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### 【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  $\alpha$ -amino acids with tetrasubstituted stereogenic centers via catalytic enantioselective reactions of ketimine-type  $\alpha$ -iminoesters/ $\alpha$ -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.rn02526
5. イオン対相互作用による芳香族 C(sp<sup>2</sup>)-H ホウ素化反応の位置選択性制御  
**安川 直樹**  
有機合成化学協会誌～Review de Debut～, **2021**, 79, 592–593.

### 【学術論文】

1. Photocatalytic Strategy for Decyanative Transformations Enabled by Amine-Ligated Boryl Radical  
Y. Yoshida, W. Okada, K. Takada, S. Nakamura,\* **N. Yasukawa**\*  
*Org. Lett.* **2025**, 27, 2542–2547.  
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2. 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.
3. 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* **2024**, DOI: 10.1055/a-2427-9313. (Invitation; SYNTHESIS Special Topic ‘Boryl Radical Chemistry’)

4. Asymmetric Conjugate Addition of Phosphine Sulfides to  $\alpha$ -Substituted  $\beta$ -Nitroacrylates Using Cinchona Alkaloid Amide Catalysts  
K. Miyake, A. Iwamura, K. Fujita, T. Takehara, T. Suzuki, **N. Yasukawa**, S. Nakamura\*  
*Org. Lett.* **2024**, *26*, 8233–8238.
5. Synthesis and Suzuki-Miyaura Cross-Coupling of Alkyl Amine-Boranes. A Boryl Radical-Enabled Strategy.  
C. S. Buettner,<sup>‡</sup> C. Stavagna,<sup>‡</sup> M. J. Tilby, B. Górska, J. J. Douglas, **N. Yasukawa**,\* D. Leonori\*  
*J. Am. Chem. Soc.* **2024**, *146*, 24042–24052.  
<Trending Research: Most-Read Chemistry Articles of August 2024>
6. Organocatalytic Stereoselective Decarboxylative Addition of  $\alpha$ -Amido Malonic Acid Half Oxyesters to Isatins  
K. Fujita, I. Kumazawa, J. Yokoi, K. Abe, T. Takehara, T. Suzuki, **N. Yasukawa**, S. Nakamura\*  
*Adv. Synth. Catal.* **2024**, *366*, 438–443.  
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7. Direct Regioselective Dehydrogenation of  $\alpha$ -Substituted Cyclic Ketones  
S. A. Schwengers, G. G. Gerosa, T. Amatov, **N. Yasukawa**, S. Brunen, M. Leutzsch, B. Mitschke, G. Shevchenko, B. List\*  
*Angew. Chem. Int. Ed.* **2023**, *62*, e202307081.
8. 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.
9. Gold-Catalyzed Tandem Oxidative Coupling Reaction between  $\beta$ -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.
10. 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 77<sup>th</sup> Birthday) **2021**, *103*, 494–501.
11. 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\*  
*ChemSusChem* **2020**, *13*, 5632–5637.  
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12. Platinum on Carbon-Catalyzed and Chemoselective Aqueous Oxygen Oxidation of Aromatic Acetals to Benzoic Acids  
**N. Yasukawa**, T. Matsuda, E. Shimizu, H. Sajiki,\* Y. Sawama\*  
*Heterocycles* **2020**, *100*, 145–152.
13. 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\*

*ACS Omega* **2019**, *4*, 11522–11531.

14. 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\*  
*Org. Lett.* **2018**, *20*, 2892–2896.
15. Copper-catalyzed pyrrole synthesis from 3,6-dihydro-1,2-oxazines  
N. Yasukawa, M. Kuwata, T. Imai, Y. Monguchi, H. Sajiki,\* Y. Sawama\*  
*Green Chem.* **2018**, *20*, 4409–4413.  
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16. Highly-functionalized arene synthesis based on palladium on carbon-catalyzed aqueous dehydrogenation of cyclohexadienes and cyclohexenes  
N. Yasukawa, H. Yokoyama, M. Masuda, Y. Monguchi, H. Sajiki,\* Y. Sawama\*  
*Green Chem.* **2018**, *20*, 1213–1217.
17. Palladium on Carbon-Catalyzed Benzylic Methoxylation for Synthesis of Mixed Acetals and Orthoesters  
N. Yasukawa, T. Kanie, M. Kuwata, Y. Monguchi, H. Sajiki,\* Y. Sawama\*  
*Chem. Eur. J.* **2017**, *23*, 10974–10977.  
<Selected as a Hot paper>
18. Palladium on Carbon-Catalyzed Chemoselective Oxygen Oxidation of Aromatic Acetals  
N. Yasukawa, S. Asai, M. Kato, Y. Monguchi, H. Sajiki,\* Y. Sawama\*  
*Org. Lett.* **2016**, *18*, 5604–5607.
19. Disiloxane Synthesis Based on Silicon-Hydrogen Bond Activation Using Gold and Platinum on Carbon in Water or Heavy Water  
Y. Sawama,\* M. Masuda, N. Yasukawa, R. Nakatani, S. Nishimura, K. Shibata, T. Yamada, Y. Monguchi, H. Suzuka, Y. Takagi, H. Sajiki\*  
*J. Org. Chem.* **2016**, *81*, 4190–4195.
20. Mild and Direct Multiple Deuterium-Labeling of Saturated Fatty Acids  
T. Yamada, K. Park, N. Yasukawa, K. Morita, Y. Monguchi, Y. Sawama,\* H. Sajiki\*  
*Adv. Synth. Catal.* **2016**, *358*, 3277–3282.
21. Additional Nucleophile-Free FeCl<sub>3</sub>-Catalyzed Green Deprotection of 2,4-Dimethoxyphenylmethyl-Protected Alcohols and Carboxylic acids  
Y. Sawama,\* M. Masuda, A. Honda, H. Yokoyama, K. Park, N. Yasukawa, Y. Monguchi, H. Sajiki\*  
*Chem. Pharm. Bull.* **2016**, *64*, 778–784. (the Novel Prize memorial issue for Prof. Satoshi Omura)
22. Biaryl methane and Fused Heterocyclic Arene Synthesis via *in situ*-generated *ortho*- and/or *para*-Naphthoquinone Methides  
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. 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.  
P-11
2. 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 Terrsa, Japan, August 2024.  
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3. Enantioselective synthesis of  $\alpha,\alpha$ -disubstituted cyclic  $\alpha$ -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
4. 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
5. 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
6. 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.
7. 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. TBD

○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

2. 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

3. 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

(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

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