

Electron Microscopy Centre Research Output

Based on the family name of the first author, all publications by EMC users are arranged in an alphabetical order by year.

2019

1. H. Abdeyazdan, N. Dogan, R.J. Longbottom, M. Akbar Rhamdhani, M.W. Chapman, B.J. Monaghan, Dissolution of Sapphire and Alumina–Magnesia Particles in CaO–SiO₂–Al₂O₃ Liquid Slags. In: Nakano J. et al. (eds) *Advanced Real Time Imaging II*. 2019, The Minerals, Metals & Materials Series. Springer, Cham, 61-73 doi:10.1007/978-3-030-06143-2_7
2. A.A. Saleh, W. Wen, E.V. Pereloma, S.J. McCormack, C.N. Tomé, A.A. Gazder, Experimental and Self-Consistent Modeling Study of De-twinning in a Twinning-Induced Plasticity Steel, *JOM*, 2019, 71(4), 1396-1403.
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4. X. Bian, A.A. Gazder, A.A.. Saleh, E.V. Pereloma, A comparative study of a NiTi alloy subjected to uniaxial monotonic and cyclic loading-unloading in tension using digital image correlation: The grain size effect, *J. Alloys Comp.* 2019, 777. 723-735.
5. Z. Fei, Z. Pan, D. Cuiuri, H. Li, B. Wu, L. Su, 2019. Improving the weld microstructure and material properties of K-TIG welded armour steel joint using filler material. *The International Journal of Advanced Manufacturing Technology*, Vol.100, issue.5-8, pp.1931-1944.
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9. O.O. Marenych, A.G. Kostryzhev, Z. Pan, H. Li, S. van Duin, Comparative effect of Mn/Ti solute atoms and TiC/Ni₃(Al,Ti) nano-particles on work hardening behaviour in Ni-Cu alloys fabricated by wire arc additive manufacturing, *Materials Science and Engineering A*, 2019, 753, 262-275.

10. F. Mehrpouya, Z. Yue, T. Romeo, R. Gorkin, R.M.I. Kapsa, S.E. Moulton, G.G. Wallace, A simple technique for development of fibres with programmable microsphere concentration gradients for local protein delivery, *J. Mater. Chem. B*, 2019, **7**, 556-565.
11. R. Naseri, D.R.G. Mitchell, D.G. Savvakis, M.J.B. Nancarrow, T. Furuhashi, A.A. Saleh, A.A. Gazder, E.V. Pereloma, The effect of β -phase condition on the tensile behaviour in a near- β Ti alloy produced by blended elemental powder metallurgy, *Mater. Sci. Engg. A*, 2019, **747**, 232-243.
12. S. Pramanik, D.R.G. Mitchell, A.A. Saleh, A.A. Gazder, E.V. Pereloma, Evolution of Microstructure During the In Situ Heating of 42 Pct Cold-Rolled High Mn Steel, *Metall. Mater. Trans. A*, 2019, **50(2)**, 562-572.
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15. J. Wang, Z. Pan, G. Yang, J. Han, X. Chen, H. Li, Location dependence of microstructure, phase transformation temperature and mechanical properties on Ni-rich NiTi alloy fabricated by wire arc additive manufacturing, *Materials Science & Engineering A*, 2019, **749**, 218–222.
16. J. Wang, Z. Pan, D. Cuiuri, H. Li, Phase constituent control and correlated properties of titanium aluminide intermetallic alloys through dual-wire arc additive manufacturing, *Materials Letters*, 2019, **242**, 111–114
17. J. Zhang, Z. Chen, H. Wu, J. Zhao, Z.Y. Jiang, Effect of graphene on the tribolayer of aluminium matrix composite during dry sliding wear, *Surface and Coatings Technology*, 2019, **358**, 907-912.
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Molong Volcanic Belt, Lachlan Orogen. *Lithos*, 2019, 326-327, 513-528: doi:10.1016/j.lithos.2019.01.008.

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