

LIST OF PUBLICATIONS

1. **Radhika, R.**, Kumar, N., Pandian, R., Dash, S., Ravindran, T.R., Arivuoli, D. and Tyagi A.K. “Tribological properties and deformation mechanism of TiAlN coating sliding with various counterbodies”, *Tribology International*, Vol. 66, pp.143-148, 2013.
2. Sankaran, K.J., Kumar, N., Kurian, J., **Radhika, R.**, Chen, H.C., Dash, S. Tyagi, A.K., Lee, C.Y., Tai, N.H. and Lin, I.N. “Improvement in tribological properties by modification of grain boundary and microstructure of ultrananocrystalline diamond films”, *ACS Applied Materials & Interfaces*, Vol. 5, pp. 3614-3624, 2013.
3. Kumar, N., **Radhika, R.**, Kozakov, A.T., Sankaran, K.J., Dash, S., Tyagi, A.K., Tai, N.H. and Lin, I.N. “Humidity dependent friction mechanism in ultrananocrystalline diamond film”, *Journal of Physics D: Applied Physics*, Vol. 46, pp. 275501-275509, 2013.
4. **Radhika, R.**, Kumar, N., Dash, S., Arivuoli, D. and Tyagi A.K. “Wear mechanism of CrN/NbN superlattice coating sliding against various counterbodies”, *International Journal of Refractory Metals and Hard Materials*, Vol. 41, pp. 547-552, 2013.
5. **Radhika, R.**, Kumar, N., Sankaran, K.J., Dumpala, R., Dash, S., Rao, M.S.R., Arivuoli, D., Tyagi, A.K., Tai, N.H. and Lin, I.N. “Extremely high wear resistance and ultra-low friction behavior of oxygen plasma treated nanocrystalline diamond nanowire films”, *Journal of Physics D: Applied Physics*, Vol. 46, pp. 425304-425313, 2013.
6. **Radhika, R.** and Arivuoli, D. “Studies on mechanical properties of titanium aluminium nitride coatings”, *Indian Journal of Physics*, Vol. 87, pp. 1199-1206, 2013.

Paper accepted in the International/ National conferences

1. **Radhika, R.**, Geetha, D., and Arivuoli, D. “Nanomechanical studies of epitaxial GaN/InGaN hetero-structures”, 7th International conference on advanced materials ROCAM, p. 156, 28th – 31st August, Brasov, Romania, 2012.

2. **Radhika, R.** and Arivuoli, D. “Nanoindentation analysis of DLC/Si hard coatings”, 7th International conference on advanced materials ROCAM, p. 159, 28th – 31st August, Brasov, Romania, 2012.
3. **Radhika, R.**, Kumar, N., Dash, S., Arivuoli, D. and Tyagi A.K. “Surface chemistry and friction behavior of ultra- nanocrystalline diamond film”, Confernce on friction and energy dissipation in man-made and biological systems, November 4th –8th, Trieste, Italy, 2013.