

Original papers

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

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Structure-Product Relationships in Azine-Based Conjugated Polymers: Linear versus Cyclic Topologies and n-Type Semiconducting Properties

Hidetoyo Kanzawa; Kyoya Kobayashi; Keita Suzuki; Yusei Kubota; Hiroki Murakami; Ziwei Hu; Takeshi Yasuda; Takaki Kanbara; Junpei Kuwabara*

Polym. Chem., **2026**, 17, 3588-3595.

Reproducible chiroptical activity from aggregated chiral thienopyrroledione–fluorene π -conjugated polymers

Nao Suzuki, Ziwei Hu, Sota Nakayama, Soh Kushida, Yohei Yamamoto, Wijk Yospanya, Reiko Oda, Takaki Kanbara, Junpei Kuwabara*

Sci. Technol. Adv. Mater. **2026**, 27, 2680968.

Balancing stability and reactivity: a robust Pd(II) biaryl precatalyst for rapid generation of catalytically active Pd(0) species

WeiQi Li, Tomoki Iida, Manaka Kaneko, Ziwei Hu, Takaki Kanbara, Junpei Kuwabara*

Inorg. Chem. Front. **2026**, 13, 5931-5939.

Synthesis of Fluorocycloparaphenylenes via Macrocyclic Pd Complexes

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

Chem. Eur. J., **2026**, 32, e03461.

Influence of Phenyl Substitution Position on the Physical Properties of Diazachrysenes

Yuanrong Shan, Hidetoyo Kanzawa, Jinxian Huang, Takeshi Yasuda, Yukihiro Shimoi, Kazuhiro Marumoto, Takaki Kanbara, Junpei Kuwabara*

Asian J. Org. Chem. **2026**, 15, e70356.

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 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 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.

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 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.

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*

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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).

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 Yospanya, Reiko Oda, Yohei Yamamoto*

Chem. Commun., **2024**, 60, 7634–7637.

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*

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

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

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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*

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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*

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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*

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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*

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

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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*

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

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

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

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

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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*

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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*

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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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Hiroki Murakami, Kyoya Kobayashi, Keita Suzuki, Takeshi Yasuda, Takaki Kanbara, Junpei Kuwabara*
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One-Pot Synthesis of Triazatriphenylene Using the Povarov Reaction

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

Junpei Kuwabara, Kaho Oi, Makoto M. Watanabe, Takashi Fukuda*, Takaki Kanbara*
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Ryota Sato, Takaki Kanbara* Junpei Kuwabara*
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Mechanistic Study of Pd/Ag Dual-Catalyzed Cross-Dehydrogenative Coupling of Perfluoroarenes with Thiophenes

Yuto Shimoyama, Junpei Kuwabara, Takaki Kanbara*
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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*

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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*

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Synthesis of conjugated polymer consisting of three-component aromatic units via two-step cross-dehydrogenative-coupling reactions

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

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Synthesis of n-type semiconducting polymer consisting of benzodipyrrolidone and thieno-[3,4-*c*]-pyrrole-4,6-dione via C-H direct arylation

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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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Effects of the Terminal Structure, Purity, and Molecular Weight of an Amorphous Conjugated Polymer on Its

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Hiroya Honda, Junpei Kuwabara, Takaki Kanbara*

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

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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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