

LISTA DE PUBLICAȚII

Lucrări publicate in reviste internaționale (ISI):

1. **M. Buciumeanu**, A. Araujo, O. Carvalho, G. Miranda, J.C.M. Souza, F.S. Silva, B. Henriques, Study of the tribocorrosion behaviour of Ti6Al4V – HA biocomposites, *Tribology International* 107 (2017) 77-84 (Factor de impact: **2,259**).
2. M. Sampaio, **M. Buciumeanu**, E. Askari, P. Flores, J.C.M. Souza, J.R. Gomes, F.S. Silva, B. Henriques, Effects of poly-ether-ether ketone (PEEK) veneer thickness on the reciprocating friction and wear behavior of PEEK/Ti6Al4V structures in artificial saliva, *Wear* 368–369 (2016) 84-91 (Factor de impact: **2,323**).
3. J.C.M. Souza, A. C. Bentes, K.Reis, S. Gavinha, **M. Buciumeanu**, B. Henriques, F.S. Silva, J.R. Gomes, Abrasive and sliding wear of resin composites for dental restorations, *Tribology International* 102 (2016) 154-160 (Factor de impact: **2,259**).
4. R.L.P. Santos, **M. Buciumeanu**, F.S. Silva, J.C.M. Souza, R.M. Nascimento, F.V. Motta, O. Carvalho, B. Henriques, Tribological behaviour of glass-ceramics reinforced by Ytria Stabilized Zirconia, *Tribology International* 102 (2016) 361-370 (Factor de impact: **2,259**).
5. G. Miranda, A. Araújo, F. Bartolomeu, **M. Buciumeanu**, O. Carvalho, J.C.M. Souza, F.S. Silva, B. Henriques, Design of Ti6Al4V-HA composites produced by hot pressing for biomedical applications, *Materials & Design* 108 (2016) 488-493 (Factor de impact: **3,997**).
6. R.L.P. Santos, **M. Buciumeanu**, F.S. Silva, J.C.M. Souza, R.M. Nascimento, F.V. Motta, B. Henriques, Tribological behavior of zirconia-reinforced glass–ceramic composites in artificial saliva, *Tribology International* 103 (2016) 379-387 (Factor de impact: **2,259**).
7. O. Carvalho, **M. Buciumeanu**, S. Madeira, D. Soares, F.S. Silva, G. Miranda, Mechanisms governing the mechanical behavior of an AlSi–CNTs–SiCp hybrid composite, *Composites Part B: Engineering* 90 (2016) 443-449 (Factor de impact: **3,850**).
8. O. Carvalho, **M. Buciumeanu**, G. Miranda, S. Madeira, F.S. Silva, Development of a method to produce FGMs by controlling the reinforcement distribution, *Materials & Design* 92 (2016) 233-239 (Factor de impact: **3,997**).
9. Miguel Sampaio, **Mihaela Buciumeanu**, Bruno Henriques, Filipe S. Silva, Júlio C.M. Souza, José R. Gomes, Tribocorrosion behavior of veneering biomedical PEEK to Ti6Al4V structures, *Journal of the Mechanical Behavior of Biomedical Materials* 54 (2016) 123-130 (Factor de impact: **2,876**).
10. O. Carvalho, **M. Buciumeanu**, S. Madeira, G. Miranda, F.S. Silva, Interface analysis on an eutectic AlSi alloy reinforced with Ni coated MWCNT, *Composites Part B: Engineering* 93 (2016) 229-235 (Factor de impact: **3,850**).
11. O. Carvalho, G. Miranda, M. Buciumeanu, M. Gasik, F.S. Silva, S. Madeira, High temperature damping behavior and dynamic Young's modulus of AlSi–CNT–SiCp hybrid composite, *Composite Structures* 141 (2016) 155-162 (Factor de impact: **3,853**).
12. Sampaio, M., **Buciumeanu, M.**, Henriques, B., Silva, F.S., Souza, J.C.M., Gomes, J.R. Comparison between PEEK and Ti6Al4V concerning micro-scale abrasion wear on dental applications *Journal of the Mechanical Behavior of Biomedical Materials* 60 (2016) 212-219 (Factor de impact: **2,876**).

13. **Buciumeanu, M.**, Bagheri, A., Souza, J.C.M., Silva, F.S., Henriques, B. Tribocorrosion behavior of hot pressed CoCrMo alloys in artificial saliva, *Tribology International* 97, (2016) 423-430 (Factor de impact: **2,259**).
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16. G Miranda, **M Buciumeanu**, S Madeira, O Carvalho, D Soares, FS Silva, Hybrid composites–metallic and ceramic reinforcements influence on mechanical and wear behavior, *Composites Part B: Engineering* 74 (2015) 153–165 (Factor de impact: **3,850**).
17. O. Carvalho, **M. Buciumeanu**, S. Madeira, D. Soares, F.S. Silva, G. Miranda, Dry sliding wear behaviour of AlSi-CNTs-SiCp hybrid composites, *Tribology International* 90 (2015) 148-156 (Factor de impact: **2,259**).
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23. Z Doni, **M Buciumeanu**, L Palaghian, Topographic and electrochemical Ti6Al4V alloy surface characterization in dry and wet reciprocating sliding, *Tribology in Industry* 35 (3), 217-224, 2013.
24. Z Doni, **M Buciumeanu**, L Palaghian, A Simplified Method for Wear Loss Prediction in Corrosive Environment, *Applied Mechanics and Materials* 436, 121-126, 2014.
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31. **M. Buciumeanu**, I. Crudu, L. Palaghian, A. S. Miranda, F. S. Silva, Influence of an additional elastic stress on dry wear behaviour in reciprocating tests, *Tribology International* 42 (2009) 1101-1107 (Factor de impact: **2,259**).
32. **M. Buciumeanu**, I. Crudu, L. Palaghian, A. S. Miranda, F. S. Silva, Influence of wear damage on the fretting fatigue life prediction of an Al7175 alloy, *International Journal of Fatigue* 31 (2009) 1278–1285 (Factor de impact: **2,162**).
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2. G Miranda, **M Buciumeanu**, O Carvalho, S. Madeira, D Soares, FS Silva, A study on wear behavior of metal-reinforced, ceramic-reinforced and hybrid aluminum composites, Conference: *Materiais 2015 - VII International Materials Symposium*, Porto, Portugal, 21-23 June 2015.
3. Z. Doni, A. M. Ribeiro, F. Toptan, A. C. Alves, J. R. Gomes, A. Ramalho, **M. Buciumeanu**, L. Palaghian, F. S. Silva, Corrosion and tribocorrosion behaviour of hot pressed CoCrMo-Al₂O₃ biocomposites, Conference of Sociedade portuguesa de Materiais, 25-27 March, Coimbra, Portugal, 2013.
4. **Buciumeanu M.**, Palaghian L., Miranda A., Silva F.S.: Some consideration on the modification of the fretting contact. In: *Proceedings of 11-th International Conference Tribology*, Iasi 4-6 Nov, 2010, pag. 1.-9-1.1, ISSN 1843-6501.
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9. **M. Buciumeanu**, A.S. Miranda, F.S. Silva, "Wear behaviour of the Al7175 alloy under different bulk stress states", 10th International Conference on Tribology, November 8-10, 2007, Bucharest, Romania.
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11. **M. Buciumeanu**, A.S. Miranda, F.S. Silva, "Influence of wear properties on fretting fatigue life of a Ck45 alloy and the Al7175 alloy", 13th Conference of Sociedade portuguesa de Materiais, 1-4 April, Porto; Portugal, 2007.
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4. C. Gheorghies, **M. Buciumeanu**, D. Scarpete, L. Gheorghies, D. Bold, A test for rapid tribological characterization of bearing steels, In: The Annals of University "Dunarea de Jos" of Galati, Fascicle IX Metallurgy and Materials Science, vol.1, 2012, pag. 25-29, ISSN 1453-083X
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13. Gheorghe D., Diaconu N., Tarau I., Panțuru D., Iliuta V., Barâu N., **Buciumeanu M.**, Instalatie pentru controlul suprafetelor sferice interioare (Control Equipment for Internal Spherical Surfaces). In: TEHNOMUS XII. Tehnologii si produse noi în constructia de masini -Conf. Stiintifica cu participare internationala, Ed/Univ.Suceava, 2003 (in Romanian).
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