

Symposium on Materials Science and Engineering

Chair: Filomena Viana and Manuel Vieira

Location: B016

Time for oral presentation: 10 min + 5 min discussion

Time for poster presentation: 5 min + 5 min discussion

Session I (27th.June, 10:30h-13:00h) | Moderated by Omid Emadina

Invited Speaker: Ricardo Alexandre - D+i manager at TEandM - Technology, Engineering and Materials

- Inês Pereira, Gorka Alonso, Vítor Anjos, Luís Filipe Malheiros and Ramón Suarez: Relation between the damping capacity and tensile strength of alloyed nodular cast irons for braking system components. #6
- Tânia Azevedo, António Pires, Delfim Soares and Carlos Silva Ribeiro: Thermal Analysis study of AlSi7Mg alloys with different Al5Ti1B additions. #105
- Ihsan Çaha, Alexandra Alves, Caterina Chirico, Ana Pinto, Luis Rocha, Sophia Tsipas, Carlos Grandini, Elena Gordo and Fatih Toptan: Corrosion and tribocorrosion behavior of Ti-Nb based alloys. #272
- Marcionilo Silva Jr, Sónia Simões, Filomena Viana, Teresa Vieira, Manuel Vieira and Sofia Ramos: Characterization of reactive multilayers deposited by magnetron sputtering onto Al₂O₃. #46
- Bruno M.C. Oliveira, A. P. Piedade, P. J. Ferreira and M. F. Vieira: Electron Microscopy Techniques for Thin Film Analysis. #112
- Clarissa Melo, Anibal Guedes, Carlos Tavares, Fatih Toptan and Sónia Simões: Diffusion brazing Ti6Al4V to Ti-B₄C composite using different Ti-based fillers. #65

Session II (27th.June, 14:30h-15:45h) | Moderated by Omid Emadina

- Puria Esfandiari, João Silva, Paulo Novo and António Torres Marques: Pultrusion and Heated Compression Moulding of Continuous Fiber Thermoplastic Pre-Impregnated Materials. #5
- Pedro Jorge Machado: Tetragonal Ferroelectric Phase of GdMnO₃ Epitaxial Thin Film Grown onto SrTiO₃. #333
- Íris Carneiro, Filomena Viana, Manuel F. Vieira, José V. Fernandes and Sónia Simões: Understanding the strengthening effect of carbon nanotubes in nickel matrix nanocomposites. #66
- Luís Sousa, Liudmila Basílio, Alexandra Alves, Sónia Simões and Fatih Toptan: Tribocorrosion behavior of bio-functionalized Ti-Al₂O₃ composites. #83
- Ana Costa, Alexandra Alves, Sara Gemini-Piperni, Natália Costa, Raquel Checca, Luís Rocha, Ana Pinto, André Rossi, Ana Ribeiro and Fatih Toptan: Biological and tribo-electrochemical characterization of TiO₂ bioactive surfaces doped with Sr. #64

Poster Session (27th.June, 16:00h-17:00h)

- Raimundo Silva, Luna Viana, Filomena Viana and Manuel Vieira: Biomaterial as an abrasive substitute for Sandpapers. #53
- Márcio Silva Rabbi, Filomena Viana and Manuel Vieira: Additive Manufacturing Technology – Review and Challenges. #92
- Beatriz Vasconcelos, João Carlos Oliveira and Carlos Fonseca: A novel surface activation method of hydrogenated nitrile butadiene rubber for electroless plating. #302
- Mariana Gomes, Rui Vilarinho, Rui Pinho, Abílio Almeida, Paula Vilarinho and Joaquim Agostinho Moreira: Piezoelectric Response of K_{0.5}Na_{0.5}NbO₃ Designed by Sintering Engineering. # 325