
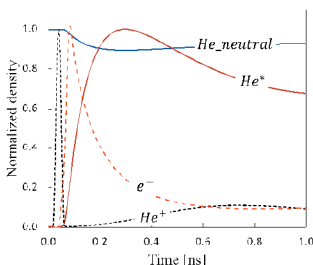
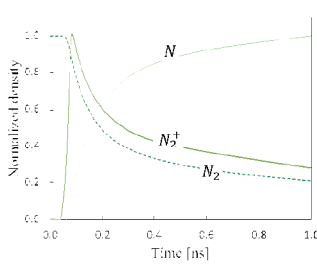
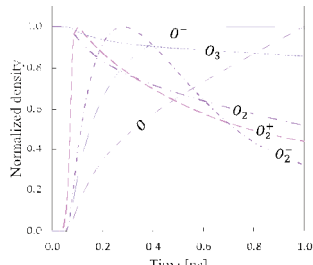


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| 学位 | 修士 (工学) | e-mail/URL | thanet@nagaoka-ct.ac.jp | |
| キーワード | Electrical, Plasma dynamics, Numerical simulation | | | |
| 研究分野 | <p>Chemical kinetics and atomic process in atmospheric pressure plasma towards optical analysis of plasma. プラズマパラメータの光学的分析に向けた大気圧プラズマ中の化学反応速度および原子過程。 ・ K. THANET, W. F. Leon, K. TAKAHASHI, T. KIKUCHI and T. SASAKI, <i>Determination of Helium-Discharge Atmospheric-Pressure Plasma Parameters and Distribution Using Numerical Simulation</i>. Plasma and Fusion Res. Vol.16 Page 2401060-8 (2021)</p> | | | |
| 特別設備 | <p>My study's main area relates to numerical investigation through simulations for experimental observations on atmospheric pressure plasma applications. The features of atmospheric pressure plasma are low-temperature processing, generating reactive species, and unnecessary complex equipment. However, the distribution and the lifetime of reactive species as a function of plasma parameters are unclear. To provide the engineering use, I calculate the chemical and atomic process in the atmospheric pressure plasma by using computer simulation from the space observations. The below statement summarizes my current research for understanding atmospheric pressure plasma jet. I also collaborate my work with the Plasma Dynamics Laboratory at Nagaoka University of Technology.</p> <div style="display: flex; justify-content: space-around;">    </div> <p style="text-align: center;">(a) (b) (c)</p> <p>Fig. Prediction the density of chemical specimens on nanosecond timescale in atmospheric pressure plasma jet (a) Helium and electron, (b) and (c) are RONS.</p> | | | |
| 技術PR・企業に向けて | <ul style="list-style-type: none"> ・ I am engaging in a wide range of research with the keyword "plasma", from basic physics to engineering applications, experiments to numerical simulations. ・ Relationship of plasma dynamics laboratory | | | |
| 企業との連携実績 | <ul style="list-style-type: none"> ・ For 14 years of working with a Japanese company. <ul style="list-style-type: none"> -(2001-2013) NOK corporation -(2015-2017) Toray group ・ Experience work on overseas projects such as in Singapore, China, and Japan. ・ Knowledge skill: Kaizen, QCC, Group work, Leadership and so on. ・ 3rd Thailand Kaizen Award 2010 in Automation Kaizen & Karakuri Kaizen from Prime Minister of Thailand. (Reduce the loss of copper in production) ・ President of Thai student association (TSAJ) in Nagaoka University of Technology, Niigata (2015). | | | |