

RESEARCH ACTIVITIES and ACHIEVEMENTS

Prof. Dr. Michiaki Yamasaki

as of 31st March, 2021

Journal Paper Publications

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121. Texture evolution and fracture behavior of friction-stir-welded non-flammable Mg–Al–Ca alloy extrusions, S. -I. Inoue*, M. Yamasaki, M. Ohata, S. Kakiuchi, Y. Kawamura, H. Terasaki, *Materials Science & Engineering A*, 799 (2021) Art. No. 140090.
<https://doi.org/10.1016/j.msea.2020.140090>, Issued on 2nd January 2021.

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120. Classification of high-temperature oxidation behavior of Mg-1 at% X binary alloys and application of proposed taxonomy to nonflammable multicomponent Mg alloys, S. -I. Inoue*, M. Yamasaki, Y. Kawamura, *Corrosion Science* 174 (2020) Art. No. 108858.
<https://doi.org/10.1016/j.corsci.2020.108858>, Issued on September, 2020.
119. Hot compression deformation behavior of Mg–Y–Zn alloys containing LPSO phase, H. Somekawa*, Y. Nakasuji, M. Yuasa, H. Miyamoto, M. Yamasaki, Y. Kawamura, *Materials Science and Engineering A*, 792 (2020) Art. No. 139777.
<https://doi.org/10.1016/j.msea.2020.139777>, Issued on 5th August, 2020.
118. Microstructure and mechanical properties of low-temperature wrought-processed Mg–Y–Zn alloy containing LPSO phase, H. Somekawa*, D. Ando, M. Yamasaki, Y. Kawamura, *Materialia*, 12 (2020), Art. No. 100786.
<https://doi.org/10.1016/j.mtla.2020.100786>, Issued on August, 2020.
117. Structural and diffusional phase transformations in liquid-quenched Mg₈₅Y₉Zn₆ ribbons below the bifurcation temperature, H. Okuda*, M. Yamasaki, Y. Kawamura, *Acta Materialia*, 194 (2020) 587-593.
<https://doi.org/10.1016/j.actamat.2020.05.048>, Issued on 1st August, 2020.
116. Enhanced non-linearity during unloading by LPSO phase in as-cast Mg-Zn-Y alloys and slip-dominated non-linear unloading mechanism, K. Shiraishi, T. Mayama*, M. Yamasaki, Y. Kawamura, *Materials Science and Engineering A*, 790 (2020) Art. No. 139679.
<https://doi.org/10.1016/j.msea.2020.139679>, Issued on 14th July, 2020.
115. Loading orientation dependence of the formation behavior of deformation kink bands in the Mg-based long-period stacking ordered (LPSO) phase, K. Hagihara*, T. Okamoto, R. Ueyama, M. Yamasaki, Y. Kawamura, T. Nakano, *Materials Transactions*, 61(5) (2020) 1821-1827.
114. Temperature dependence of prismatic slip in a single-crystalline long-period stacking ordered Mg–Zn–Y alloy, K. Takagi, M. Yamasaki, Y. Mine*, K. Takashima, *Scripta Materialia*, 178 (2020) 498–502.
<https://doi.org/10.1016/j.scriptamat.2019.12.025>, Issued on 15th March, 2020.

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113. In-situ Investigation of the Microstructure Evolution in Long-Period-Stacking-Ordered (LPSO) Magnesium Alloys as a Function of the Temperature, K. Mathis*, D. Drozdenko, G. Nemeth, S. Harjo, W. Gong, K. Aizawa, M. Yamasaki, Y. Kawamura, *Frontiers in Materials*, 6 (2019) Art. No. 270.
<https://doi.org/10.3389/fmats.2019.00270>. Issued on 5th November, 2019.
112. Optimization of mechanical properties of dilute Mg-Zn-Y alloys prepared by rapid solidification, D.

- Drozdenko*, M. Yamasaki, K. Mathis, P. Dobron, P. Lukac, N. Kizu, S.-I. Inoue, Y. Kawamura, *Materials and Design*, 181 (2019) Art. No. 107984.
<https://doi.org/10.1016/j.matdes.2019.107984>, Issued on 29 June, 2019.
111. High-strain-rate superplasticity and tensile behavior of fine-grained Mg₉₇Zn₁Y₂ alloys fabricated by chip/ribbon-consolidation, K. Suzawa, S.-I. Inoue, S. Nishimoto, S. Fuchigami, M. Yamasaki*, Y. Kawamura, K. Yoshida, N. Kawabe, *Materials Science & Engineering A*, 764 (2019) Art. No. 138179.
<https://doi.org/10.1016/j.msea.2019.138179>, Issued on 17 July 2019.
110. Strengthening of Mg-based long-period stacking ordered (LPSO) phase with deformation kink bands, K. Hagihara*, M. Yamasaki, Y. Kawamura, T. Nakano, *Materials Science & Engineering A*, 763 (2019) Art. No. 138163.
 DOI: 10.1016/j.msea.2019.138163, Issued on 16th July, 2019.
109. A novel long-period stacking/order structure in Mg-Ni-Y alloys, K. Yamashita, T. Itoi, M. Yamasaki, Y. Kawamura, E. Abe*, *Journal of Alloys and Compounds*, 788 (2019) 277-282. IF: 3.779 (2017)
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108. Ultrafine spherulite Mg alloy with high yield strength, M. Matsushita*, K. Masuda, R. Waki, H. Ohfuji, M. Yamasaki, Y. Kawamura, Y. Higo, *Journal of Alloys and Compounds*, 784 (2019) 1284-1289. IF: 3.779 (2017)
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107. Key factor for the transformation from Hcp to 18R-type long-period stacking ordered structure in Mg alloys, M. Matsushita*, T. Nagata, J. Bednarcik, N. Nishiyama, S. Kawano, S. Iikubo, Y. Kubota, R. Morishita, T. Irifune, M. Yamasaki, Y. Kawamura, M. Enoki, H. Ohtani, *Materials Transactions*, 60 (2019) 237-245. IF: 0.675 (2017)
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106. Oxidation behavior and incombustibility of molten Mg-Zn-Y alloys with Ca and Be addition, S.-I. Inoue, M. Yamasaki*, Y. Kawamura, *Corrosion Science*, 149 (2019) 133-143. IF: 4.862 (2017)
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105. High-Strength AZ91 Alloy Fabricated by Rapidly Solidified Flaky Powder Metallurgy and Hot Extrusion, T.-K. Lee, M. Yamasaki*, Y. Kawamura, J.-B. Go, S.-H. Park*, *Metals and Materials International*, 25 (2019) 372-380. IF: 1.952 (2017)
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104. Strengthening mechanisms acting in extruded Mg-based long-period stacking ordered (LPSO)-phase alloys, K. Hagihara*, Z. Li, M. Yamasaki, Y. Kawamura, T. Nakano, *Acta Materialia*, 163 (2019) 226-239. IF: 6.036 (2017)
103. Type and density of dislocations in a plastically deformed long-period stacking ordered magnesium alloy, M. El-Tahawy, K. Mathis, G. Garces, T. Matsumoto, M. Yamasaki, Y. Kawamura, J. Gubicza*, *Journal of Alloys and Compounds*, 771 (2019) 629-635. IF: 3.779 (2017)
102. High strain-rate superplasticity of AZ91 alloy achieved by rapidly solidified flaky powder metallurgy, T.-K. Lee*, M. Yamasaki*, Y. Kawamura, Y.-M. Lee, C.-S. Lee, *Materials Letters*, 234 (2019) 245-248. IF: 2.687 (2017)
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101. The seeds of Zn₆Y₈ L1₂-type clusters in amorphous Mg₈₅Zn₆Y₉ alloy investigated by photoemission spectroscopy, S. Hosokawa*, J.R. Stellhorn, B. Paulus, K. Maruyama, K. Kobayashi, H. Okuda, M. Yamasaki, Y. Kawamura, H. Sato, *Journal of Alloys and Compounds*, 764 (2018) 431-436. IF: 3.779 (2017)
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97. The structure of a novel long-period superlattice phase in $Mg_{97}Zn_1Yb_2$ alloys, N. Fujita, M. Matsushita*, R. Tsukamoto, M. Yamasaki, Y. Kawamura, T. Irifune, E. Abe*, *Scripta Materialia*, 150 (2018) 78-81. IF: 4.163 (2017)
96. Phonon excitations in a single crystal $Mg_{85}Zn_6Y_9$ with a synchronized long-period stacking ordered phase, S. Hosokawa*, K. Kimura, J.R. Stellhorn, K. Yoshida, K. Hagihara, H. Izuno, M. Yamasaki, Y. Kawamura, Y. Mine, K. Takashima, H. Uchiyama, S. Tsutsui, A. Koura, F. Shimojo, *Acta Materialia*, 146 (2018) 273-279. IF: 6.036 (2017)
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94. Insignificant elastic-modulus mismatch and stress partitioning in two-phase Mg-Zn-Y alloys comprised of α -Mg and long-period stacking ordered phases, M. Tane*, S. Suzuki, M. Yamasaki, Y. Kawamura, K. Hagihara, H. Kimizuka: *Materials Science and Engineering A*, 710 (2018) 227-239. IF: 3.414 (2017)
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91. Impurity effects in the microscopic elastic properties of polycrystalline Mg-Zn-Y alloys with a synchronized long-period stacking ordered phase, S. Hosokawa*, K. Kimura, M. Yamasaki, Y. Kawamura, K. Yoshida, M. Inui, S. Tsutsui, A.Q.R. Baron, Y. Kawakita, S. Itoh: *Journal of Alloys and Compounds*, 695 (2017) 426-432. IF: 3.779 (2017)
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