

2019 年

【査読付き学術論文】

- 1) “Quantitative Determination of the Effective Mn^{4+} Concentration in a $Li_2TiO_3:Mn^{4+}$ Phosphor and Its Effect on the Photoluminescence Efficiency of Deep Red Emission”, T. Hasegawa, Y. Nishiwaki, F. Fujishiro, S. Kamei, T. Ueda, ACS Omega, 4, 19856-19862 (2019). **COVER ARTICLE**
- 2) “Blue-light-pumped wide-band red emission in a new Ce^{3+} -activated oxide phosphor, $BaCa_2Y_6O_{12}:Ce^{3+}$: Melt synthesis and photoluminescence study based on crystallographic analyses”, T. Hasegawa, M. Iwaki, S. W. Kim, T. Ueda, K. Uematsu, K. Toda, M. Sato, J. Alloys and Compounds, 797, 1181-1189 (2019).
- 3) "Radio frequency alternating electromagnetic field enhanced tetraruthenium polyoxometalate electrocatalytic water oxidation", S. Tsubaki, S. Hayakawa, T. Ueda, S. Fujii, E. Suzuki, J. Zhang, A. M. Bond, Y. Wada, Chem. Commun., 55, 1032-1035 (2019). **BACK SIDE COVER**
- 4) “Single Crystal Growth and Crystal Structure Analysis of Novel Orange-Red Emission Pure Nitride $CaAl_2Si_4N_8:Eu^{2+}$ Phosphor”, S. Hasegawa, T. Hasegawa, S.W. Kim, R. Yamanashi, K. Uematsu, K. Toda, M. Sato, ACS Omega 4, 9939-9945 (2019).
- 5) “Blue-yellow multicolor phosphor, Eu^{2+} -activated Li_3NaSiO_4 : Excellent thermal stability and quenching mechanism”, M. Iwaki, S. Kumagai, S. Konishi, A. Koizumi, T. Hasegawa, K. Uematsu, A. Itadani, K. Toda, M. Sato, Journal of Alloys and Compounds 776, 1016-1024 (2019).
- 6) “Luminescence enhancement of $LiSrPO_4:Eu^{2+}$ phosphor by Mg^{2+} ion addition”, S. Kamei, T. Hatsumori, T. Hasegawa, T. Ishigaki, K. Uematsu, K. Toda, M. Sato, Materials Research Innovations 23, 359-362 (2019).
- 7) “Improved luminescence properties of Na_2TiSiO_5 phosphor by the Ge^{4+} doping in the crystal lattice”, Y.J. Park, S.W. Kim, K. Sugimoto, T. Hasegawa, K. Tanimoto, K. Uematsu, K. Toda, M. Sato, Journal of Ceramic Processing Research, 20, 460-463 (2019).
- 8) “Mild condition synthesis without high temperature process of Eu^{2+} -doped barium orthosilicate nanophosphor via Water-Assisted Solid-State Reaction (WASSR) method”, Y. Shibuta, T. Hasegawa, S.W. Kim, K. Uematsu, K. Toda, M. Sato, Journal of Alloys and Compounds, 788, 1009-1012 (2019).
- 9) “Novel green $Sr_4ScAl_3O_{10}:Eu^{2+}$ phosphor prepared by the melt quenching technique”, K. Toda, M. Iwaki, M. Katsu, S.N. Kamei, S.W. Kim, T. Hasegawa, M. Muto, R. Yamanashi, T. Sakamoto, T. Ishigaki, K. Uematsu, M. Sato, D.H. Yoon, Journal of Ceramic Processing Research, 20, 276-279 (2019).

【著書】

- 1) “Microwave-assisted conversion of marine polysaccharides”, S. Tsubaki, A. Onda, T. Ueda, M. Hiraoka, S. Fujii, Y. Wada, Enzymatic Technologies for Marine Polysaccharides, Edited by Antonio Trincone, CRC Press, pp 321-334 (2019)

2019 年以前の研究業績 小河