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安川 直樹 (Naoki YASUKAWA)

名古屋工業大学 工学研究科 助教

【総説・解説】

1. Organocatalysis for enantioselective decarboxylative nucleophilic addition reactions
N. Yasukawa,* S. Nakamura*
Eur. J. Org. Chem. **2024**, e202400571.
2. 不斉有機ホウ素ラジカル触媒 ～ラジカル環化異性化反応における立体選択性の制御～
安川 直樹
化学 ～注目の論文～, **2024**, 79, 64–65.
3. Accessing unnatural α -amino acids with tetrasubstituted stereogenic centers via catalytic enantioselective reactions of ketimine-type α -iminoesters/ α -iminoamides
N. Yasukawa,* S. Nakamura*
Chem. Commun. **2023**, 59, 8343–8374.
4. 1,3,5-Trimethoxybenzene
T. Kawajiri, **N. Yasukawa**
e-EROS (Encyclopedia of Reagents for Organic Synthesis), Wiley, **2023**.
doi: 10.1002/047084289X.rm02526
5. イオン対相互作用による芳香族 C(sp²)-H ホウ素化反応の位置選択性制御
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有機合成化学協会誌 ~Review de Debut~, **2021**, 79, 592–593.

【学術論文】

1. A Photocatalytic Decyanation of Arylacetonitriles Enabled by Diphenylboryl Radicals via Spin Delocalization and α -Fragmentation
N. Yasukawa,* W. Okada, K. Obata, Y. Yoshida, K. Takada, S. Nakamura*
ACS. Catalysis **2026**, 16, 1738–1747.
<名古屋工業大学 プレスリリース、光とホウ素ラジカルで環境にやさしい新手法を開発～切りにくい「炭素–シアノ結合」を室温下で開裂～>
2. Amine-Ligated Boryl Radicals Enables Direct C–F Borylation and Cross-Couplings of Polyfluoroarenes
N. Yasukawa,* W. Okada, M. Fimm, R. Kawamura, R. Nomura, T. Takehara, T. Suzuki, D. Leonori,* S. Nakamura*
Angew. Chem. Int. Ed. **2025**, 64, e202514741.
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<名古屋工業大学 プレスリリース、可視光で切り開く新しいホウ素化学 ～アミンボラン錯体の合成とクロスカップリング反応への応用による持続可能な有機合成技術の開拓～>
3. Photocatalytic Decyanative Radical Addition Based on Cyano Group Transfer Mediated by Amine-Ligated Boryl Radicals

- Y. Yoshida, W. Okada, K. Takada, S. Nakamura,* **N. Yasukawa***
Org. Lett. **2025**, *27*, 7236–7241.
4. Photocatalytic Strategy for Decyanative Transformations Enabled by Amine-Ligated Boryl Radical
Y. Yoshida, W. Okada, K. Takada, S. Nakamura,* **N. Yasukawa***
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5. Chiral Phosphoric Acid-Catalyzed Enantioselective Synthesis of 2,2-Disubstituted 2,3-Dihydro-4-quinolones from Isatins and 2'-Aminoacetophenones
H. Andatsu, Y. Terashima, R. Kawamura, Y. Matsuda, T. Takehara, T. Suzuki, **N. Yasukawa***, S. Nakamura*
Org. Lett. **2025**, *27*, 258–263.
6. Amine-Ligated Boryl Radical-Enabled Hydrofunctionalization of Styrenes via Halogen-Atom Transfer of Alkyl and Aryl Bromides
N. Yasukawa*, S. Naito, K. Obata, S. Nakamura*
Synthesis **2025**, *57*, 2609–2619. (Invitation; SYNTHESIS Special Topic 'Boryl Radical Chemistry')
7. Asymmetric Conjugate Addition of Phosphine Sulfides to α -Substituted β -Nitroacrylates Using Cinchona Alkaloid Amide Catalysts
K. Miyake, A. Iwamura, K. Fujita, T. Takehara, T. Suzuki, **N. Yasukawa**, S. Nakamura*
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8. Synthesis and Suzuki-Miyaura Cross-Coupling of Alkyl Amine-Boranes. A Boryl Radical-Enabled Strategy.
C. S. Buettner,[‡] C. Stavagna,[‡] M. J. Tilby, B. Górski, J. J. Douglas, **N. Yasukawa***, D. Leonori*
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9. Organocatalytic Stereoselective Decarboxylative Addition of α -Amido Malonic Acid Half Oxyesters to Isatins
K. Fujita, I. Kumazawa, J. Yokoi, K. Abe, T. Takehara, T. Suzuki, **N. Yasukawa**, S. Nakamura*
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10. Direct Regioselective Dehydrogenation of α -Substituted Cyclic Ketones
S. A. Schwengers, G. G. Gerosa, T. Amatov, **N. Yasukawa**, S. Brunen, M. Leutzsch, B. Mitschke, G. Shevchenko, B. List*
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11. Asymmetric Synthesis of Tetrasubstituted Cyclic Amines via Aza-Henry Reaction using Cinchona Alkaloid Sulfonamide/Zinc(II) Catalysts
N. Yasukawa*, A. Yamanoue, T. Takehara, T. Suzuki, S. Nakamura*
Chem. Commun. **2022**, *58*, 1318–1321.
12. Gold-Catalyzed Tandem Oxidative Coupling Reaction between β -Ketoallenes and Electron-Rich Arenes to 2-Furylmethylarenes
N. Yasukawa*, Y. Yamada, C. Furugen, Y. Miki, H. Sajiki, Y. Sawama*

Org. Lett. **2021**, *23*, 5891–5895.

13. Palladium on Carbon-Catalyzed Oxidative Transformation of Benzylic Ethers
R. Takakura, S. Kuwata, K. Nakano, **N. Yasukawa**, H. Sajiki,* Y. Sawama*
Heterocycles (the special issue Vol. 103 in honor of Prof. Yasuyuki Kita on 77th Birthday) **2021**, *103*, 494–501.
14. Copper-Catalyzed Aqueous N–O Bond Cleavage of 2-Oxa-3-Azabicyclo Compounds to Cyclic cis-1,4-Amino Alcohols
N. Yasukawa, Y. Miki, M. Kuwata, H. Sajiki,* Y. Sawama*
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15. Platinum on Carbon-Catalyzed and Chemoselective Aqueous Oxygen Oxidation of Aromatic Acetals to Benzoic Acids
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16. Birch-Type Reduction of Arenes in 2-Propanol Catalyzed by Zero-Valent Iron and Platinum on Carbon
Y. Sawama,* K. Ban, K. Akutsu–Suyama, H. Nakata, M. Mori, T. Yamada, T. Kawajiri, **N. Yasukawa**, K. Park, Y. Monguchi, Y. Takagi, M. Yoshimura, H. Sajiki*
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17. Stainless Steel-Mediated Hydrogen Generation from Alkanes and Diethyl Ether and Its Application for Arene Reduction
Y. Sawama,* **N. Yasukawa**, K. Ban, R. Goto, M. Niikawa, Y. Monguchi, M. Itoh, H. Sajiki*
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18. Copper-catalyzed pyrrole synthesis from 3,6-dihydro-1,2-oxazines
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N. Yasukawa, H. Yokoyama, M. Masuda, Y. Monguchi, H. Sajiki,* Y. Sawama*
Green Chem. **2018**, *20*, 1213–1217.
20. Palladium on Carbon-Catalyzed Benzylic Methoxylation for Synthesis of Mixed Acetals and Orthoesters
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N. Yasukawa, S. Asai, M. Kato, Y. Monguchi, H. Sajiki,* Y. Sawama*
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22. Disiloxane Synthesis Based on Silicon-Hydrogen Bond Activation Using Gold and Platinum on Carbon in Water or Heavy Water

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T. Yamada, K. Park, **N. Yasukawa**, K. Morita, Y. Monguchi, Y. Sawama,* H. Sajiki*
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Y. Sawama,* M. Masuda, A. Honda, H. Yokoyama, K. Park, **N. Yasukawa**, Y. Monguchi, H. Sajiki*
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Y. Sawama,* T. Kawajiri, S. Asai, **N. Yasukawa**, Y. Shishido, Y. Monguchi, H. Sajiki*
J. Org. Chem. **2015**, *80*, 5556–5565.

【学会発表—国際会議】

1. Photocatalytic Decyanative Transformation Enabled by Boryl Radicals (Poster)

○**Naoki Yasukawa**, Yuto Yoshida, Waka Okada, Shuichi Nakamura
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2. Photocatalytic Decyanative Transformation Enabled by Boryl Radicals (Poster)

○**Naoki Yasukawa**, Yuto Yoshida, Waka Okada, Shuichi Nakamura
22nd International Symposium on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS XXII), Hotel Granvia Kyoto, Japan, September 2025.
PA-115

3. Photoredox-catalyzed decyanative transformations using amine-ligated boryl radicals

○**Naoki Yasukawa**, Yuto Yoshida, Waka Okada, Shuichi Nakamura
8th UK-Japan Catalysis Meeting, Kyoto University, Japan, September 2024.
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4. Enantioselective synthesis of 2,3-dihydro-4-quinolones with chiral tetrasubstituted carbon from isatins and 2'-aminoacetophenones

○**Naoki Yasukawa**, Hidenori Andatsu, Yuto Terashima, Rio Kawamura, Yoichiro Matsuda, Shuichi Nakamura
34th International Symposium on Chirality (CIRALITY-2024), Kyoto Terasa, Japan, August 2024.
PA41

5. Enantioselective synthesis of α,α -disubstituted cyclic α -amino acids via aza-Henry reaction using cinchona alkaloid sulfonamide/zinc (II) catalysts (Poster)

○**Naoki Yasukawa**, Ami Yamanoue, Shuichi Nakamura

The 15th International Kyoto Conference on New Aspects of Organic Chemistry (IKCOC-15), Rihga Royal Hotel KYOTO, Japan, November, 2023.

PB(D)06

6. One-pot pyrrole synthesis based on copper-catalyzed *N*-*O* bond activation and its application to reductive *N*-*O* bond cleavage (Poster)

○Naoki Yasukawa, Hironao Sajiki, Yoshinari Sawama

Pacificchem 2021, online, December, 2021.

3405670

7. Highly-Functionalized Pyrrole Synthesis via 3,6-Dihydro-1,2-oxazines using Heterogeneous Copper Catalyst (Poster)

○Naoki Yasukawa, Hironao Sajiki, Yoshinari Sawama

27th International Society of Heterocyclic Chemistry Congress, ROHM Theatre Kyoto & Miyakomesse, Kyoto, Japan, September, 2019.

5P-018s

8. Pd/C-catalyzed aromatization of alicyclic substrates in water (Oral)

○Naoki Yasukawa, Hiroki Yokoyama, Masahiro, Masuda, Yasunari Monguchi, Hironao Sajiki, Yoshinari Sawama

256th ACS national Meeting & Exposition, Boston Convention and Exhibition Center, Massachusetts, USA, August, 2018.

9. Palladium on carbon-catalyzed and chemoselective oxidation of aromatic acetals (Poster)

Yoshinari Sawama, ○Naoki Yasukawa, Shota Asai, Yasunari Monguchi, Hironao Sajiki

The 3rd International Symposium on Process Chemistry, Kyoto International Conference Center, Kyoto, Japan, July, 2015.

1P-10

【招待講演】

1. 光触媒的アミンホウ素ラジカル発生に基づくラジカルホウ素化・シアノ基移動戦略

○安川 直樹

日本化学会第106春季年会 第40回「若い世代の特別講演会」、2026年3月

2. 光触媒を用いたアミンホウ素ラジカルの発生と有機合成への展開

○安川 直樹

第56回中部化学関係学協会支部連合秋季大会、岐阜大学（岐阜）、2025年11月

3. 光触媒を用いたアミンホウ素ラジカルの発生と有機合成への展開

○安川 直樹

第57回有機金属若手の会「夏の学校」（若手講演）、変なホテル ラグーナテンボス（愛知）、2025年7月

4. アミンホウ素ラジカルを用いた光触媒的分子変換法の開発
○安川 直樹
薬学を基盤とする有機化学懇話会、近畿大学東大阪キャンパス（大阪）、2025年5月
5. アミンホウ素ラジカルの光触媒的発生法と新奇有機反応への展開
○安川 直樹
日本薬学会東海支部特別講演会、岐阜薬科大学（岐阜）、2024年12月
6. ホウ素ラジカルを用いたシアノ基の光触媒的変換反応
○安川 直樹
第二回東海地区有機化学若手の会、名古屋工業大学（愛知）、2023年9月

【メディア・インタビュー】

1. Chem-Station スポットライトリサーチ
（アミンホウ素を「くっつける」・「つかう」 ～ポリフルオロアレーンの光触媒的 C-F ホウ素化反応と鈴木・宮浦カップリングの開発～）
2. Chem-Station スポットライトリサーチ
（ベンジル位アセタールを選択的に酸素酸化する不均一系触媒）

【特許】

1. 不均一系パラジウム触媒を用いたシクロアルカジエンまたはシクロアルケン構造を有する化合物の脱水素反応による芳香族化合物の製造方法
澤間 善成、安川 直樹、門口 泰也、佐治木 弘尚
特許第 6918577 号 (P6918577) ; 2017年5月（出願）、2018年12月（公開）、2021年8月（取得）