

研究成果報告書 (掲載期間 2019.11.1–2020.10.31)

審査学術論文

- (1) Ken Takata, Kohsaku Ushioda, Kenji Kaneko, Ryutaro Akiyoshi, Ken-ichi Ikeda, Satoshi Hata, Hideharu Nakashima: Solid Solution Hardening in Supersaturated Al-Mg-Si Alloy, *Material Transaction*, 12, 2019, pp2525-2529
- (2) Kohsaku Ushioda, Ken Takata, Jun Takahashi, Keisuke Kinoshita and Hideaki Sawada: Changes in states of carbon and mechanical properties with aging at 50 °C after quenching in low carbon steel, *Materials Transactions*, 60, 2020, pp668-677
- (3) Kakeru Ninomiya, Kazutaka Kamitani, Yusuke Tamenori, Kazuki Tsuruta, Ken Takata, Hideaki Sawada, Keisuke Kinoshita, Maiko Nishibori: Analysis of the dynamica behavior and local structure of solid-solution carbon in age-hardened low-carbon by soft X-ray absorption spectroscopy, *Materialia*, 14, 2020, 100876
- (4) Koji Inoue, Ken Takata, Kenji Kazumi, Yasuharu Shirai: High concentration of vacancies induced by b" phase formation in Al-Mg-Si alloys, *Philosophical Magazine Letters*, 6, 2020, pp260-270

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- (1) Ken Takata, Yuta Ishikawa: Effects of dislocation and clusters in Al-Mg-Si alloys on electric resistivity during tensile deformation, *FiMPART2019*, 12月, Ahmedabad, India
- (2) Ryuji Inomata, Ken Takata: Effect of pre-strain on precipitation in Al-Mg-Si alloy, *FiMPART2019*, 12月, Ahmedabad, India

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