

2018 年

【査読つき学術論文】

- 1) “Potentiometric evaluation of antioxidant capacity using polyoxometalate-immobilized electrodes”, Y. Tanaka; T. Hasegawa; T. Shimamura; H. Ukeda; T. Ueda, *J. Electroanal. Chem.*, **828**, 102-107 (2018).
- 2) “Proton-enhanced dielectric property of polyoxometalates in water at radio frequency band”, Shuntaro Tsubaki *, Shogo Hayakawa, Tadaharu Ueda, Tomohiko Mitani, Ei-ichi Suzuki, Satoshi Fujii, Yuji Wada, *Materials*, **11**, 1202 (2018).
- 3) “Electrochemistry of polyoxometalates: From fundamental aspects to applications”, T. Ueda, *ChemElectroChem*, **5**, 823-838 (2018). **COVER FEATURE**
- 4) "Bluish-white Luminescence in Rare Earth-Free Vanadate Garnet Phosphors: Structural Characterization of $\text{LiCa}_3\text{MV}_3\text{O}_{12}$ (M = Zn and Mg)", T. Hasegawa, Y. Abe, A. Koizumi, T. Ueda, K. Toda, M. Sato, *Inorg. Chem.*, **57**, 857-866 (2018).
- 5) “Electrolyte Cation Dependence of the Electron Transfer Kinetics Associated with the $[\text{SVW}_{11}\text{O}_{40}]^{3-/4-}$ ($\text{V}^{\text{V/IV}}$) and $[\text{SVW}_{11}\text{O}_{40}]^{4-/5-}$ ($\text{W}^{\text{VI/V}}$) Processes in Propylene Carbonate”, J. Li, C. L. Bentley, T. Ueda, A. M. Bond, J. Zhang, *J. Electroanal. Chem.*, **819**, 193-201 (2018).
- 6) “Synthesis of Nano-Sized Materials Using Novel Water Assisted Solid State Reaction Method”, K. Toda, T. Kaneko, **T. Hasegawa**, M. Watanabe, Y. Abe, T. Kuroi, M. Sato, K. Uematsu, S.W. Kim, Y. Kudo, T. Masaki and D.H. Yoon, *Key Eng. Mater.*, **777**, 163-167 (2018).
- 7) “Luminescence enhancement of $\text{LiSrPO}_4\text{:Eu}^{2+}$ phosphor by Mg^{2+} ion addition”, S. Kamei, T. Hatsumori, **T. Hasegawa**, T. Ishigaki, K. Uematsu, K. Toda and M. Sato, *Mater. Res. Innov.*, *in press*.
- 8) “Synthesis of $\text{Na}_2\text{FePO}_4\text{F}$ using polytetrafluoroethylene”, A. Tsu-ura, H. Torii, **T. Hasegawa**, D. Murayama, S.W. Kim, K. Uematsu, K. Toda and M. Sato, *J. Ceram. Soc. Jpn.*, **126**, 336-340 (2018).
- 9) “Structure of tri-aqua-tris-(1,1,1-tri-fluoro-4-oxo-pentan-2-olato)cerium(III) as a possible fluorescent compound”, A. Koizumi, **T. Hasegawa**, A. Itadani, K. Toda, T. Zhu and M. Sato, *Acta Cryst.*, **E74**, 229-232 (2018).
- 10) “Nanophosphors synthesized by the water assisted solid state reaction (WASSR) method: Luminescence properties and reaction mechanism of the WASSR method”, S.W. Kim, **T. Hasegawa**, M. Watanabe, M. Muto, T. Terashima, Y. Abe, T. Kaneko, A. Toda, T. Ishigaki, K. Uematsu, K. Toda, M. Sato, E. Kawakami, J. Koide, M. Toda, Y. Kudo, T. Masaki and D.H. Yoon, *Appl. Spectrosc. Rev.*, **53**, 177-194 (2018).

【外部資金獲得実績】

< 奨学寄附金 >

- 1) 植物の生長を促進し、安定供給を実現する無機波長変換材料の開発、第 2 回 イムラ・ジャパン賞 (代表: 長谷川拓哉), 1,000 千円 (2018).

【受賞】

- 1) 第2回イムラ・ジャパン賞, 植物の生長を促進し、安定供給を実現する無機波長変換材料の開発, 長谷川拓哉, 2018