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PUBLICATION DETAILS (LAST 5 YEARS)

1. Babu, V., **Balasivanandha Prabhu Shanmugavel** & Padmanabhan, K.A. On the Influence of Strain Rate and Number of Passes on Grain Refinement in Al-Mg-Si Alloy Processed by Cyclic Expansion Extrusion. *J. of Materi Eng and Perform* (2020). <https://doi.org/10.1007/s11665-020-05264-0>
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3. Babu, V., **Balasivanandha Prabhu Shanmugavel**, and K. A. Padmanabhan. "On the Microstructural Homogeneity and Mechanical Properties of Al 6063 Alloy Processed by the Cyclic Expansion Extrusion Process." *Journal of Materials Engineering and Performance* (2020): 1-11.
4. Chidambaram, A., A. S. Vivekananda, **Balasivanandha Prabhu Shanmugavel**, and K. A. Padmanabhan. "On the wear behavior of AA6061 alloy and in-situ AA6061-TiB₂ composite subjected to Equal Channel Angular Pressing." *Surface Topography: Metrology and Properties* 8, no. 4 (2020): 045005.
5. Santhosh Sivan Sembulingam, Pradhyun Veerapanaicker Soundaraj, **Balasivanandha Prabhu Shanmugavel**, Enhanced thermal stability and wear resistance of TiCN-SiC-TiN-Cr₃C₂-Co cermet modified by B₄C for cutting tool application, *International Journal of Refractory Metals and Hard Materials*, Volume 93, 2020, 105352, ISSN 0263-4368, <https://doi.org/10.1016/j.jirmhm.2020.105352>.
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9. Vasudevan, Nivedhita, Nuzhet Nihaar Nasir Ahamed, B. Pavithra, Ashwath Aravindhan, and **Balasivanandha Prabu Shanmugavel**. "Effect of Ni addition on the densification of TiC: A comparative study of conventional and microwave sintering." *International Journal of Refractory Metals and Hard Materials* 87 (2020): 105165.
10. Ayubali, Arsath Abbasali, **Balasivanandha Prabu Shanmugavel**, and K. A. Padmanabhan. "On the relative accuracy of power law analyses for uniaxial low stress steady state high homologous temperature deformation." *Mechanics of Materials* 140 (2020): 103224.
11. Xavier, Agnes Maneesha Dominic Merwin, Sridara Babu Neevatha, S. Swathi Selvi, **Balasivanandha Prabu Shanmugavel**, and K. A. Padmanabhan. "Wear and thermal stability of nano-TiB₂ modified TiCN-WC-Co-Cr₃C₂ cermet." *International Journal of Refractory Metals and Hard Materials* 86 (2020): 105130.
12. **Shanmugavel, Balasivanandha Prabu**, and Vijayakumar Mohan. "Wear Behavior of In-Situ Mg₂Si/Al-Si Composite." In *ASME International Mechanical Engineering Congress and Exposition*, vol. 59490, p. V012T10A026. American Society of Mechanical Engineers, 2019.
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15. Thangapandian, N., **S. Balasivanandha Prabu**, and K. A. Padmanabhan. "Effect of temperature on grain size in AA6063 aluminum alloy subjected to repetitive corrugation and straightening." *Acta Metallurgica Sinica (English Letters)* 32, no. 7 (2019): 835-844.

16. Raj, Jenix Rino John Xavier, and **Balasivanandha Prabu Shanmugavel**. "Thermal stability of ultrafine grained AA8090 Al–Li alloy processed by repetitive corrugation and straightening." *Journal of Materials Research and Technology* 8, no. 3 (2019): 3251-3260.
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