

Original papers

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, Wijak Yospanya, 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)

(BCSJ Award Article, Front cover image of the journal) times cited: 1

Nonstoichiometric hydroarylation polyaddition for synthesis of pyrrole-based poly(arylenevinylene)s

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

Polym. Chem., **2022**, 13, 379-382. (IF = 4.1)

(Selected as a HOT Article, Front cover image of the journal) times cited: 7

Hydrogen-bonded dimers of mono-alkylated diketopyrrolopyrroles and their physical properties

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

Synth. Met., **2022**, 284, 117007. (IF = 4.0) times cited: 0

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

Polymers **2021** 13, 269. (IF = 4.7) times cited: 7

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*

Macromol. Rapid Commun., **2021**, 42, 2100283. (IF = 4.2) times cited: 4

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*

Dalton Trans., **2020**, 49, 12814-12819. (IF = 3.5) times cited: 4

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*

Polymer, **2020**, 207, 122927. (IF = 4.1) times cited: 9

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*

Organometallics **2020**, 39, 235–238. (IF = 2.5) times cited: 6

(Highlighted in the most read articles, Inside cover image of the journal)

Effect of Purification Solvent on Polymer Impurities and Device Performance

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

ACS Appl. Polym. Mater., **2019**, 1, 1195-1202. (Inside cover image of the journal) (IF = 4.4) times cited: 3

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

Postfunctionalization of reactive polyolefins derived from fatty acids

Kazuhisa Otake, 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

Norihisu 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

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*

Synth. Met., **2019**, 254, 180-183. (IF = 4.0) times cited: 7

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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Synthesis and characterization of a thermally crosslinkable polyolefin from oleic acid

Kazuhsia Otake, Yusuke Onose, Junpei Kuwabara, Takaki Kanbara*

J. Polym. Sci., Part A: Polym. Chem. **2019**, *57*, 85-89. (IF = 3.9) times cited: 6

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*

Macromolecules **2018**, *51*, 6782-6788. (IF = 5.1) times cited: 26

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

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

Macromol. Rapid Commun. **2018**, *39*, 1800414. (IF = 4.2) times cited: 15

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

Osamu Oki, Soh Kushida, Annabel Mikosch, Kota Hatanaka, Youhei Takeda, Satoshi Minakata, Junpei Kuwabara, Takaki Kanbara, Thang D. Dao, Satoshi Ishii, Tadaaki Nagao, Alexander J. C. Kuehne, Felix Deschler, Richard H. Friend, Yohei Yamamoto*

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Synthesis of Conjugated Polymers Containing Octafluorobiphenylene Unit via Pd-Catalyzed Cross-Dehydrogenative-Coupling Reaction

Hideaki Aoki, Hitoshi Saito, Yuto Shimoyama, Junpei Kuwabara, Takeshi Yasuda, Takaki Kanbara*

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Modulation of the Emission Mode of a Pt(II) Complex via Intermolecular Interactions

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

Inorg. Chem., **2017**, *56*, 8726-8729. (IF = 4.3) times cited: 31

From Linear to Foldamer and Assembly: Hierarchical Transformation of a Coplanar Conjugated Polymer into a Microsphere

Soh Kushida, Osamu Oki, Hitoshi Saito, Junpei Kuwabara, Takaki Kanbara, Motomichi Tashiro, Michio Katouda, Yutaka Imamura, Yohei Yamamoto*

J. Phys. Chem. Lett., **2017**, *8*, 4580-4586. (IF = 4.8) times cited: 11

Luminescent Ir(III) complexes bearing benzothiazole or benzoxazole-based pincer ligand

Junpei Kuwabara, Tomoni Namekawa, Eiko Sakabe, Masa-aki Haga, Takaki Kanbara*

J. Organomet. Chem., **2017**, *845*, 189-195. (IF = 2.1) times cited: 13

Facile one-pot access to π -conjugated polymers via sequential bromination/direct arylation polycondensation

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

Polym. Chem., **2017**, *8*, 3006-3012. (IF = 4.1) times cited: 12

Direct Arylation Polycondensation for the Synthesis of Bithiazole-based Conjugated Polymers and Their Physical Properties

Junpei Kuwabara*, Masahiro Kuramochi, Songlin Liu, Takeshi Yasuda, Takaki Kanbara*

Polym. J., **2017**, *49*, 123-131. (IF = 2.3) times cited: 16

Suppression of Homocoupling Side Reactions in Direct Arylation Polycondensation for Producing High Performance OPV Materials

Junpei Kuwabara*, Yohei Fujie, Keisuke Maruyama, Takeshi Yasuda, Takaki Kanbara*

Macromolecules, **2016**, *49*, 9388–9395. (IF = 5.1) times cited: 41

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

Zhi An Wang, Junpei Kuwabara, Akito Ichige, Takeshi Yasuda, Takaki Kanbara*

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Enwrapping Conjugated Polymer Microspheres with Graphene Oxide Nanosheets

Yusuke Aikyo, Soh Kushida, Daniel Braam, Junpei Kuwabara, Takahiro Kondo, Takaki Kanbara, Junji Nakamura, Axel Lorke, Yohei Yamamoto*

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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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Conjugated Polymer Blend Microspheres for Efficient, Long-Range Light Energy Transfer

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

Junpei Kuwabara, Takeshi Yasuda, Naoto Takase, Takaki Kanbara*

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Optically induced mode splitting in self-assembled, high quality-factor conjugated polymer microcavities

Daniel Braam*, Soh Kushida, Robert Niemöller, Günther M. Prinz, Hitoshi Saito, Takaki Kanbara, Junpei Kuwabara, Yohei Yamamoto, Axel Lorke

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Direct Arylation Polycondensation of Thienothiophenes with Various Dibromoarylenes

Tatsuya Kumada, Yuta Nohara, Junpei Kuwabara*, Takaki Kanbara*

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Facile synthesis of fluorene-based π -conjugated polymers via sequential bromination/direct arylation polycondensation

Hitoshi Saito, Junpei Kuwabara, 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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Synthesis of Bithiazole-based Crystalline Polymers via Pd-Catalyzed Direct C–H Arylation

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Mechanistic studies and optimisation of a Pd-catalysed direct arylation reaction using phosphine-free systems

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Junpei Kuwabara, Kohtaro Yamazaki, Takuya Yamagata, Wataru Tsuchida, Takaki Kanbara*

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

Hikaru Yamada, Minoru Kukino, Zhi An Wang, Ryo Miyabara, Nobutaka, Fujimoto, Junpei Kuwabara, Kiyoto Matsuishi, Takaki Kanbara*

J. Appl. Polym. Sci., **2015**, 132, 41275/1-7. (IF = 2.7) times cited: 18

Direct Arylation Polycondensation of Bithiazole Derivatives with Various Acceptors

Masahiro Kuramochi, Junpei Kuwabara*, Wei Lu, 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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Synthesis and photophysical properties of diketopyrrolopyrrole-based near-infrared dyes

Takuya Yamagata, Junpei Kuwabara, Takaki Kanbara*

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Template-directed synthesis of macrocyclic aminopyridines: azacalix[n] (2,6)pyridines (n = 3, 4)

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

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Chemical modification of amino acids by atmospheric-pressure cold plasma in aqueous solution

Eisuke Takai, Tsuyoshi Kitamura, Junpei Kuwabara, Satoshi Ikawa, Shunsuke Yoshizawa, Kentaro Shiraki, Hideya Kawasaki, Ryuichi Arakawa, Katsuhisa Kitano*

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Two-Step Direct Arylation for Synthesis of Naphthalenediimide-Based Conjugated Polymer

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

Liang Tong, Soh Kushida, Junpei Kuwabara, Takaki Kanbara, Noriyuki Ishii, Akinori Saeki, Shu Seki, Seiichi Furumid, Yohei Yamamoto*

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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*

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Deprotonation-Induced Structural Changes in SNS-Pincer Ruthenium Complexes with Secondary Thioamide Groups

Yoko Komiyama, Junpei Kuwabara*, Takaki Kanbara*

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Optical Properties of Highly Planar Diketopyrrolopyrrole Derivatives Fixed by Coordinate Bonds

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-Ethylenedioxothiophene 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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Syntheses, Crystal Structures, and Photophysical Properties of Platinum(II) Complexes Containing a Disulfanenitrile Ligand

Hiroya Honda, Takayoshi Fujii*, Junpei Kuwabara, Takaki Kanbara

Bull. Chem. Soc. Jpn., **2013**, *86*, 608-614. (IF = 3.3) times cited: 0

Hydrogen-bonding Linkage of Thymidine Derivatives with Carboxylic Acid and Pyridyl Groups in a Crystalline State

Junichi Hoshino, Junpei Kuwabara*, Takaki Kanbara*

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Ligand Modification of Cyclometalated Ruthenium Complexes in the Aerobic Oxidative Dehydrogenation of Imidazolines

Shota Aiki, Yuhei Kijima, Junpei Kuwabara, Ayako Take-toshi, Take-aki Koizumi, Shigehisa Akine, Takaki Kanbara*

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Direct arylation polycondensation for synthesis of bithiophene-based alternating copolymers

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Polym. Chem., **2013**, *4*, 947-953. (IF = 4.1) times cited: 105

Spherical Assemblies from π -Conjugated Alternating Copolymers: Toward Optoelectronic Colloidal Crystals

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Koutarou Yamazaki, Junpei Kuwabara, Takaki Kanbara*

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Wei Lu, Junpei Kuwabara, Takaki Kanbara*

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