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シンチレータにおける LET 効果の制御技術の開拓 Development of controlling technique of LET effects in scintillators

学術論文（査読あり）

- [1] M. Koshimizu, S. Kurashima, A. Kimura, M. Taguchi, T. Yanagida, H. Yagi, T. Yanagitani, Y. Fujimoto, K. Asai, "Effect of linear energy transfer on the scintillation properties of Ce:Gd₃Al₂Ga₃O₁₂", Nucl. Instrum. Methods Phys. Res. B **460**, 74 (2019).
- [2] Masanori Koshimizu, Atsushi Kimura, Satoshi Kurashima, Mitsumasa Taguchi, Takayuki Yanagida, Yutaka Fujimoto, Keisuke Asai, "Effect of Linear Energy Transfer on the Scintillation Properties of Ce-doped Ca₃B₂O₆ crystals", Nucl. Instrum. Methods Phys. Res. B **471**, 59 (2020).

国際会議

- [1] Masanori Koshimizu, A. Kimura, S. Kurashima, M. Taguchi, T. Yanagida, Y. Fujimoto, K. Asai, "Effects of linear energy transfer on scintillation properties of Ce-doped Ca₃B₂O₆ scintillator", 20th International conference on Radiation Effects in Insulators (REI-20), 令和元年 8 月 19～23 日, Eurasian National University, Nursultan, Kazakhstan.
- [2] Masanori Koshimizu, N. Kawano, A. Kimura, S. Kurashima, M. Taguchi, Y. Fujimoto, K. Asai, "Excitation density effects on scintillator properties of organic-inorganic layered perovskite-type compounds", 20th International conference on Radiation Effects in Insulators (REI-20), 令和元年 8 月 19～23 日, Eurasian National University, Nursultan, Kazakhstan.
- [3] Masanori Koshimizu, Satoshi Kurashima, Atsushi Kimura, Mitsumasa Taguchi, Takayuki Yanagida, Yutaka Fujimoto, Keisuke Asai, "Excitation density effects on the scintillation properties of CdWO₄", The 19th International Conference on Solid State Dosimetry (SSD19), 令和元年 9 月 15～20 日, International Conference Center Hiroshima, Hiroshima, Japan.
- [4] M. Koshimizu, A. Kimura, S. Kurashima, M. Taguchi, T. Yanagida, Y. Fujimoto, K. Asai, "Excitation density effects on scintillation properties of Li-based scintillators for neutron detection", 44rd International Conference & Exposition on Advanced Ceramics & Composites, 令和 2 年 1 月 26 日～31 日, Hilton Daytona Beach Oceanfront Resort, Daytona, US.

国内会議

- [1] 越水 正典、河野 直樹、木村 敦、倉島 俊、田口 光正、藤本 裕、浅井 圭介「有機無機ペロブスカイト型化合物のシンチレーションにおける LET 依存性」2019 年第 80 回応用物理学会秋季学術講演会、令和元年 9 月 18 日～21 日、北海道大学 札幌キャンパス、札幌。