

Original Articles

46. “Defluorinative Transformation of (2,2,2-Trifluoroethyl)arenes Catalyzed by the Phosphazene Base *t*-Bu-P2”
Masanori Shigeno,* Yoshiteru Shishido, Amane Soga, [Kanako Nozawa-Kumada](#), Yoshinori Kondo*
J. Org. Chem. **2023**, *Just Accepted*.
45. “Antioxidant action of persulfides and polysulfides against free radical-mediated lipid peroxidation”
Takayuki Kaneko, Yuichiro Mita, [Kanako Nozawa-Kumada](#), Masana Yazaki, Mieko Arisawa, Etsuo Niki,
Noriko Noguchi, Yoshiro Saito*
Free Radical Research **2023**, *Just Accepted*.
44. “Transition-Metal-Free Intermolecular Hydrocarbonation of Styrenes Mediated by
NaH/1,10-phenanthroline”
[Kanako Nozawa-Kumada](#),* So Onuma, Kanako Ono, Tomohiro Kumagai, Yuki Iwakawa, Katsuhiko Sato,
Masanori Shigeno, Yoshinori Kondo*
Chem. Eur. J. **2023**, *Just Accepted*.
43. “LiHMDS-mediated deprotonative coupling of toluenes with ketones”
Masanori Shigeno,* Akihisa Kajima, Eito Toyama, Toshinobu Korenaga, Hiroyuki Yamakoshi, [Kanako
Nozawa-Kumada](#), Yoshinori Kondo*
Chem. Eur. J. **2023**, *Just Accepted*.
42. “1,5-Double-Carboxylation of 2-Alkylheteroarenes Mediated by a Combined Brønsted Base System”
Masanori Shigeno,* Itsuki Tohara, [Kanako Nozawa-Kumada](#), Yoshinori Kondo*
Synlett **2022**, *Just accepted*.
41. “Palladium-Catalyzed Borylative Cyclizations of α -(2-Bromoaryl) Ketones to Form 1,2-Benzoxaborinines”
Masanori Shigeno,* Yuto Iseya, Ryotaro Kume, [Kanako Nozawa-Kumada](#), Yoshinori Kondo*
Org. Lett. **2022**, *24*, 7227–7231.
40. “Combined Brønsted Base-Promoted CO₂ Fixation into Benzylic C–H Bonds of Alkylarenes”
Masanori Shigeno,* Itsuki Tohara, Keita Sasaki, [Kanako Nozawa-Kumada](#), Yoshinori Kondo*
Org. Lett. **2022**, *24*, 4825–4830.
39. “Copper-catalyzed aerobic benzylic C(sp³)–H lactonization of 2-alkylbenzamides *via* N-centered radicals”
[Kanako Nozawa-Kumada](#),* Kanako Ono, Satoshi Kurosu, Masanori Shigeno, Yoshinori Kondo*
Org. Biomol. Chem. **2022**, *20*, 5948–5952.
Invited contribution to a New Talent web themed issue
38. “Organic superbase *t*-Bu-P4-catalyzed demethylations of methoxyarenes”
Masanori Shigeno,* Kazutoshi Hayashi, Toshinobu Korenaga, [Kanako Nozawa-Kumada](#), Yoshinori Kondo*
Org. Chem. Front. **2022**, *9*, 3656–3663.
Selected as a cover picture
37. “Direct C–H Carboxylation Forming Polyfunctionalized Aromatic Carboxylic Acids by Combined Brønsted
Bases”
Masanori Shigeno,* Kazuya Hanasaka, Itsuki Tohara, Koki Izumi, Hiroyuki Yamakoshi, Eunsang Kwon,
[Kanako Nozawa-Kumada](#), Yoshinori Kondo*
Org. Lett. **2022**, *24*, 809–814.
36. “Rhodium-Catalyzed Synthesis of Unsymmetric Di(heteroaryl)ureas Involving an Equilibrium Shift”
Mieko Arisawa*, Taro Mizuno, [Kanako Nozawa-Kumada](#), Kaori Itto-Nakama, Miyu Furuta, Saori Tanii
Org. Lett. **2021**, *23*, 9382–9386.
35. “Construction of 1,2,3-Benzodiazaborole by Electrophilic Borylation of Azobenzene and Nucleophilic
Dialkylative Cyclization”
Masanori Shigeno,* Masaya Imamatsu, Yusuke Kai, Moe Kiriya, Shintaro Ishida, [Kanako
Nozawa-Kumada](#), Yoshinori Kondo
Org. Lett. **2021**, *23*, 8023–8027.

34. “Regio- and Stereoselective Hydroiodination of Internal Alkynes with *ex Situ* Generated HI”
Kanako Nozawa-Kumada,* Koto Noguchi, Tomoya Akada, Masanori Shigeno, Yoshinori Kondo*
Org. Lett. **2021**, 23, 6659–6663.
Selected as a cover picture
33. “Chemical reduction of Ag⁺ to Ag employing organic electron donors: evaluation of the effect of Ag⁺-mediated cytosine–cytosine base pairing on the aggregation of Ag nanoparticles”
 Takenori Dairaku,* Rika Kawai, Kanako Nozawa-Kumada, Kentaro Yoshida, Tetsuya Ono, Yoshinori Kondo, Jiro Kondo, Akira Ono, Yoshiyuki Tanaka, Yoshitomo Kashiwagi*
Dalton Trans. **2021**, 50, 12208–12214.
32. “KO-*t*-Bu Catalyzed Thiolation of β -(Hetero)arylethyl Ethers via MeOH Elimination/hydrothiolation”
 Masanori Shigeno,* Yoshiteru Shishido, Kazutoshi Hayashi, Kanako Nozawa-Kumada, Yoshinori Kondo*
Eur. J. Org. Chem. **2021**, 3932–3935.
31. “Copper-catalyzed aerobic double functionalization of benzylic C(sp³)–H bonds for the synthesis of 3-hydroxyisoindolinones”
Kanako Nozawa-Kumada,* Yuta Matsuzawa, Kanako Ono, Masanori Shigeno, Yoshinori Kondo*
Chem. Commun. **2021**, 57, 8604–8607.
30. “Effect of cytosine–Ag⁺–cytosine base pairing on the redox potential of the Ag⁺/Ag couple and the chemical reduction of Ag⁺ to Ag by tetrathiafulvalene”
 Takenori Dairaku,* Rika Kawai, Teppei Kanaba, Tetsuya Ono, Kentaro Yoshida, Hajime Sato, Kanako Nozawa-Kumada, Yoshinori Kondo, Jiro Kondo, Akira Ono, Yoshiyuki Tanaka,* Yoshitomo Kashiwagi*
Dalton Trans. **2021**, 50, 7633–7639.
29. “Catalytic amide base system generated *in situ* for 1,3-diene formation from allylbenzenes and carbonyls”
 Masanori Shigeno,* Akihisa Kajima, Kunihito Nakaji, Kanako Nozawa-Kumada, Yoshinori Kondo*
Org. Biomol. Chem. **2021**, 19, 983–987.
Selected as a cover picture
28. “Di-*tert*-butyl Peroxide (DTBP)-Mediated Oxysilylation of Unsaturated Carboxylic Acids for the Synthesis of Silyl Lactones”
Kanako Nozawa-Kumada,* Takuto Ojima, Moeto Inagi, Masanori Shigeno, Yoshinori Kondo*
Org. Lett. **2020**, 22, 9591–9596.
27. “Catalytic C(sp²)–C(sp³) Bond Formation of Methoxyarenes by the Organic Superbase *t*-Bu-P4”
 Masanori Shigeno,* Kazutoshi Hayashi, Kanako Nozawa-Kumada, Yoshinori Kondo*
Org. Lett. **2020**, 22, 9107–9113.
26. “NaH-Mediated Direct C–H Arylation in the Presence of 1,10-Phenanthroline”
Kanako Nozawa-Kumada,* Yuki Iwakawa, So Onuma, Masanori Shigeno, Yoshinori Kondo*
Chem. Commun. **2020**, 56, 7773–7776.
25. “Direct C-2 carboxylation of 3-substituted-indoles using a combined Brønsted base consisting of LiO-*t*-Bu/CsF/18-crown-6”
 Masanori Shigeno,* Itsuki Tohara, Kanako Nozawa-Kumada, Yoshinori Kondo*
Eur. J. Org. Chem. **2020**, 1987–1991.
24. “Transition-Metal-Free Trifluoromethylation of Benzyl Bromides Using Trifluoromethyltrimethylsilane and CsF in 1,2-Dimethoxyethane”
Kanako Nozawa-Kumada,* Sayuri Osawa, Takuto Ojima, Koto Noguchi, Masanori Shigeno, Yoshinori Kondo*
Asian. J. Org. Chem. **2020**, 9, 765–768.
Invited contribution to a special issue: 100th Annual Meeting of the Chemical Society of Japan
23. “Copper-Catalyzed Oxidative Benzylic C(sp³)–H Cyclization for the Synthesis of β -Lactams”
Kanako Nozawa-Kumada,* Satoshi Saga, Yuta Matsuzawa, Masahito Hayashi, Masanori Shigeno, Yoshinori Kondo*
Chem. Eur. J. **2020**, 26, 4496–4499.
22. “Super Electron Donor-mediated Reductive Desulfurization Reactions”
Kanako Nozawa-Kumada,* Shungo Ito, Koto Noguchi, Masanori Shigeno, Yoshinori Kondo*
Chem. Commun. **2019**, 55, 12968–12971.

21. “Deprotonative Coupling of Pyridines with Aldehydes Catalyzed by an HMDS-amide Base Generated *in Situ*”
Masanori Shigeno,* Kunihiro Nakaji, Akihisa Kajima, [Kanakano Nozawa-Kumada](#), Yoshinori Kondo*
Chem. Pharm. Bull. **2019**, *67*, 1179–1182.
20. “Tetramethylammonium Fluoride Tetrahydrate-Mediated Transition Metal-Free Coupling of Aryl Iodides with Unactivated Arenes in Air”
[Kanakano Nozawa-Kumada](#),* Kosuke Nakamura, Satoshi Kurosu, Yuki Iwakawa, Charline Denneval, Masanori Shigeno, Yoshinori Kondo*
Chem. Pharm. Bull. **2019**, *67*, 1042–1045.
19. “Catalytic Amination of β -(Hetero)arylethyl Ethers by Phosphazene Base *t*-Bu-P4”
Masanori Shigeno,* Ryutaro Nakamura, Kazutoshi Hayashi, [Kanakano Nozawa-Kumada](#), Yoshinori Kondo*
Org. Lett. **2019**, *21*, 6695–6699.
18. “Organic Superbase *t*-Bu-P4 Catalyzes Amination of Methoxy(hetero)arenes”
Masanori Shigeno,* Kazutoshi Hayashi, [Kanakano Nozawa-Kumada](#), Yoshinori Kondo*
Org. Lett. **2019**, *21*, 5505–5508.
17. “Catalytic Alkynylation of Polyfluoroarenes by Amide Base Generated *In Situ*”
Masanori Shigeno,* Takuya Okawa, Masaya Imamatsu, [Kanakano Nozawa-Kumada](#), Yoshinori Kondo*
Chem. Eur. J. **2019**, *25*, 10294–10297.
Selected as a Hot Paper
16. “Double-Carboxylation of Two C–H Bonds in 2-Alkylheteroarenes Using LiO-*t*-Bu/CsF”
Masanori Shigeno,* Keita Sasaki, [Kanakano Nozawa-Kumada](#), Yoshinori Kondo*
Org. Lett. **2019**, *21*, 4515–4519.
15. “Peroxydisulfate-Mediated Transition-Metal-Free Oxidative C(sp³)-H Bond Lactonization”
[Kanakano Nozawa-Kumada](#),* Satoshi Kurosu, Masanori Shigeno, Yoshinori Kondo*
Asian J. Org. Chem. **2019**, *8*, 1080–1083.
Invited contribution to a special issue: Heterocyclic Chemistry
Selected as a cover picture
14. “Catalytic Amide–Base System of TMAF and N(TMS)₃ for Deprotonative Coupling of Benzylic C(sp³)-H Bonds with Carbonyls”
Masanori Shigeno,* Kunihiro Nakaji, [Kanakano Nozawa-Kumada](#), Yoshinori Kondo*
Org. Lett. **2019**, *21*, 2588–2592.
13. “Phosphazene Base *t*-Bu-P4-Catalyzed Methoxy–Alkoxy Exchange Reaction on (Hetero)arenes”
Masanori Shigeno,* Kazutoshi Hayashi, [Kanakano Nozawa-Kumada](#), Yoshinori Kondo*
Chem. Eur. J. **2019**, *25*, 6077–6081.
Selected as a cover picture
Selected as a Hot Topic: Organocatalysis
12. “Direct Carboxylation of Electron-Rich Heteroarenes Promoted by LiO-*t*Bu with CsF and [18]Crown-6”
Masanori Shigeno,* Kazuya Hanasaka, Keita Sasaki, [Kanakano Nozawa-Kumada](#), Yoshinori Kondo*
Chem. Eur. J. **2019**, *25*, 3235–3239.
Selected as a Hot Paper
11. “Catalytic Deprotonative α -Formylation of Heteroarenes by an Amide Base Generated *in Situ* from TMAF and N(TMS)₃”
Masanori Shigeno,* Yuki Fujii, Akihisa Kajima, [Kanakano Nozawa-Kumada](#), Yoshinori Kondo*
Org. Process Res. Dev. **2019**, *23*, 443–451.
10. “Construction of Biaryl Scaffolds from Iodoarenes and C-H Heteroarenes Using an Amide Base Generated *in Situ* from Aminosilane and Fluoride Anion”
Masanori Shigeno,* Yusuke Kai, Tetsuya Yamada, Kazutoshi Hayashi, [Kanakano Nozawa-Kumada](#), Charline Denneval, Yoshinori Kondo*
Asian J. Org. Chem. **2018**, *7*, 2082–2086.

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9. "Generation and Characterization of Anti-phenyl Sulfate Monoclonal Antibodies and a Potential Use for Phenyl Sulfate Analysis in Human Blood"
Yoshitomi Kanemitsu, Hiroki Tsukamoto*, Yotaro Matsumoto, Kanako Nozawa-Kumada, Yoshinori Kondo, Takaaki Abe, Yoshihisa Tomioka*
Biol. Pharm. Bull. **2018**, *41*, 1170–1177.
8. "Super Electron Donor-mediated Reductive Transformation of Nitrobenzenes: A Novel Strategy to Synthesize Azobenzenes and Phenazines"
Kanako Nozawa-Kumada, Erina Abe, Shungo Ito, Masanori Shigeno, Yoshinori Kondo*
Org. Biomol. Chem. **2018**, *16*, 3095–3098.
7. "Deprotonative Silylation of Aromatic C–H Bonds Mediated by a Combination of Trifluoromethyltrialkylsilane and Fluoride"
Kanako Nozawa-Kumada, Sayuri Osawa, Midori Sasaki, Isabelle Chataigner, Masanori Shigeno, Yoshinori Kondo*
J. Org. Chem. **2017**, *82*, 9487–9496.
6. "Highly Chemoselective DMPU-Mediated Trialkylsilylation of Terminal Alkynes Using Trifluoromethyltrialkylsilane"
Kanako Nozawa-Kumada, Moeto Inagi, Yoshinori Kondo*
Asian J. Org. Chem. **2017**, *6*, 63–66.
5. "Development of Madelung-Type Indole Synthesis Using Copper-Catalyzed Amidation/Condensation Strategy"
Masahiro Abe, Charline Denneval, Kanako Nozawa-Kumada, Yoshinori Kondo*
Heterocycles **2016**, *92*, 900–909.
Highlighted in *Synfacts* **2016**, *12*, 574.
4. "Copper-Catalyzed sp³ C–H Aminative Cyclization of 2-Alkyl-*N*-arylbenzamides: An Approach for the Synthesis of *N*-Aryl-isoindolinones"
Kanako Nozawa-Kumada, Jun Kadokawa, Takehiro Kameyama, Yoshinori Kondo*
Org. Lett. **2015**, *17*, 4479–4481.
Highlighted in *ChemInform* **2016**, *47*.
3. "Efficient Use of a Surfactant for Copper-Catalyzed Coupling Reaction of Arylboronic Acids with Imidazoles in Water"
Kiyofumi Inamoto,* Kanako Nozawa, Jun Kadokawa, Yoshinori Kondo*
Tetrahedron **2012**, *68*, 7794–7798.
2. "Palladium-Catalyzed C–H Cyclization in Water: A Milder Route to 2-Arylbenzothiazoles"
Kiyofumi Inamoto,* Kanako Nozawa, Yoshinori Kondo*
Synlett **2012**, *23*, 1678–1682.
1. "Micellar System in Copper-Catalysed Hydroxylation of Arylboronic Acids: Facile Access to Phenols"
Kiyofumi Inamoto,* Kanako Nozawa, Misato Yonemoto, Yoshinori Kondo*
Chem. Commun. **2011**, *47*, 11775–11777.

Reviews

2. "Combined Brønsted-Base-Mediated Direct C–H Carboxylation of Heteroarenes with CO₂"
Masanori Shigeno,* Keita Sasaki, Kazuya Hanasaka, Itsuki Tohara, Kanako Nozawa-Kumada, Yoshinori Kondo*
Heterocycles **2021**, *103*, 592–608.
1. "C–H Functionalization by Transition-metal-catalyst or *in Situ* Generated Base"
Kanako Nozawa-Kumada*
Yakugaku Zasshi **2019**, *139*, 1243–1251.

Misc

4. “銅触媒を用いた sp^3 炭素-水素結合官能基化による複素環骨格構築法の開発”
熊田 佳菜子
細胞 **2022**, 54, 39-41.
3. “ラジカル機構で銅への酸化的付加を進行させる！臭化アリールの CF_3 化反応”
熊田 佳菜子
ファルマシア **2019**, 55, 250.
2. ““Transient directing group” が可能にする究極の直截的 $C(sp^3)$ -H アリール化反応”
熊田 佳菜子
有機合成化学協会誌 (Review de Debut) **2019**, 77, 69-70.
1. “非天然型アミノ酸の直截的な合成！ δ 位選択的なC-H 結合アルキル化反応”
熊田 佳菜子
化学 **2018**, 73, 63-64.