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Titanium, corrosion, coatings, surface modification

Publications (International)- Last Five Years (2016-2020)

- 1. Balakrishnan Munirathinam, R. Narayanan, Lakshman Neelakantan, Electrochemical and semiconducting properties of thin passive film formed on titanium in chloride medium at various pH conditions, Thin Solid Films, Volume 598, 2016, Pages 260-270.
- 2. Swain, Subhasmita & Rautray, Tapash & Narayanan, R.. (2016). Sr, Mg, and Co Substituted Hydroxyapatite Coating on TiO2 Nanotubes Formed by Electrochemical Methods. Advanced Science Letters. 22. 482-487.
- 3. Nair, Saurabh & Dutta, Ayushman & R, Narayanan & Abimannan, Giridharan. (2019). Investigation on EDM machining of Ti6Al4V with negative polarity brass electrode. Materials and Manufacturing Processes. 34. 1-8.
- 4. Balakrishnan Munirathinam, Nitesh R. Jaladurgam, J. Magesh, Ramaswamy Narayanan, Johannes M.C. Mol, Lakshman Neelakantan, Improved corrosion protection of titanium implant material by crystallographic texturing of Sr doped calcium phosphate electrodeposits, Thin Solid Films, Volume 675, 2019, Pages 115-121.
- 5. Narayanan, R., Seshadri, S.K. Structure and Corrosion of High Voltage Anodic Oxide Coatings on Ti6Al4V Biomaterial. Trans Indian Inst Met 71, 2275–2283 (2018).
- 6. Sivaprakash, V., Narayanan, R. Anodic Synthesis of TiO2 Nanotubes Influence of Water Content and the Analysis of the Nano-Mechanical Application. J Bio Tribo Corros 6, 105 (2020).
- 7. Sivaprakash, V. & Narayanan, R.. (2020). Synthesis of TiO2 nanotubes via electrochemical anodization with different water content. Materials Today: Proceedings.
- 8. Sivaprakash Vetrivel, R. Narayanan, Experimental investigation on corrosion behavior of rolled AA6061, Materials Today: Proceedings, Volume 27, Part 1,2020, Pages 480-485.

- 9. Yakkala, B., Narayanan, R., & Sreejith. (2018). Computational density functional theory (dft) approach on smart catalysts utilized in fuel cell technology. The IIOAB journal, 9, 14–17.
- 10. Palani, Kumaran & Mohanamurugan, S m & Shankar, P. & Narayanan, R.. (2017). Investigation of urea decomposition and uniform concentration of urea water solution in SCR system for diesel engine exhaust using CFD. Rasayan Journal of Chemistry. 10. 621-629.
- 11. Vijayaram, Dr Thoguluva. (2016). R. Kasilingam, R.Narayanan and T.R.Vijayram, A Review on Aluminium Matrix Hybrid Composites by Semisolid Processing and its Process Parameters, International Journal of Engineering and Techniques Volume 2 Issue 5, Sep Oct 2016, ISSN: 2395-1303, page 116 124.
- 12. Palani, Kumaran & Mohanamurugan, S m & Shankar, P. & Vijayanand, P. & Narayanan, R.. (2016). Wash coating of ceramic honeycomb with Ce-Al-Mn mixed oxides for no catalytic reduction in diesel engines. 11. 11112-11116.