

## **DATA FOR ANNA UNIVERSITY DC MEMBER**

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**Area of Research** :

### **DETAILS OF INTERNATIONAL JOURNAL PUBLICATIONS**

#### **2019**

1. "Microstructure and mechanical properties of Al - 3Mg - 0.25 Sc alloy sheets produced by Cryorolling", S. Vigneshwaran, **K. Sivaprasad**, R. Narayanasamy K. Venkateswarlu, Materials Science and Engineering A, 740-741, 2019, 49-62. (<https://doi.org/10.1016/j.msea.2018.10.044>) ISSN: 0921-5093. (SCI)

#### **2018**

2. "Nucleation and growth of TiAl<sub>3</sub> intermetallic phase in diffusion bonded Ti/Al Metal Intermetallic Laminate", N. Thiyaneshwaran, **K.Sivaprasad**, B.Ravisankar, Scientific Reports (Nature Publishing Group) 8, Article Number: 16797 (2018), (DOI:10.1038/s41598-018-35247-0) ISSN 2045-2322 (online).

3. "Mechanical and Tribological Behavior of Multiwalled Carbon nanotubes Reinforced AA7075 Composites Prepared by Powder metallurgy and Hot Extrusion", M. Jagannatham, M.S. SenthilSaravanan, **K. Sivaprasad**, S.P. KumareshBabu, Journal of Materials Engineering and Performance, 27(11), 2018, 5675-5688. (<https://doi.org/10.1007/s11665-018-3681-3>) ISSN: 1059-9495 (SCIE)

4. "Formability and Fracture Behaviour of Cryorolled Al-3 Mg-0.25 Sc Alloy", S. Vigneshwaran, **K. Sivaprasad**, R. Narayanasamy K. Venkateswarlu, Materials Science and Engineering A, 721, 2018, 14-21. (DOI.org/10.1016/j.msea.2018.02.072) ISSN: 0921-5093. (SCI)

5. "Microstructure and Mechanical properties of Cu-7wt.% Al Alloy produced by equal channel angular pressing with different routes", M. Chinababu, KondaiahGudimetla, **K. Sivaprasad**, B. Ravisankar, Materials Today: Proceedings, 5 (2), Part 2, 2018, 8241-8248 (SCOPUS)

6. "Effect of Frequency and Duty Cycle on Growth, Structure and Corrosion Resistance of Micro Arc Oxidation Coating on RZ5 Magnesium Alloy", Ram Kumar V, Muthupandi V, **Sivaprasad K**, BalaSrinivasan P, Key Engineering Materials, 775, 2018, 291-297. (doi:10.4028/www.scientific.net/KEM.775.291) ISSN: 1662-9795 (SCOPUS)

7. "Characterization of Laser Welded Al<sub>0.5</sub>CoCrFeNi High Entropy Alloy", R.Sokkalingam, **K.Sivaprasad**, V Muthupandi, M.Duraiselvam, Key Engineering Materials, 775, 2018, 448-453. (doi:10.4028/www.scientific.net/KEM.775.448) ISSN: 1662-9795 (SCOPUS)

## **2017**

8. “Enhanced relative slip distance in gas tungsten arc welded Al<sub>0.5</sub>CoCrFeNi high entropy alloy”, Sokkalingam R, Sourav Mishra, SrinivasaRakeshCheethirala, V. Muthupandi, **K.Sivaprasad**, Metallurgical and Materials Transactions A, 48 (8), 2017, 3630-3634 (SCI) ISSN: 1073-5623
9. “Microstructural Characterization and Mechanical Properties of Diffusion Bonded Ti–Ni In Situ Metal Intermetallic Laminates”, N. Thiyaneshwaran, M. Ashfaq, R. Sidharth, G. Saikiran, **K. Sivaprasad**, B. Ravisankar, Transactions of the Indian Institute of Metals, 70 (3), 2017, 709-719. (SCIE) ISSN: 0972-2815
10. “Improving corrosion properties of magnesium AZ31 alloy GTA weld metal using micro arc oxidation process”, M. Siva Prasad, M. Ashfaq, N. Kishore Babu, A. Sreekanth, **K. Sivaprasad**, V. Muthupandi, International Journal of Minerals, Metallurgy and Materials, 24 (5) 2017, 566–573
11. “A Comparative Study on Microstructure and Mechanical Properties near Interface for Dissimilar Materials during Conventional V-Groove and Narrow Gap Welding”, R. Nivas, Santosh, Ravi, Gowtham Das, Swapam Kumar, Das, **K. Sivaprasad**, K Jagan, B. Mahato, Suranjith, PK Singh, Journal of Manufacturing Processes, 25, 2017, 274-283.
12. “Effect of Stress Relieve Annealing on Microstructure & Mechanical Properties of Welded Joints Between Low Alloy Carbon Steel and Stainless steel”, R. Nivas, G. Das, S.K. Das, B. Mahato, S. Kumar, **K. Sivaprasad**, P.K. Singh, and M. Ghosh, Metallurgical and Materials Transactions A 48, 2017, 230-245.(SCI) ISSN: 1073-5623 (Impact factor 1.627)
13. “Work hardening behavior of Ti/Al-based metal intermetallic laminates”, N. Thiyaneshwaran, **K. Sivaprasad**, B. Ravisankar, International Journal of Advanced Manufacturing Technology, 93 (1-4), 2017, 361-374. (DOI:10.1007/s00170-016-8863-2) (SCI) ISSN: 0268-3768
14. “On Plastic Deformation Behavior of Cryorolled AA8090 Alloy”, K.S.V.B.R. Krishna, M. Ashfaq, SarmaS.R. Akella, **K.Sivaprasad**, K. Venkateswarlu, Transactions of the Indian Institute of Metals, 70 (6), 2017, 1463-1475. (SCIE) ISSN: 0972-2815
15. “Mechanical Behavior and Void Coalescence Analysis of Cryorolled AA8090 Alloy”, K.S.V.B.R. Krishna, S. Vigneshwaran, K. Chandra Sekhar, Sarma S. R. Akella, **K. Sivaprasad**, R. Narayanasamy, K. Venkateswarlu, International Journal of Advanced Manufacturing Technology, 93 (1-4), 2017, 253-259. ISSN: 0268-3768 (DOI:10.1007/s00170-016-8863-2)

## **2016**

16. “A study on work hardening and effect of triaxiality on fracture behaviour of some cryorolled aluminium alloys”, S.Vigneshwaran, K.S.V.B.R. Krishna, K.ChandraSekhar, **K.Sivaprasad**, K. Venkateswarlu, R.Narayanasamy, Materials Science and Engineering A, 678, 2016. 165-177. (DOI:10.1016/j.msea.2016.09.104) ISSN: 0921-5093
17. “Effect of Composition on Tensile and Impact Properties of Tungsten-Based Heavy Alloy”, P.V.Satyanarayana, R.Sokkalingam, **K.Sivaprasad**, A.K.Mukherjee, Materials Science Forum, 863, 2016, 40-44. (doi:10.4028/www.scientific.net/MSF.863.40) ISSN:1662-9752.
18. “Analysis and Characterization of the Role of Ni Interlayer in the Friction Welding of Titanium and 304 Austenitic Stainless Steel”, C.H. Muralimohan, M. Ashfaq, RouholahAshiri, V. Muthupandi, **K. Sivaprasad**, Metallurgical and Materials Transactions A, 47, 2016, 347-359. (SCI) ISSN:1073-5623, (Impact factor 1.73) (DOI: 10.1007/s11661-015-3210-z)

## **2015**

19. “Mechanical Anisotropy and Microstructural Changes During Cryorolling of Al-Mg-Si Alloy”, N. Naga Krishna, M. Ashfaq, P. Susila, **K. Sivaprasad**, K. Venkateswarlu, Materials Characterization, 107, 2015, 302-308. (SCI) ISSN: 1044-5803 (Impact factor 1.845) (DOI:10.1016/j.matchar.2015.07.033)
20. “Effect of coarse grain matrix content on the mechanical behavior of trimodaled AA 6061-TiO<sub>2</sub> nanocomposite prepared by mechanical alloying”, S. Sivasankaran, **K. Sivaprasad**, R. Narayanasamy, M. Saravanan, International Journal of Advanced Manufacturing Technology, 78, 2015, 385-394. (SCIE) ISSN: 0268-3768 (Impact factor 1.779) (DOI:10.1007/s00170-014-6639-0)
21. “Effect of Cryorolling on the Mechanical Properties of AA5083 alloy and the Portevin-Le Chatelier Phenomenon”, K.S.V.B.R.Krishna, K.ChandraSekhar, R.Tejas, N.Naga Krishna, **K.Sivaprasad**, R.Narayanasamy, K.Venkateswarlu, Materials and Design, 67, 2015, 107-117. (SCIE) ISSN: 0261-3069 (Impact factor 3.171)
22. “Microstructural observation, consolidation and mechanical behavior of AA 6061 nanocomposites reinforced by g-Al<sub>2</sub>O<sub>3</sub> nanoparticles”, D. Jeyasimman, **K. Sivaprasad**, S. Sivasankaran, R. Ponalagusamy, R. Narayanasamy, VijayakumarIyer, Advanced Powder Technology, 26(1) 2015, 139-148. (SCIE) ISSN:0921-8831 (Impact factor 1.642)