

## Publication List

- (1) Effects of Amino Group Substitution on the Photophysical Properties and Stability of Near-Infrared Fluorescent P-Rhodamines  
M. Grzybowski, M. Taki,\* K. Kajiwara, S. Yamaguchi\*  
*Chem. Eur. J.*, **2020**, *in press*
- (2) A photostable fluorescent marker for the super-resolution live imaging of the dynamic structure of the mitochondrial cristae  
C. Wang, M. Taki,\* Y. Sato, Y. Tamura, H. Yaginuma, Y. Okada, S. Yamaguchi\*  
*Proc. Natl. Acad. Sci. USA*, **2019**, *116*, 15817–15822.
- (3) The Effect of Branching on the One - and Two - Photon Absorption, Cell Viability, and Localization of Cationic Triarylborane Chromophores with Dipolar versus Octupolar Charge Distributions for Cellular Imaging  
S. Griesbeck, E. Michail, F. Rauch, H. Ogasawara, C. Wang, Y. Sato, R. M. Edkins, Z. Zhang, M. Taki, C. Lambert,\* S. Yamaguchi,\* T. B. Marder\*  
*Chem. Eur. J.*, **2019**, *25*, 13164–13175.
- (4) Tuning the  $\pi$ -Bridge of Quadrupolar Triarylborane Chromophores for One- and Two-Photon Excited Fluorescence Imaging of Lysosomes in Live Cells  
S. Griesbeck, M. Evripidis, C. Wang, H. Ogasawara, S. Lorenzen, L. Gerstner, T. Zang, J. Nitsch, Y. Sato, R. Bertermann, M. Taki, C. Lambert,\* S. Yamaguchi,\* T. B. Marder\*  
*Chem. Sci.*, **2019**, *10*, 5405–5422.
- (5) Optimization of Aqueous Stability vs.  $\pi$ -Conjugation in Tetracationic Bis(triarylborane) Chromophores: Applications in Live-Cell Fluorescence Imaging  
S. Griesbeck, M. Ferger, C. Czernetzki, C. Wang, R. Bertermann, A. Friedrich, M. Haehnel, D. Sieh, M. Taki, S. Yamaguchi,\* T. B. Marder\*  
*Chem. Eur. J.*, **2019**, *25*, 7679–7688.
- (6) A Highly Photostable Near-Infrared Labeling Agent Based on a Phospha-rhodamine for Long-Term and Deep Imaging  
M. Grzybowski, M. Taki,\* K. Senda, Y. Sato, T. Ariyoshi, Y. Okada, R. Kawakami, T. Imamura, S. Yamaguchi\*  
*Angew. Chem. Int. Ed.*, **2018**, *57*, 10137–10141.
- (7) A far-red fluorescent probe based on a phospha-fluorescein scaffold for cytosolic calcium imaging  
H. Ogasawara, M. Grzybowski, R. Hosokawa, Y. Sato, M. Taki,\* S. Yamaguchi\*  
*Chem. Commun.*, **2018**, *54*, 299–302.
- (8) Super-Photostable Phosphole-Based Dye for Multiple-Acquisition Stimulated Emission Depletion Imaging  
C. Wang, M. Taki,\* Y. Sato,\* A. Fukazawa,\* T. Higashiyama, S. Yamaguchi\*  
*J. Am. Chem. Soc.*, **2017**, *139*, 10374–10381.
- (9) Color-tunable fluorescent nanoparticles encapsulating trialkylsilyl-substituted pyrene liquids  
M. Taki,\* S. Azeyanagi, K. Hayashi, S. Yamaguchi\*  
*J. Mater. Chem. C*, **2017**, *5*, 2142–2148.
- (10) Selective Conversion of P=O-Bridged Rhodamines into P=O-Rhodols: Solvatochromic Near-Infrared Fluorophores  
M. Grzybowski, M. Taki,\* S. Yamaguchi\*  
*Chem. Eur. J.*, **2017**, *23*, 13028–13032.
- (11) Water-Soluble N-Heterocyclic Carbene-Protected Gold Nanoparticles: Size-Controlled Synthesis, Stability, and Optical Properties  
K. Salorinne, R. W. Y. Man, C-H. Li, M. Taki, M. Nambo, C. M. Crudden\*  
*Angew. Chem. Int. Ed.*, **2017**, *56*, 6198–6202.
- (12) A Macrocyclic Fluorophore Dimer with Flexible Linkers: Bright Excimer Emission with Long Fluorescence Lifetime  
H. Osaki, C-M. Chou, M. Taki,\* K. Welke, D. Yokogawa, S. Irle,\* Y. Sato, T. Higashiyama, S. Saito, A. Fukazawa, S. Yamaguchi\*  
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- (13) Phospha-fluorescein: a red-emissive fluorescein analogue with high photobleaching resistance  
A. Fukazawa,\* S. Suda, M. Taki,\* E. Yamaguchi, M. Grzybowski, Y. Sato, T. Higashiyama, S. Yamaguchi\*  
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- (14) A Phosphole Oxide Based Fluorescent Dye with Exceptional Resistance to Photobleaching: A Practical Tool for Continuous Imaging in STED Microscopy  
C. Wang, A. Fukazawa,\* M. Taki,\* Y. Sato, T. Higashiyama,\* S. Yamaguchi\*  
*Angew. Chem. Int. Ed.*, **2015**, 54, 15213–1521.
- (15) A Red-emitting Ratiometric Fluorescent Probe Based on a Benzophosphole *P*-Oxide Scaffold for the Detection of Intracellular Sodium Ions  
M. Taki,\* H. Ogasawara, H. Osaki, A. Fukazawa, Y. Sato, K. Ogasawara, T. Higashiyama, S. Yamaguchi\*  
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- (16) Environment-Sensitive Fluorescent Probe: A Benzophosphole Oxide with an Electron-Donating Substituent  
E. Yamaguchi, C. Wang, A. Fukazawa,\* M. Taki, Y. Sato, T. Sasaki, M. Ueda, N. Sasaki, T. Higashiyama, S. Yamaguchi\*  
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- (17) A mitochondria-targeted turn-on fluorescent probe based on a rhodol platform for the detection of copper(I)  
M. Taki,\* K. Akaoka, K. Mitsui, Y. Yamamoto  
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M. Taki,\* K. Akaoka, S. Iyoshi, Y. Yamamoto  
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- (21) Structural Insights into the Substrate Specificity of Bacterial Copper Amine Oxidase Obtained by Using Irreversible Inhibitors  
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- (23) Design and Synthesis of Fluorescent Probe for Polyhistidine Tag Using Macrocyclic Nickel(II) Complex and Fluorescein Conjugate  
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M. Taki,\* Y. Watanabe, Y. Yamamoto  
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