

Publication List

(Jan 21, 2022)

Original Paper

58. Iridium-Catalyzed Enantioselective Intramolecular Hydroarylation of Allylic Aryl Ethers Devoid of a Directing Group on the Aryl Group
Toshimichi Ohmura, Satoshi Kusaka, Michinori Suginome
Chem. Commun. **2021**, *57*, 13542–13545 (DOI: 10.1039/d1cc05684k).

57. Mechanism of 2,6-Dichloro-4,4'-Bipyridine-Catalyzed Diboration of Pyrazines Involving Bipyridine-Stabilized Boryl Radical
Toshimichi Ohmura, Yohei Morimasa, Tomoya Ichino, Yusuke Miyake, Yasujiro Murata, Michinori Suginome, Kunihiko Tajima, Tetsuya Taketsugu, Satoshi Maeda
Bull. Chem. Soc. Jpn. **2021**, *94*, 1894–1902 (DOI: 10.1246/bcsj.20210145).
Selected as “BCSJ Award Article” (Vol. 94, No. 7, 2021).

56. Intramolecular Addition of a Dimethylamino C(sp³)–H Bond across C–C Triple Bonds using IrCl(DTBM-SEGPHOS)(ethylene) Catalyst: Synthesis of Indoles from 2-Alkynyl-N-methylanilines
Toshimichi Ohmura, Kaito Yagi, Takeru Torigoe, Michinori Suginome
Synthesis **2021**, *53*, 3057–3064 (DOI: 10.1055/a-1511-1025).
A Special Issue on “Bond Activation in Honor of Prof. Shinji Murai”.

55. Copper-Catalyzed Regioselective *trans*-Silaboration of Internal Arylalkynes with Stereochemical Switch to *cis*-Addition Mode
Toshimichi Ohmura, Yuta Takaoka, Michinori Suginome
Chem. Commun. **2021**, *57*, 4670–4673 (DOI: 10.1039/D1CC01579F).

54. Construction of Silicon-Containing Seven-Membered Rings by Catalytic [4+2+1] Cycloaddition through Rhodium Silylenoid
Ikuo Sasaki, **Toshimichi Ohmura**, Michinori Suginome
Org. Lett. **2020**, *22*, 2961–2966 (DOI: 10.1021/acs.orglett.0c00690).

53. Tandem C–H Activation by a Single Iridium Catalyst: Direct Access to Indoles and Indolines from *o*-Alkyl-N-methylanilines
Toshimichi Ohmura, Kaito Yagi, Satoshi Kusaka, Michinori Suginome
ACS Catal. **2020**, *10*, 3152–3157 (DOI: 10.1021/acscatal.9b05579).
Highlighted in Synfacts 2020, 16, 0639.

52. 4,4'-Bipyridyl-catalyzed Reduction of Nitroarenes by Bis(neopentylglycolato)diboron
Hiromu Hosoya, Luis C. Misal Castro, Ibrahim Sultan, Yumiko Nakajima, **Toshimichi Ohmura**, Kazuhiko Sato, Hayato Tsurugi, Michinori Suginome, Kazushi Mashima
Org. Lett. **2019**, *21*, 9812–9817 (DOI: 10.1021/acs.orglett.9b03419).

51. Iridium-Catalyzed C(sp³)–H Addition of Methyl Ethers across Intramolecular Carbon–Carbon Double Bonds Giving 2,3-Dihydrobenzofurans
Toshimichi Ohmura, Satoshi Kusaka, Takeru Torigoe, Michinori Suginome
Adv. Synth. Catal. **2019**, *361*, 4448–4453 (DOI: 10.1002/adsc.201900749).
Selected as “Very Important Publication (VIP)”.
One of the Fifteen Most Accessed Articles (Adv. Synth. Catal., Sep. 2019).

50. Pyridine-Based Organocatalysts for Regioselective *syn*-1,2-Silaboration of Terminal Alkynes and Allenes
Yohei Morimasa, Kosuke Kabasawa, **Toshimichi Ohmura**, Michinori Suginome
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49. Catalytic Generation of Rhodium Silylenoid for Alkene-Alkyne-Silylene [2+2+1] Cycloaddition
Toshimichi Ohmura, Ikuo Sasaki, Michinori Suginome
Org. Lett. **2019**, *21*, 1649–1653 (DOI: 10.1021/acs.orglett.9b00326).

48. Enantiospecific Suzuki-Miyaura Coupling of Nonbenzylic α -(Acylamino)alkylboronic Acid Derivatives
Toshimichi Ohmura, Kyoko Miwa, Tomotsugu Awano, Michinori Suginome
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47. Palladium-Catalyzed β -Elimination of Aminoboranes from (Aminomethylsilyl)boranes Leading to the Formation of Silene Dimers
Toshimichi Ohmura, Hiroki Nishiura, Michinori Suginome
Organometallics **2017**, *36*, 4298–4304 (DOI: 10.1021/acs.organomet.7b00695).

46. 4,4'-Bipyridine-Catalyzed Stereoselective *trans*-Diboration of Acetylenedicarboxylates to 2,3-Diborylfumarates
Toshimichi Ohmura, Yohei Morimasa, Michinori Suginome
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45. Asymmetric Cycloisomerization of *o*-Alkenyl-*N*-methylanilines to Indolines through Iridium-Catalyzed C(sp³)–H Addition to Carbon–Carbon Double Bonds
Takeru Torigoe, **Toshimichi Ohmura**, Michinori Suginome
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44. Utilization of a Trimethylsilyl Group as a Synthetic Equivalent of a Hydroxyl Group via Chemoselective C(sp³)–H Borylation at the Methyl Group on Silicon
Takeru Torigoe, **Toshimichi Ohmura**, Michinori Suginome
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Toshimichi Ohmura, Ikuo Sasaki, Takeru Torigoe, Michinori Suginome
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42. Iridium-Catalyzed Intramolecular Methoxy C–H Addition to Carbon–Carbon Triple Bonds: Direct Synthesis of 3-Substituted Benzofurans from *o*-Methoxyphenylalkynes
Takeru Torigoe, **Toshimichi Ohmura**, Michinori Suginome
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41. Site- and Regioselective Silaborative C–C Cleavage of 1-Alkyl-2-methylenecyclopropanes Using a Platinum Catalyst with a Sterically Demanding Silylboronic Ester
Toshimichi Ohmura, Hiroki Taniguchi, Michinori Suginome
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39. Iridium-Catalysed Borylation of Sterically Hindered C(sp³)–H bonds: Remarkable Rate Acceleration by a Catalytic Amount of Potassium *tert*-Butoxide
Toshimichi Ohmura, Takeru Torigoe, Michinori Suginome
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Toshimichi Ohmura, Takeru Torigoe, Michinori Suginome
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37. Cycloaddition-Based Formal C–H Alkynylation of Isoindoles Leading to the Synthesis of Air-Stable Fluorescent 1,3-Dialkynylisoindoles
Toshimichi Ohmura, Akihito Kijima, Yusuke Komori, Michinori Suginome
Org. Lett. **2013**, *15*, 3510-3513 (DOI: 10.1021/ol401051d).
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36. Synthesis of Cyclic Alkenylborates via Silaboration of Alkynes Followed by Hydrolysis for Utilization in External-Base-Free Cross Coupling
Toshimich Ohmura, Kazuyuki Oshima, Michinori Suginome
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Toshimich Ohmura, Takeru Torigoe, Michinori Suginome
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Kazuyuki Oshima, **Toshimich Ohmura**, Michinori Suginome
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Kazuyuki Oshima, **Toshimich Ohmura**, Michinori Suginome
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Tomotsugu Awano, **Toshimich Ohmura**, Michinori Suginome
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Kohei Masuda, **Toshimich Ohmura**, Michinori Suginome
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