

### Ⅲ) 研究成果の公表の状況

#### 1) 論文

##### 1 - 1 原著論文 (24 件)

1. D. Li, Y. Wang, M. Nakajima, M. Tani, M. Hashida, M. R. Asakawa, Y. Wei, and S. Miyamoto, "Coherent radiation at the fundamental frequency by a Smith-Purcell free-electron laser with dielectric substrate," *Appl. Phys. Lett.* **110**, 151108 (April 2017); doi: 10.1063/1.4980046.
2. Alexander De Los Reyes, Elizabeth Ann Prieto, Karim Omambac, Jeremy Porquez, Lorenzo Lopez Jr., Karl Cedric Gonzales, John Daniel Vasquez, Mae Agatha Tumanguil, Joselito Muldera, Kohji Yamamoto, Masahiko Tani, Armando Somintac, Elmer Estacio, and Arnel Salvador, "Terahertz emission characteristics of GaMnAs dilute magnetic semiconductor under 650 mT external magnetic field," *Curr. Appl. Phys.* **17**(4), 522-526 (April 2017); 10.1016/j.cap.2017.01.021.
3. Kunizo Ohkubo, Teruo Saito, Yuusuke Yamaguchi, Yoshinori Tatematsu, Jun Kasa, Shin Kubo, Takashi Shimozuma, Kenji Tanaka, Masaki Nishiura, "Transmission Characteristics of Hybrid Modes in Corrugated Waveguides Above the Bragg Frequency", *Journal of Infrared, Millimeter, and Terahertz Waves* **38**(7), 853–873 (July 2017) (published on line April 27, 2017); doi:10.1007/s10762-017-0385-y.
4. P. Tingzon, L. Lopez, N. Oliver, N. Cabello, A. Cafe, A. De Los Reyes, J. Muldera, E. Prieto, C. Que, G. Santos, M. Tani, A. Salvador, and E. Estacio, "Terahertz emission and photoluminescence of silicon nanowires electrolessly etched on the surface of silicon (100), (110), and (111) substrates for photovoltaic cell applications," *Photon. Nano. Fund. Appl.* **24**, 1-6 (May 2017); doi: 10.1016/j.photonics.2017.01.001.
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6. Masafumi Fukunari, Kimiya Komurasaki, Yusuke Nakamura, Yasuhisa Oda, Keishi Sakamoto, "Rocket Propulsion Powered using a Gyrotron," *Journal of Energy and Power Engineering* **11**(6), 363-371 (published on June 30, 2017); doi: 10.17265/1934-8975/2017.06.001
7. Kosaku Kato, Hongsong Qiu, Eduard M. Khutoryan, Yoshinori Tatematsu, Masahiko Tani, Toshitaka Idehara, Yuusuke Yamaguchi, Masafumi Fukunari, Yuto Maeda, Kyoya Takayama, Yuki Minami, Melvin John F. Empizo, Takayuki Kurihara, Kohei Yamanoi, Toshihiko Shimizu, Keisuke Takano, Nobuhiko Sarukura, Tsuguo Fukuda, Masashi Yoshimura, and Makoto Nakajima, "Strong yellow emission of high-conductivity bulk ZnO single crystals irradiated with high-power gyrotron beam", *Appl. Phys. Lett.* **111**, 031108 (published online on 18 July 2017); <https://doi.org/10.1063/1.4994316>.
8. 石川裕也, 大矢健太, 藤井裕, 光藤誠太郎, 小泉優太, 三浦俊亮, 水崎隆雄, 菊池彦光, 福田昭, 松原明, 山森英智, Soonchil Lee, Sergey Vasiliev: 「動的核偏極 NMR 測定のた

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online, December 4, 2017). doi: 10.1109/TPS.2017.2775678.

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20. H Aripin, Joni I Made, Seitaro Mitsudo, Sudiana I Nyoman, Edvin Priatna, Nundang Busaeri, Svilen Sabchevski, "Formation and Particle Growth of TiO<sub>2</sub> in Silica Xerogel Glass Ceramic During a Sintering Process," *International Journal of Technology* **8**, 1507-1515 (2017). (published in print December, 2017). (doi: 10.14716/ijtech.v8i8.750).
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24. Dmitry S. Bulgarevich, Susumu Tsukamoto, Tadashi Kasuya, Masahiko Demura, and Makoto Watanabe, "Pattern recognition with machine learning on optical microscopy images of typical metallurgical microstructures," *Scientific Reports* **8**, 2078 (2018), (published on line February 01, 2018). (doi:10.1038/s41598-018-20438-6).

## 1 – 2 国際会議論文 ( 1 件)

1. K. Tanaka, M. Nishiura, S. Kubo, T. Shimozuma, T. Saito, D. Moseev and I. Abramovi, "154 GHz collective Thomson scattering in LHD," *18th International Symposium on Laser-Aided Plasma Diagnostics* 24–28 September 2017, Prague, Czech Republic, published in *Journal of Instrumentation* **13**(1), C01010 (2018) 9 pages, published online January 10, 2018.