaki Kanbara*

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Mechanistic Study of Pd/Ag Dual-Catalyzed Cross-Dehydrogenative Coupling of Perfluoroarenes with Thiophenes

Yuto Shimoyama, Junpei Kuwabara, Takaki Kanbara*

ACS Catalysis, **2020**, 10, 3390-3397. (IF = 11.3) times cited: 32

Synthesis of an Air-Stable Pd(0) Catalyst Bearing Donor and Acceptor Phosphine Ligands

Ryota Sato, Takaki Kanbara* Junpei Kuwabara*

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Effect of Purification Solvent on Polymer Impurities and Device Performance

Shunsuke Kodama, Junpei Kuwabara*, Xin Jiang, Iori Fukushima, Takaki Kanbara*

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Synthesis and Characterization of Sulfur-Based Polymers from Elemental Sulfur and Algae Oil

Shuhei Oishi, Kaho Oi, Junpei Kuwabara*, Ryo Omoda, Yuichi Aihara, Takashi Fukuda, Toshikazu Takahashi, Jun.-Chul. Choi, Makoto Watanabe, Takaki Kanbara*

ACS Appl. Polym. Mater., **2019**, 1, 1195-1202. (IF = 4.4) times cited: 39

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Kazuhisa Ohtake, Yusuke Onose, Junpei Kuwabara, Takaki Kanbara*

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[Pd(4-R₃Si-IPr)(allyl)Cl], a Family of Silyl-Substituted Pd-NHC Complexes: Catalytic Systems for the Buchwald-Hartwig Amination

Norihisa Fukaya*, Tomoteru Mizusaki, Kouhei Hatakeyama, Yuto Seo, Yuuya Inaba, Kazuhiro Matsumoto, Vladimir Ya. Lee, Yukio Takagi, Junpei Kuwabara, Takaki Kanbara, Yoong-Kee Choe, and Jun-Chul Choi*

Organometallics, **2019**, 38, 375-384. (IF = 2.5) times cited: 24

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Chie Tanaka, Junpei Kuwabara, Takeshi Yasuda, Takaki Kanbara*

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Synthesis of conjugated polymers via direct C-H/C-Cl coupling reactions using a Pd/Cu binary catalytic system

Junpei Kuwabara*, Wataru Tsuchida, Shuyang Guo, Ziwei Hu, Takeshi Yasuda, Takaki Kanbara*

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Kazuhisa Ohtake, Yusuke Onose, Junpei Kuwabara, Takaki Kanbara*

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Facile Synthesis of Thienopyrroledione-based π -Conjugated Polymers via Direct Arylation Polycondensation under Aerobic Conditions

Akito Ichige, Hitoshi Saito, Junpei Kuwabara, Takeshi Yasuda, Jun-Chul Choi, Takaki Kanbara*

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Synthesis of Polyfluoro Arylene-Based Poly(arylenevinylene)s via Pd-Catalyzed Dehydrogenative Direct Alkenylation

Hitoshi Saito, Junpei Kuwabara, Takeshi Yasuda, Takaki Kanbara*

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Multi-molecular emission of a cationic Pt(II) complex through hydrogen bonding interaction

Kaho Yamaguchi, Kazuma Yamawaki, Takuya Kimura, Junpei Kuwabara*, Takeshi Yasuda, Yoshinobu Nishimura, Takaki Kanbara*

Dalton. Trans., **2018**, 47, 4081-4092. (IF = 3.5) times cited: 5

Synthesis of bithiazole-based semiconducting polymers via Cu-catalysed aerobic oxidative coupling

Alanna Faradhiyani, Qiao Zhang, Keisuke Maruyama, Junpei Kuwabara*, Takeshi Yasuda, and Takaki Kanbara*

Mater. Chem. Front., **2018**, 2, 1306-1309. (IF = 8.683) times cited: 22

FRET-mediated near infrared whispering gallery modes: studies on the relevance of intracavity energy transfer with Q-factors

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Hideaki Aoki, Hitoshi Saito, Yuto Shimoyama, Junpei Kuwabara, Takeshi Yasuda, Takaki Kanbara*
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Junpei Kuwabara, Tomoni Namekawa, Eiko Sakabe, Masa-aki Haga, Takaki Kanbara*
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Synthesis of Conjugated Polymers Possessing Diketopyrrolopyrrole (DPP) Units Bearing Phenyl, Pyridyl, and Thiazolyl Groups by Direct Arylation Polycondensation: Effects of Aromatic Groups in DPP on Physical Properties
Junpei Kuwabara, Naoto Takase, Takeshi Yasuda, Takaki Kanbara*
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Junpei Kuwabara, Takeshi Yasuda, Naoto Takase, Takaki Kanbara*
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Improved power conversion efficiency of bulk-heterojunction organic photovoltaic cells using neat C70 as an

effective acceptor for an amorphous p-conjugated polymer

Takeshi Yasuda*, Junpei Kuwabara, Liyuan Han, Takaki Kanbara

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Wei Lu, Junpei Kuwabara*, Masahiro Kuramochi, Takaki Kanbara*

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Preparation and Characterization of Green Reflective Films of Polyaniline Analogs Containing Azobenzene Units

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Matsuishi, Takaki Kanbara*

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Aggregation-induced emission behavior of a pincer platinum(II) complex bearing a poly(ethylene oxide) chain in aqueous solution

Hiroya Honda, Junpei Kuwabara, Takaki Kanbara*

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Self-assembled conjugated polymer spheres as fluorescent microresonators

Kenichi Tabata,, Daniel Braam, Soh Kushida, Liang Tong, Junpei Kuwabara, Takaki Kanbara, Andreas Beckel,

Axel Lorke*, Yohei Yamamoto*

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Takuya Yamagata, Junpei Kuwabara, Takaki Kanbara*

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Natsuko Uchida, Ruoxi Zhi, Junpei Kuwabara, Takaki Kanbara*

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Eisuke Takai, Tsuyoshi Kitamura, Junpei Kuwabara, Satoshi Ikawa, Shunsuke Yoshizawa, Kentaro Shiraki,

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Yuta Nohara, Junpei Kuwabara*, Takeshi Yasuda, Liyuan Han, Takaki Kanbara*

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Hiroya Honda, Yasuyuki Ogawa, Junpei Kuwabara, Takaki Kanbara*

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Tetramethylbithiophene in π -Conjugated Alternating Copolymers as Effective Structural Component for the Formation of Spherical Assemblies

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Direct Arylation Polycondensation: A Promising Method for the Synthesis of Highly Pure, High-Molecular-Weight Conjugated Polymers Needed for Improving the Performance of Organic Photovoltaics

Junpei Kuwabara, Takeshi Yasuda, Seong Jib Choi, Wei Lu, Koutarou Yamazaki, Shigehiro Kagaya, Liyuan Han, Takaki Kanbara*

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Delayed Fluorescence Behaviors of Aminopyridine Oligomers: Azacalix[n](2,6)pyridines (n = 3, 4) and their Linear Analog

Natsuko Uchida, Tohru Sato, Junpei Kuwabara, Yoshinobu Nishimura, Takaki Kanbara*

Chem. Lett., **2014**, 43, 459-461. (IF = 1.4) times cited: 7

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Yoko Komiyama, Junpei Kuwabara*, Takaki Kanbara*

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Takuya, Yamagata, Junpei Kuwabara, Takaki Kanbara*

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Molecular Mechanism of Plasma Sterilization in Solution with the Reduced pH Method: Importance of Permeation of HOO radicals into the cell membrane

Eisuke Takai, Satoshi Ikawa, Katsuhisa Kitano, Junpei Kuwabara, Kentaro Shiraki*

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Microwave-Assisted Polycondensation via Direct Arylation of 3,4-Ethylenedioxythiophene with 9,9-Dioctyl-2,7-dibromofluorene

Seong Jib Choi, Junpei Kuwabara*, Takaki Kanbara*

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Synthesis of π -Conjugated Polymer Consisting of Pyrrole and Fluorene Units by Ru-Catalyzed Site-Selective Direct Arylation Polycondensation

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