



**Research and Development Unit in
Mechanical and Industrial Engineering**

Manufacturing, Technology & Automation – MTA

Publications List

(2008 to 2014)

Publications in peer reviewed journals**2008**

1. Miranda R.M., Lopes G., Quintino L., Rodrigues J.P., Williams S., Rapid prototyping with high power fiber lasers (2008) *Materials and Design*, 29 (10), pp. 2072-2075. Included in Top 25 Science Direct. SCOPUS WOS
2. Alegria J., Miranda R.M., De Salazar J.M.G., Fernandes A.A., Modelling of voids closure in the diffusion bonding process, (2008) *Materials Science Forum*, 587-588, pp. 731-735. SCOPUS WOS
3. Santos T., Vilaça P., Quintino L., Developments in NDT for Detecting Imperfections in Friction Stir Welds in Aluminium Alloys. *Welding in the World (ISSN 0043 – 2288)*, 52(9/10), pp. 30-37, 2008. SCOPUS WOS
4. Miranda R.M., Quintino L., Costa A., Pina P., Rosa T., Catarino P., Rodrigues J.P., Analysis of different laser welding processes for joining hardmetals to steel, (2008) *Welding in the World*, 52 (7-8), pp. 42-51. SCOPUS WOS
5. Santos T.G., Silva B.S., Vilaça P., Quintino L., Sousa J.M.C., Data fusion in non destructive testing using fuzzy logic to evaluate friction stir welding, (2008) *Welding International*, 22 (12), pp. 826-833. SCOPUS WOS

2009

1. Correa M., Bielza C., Pamies-Teixeira J., Comparison of Bayesian networks and artificial neural networks for quality detection in a machining process (2009) *Expert Systems with Applications*, 36 (3 PART 2), pp. 7270-7279. SCOPUS WOS
2. Nascimento F., Santos T., Vilaça P., Miranda R.M., Quintino L., Microstructural modification and ductility enhancement of surfaces modified by FSP in aluminium alloys, (2009) *Materials Science and Engineering A*, 506 (1-2), pp. 16-22. SCOPUS WOS
3. Santos T., Vilaça P., Quintino L., Developments in NDT for detecting imperfections in friction stir welds in aluminium alloys (2009) *Rivista Italiana della Saldatura*, 61 (1), pp. 65-72. SCOPUS
4. Moreira P.M.G.P, Santos T., Tavares, S.M.O., et al., Mechanical and metallurgical characterization of friction stir welding joints of AA6061-T6 with AA6082-T6, *Materials & Design*, 30 N°1, pp180-187, 2009. SCOPUS WOS
5. Santos T., Vilaça P., Dos Santos, J., Quintino L., A new NDT system for micro imperfections detection: Application to FSW and FSpW, *Welding in the World*, Vol. 53, SPECIAL ISSUE, pp. 361-366, 2009. SCOPUS, WoS
6. Santos T., Vilaça P., Quintino L. Computational Tools For Modeling FSW and An Improved Tool for NDT, *Welding in the World*, Vol. 53, N.º 5/6, pp. R99-R108, 2009. SCOPUS, WoS
7. R. M. Miranda, A. Costa, L. Quintino, D. Yapp, D. Iordachescu, "Characterization of fiber laser welds in X100 pipeline steel", *Materials & Design*, 30, (2009), 2701-2707. doi:10.1016/j.matdes.2008.09.042 SCOPUS WOS
8. R.M. MIRANDA, R.J.C. SILVA, "Electron scanning microscopy analysis of fracture surfaces in laser welded samples of hardmetals", *Microscopy and Microanalysis*, 15 (3), (2009), 55-56. doi:10.1017/S1431927609990730 SCOPUS WOS

2010

1. Borges, B., Quintino L., Miranda R.M., Carr, P., Imperfections in laser cladding with powder and wire fillers, (2010) *International Journal of Advanced Manufacturing Technology*, 50 (1-4), pp. 175-183. SCOPUS WOS
9. Iordachescu D., Iordachescu, M. Georgescu B., Miranda R.M., Ruiz-Hervias J., Ocaña J.L., Technological windows for MIAB welding of tubes featuring original longitudinal magnetization system with peripheral solenoids (2010) *Journal of Materials Processing Technology*, 210 (6-7), pp. 951-960. SCOPUS WOS
10. Assuncao E., Quintino L., Miranda R. Comparative study of laser welding in tailor blanks for the automotive industry, (2010), *Int J Adv Manuf Tech*, 49, 123-131 SCOPUS WOS
11. Rosado L., Santos T. G., Piedade M., Ramos P., Vilaça P., Advanced technique for non-destructive testing of friction stir welding of metals, *Measurement*, 43(8), pp. 1021-1030, 2010 SCOPUS WOS
12. R. M. Miranda, L. Quintino, S. Williams, D. Yapp, "Welding with High Power Fiber Laser API5L-X100 Pipeline Steel", *Advanced Materials Forum V Vols. 636-637 (2010)*, 592-596. doi: 10.4028/www.scientific.net/MSF.636-637.59 SCOPUS
13. L. A. Pinto, L. Quintino, R. M. Miranda, P. Carr, "Laser welding of dissimilar aluminium alloys with filler materials", *Welding in the World*, 2010, 54 (11,12), R333-R341. SCOPUS WOS

2011

1. Santos T.G., Miranda R.M., Vilaça P., Electrical conductivity measurement to assess structural modifications in FSW joints in Aluminium alloys (2011) *Annals of "Dunarea de Jos" University of Galati, Fascicle XII, Welding Equipment and Technology*, 22, pp. 25-29. SCOPUS
2. Santos T.G., Miranda R.M., Vilaça P., Teixeira J.P., Modification of electrical conductivity by friction stir processing of aluminum alloys (2011) *International Journal of Advanced Manufacturing Technology*, 57 (5-8), pp. 511-519. SCOPUS WOS
3. Santos T.G., Miranda R.M., Vilaça P., Teixeira J.P., dos Santos, J., Microstructural mapping of friction stir welded AA 7075-T6 and AlMgSc alloys using electrical conductivity (2011) *Science and Technology of Welding and Joining*, 16 (7), pp. 630-635. SCOPUS WOS
4. Santos T.G., Vilaça P., Quintino L., Dos Santos, J., Miranda R.M., Application of Eddy Current techniques to inspect friction spot welds in aluminium alloy AA2024 and a composite material (2011) *Welding in the World*, 55 (9-10), pp. 12-18. SCOPUS WOS
5. Craciunescu C.M., Miranda R.M., Silva R.J.C., Assunção E., Braz Fernandes F.M., Laser beam interaction with NiMnGa ferromagnetic shape memory alloys, (2011) *Optics and Lasers in Engineering*, 49 (11), pp. 1289-1293. SCOPUS, WoS
6. Ciobanu R., Miranda R.M., Dontu O., Besnea D., Apostolescu T.C., Robotized laser system for 2D-6D cutting of stainless steels, (2011) *Romanian Review Precision Mechanics, Optics and Mechatronics*, (39), pp. 17-20. SCOPUS
7. Quintino L., Miranda R.M., Williams S., Kong C.J., Gas shielding in fiber laser welding of high strength pipeline steel (2011) *Science and Technology of Welding and Joining*, 16 (5), pp. 399-404. SCOPUS WOS
8. Vieira L.A., Fernandes F.M.B., Miranda R.M., Silva R.J.C., Quintino L., Cuesta, A., Ocaña J.L., Mechanical behaviour of Nd:YAG laser welded superelastic NiTi (2011) *Materials Science and Engineering A*, 528 (16-17), pp. 5560-5565. SCOPUS WOS
9. Gandra J., Miranda R.M., Vilaça P., Effect of overlapping direction in multipass friction stir processing, (2011) *Materials Science and Engineering A*, 528 (16-17), pp. 5592-5599. SCOPUS WOS
10. Torbati A.M., Miranda R.M., Quintino L., Williams S., Yapp, D., Optimization procedures for GMAW of bimetal pipes (2011) *Journal of Materials Processing Technology*, 211 (6), pp. 1112-1116. SCOPUS, WoS
11. Quintino L., Fernandes I., Miranda R.M., International harmonization of training and qualification in the manufacturing industry (2011) *Journal of European Industrial Training*, 35 (5), pp. 502-514. SCOPUS
12. Silva L., Barros P., Miranda R.M., Coutinho L., Non-destructive inspection of ITER PF jacket welds, (2011) *Welding in the World*, 55 (5-6). SCOPUS, WoS
13. Silva P., Miranda R.M., Quintino L., Proposed methodology to evaluate welding defects during maintenance of equipments under pressure [Proposta de uma metodologia para avaliação de defeitos de soldadura na manutenção de equipamentos sob pressão], (2011) *Soldagem e Inspecao*, 16 (2), pp. 177-188. SCOPUS, WoS
14. Torbati A.M., Miranda R.M., Quintino L., Williams S., Welding bimetal pipes in duplex stainless steel, (2011) *International Journal of Advanced Manufacturing Technology*, 53 (9-12), pp. 1039-1047. SCOPUS WOS
15. Santos T.G., Vilaça P., Miranda R.M., Electrical conductivity field analysis for evaluation of FSW joints in AA6013 and AA7075 alloys (2011) *Journal of Materials Processing Technology*, 211 (2), pp. 174-180. SCOPUS WOS
16. Iordachescu, D., Georgescu, B., Iordachescu, M., Lopez, R., Miranda R.M., García-Beltrán, A., Characteristics of miab welding process and joints, (2011) *Welding in the World*, 55 (1-2), pp. 25-31. SCOPUS, WoS
17. J. Gandra, R.M. Miranda, P. Vilaça, "Effect of overlapping direction in multipass friction stir processing", *Materials Science and Engineering A*, (2011), 528, 16-17, 5592-5599. doi:10.1016/j.msea.2011.03.105 SCOPUS WOS
18. J. Gandra, R. Miranda, P. Vilaça, A. Velhinho, J. Pamies Teixeira, "Producing functionally graded materials by friction stir processing", *Journal of Materials Processing Technology*, 2011, 211, 11, 1659-1668. doi:10.1016/j.jmatprotec.2011.04.016 SCOPUS WOS
19. R. Ciobanu, R. M. Miranda, O. Dontu, D. Besnea, Tudor Catalin Apostolescu "Robotized laser system for 2D-6D cutting of stainless steels, *Romanian Review Precision Mechanics, Optics and Mechatronics*, 2011, 39, 17-20 SCOPUS

2012

1. Matos F., L., Santos T.G., Valtchev S., Pamies Teixeira J., Miranda R.M., New method employing the electrical impedance for monitoring mechanical damage evolution in glassreinforced: Applications to riveted joints (2012) *Materials and Design*, 42, pp. 25-31. SCOPUS
2. Rosado L.S., Santos T.G., Ramos P.M., Vilaça P., Piedade M., A differential planar eddy currents probe: Fundamentals, modeling and experimental evaluation (2012) *NDT and E International*, 51, pp. 85-93. SCOPUS WOS
3. Avarvarei I., Dontu O., Ocana J.L., Gheorghe G., Miranda R.M., Ciobanu R., Besnea D., Influence of surface finishing on the level of the laser absorption in materials processing, (2012) *Romanian Review Precision Mechanics, Optics and Mechatronics*, (41), pp. 179-185. SCOPUS
4. Gomes J.F., Albuquerque P.C., Miranda R.M., Santos T.G., Vieira M.T., Comparison of deposited surface area of airborne ultrafine particles generated from two welding processes, (2012) *Inhalation Toxicology*, 24 (11), pp. 774-781. SCOPUS, WoS
5. Gandra J., Miranda R.M., Vilaça P., Performance analysis of friction surfacing (2012) *Journal of Materials Processing Technology*, 212 (8), pp. 1676-1686. SCOPUS WOS
6. Quintino L., Fernandes, I., Miranda R.M., Impact of the qualification of personnel in the manufacturing industry, (2012) *Welding in the World*, 56 (7-8), pp. 130-137. SCOPUS, WoS
7. Pouquet J., Miranda R.M., Quintino L., Williams S., Dissimilar laser welding of NiTi to stainless steel, (2012) *International Journal of Advanced Manufacturing Technology*, 61 (1-4), pp. 205-212. SCOPUS WOS
8. Silva L., Barros P., Miranda R.M., Coutinho L., Non-destruction inspection of ITER PF jacket welds, (2012) *Rivista Italiana della Saldatura*, 64 (3), pp. 379-386. SCOPUS
9. Almeida R.A.B., Vaz D.C., Urgueira A.P.V., Janeiro Borges, A.R., Using ring strain sensors to measure dynamic forces in wind-tunnel testing (2012) *Sensors and Actuators, A: Physical*, 185, pp. 44-52. SCOPUS, WoS
10. Assuncao E., Williams S., Yapp D. Interaction time and beam diameter effects on the conduction mode limit , *Optics And Lasers In Eng* (2012) 50, 823-828, SCOPUS WOS
11. Assuncao E., Ganguly S., Yapp D., et al., Characterisation of residual stress state in laser welded low carbon mild steel plates produced in keyhole and conduction mode , *Sc Tech Weld & Join* (2011), 16, 239-243 SCOPUS WOS
12. J.F. Gomes; P.C. Albuquerque; R.M. Miranda; M.T. Vieira, "Determination of airborne nanoparticles from welding operations", *Journal of Toxicology and Environmental Health, Part A*, 75:747-755, 2012. DOI: 10.1080/15287394.2012.688489 SCOPUS WOS
13. Luisa Quintino, Rosa M. Miranda, "Welding Shape Memory Alloys with Nd/YAG lasers", *Soldagem e Inspeção*, 17, 3, (2012).210-217 SCOPUS WOS

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14. Dos Santos F.P.A., Cismaşiu C., Pamies Teixeira J., Semi-active vibration control device based on superelastic NiTi wires, (2013) *Structural Control and Health monitoring*, 20 (6), pp. 890-902 SCOPUS, WoS
15. Gandra J., Vigarinho P., Pereira D., Miranda R.M., Velhinho A., Vilaça P., Wear characterization of functionally graded Al-SiC composite coatings produced by Friction Surfacing, (2013) *Materials and Design*, 52, pp. 373-383. SCOPUS
16. Quintino L., Liu, L., Miranda R.M., Silva R.J.C., Hu, A., Zhou, Y., Cutting NiTi with femtosecond laser (2013) *Advances in Materials Science and Engineering*, 2013, art. no. 198434. SCOPUS, WoS
17. Quintino L., Liu, L., Hu A., Miranda R.M., Zhou Y., Fracture analysis of Ag nanobrazing of NiTi to Ti alloy [Análise da factura da brasagem de NiTi a liga de NiTi utilizando nanoparticulas de prata, (2013) *Soldagem e Inspecao*, 18 (3), pp. 281-286. SCOPUS, WoS
18. T. G. Santos, J. Faria, P. Vilaça, R. M. Miranda, "Application of Eddy Currents in Processed Materials Structural Evaluation", *Materials Science Forum*, 730-732 (2013), 715-720 SCOPUS
19. J. Gandra, R. M. Miranda, P. Vilaça, "Surface Improvement by Overlapping in Multipass FSP", *Materials Science Forum*, Vols. 730-732 (2013), 865-870. Doi:10.4028/www.scientific.net/MSF.730-732.865 SCOPUS
20. G. Vidal, R. M. Miranda, L. Quintino, S. Williams, "Overlap conduction laser welding of aluminum to steel", *International Journal of Advanced Manufacturing Technologies*, Volume 67, Issue 1 (2013), Page 647-654. Doi: 10.1007/s00170-012-4512-6 SCOPUS WOS

21. J. Gomes, C. Guerreiro, D. Lavrador, P.A. Carvalho, R.M. Miranda, "TEM analysis as a tool for toxicological assessment of occupational exposure to airborne nanoparticles from welding", *Microsc. Microanal.* 19 (Suppl 4), 153-154, 2013, doi:10.1017/S1431927613001384 SCOPUS WOS
22. Gandra J., Pereira, D., Miranda R.M., Silva R.J.C., Vilaça P., Deposition of AA6082-T6 over AA2024-T3 by friction surfacing - Mechanical and wear characterization (2013) *Surface and Coatings Technology*, 223, pp. 32-40. SCOPUS WOS
23. Miranda R.M., Santos T.G., Gandra J., Lopes, N., Silva R.J.C., Reinforcement strategies for producing functionally graded materials by friction stir processing in aluminium alloys (2013) *Journal of Materials Processing Technology*, 213 (9), pp. 1609-1615. SCOPUS, WoS
24. Santos T.G., Fernandes F.B., Bernardo G., Miranda R.M., Analyzing mechanical properties and nondestructive characteristics of brazed joints of NiTi shape memory alloys to carbon steel rods (2013) *International Journal of Advanced Manufacturing Technology*, 66 (5-8), pp. 787-793. SCOPUS, WoS
25. Rosado L. S., Gonzalez J.C., Santos T. G., Ramos P.M., Piedade M., Geometric optimization of a differential planar eddy currents probe for non-destructive testing, *Sensors and Actuators A: Physical*, 197, pp.96-105, (2013). SCOPUS WOS
26. Quintino L., Liu, L., Miranda R.M., Silva R.J.C., Hu A., Zhou Y., Bonding NiTi to glass with femtosecond laser pulses (2013) *Materials Letters*, 98, pp. 142-145. SCOPUS, WoS
27. Fernandes F.M.B., Mahesh K.K., Craciunescu C.M., Oliveira J.P., Schell N., Miranda R.M., Quintino L., Ocaña J.L., In situ structural characterization of laser welded NiTi shape memory alloys, (2013) *Materials Science Forum*, 738-739, pp. 338-343. SCOPUS, WoS
28. Ruivo C.R., Ferreira P.M., Vaz D.C., On the error of calculation of heat gains through walls by methods using constant decrement factor and time lag values (2013) *Energy and Buildings*, 60, pp. 252-261. SCOPUS, WoS
29. Ruivo C.R., Ferreira P.M., Vaz D.C., Prediction of thermal load temperature difference values for the external envelope of rooms with setback and setup thermostats (2013) *Applied Thermal Engineering*, 51 (1-2), pp. 980-987. SCOPUS WOS

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1. Telmo G. Santos, N. Lopes, Miguel Machado, Pedro Vilaça, R. M. Miranda, Surface Reinforcement of AA5083-H111 by Friction Stir Processing Assisted by Electrical Current, Accepted in *J. Materials Processing Technology*, 03-10-2014. SCOPUS, WoS
2. Luís S. Rosado, Telmo G. Santos, Pedro M. Ramos, Pedro Vilaça, Moisés Piedade, A new dual driver planar eddy current probe with dynamically controlled induction pattern, Accepted in *NDT & E International*. (Ms. Ref. No.: NDTEINT-D-14-00179R1) SCOPUS, WoS
3. Gomes, J., Miranda, R., Santos, T., Carvalho, P., Emission of nanoparticles during friction stir welding (FSW) of aluminium alloys, *Journal of Toxicology and Environmental Health-A*, (ISSN: 1528-7394), 77, pp. 924-930 (2014), DOI:10.1080/15287394.2014.911132, SCOPUS, WoS
4. R. M. Miranda, B. Tomás, T. G. Santos, N. Fernandes, Magnetic pulse welding on the cutting edge of industrial applications, *Soldagem & Inspeção*, 19(1), pp.069-081, 2014. DOI:http://dx.doi.org/10.1590/S0104-92242014000100009. SCOPUS, WoS
5. Telmo G. Santos, R. M. Miranda, Pedro Vilaça, Friction Stir Welding Assisted by Electrical Joule Effect, *Journal of Materials Processing Technology*, 214, pp. 2127-2133, 2014. DOI:http://dx.doi.org/10.1016/j.jmatprotec.2014.03.012 SCOPUS, WoS
6. João Pedro Gandra, Pedro Vilaça, Rosa M Miranda, Friction surfacing – a review, *Journal of Materials Processing Tech.* 214/5 (2014), 1062-1093. Incluído nos Science Direct TOP25 Hottest Articles. Doi: 10.1016/j.jmatprotec.2013.12.008 SCOPUS, WoS
7. C. Guerreiro, J. F. Gomes; P. Carvalho; T. J. G. Santos; R. M. Miranda; P. Albuquerque, Characterisation of airborne particles generated from MAG welding process, *Inhalation Toxicology*, 26(6), pp. 345-352, 2014. DOI: http://dx.doi.org/10.3109/08958378.2014.897400. SCOPUS, WoS
8. Telmo G. Santos, R. M. Miranda, Pedro Vilaça, "Friction stir welding assisted by electrical Joule effect", *Journal of Materials Processing Technology*, 214 (2014) 2127-2133. Doi: 10.1016/j.jmatprotec.2014.03.012 SCOPUS, WoS
9. Pedro Vilaca, Hhannu Hanninen, Tapio Saukkonen, Rosa Miranda "Influence of secondary flash formation on friction surfacing of HSS substrate with AISI 316 consumable rod", *Welding in the World* (2014) 58(5), pp 661-671. DOI 10.1007/s40194-014-0148-5 SCOPUS, WoS

10. Telmo G. Santo, R.M. Miranda, Carla C.C.R. de Carvalho, "A new NDT technique based on bacterial cells to detect micro surface defects", *NDT&E International* 63 (2014) 43–49, Incluído nos Science Direct TOP25 Hotest Articles. doi.org/10.1016/j.ndteint.2014.01.006 SCOPUS, WoS
11. D. Pereira, J. Gandra, J. Pamies-Teixeira, R. M. Miranda, P. Vilaça, "Wear behaviour of Steel Coatings Produced by Friction Surfacing", *Journal of Materials Processing Tech.* 214 (2014), 2858-2868 SCOPUS, WoS
12. Telmo G. Santos, Gonçalo Sorger, Pedro Vilaça, Rosa Miranda, A non conventional technique for evaluating welded joints based on the electrical conductivity, Proceedings of selected, peer reviewed papers from the 17th Conference of the European Scientific Association on Material Forming (ESAFORM 2014), 7-9/05/2014, Espoo, Finland. Publicado em: *Key Engineering Materials Vols. 611-612 (2014)* pp. 671-676. Edited by Trans Tech Publications, Switzerland. ISSN Print: 1013-9826, ISSN CD: 1662-9809, ISSN Web: 1662-9795. doi:10.4028/www.scientific.net/KEM.611-612.671. SCOPUS
13. Telmo G. Santos, Rosa Miranda, Pedro Vilaça, Friction stir welding assisted by electrical joule effect to overcome lack of penetration in aluminium alloys, Proceedings of selected, peer reviewed papers from the 17th Conference of the European Scientific Association on Material Forming (ESAFORM 2014), 7-9/05/2014, Espoo, Finland. Publicado em: *Key Engineering Materials Vols. 611-612 (2014)* pp. 763-772. Edited by Trans Tech Publications, Switzerland. ISSN Print: 1013-9826, ISSN CD: 1662-9809, ISSN Web: 1662-9795. doi:10.4028/www.scientific.net/KEM.611-612.763. SCOPUS
14. C. Guerreiro, J. F. Gomes, P. Carvalho, T. J. G. Santos, R. M. Miranda, and P. Albuquerque, Characterization of airborne particles generated from metal active gas welding process, *Inhalation Toxicology*, 2014; 26(6): 345–352. DOI: 10.3109/08958378.2014.897400 SCOPUS, WoS
15. Gomes, J.F.P., Miranda, R., Carvalho, P., Quintino, L., "The effect of metal transfer modes and shielding gas composition on the emission of ultrafine particles in MAG steel welding", *Soldagem e Inspeção*, vol. 19, Nº. 02, p.168-176, Abr/Jun 2014. Doi: 10.1519/0104-9224/SI1902.09 SCOPUS, WoS
16. Martinho A. and Vaz D.C., Modelling of a dual-mass flywheel: a case study using the novel linkage forces method, (2014) *International Journal of Precision Engineering and Manufacturing*, revised and re-submitted in September 2014. SCOPUS, WoS
17. Ruivo C. and Vaz D.C., Thermal performance evaluation of a wall: an accurate approach for full-featured excitations based on the method of Mackey-and-Wright, (2014) *Energy (ISSN 0360-5442)*, revised and re-submitted on September 29th, 2014. SCOPUS, WoS
18. Duarte Silva, J. Pamies Teixeira, Carla M. Machado, Methodology analysis for evaluation of drilling-induced damage in composites, *International Journal of Advanced Manufacturing Technology*, Volume 71, Issue 9-12 , pp 1919-1928, doi:10.1007/s00170-014-5616-y. SCOPUS, WoS

Books and book chapters of international circulation

2011

1. R. M. Miranda, L. Quintino, "Chapter 7- Laser Welding of Aluminium Alloys" In: *Aluminum Alloys: Preparation, Properties and Applications*, Editor: Erik L. Persson, 2011 Nova Science Publishers, Inc., ISBN 978-1-61122-311-8.
2. R. M. Miranda, F. M. Braz Fernandes, C. M. Craciunescu, L. Quintino L. Albery Vieira, "Shape memory alloys: existing and emerging applications", (2011) In: *Advances in Materials Science Research. Volume 6, Chapter 7*, Editor: Maryann C. Wythers, ed. Nova Science Publishers, Inc., ISBN: 978-1-61209-116-7.
3. Vilaça P., Santos T. G., *Non-Destructive Testing Techniques for Detecting Imperfections in Friction Stir Welds of Aluminium Alloys*, "Aluminium Alloys, Theory and Applications", ISBN: 978-953-307-244-9, edited by Tibor Kvackaj (INTECH). Part 2, Chapter 5, pp. 93-114, 2011. DOI: 10.5772/14743.

2012

1. L. Quintino, R. Miranda, U. Dilthey, D. Iordachescu, M. Banasik and S. Stano, "Laser Welding of Structural Aluminium", (2012) in: "Structural Connections for Lightweight Metallic Structures", *Advanced Structured Materials series, Volume 8, Chapter 2*, Editors: Pedro Moreira, Lucas da Silva, Paulo M. S. T. Castro, ed. Elsevier, ISBN 978-3-642-18187-0.

2013

1. João Gandra, Rosa M. Miranda, Vilaça P., "Production of FGMs by Friction Stir Processing", ed. LAP, Saarbrücken, Germany, 2012, ISBN 978-3-8473-4019-5

2. LT 15 – João Pedro Oliveira, F. M. Braz Fernandes Rosa M. Miranda, "Laser Welded NiTi" , ed. LAP, Saarbrücken, Germany, 2013, ISBN 978-3-659-31719-4.
3. Luís Mendes, Rosa M. Miranda, Santos T., "Production of Al based composites reinforced with embedded NiTi by FSW", ed. LAP, Saarbrücken, Germany, 2013, ISBN 978-3-659-36775-5.
4. R. M. Miranda, J. Gandra, P. Vilaça, "Chapter 1 - Surface modification by friction based processes", in Modern Surface Engineering Treatments, ed. By Mahmood Aliofkhaezai, Intech Publications, 2013, ISBN 978-953-51-1149-8.
5. Rosa Miranda, João Gandra, Vilaça P., Luisa Quintino, Santos T., "Surface modification by solid state processing", Woodhead Publishing, 2013, ISBN-13: 978-0857094681.
6. Luís Mendes, Rosa M. Miranda, Santos T., Production of Al based composites reinforced with embedded NiTi by FSW, LAP LAMBERT Academic Publishing (March 27, 2013), ISBN: 978-3659367755.
7. Vilaça P., Santos T. G., Luis Rosado, Rosa M. Miranda, Innovative Concept and Application of EC Probe For Inspection of Friction Stir Welds. 12th International Conference of the Slovenian Society for Non-Destructive Testing. ISBN 978-961-93537-0-7. pp. 347-356. Portorož, Slovenia, 4-6/09/2013.

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1. Rosa M. Miranda, "Surface modification by solid state processing", Woodhead Publishing, Cambridge, U.K., 2014, ISBN-13: 978-0857094681
2. Rosa M. Miranda, Joao Pedro Gandra, Pedro Vilaça, Luísa Quintino, Telmo G. Santos, Surface modification by solid state processing, ISBN 0 85709 468 8, edited by Chandos Publishing, Cambridge, UK 2014 (04-03-2014). (http://store.elsevier.com/Surface-Modification-by-Solid-State-Processing/Rosa-M_-Miranda/isbn-9780857094681/).
3. Diogo Pereira, Rosa M. Miranda "Friction surfacing of aluminium alloys", ed. LAP, Saarbrücken, Germany, 2014, ISBN 978-3-8465-9681-4
4. R. Miranda, "Chapter 1.19 - Joining Cemented Carbides" (2014). In V.K. Sarin (Editor-in-Chief) & D. Mari & L. Llanes (Vol.Eds.), Comprehensive Hard Materials (pp. 527–538). Elsevier. ISBN: 9780080965277 SCOPUS, WoS
5. Rosa M. Miranda, "Chapter 4 – Surface reinforcement in light alloys", in Surface modification by solid state processing, Woodhead Publishing, Cambridge, U.K., 2014, ISBN-13: 978-0857094681
6. Telmo Santos, "Chapter 5 – Characterization of FSP by electrical current" in Surface modification by solid state processing, Woodhead Publishing, Cambridge, U.K., 2014, ISBN-13: 978-0857094681

Papers in International Conference proceedings

2008

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