

# PUBLICATIONS

## DIVISION OF SYNTHETIC CHEMISTRY

### — Organoelement Chemistry —

Nishino, K.; Shiro, M.; Okura, R.; Oizumi, K.; Fujita, T.; Sasamori, T.; Tokitoh, N.; Yamada, A.; Tanaka, C.; Yamaguchi, M.; Hiradate, S.; Hirai, N., The (Oxalato)aluminum Complex as an Antimicrobial Substance Protecting the “Shiro” of *Tricholoma Matsutake* from Soil Micro-Organisms, *Biosci. Biotechnol. Biochem.*, **81**, 102-111 (2017).

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Mizuhata, Y.; Fujimori, S.; Sasamori, T.; Tokitoh, N., Germabenzenylpotassium: A Germanium Analogue of a Phenyl Anion, *Angew. Chem. Int. Ed.*, **56**, 4588-4592 (2017).

Majhi, P. K.; Ikeda, H.; Sasamori, T.; Tsurugi, H.; Mashima, K.; Tokitoh, N., Inorganic-Salt-Free Reduction in Main-Group Chemistry: Synthesis of a Dibismuthene and a Distibene, *Organometallics*, **36**, 1224-1226 (2017).

Mizuhata, Y.; Omatsu, Y.; Tokitoh, N., Dodecaallylhexasilacyclohexane, *IUCrData*, **2**, x170807 (2017).

Kawasaki, K.; Sugiyama, R.; Tsuji, T.; Iwasa, T.; Tsunoyama, H.; Mizuhata, Y.; Tokitoh, N.; Nakajima, A., A Designer Ligand Field for Blue-Green Luminescence of Organoeuropium(II) Sandwich Complexes with Cyclononatetraenyl Ligands, *Chem. Commun.*, **53**, 6557-6560 (2017).

Agou, T.; Tokitoh, N., Reactivity of Organoaluminum Compounds with Unique Coordination Modes, *J. Synth. Org. Chem. Japan*, **75**, 723-734 (2017) (in Japanese).

Shouda, T.; Nakanishi, K.; Sasamori, T.; Tokitoh, N.; Kuramochi, K.; Tsubaki, K., Synthesis and Structures of Zigzag Shaped [12] Cyclo-*p*-Phenylene Composed of Dinaphthofuran Units and Biphenyl Units, *J. Org. Chem.*, **82**, 7850-7855 (2017).

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Tsunoyama, H.; Akatsuka, H.; Shibuta, M.; Iwasa, T.; Mizuhata, Y.; Tokitoh, N.; Nakajima, A., Development of Integrated Dry-Wet Synthesis Method for Metal Encapsulating Silicon Cage Superatoms of  $M@Si_{16}$  ( $M = Ti$  and  $Ta$ ), *J. Phys. Chem. C*, **121**, 20507-20516 (2017).

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### — Structural Organic Chemistry —

Kimura, Y.; Maeda, T.; Iuchi, S.; Koga, N.; Murata, Y.; Wakamiya, A.; Yoshida, K., Characterization of Dye-Sensitized Solar Cells Using Five Pure Anthocyanidin 3-O-Glucosides Possessing Different Chromophores, *J. Photochem. Photobiol. A*, **335**, 230-238 (2017).

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- Zhang, R.; Murata, M.; Wakamiya, A.; Murata, Y., Synthesis and Structure of an Open-Cage Fullerene Derivative with a C<sub>69</sub>O Framework, *Chem. Lett.*, **46**, 543-546 (2017).
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- Chaolumen; Murata, M.; Wakamiya, A.; Murata, Y., Unsymmetric Twofold Scholl Cyclization of 5,11-Dinaphthyltetracene: Selective Formation of Pentagonal and Hexagonal Rings via a Dication Pathway, *Angew. Chem. Int. Ed.*, **56**, 5082-5086 (2017).
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- Nishimura, H.; Tanaka, K.; Morisaki, Y.; Chujo, Y.; Wakamiya, A.; Murata, Y., Oxygen-Bridged Diphenylnaphthylamine as a Scaffold for Full-Color Circularly Polarized Luminescent Materials, *J. Org. Chem.*, **82**, 5242-5249 (2017).
- Nishimura, H.; Hasegawa, Y.; Wakamiya, A.; Murata, Y., Development of Transparent Organic Hole-Transporting Materials Using Partially Oxygen-Bridged Triphenylamine Skeletons, *Chem. Lett.*, **46**, 817-820 (2017).
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- [Others]
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— Synthetic Organic Chemistry —

Lu, W.; Pei, X.; Murai, T.; Sasamori, T.; Tokitoh, N.; Kawabata, T.; Furuta, T., Asymmetric Intramolecular C-H Insertion Promoted by Dirhodium(II) Carboxylate Catalyst Bearing Axially Chiral Amino Acid Derivatives, *Synlet*, **28**, 679-683 (2017).

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DIVISION OF MATERIALS CHEMISTRY

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Sakakibara, K.; Kagata, H.; Ishizuka, N.; Sato, T.; Tsujii, Y., Fabrication of Surface Skinless Membranes of Epoxy Resin-based Mesoporous Monoliths toward Advanced Separators for Lithium Ion Batteries, *J. Mater. Chem. A*, **5**, 6866-6873 (2017).

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Kayahara, E.; Zhai, X.; Yamago, S., Synthesis and Physical Properties of [4]cyclo-3,7-dibenzo[*b,d*]thiophene and Its *S,S*-Dioxide, *Can. J. Chem.*, **95**, 351-356 (2017).

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#### — Inorganic Photonics Materials —

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#### — Nanospintronics —

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