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2018

- 18-01 C. Soderhjelm, D. Apelian, "MultiMaterial Casting - Practical Foundry Guidelines", in AFS Transactions, 122nd Metalcasting Congress, Fort Worth, Texas, April 3-5, 2018.
- 18-02 A. Birt, R. Paffenroth, D. Apelian, "Simplifying the Material World: Unsupervised Classification of Feedstock Materials in Metal Powder Manufacturing" submitted to Powder Technology.
- 18-03 R. De Saro, D. Apelian, D. Spencer, M.S. Mellen "Metal Sorting, Melting and Fabrication Apparatus and Methods", U.S. Patent No. 9,956,609, patent issue date May 1, 2018. (*Patent licensed to Melt Cognition LLC*).
- 18-04 R. Eberheim, C. Soderhjelm, D. Apelian "Metal Based Additive Manufacturing," filing date May 16, 2018 and 62/672,184 U.S. provisional patent serial number.
- 18-05 Y. Chen, Y. Fan, Q. Qin, R.D. Sisson, D. Apelian, J. Liang, " Synthesis of Si Anode with a Microsized-Branched Structure from Recovered Al Scrap for use in Li-Ion Batteries", Journal of Power Sources, Volumes 410-411, 15-31 January 2019, pg. 31-37.
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- 18-12 N. Sun, W.J. Jones, D. Apelian, "Friction Stir Processing of Aluminum Alloy A206: Part II- Tensile and Fatigue Properties, International Journal of Metalcasting, International Journal of Metalcasting, Volume 13, Issue 2, April 2019, pg. 244-254.

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- 17-01 A. S. Sabau, S. Mirmiran, C. Glaspie, S. Li, D. Apelian, A. Shyam, A. J. Haynes, and A. F. Rodriguez, "Hot-tearing of multicomponent Al-Cu alloys by casting load measurements in a constrained permanent mold", TMS 2017 146th Annual Meeting & Exhibition Supplemental Proceedings, The Minerals, Metals & Materials Series, pp. 465-473, DOI 10.1007/978-3-319-51493-2_44.
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- 17-10 J. Keist, D. Apelian, Y. Li, "Fluidized Bed Heat Treating of Magnesium Alloy MRI-206S (Mg-1.5%Nd-0.2%Y-0.2Zn-0.4%Zr)", submitted to *Intl. J. of Metal Casting*.
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