

Publication List

【原著論文】

- (1) Direct Synthesis of Prussian Blue Nanoparticles in Liposomes Incorporating Natural Ion Channels for Cs⁺ Adsorption and Particle Size Control, **T. Koshiyama**, M. Tanaka, M. Honjo, Y. Fukunaga, T. Okamura and M. Ohba, *Langmuir*, *34*, 1666 – 1672 (2018)〔主〕
- (2) Nonanuclear Ni(II) Complexes in a [1-7-1] Formation Derived from Asymmetric Multidentate Ligands: Magnetic and Electrochemical Properties, Y. Tsuji, T. Togo, A. Mishima, **T. Koshiyama** and M. Ohba, *Dalton Trans.*, *47*, 4036 – 4039 (2018)〔協〕
- (3) Selective Synthesis and Structural Conversion of Di- and Octa-nuclear Mn(II), Co(II), and Zn(II) Complexes, T. Togo, Y. Tsuji, A. Mishima, **T. Koshiyama** and M. Ohba, *Chem. Lett.*, *47*, 7141 – 7144 (2017) (Selected as a back cover picture)〔協〕
- (4) Sensing of Fluoride Ions in Aqueous Media using a Luminescent Coordination Polymer and Liposome Composite, M. Honjo, **T. Koshiyama**, Y. Fukunaga, Y. Tsuji, M. Tanaka and M. Ohba, *Dalton Trans.*, *46*, 7141 – 7144 (2017) (Selected as a back cover picture)〔主〕
- (5) Enhancement of Guest-Responsivity by Mesocrystallization of Porous Coordination Polymers, A. Mishima, **T. Koshiyama**, J. A. Real and M. Ohba, *J. Mater. Chem. C*, *5*, 3706-3713 (2017)〔協〕
- (6) Domain Size Dependent Fluorescence Resonance Energy Transfer in Lipid Domain Incorporated Fluorophores, T. Hatae, **T. Koshiyama** and M. Ohba, *Chem. Lett.*, *46*, 756–759 (2017)〔主〕
- (7) Lipophilic Ruthenium Salen Complexes: Incorporation into Liposome Bilayers and Photoinduced Release of Nitric Oxide, K. Nakanishi, **T. Koshiyama**, S. Iba and M. Ohba, *Dalton Trans.*, *44*, 14200-14203 (2015)〔主〕
- (8) Regulation of a Cerium(IV)-driven O₂ Evolution Reaction using Composites of Liposome and Lipophilic Ruthenium Complexes, **T. Koshiyama**, N. Kanda, K. Iwata, M. Honjo, S. Asada, T. Hatae, Y. Tsuji, M. Yoshida, M. Okamura, R. Kuga, S. Masaoka and M. Ohba, *Dalton Trans.*, *44*, 15126-15129 (2015)〔主〕
- (9) Guest Responsivity of a Two-Dimensional Coordination Polymer Incorporating a Cholesterol-Based Co-Ligand, K. Kajitani, **T. Koshiyama**, A. Hori, R. Ohtani, A. Mishima, K. Torikai, M. Ebine, T. Oishi, M. Takata, S. Kitagawa, and M. Ohba, *Dalton Trans.*, *42*, 15893-15897 (2013)〔主〕
- (10) Post-Crystal Engineering of Zinc-Substituted Myoglobin to Construct a Long-Lived Photoinduced Charge-Separation System
T. Koshiyama, M. Shirai, T. Hikage, H. Tabe, K. Tanaka, S. Kitagawa and T. Ueno
Angew. Chem. Int. Ed., *50*, 4849-4852 (2011)〔主〕
- (11) Dual Modification of a Triple-Stranded β -helix Nanotube with Ru and Re Metal Complexes to Promote Photocatalytic Reduction of CO₂, N. Yokoi, Y. Miura, C.-Y. Huang, N. Takatani, H. Inaba, **T. Koshiyama**, S. Kanamaru, F. Arisaka, Y. Watanabe, S. Kitagawa and T. Ueno, *Chem. Commun.*, *47*, 2074-2076 (2011)〔協〕

- (12) Construction of Robust Bio-nanotube by Controlled Self-assembly of Component Proteins of Bacteriophage T4, N. Yokoi, H. Inaba, M. Terauchi, A. Z. Stieg, N. J. M. Sanghamitra, **T. Koshiyama**, K. Yutani, S. Kanamaru, F. Arisaka, T. Hikage, A. Suzuki, T. Yamane, J. K. Gimzewski, Y. Watanabe, S. Kitagawa and T. Ueno
Small, 6, 1873-1879 (2010) (Selected as an inside cover picture)[協]
- (13) Modification of Porous Protein Crystals in Development of Bio-hybrid Materials
T. Koshiyama, N. Kawaba, T. Hikage, M. Shirai, Y. Miura, C. Huang, K. Tanaka, Y. Watanabe and T. Ueno, *Bioconjugate Chem.*, 21, 264-269 (2010)[主]
- (14) Elucidation of Metal-Ion Accumulation Induced by Hydrogen Bonds on Protein Surfaces by Using Porous Lysozyme Crystals Containing Rh^{II} Ions as the Model Surfaces, T. Ueno, S. Abe, **T. Koshiyama**, T. Ohki, T. Hikage, and Y. Watanabe, *Chem. Eur. J.*, 16, 2730-2740 (2010) Highlighted Paper.[協]
- (15) Construction of an Energy Transfer System in the Bio-nanocup Space by Heteromeric Assembly of gp27 and gp5 Proteins Isolated from Bacteriophage T4, **T. Koshiyama**, T. Ueno, S. Kanamaru, F. Arisaka and Y. Watanabe, *Org. Biomol. Chem.*, 7, 2649-2654 (2009)[主]
- (16) Molecular Design of Heteroprotein Assemblies providing a Bio-nanocup as a Chemical Reactor, **T. Koshiyama**, N. Yokoi, T. Ueno, S. Kanamaru, S. Nagano, Y. Shiro, F. Arisaka, Y. Watanabe, *Small*, 4, 50-54 (2008) featured in Materials Views 2008, February, A1.[主]
- (17) Bio-nanotube Tetrapod Assembly by *in situ* Synthesis of a Gold Nanocluster with (gp5-His₆)₃ from Bacteriophage T4, T. Ueno, **T. Koshiyama**, T. Tsuruga, T. Goto, S. Kanamaru, F. Arisaka, Y. Watanabe, *Angew. Chem. Int. Ed.*, 45, 4508-4512 (2006)[主]
- (18) Coordinated Design of Cofactor and Active Site Structure in Development of New Protein Catalysts, T. Ueno, **T. Koshiyama**, M. Ohashi, K. Kondo, M. Kono, A. Suzuki, T. Yamane, Y. Watanabe, *J. Am. Chem. Soc.*, 127, 6556-6562 (2005)[主]
- (19) Preparation of Artificial Metalloenzymes by Insertion of Chromium(III) Schiff Base Complexes into Apo-myoglobin Mutants, M. Ohashi, **T. Koshiyama**, T. Ueno, M. Yanase, H. Fujii and Y. Watanabe, *Angew. Chem. Int. Ed.*, 42, 1005-1008 (2003)[主]

【総説】

- (20) Design of Artificial Metalloenzymes using Non-covalent Insertion of a Metal Complex into a Protein Scaffold
T. Ueno, **T. Koshiyama**, S. Abe, N. Yokoi, M. Ohashi, H. Nakajima and Y. Watanabe
J. Organomet. Chem., 692, 142-147 (2007)[主]

【著書】

- (21) **越山友美**、上野隆史 「架橋化蛋白質結晶の不均一触媒への展開」
タンパク質結晶の新展開(シーエムシー出版)、第4編 第7章(2008)

【解説記事】

- (22) デイビジョントピックス「人工光合成に向けた酸素発生金属錯体触媒の合理的設計」
大場正昭、越山友美、「化学と工業」, 2016, 69(5), 397.
- (23) 注目の論文「光で細胞機能をコントロール 光誘起電荷分離分子が膜電位を制御する」
越山友美、月刊「化学」, 2013, 68(2), 66-67.