

LEONARDO ORAZI

Department of Sciences and Methods for Engineering
University of Modena and Reggio Emilia
Via Amendola 2
42122 Reggio Emilia
leonardo.orazi@unimore.it
tel: ++39 0522 522607
fax: ++39 0522 522609
skype: lorazi5029

CURRICULUM VITAE

Leonardo Orazi is currently Associate Professor in Manufacturing Engineering at the University of Modena and Reggio Emilia. He graduated in Mechanical Engineering at the University of Bologna in 1993. In 1998 He obtained the PhD degree in Mechanics of the Materials at the University of Pisa. In the following three years of post-doctoral positions at the University of Bologna he worked in the field of fracture mechanics and fatigue thresholds of metal alloys. In 2001 he became Research Associate in Manufacturing Engineering at the University of Modena and Reggio Emilia. Since 2004 his main field of research is laser based manufacturing, mainly ablation, surface laser treatments and laser micro manufacturing. In the last three years, he focused his attention in the use of ultrafast lasers for the surface nano texturing and the generation of Laser- Induced Periodic Surface Structures (LIPSS) for industrial applications.

MAIN RESEARCH PROJECT

PRIN 2006 - Mathematica Simulation of Laser Hardening process and Experimental validation - SIMEX

Role: participant

Duration: 12 months

H2020-ICT-30-2017 - Micro QD-LED Direct micro patterning - MILEDI

Role: Local Unit Coordinator

Duration: 42 months

Budget: 378125 €

Progetto: H2020-MSCARISE-2016 - Development of novel dental implants with advanced mechanical properties and improved nanostructured surface - NANOSURF

Role: Local Unit Coordinator

Duration: 48 months

Budget: 144000 €

PUBLICATIONS

[1]

M. Sorgato, D. Masato, G. Lucchetta, L. Orazi, Effect of different laser-induced periodic surface structures on polymer slip in PET injection moulding, *CIRP Annals*. (2018). doi: 10.1016/j.cirp.2018.04.102.

[2]

G. Rotella, L. Orazi, M. Alfano, S. Candamano, I. Gnilitzkiy, Innovative high-speed femtosecond laser nano-patterning for improved adhesive bonding of Ti6Al4V titanium alloy, *CIRP Journal of Manufacturing Science and Technology*. (2017). doi:10.1016/j.cirpj.2016.10.003.

[3]

L. Orazi, I. Gnilitzkiy, A.P. Serro, Laser Nanopatterning for Wettability Applications, *J. Micro Nano-Manuf.* 5 (2017) 021008-021008–8. doi:10.1115/1.4035956.

[4]

I. Gnilitzkiy, A. Rota, R. Ctvrtlik, A.P. Serro, A.P. Serro, E. Gualtieri, L. Orazi, Multifunctional Properties of High-speed Highly Uniform Femtosecond Laser Patterning on Stainless steel, in: *Conference on Lasers and Electro-Optics (2017)*, Paper ATu1C.5, Optical Society of America, 2017: p. ATu1C.5. doi:10.1364/CLEO_AT.2017.ATu1C.5.

[5]

I. Gnilitzkiy, T.J.-Y. Derrien, Y. Levy, N.M. Bulgakova, T. Mocek, L. Orazi, High-speed manufacturing of highly regular femtosecond laser-induced periodic surface structures: physical origin of regularity, *Scientific Reports*. 7 (2017) 8485. doi:10.1038/s41598-017-08788-z.

[6]

I. Gnilitzkiy, F. Rotundo, C. Martini, I. Pavlov, S. Ilday, E. Vovk, F.Ö. Ilday, L. Orazi, Nano patterning of AISI 316L stainless steel with Nonlinear Laser Lithography: Sliding under dry and oil-lubricated conditions, *Tribology International*. 99 (2016) 67–76. doi:10.1016/j.triboint.2016.03.011.

[7]

I. Gnilitzkiy, M. Pogorielov, D. Dobrota, R. Viter, L. Orazi, O. Mischenko, Cell and Tissue Response to Modified by Laser-induced Periodic Surface Structures Biocompatible Materials for Dental Implants, in: *Conference on Lasers and Electro-Optics (2016)*, Paper AW4O.6, Optical Society of America, 2016: p. AW4O.6. doi:10.1364/CLEO_AT.2016.AW4O.6.

[8]

I. Gnilitzkiy, L. Orazi, N. Bulgakova, V. Gruzdev, Highly Regular Nanostructuring of Si Surface by Ultrashort Laser Pulses, in: *Conference on Lasers and Electro-Optics (2016)*, Paper STh1Q.4, Optical Society of America, 2016: p. STh1Q.4. doi:10.1364/CLEO_SI.2016.STh1Q.4.

[9]

I. Gnilitzkiy, L. Orazi, N. Bulgakova, V. Gruzdev, Formation and Application of highly-regular LIPSS on Surface of Silicon Crystals, in: *Frontiers in Optics 2016 (2016)*, Paper JTh2A.113, Optical Society of America, 2016: p. JTh2A.113. doi:10.1364/FIO.2016.JTh2A.113.

[10]

I. Gnilitzkiy, S. Mamykin, M. Dusheyko, T. Borodinova, N. Maksimchuk, L. Orazi, Diffraction Gratings Prepared by HR-LIPSS for New Surface Plasmon-Polariton Photodetectors & Sensors, in: *Frontiers in Optics 2016 (2016)*, Paper JW4A.88, Optical Society of America, 2016: p. JW4A.88. doi:10.1364/FIO.2016.JW4A.88.

[11]

I. Gnilitzkiy, V. Gruzdev, N.M. Bulgakova, T. Mocek, L. Orazi, Mechanisms of high-regularity periodic structuring of silicon surface by sub-MHz repetition rate ultrashort laser pulses, *Appl. Phys. Lett.* 109 (2016) 143101. doi:10.1063/1.4963784.

[12]

I. Gnilitzkiy, M. Dusheyko, T. Borodinova, S. Mamykin, N. Maksimchuk, A. Ivaschuk, Y. Yakymenko, L. Orazi, Self-assembling of Gold Nanoparticles on Si-based Laser Nanotextured 1D Surface for Plasmonic Application, in: Conference on Lasers and Electro-Optics (2016), Paper STh4K.3, Optical Society of America, 2016: p. STh4K.3. doi: 10.1364/CLEO_SI.2016.STh4K.3.

[13]

L. Orazi, F. Montanari, G. Campana, L. Tomesani, G. Cuccolini, CNC paths optimization in laser texturing of free form surfaces, in: Teti R. (Ed.), *Procedia CIRP*, Elsevier, 2015: pp. 440–445. doi:10.1016/j.procir.2015.06.100.

[14]

L. Orazi, I. Gnilitzkiy, I. Pavlov, A.P. Serro, S. Ilday, F.O. Ilday, Nonlinear laser lithography to control surface properties of stainless steel, *CIRP Annals - Manufacturing Technology*. 64 (2015) 193–196. doi:10.1016/j.cirp.2015.04.038.

[15]

I. Gnilitzkiy, I. Pavlov, F. Rotundo, L. Orazi, C. Martini, F.O. Ilday, Nonlinear laser lithography for enhanced tribological properties, in: Conference on Lasers and Electro-Optics Europe - Technical Digest, Institute of Electrical and Electronics Engineers Inc., 2015. doi:10.1364/CLEO_AT.2015.AM2K.2.

[16]

I. Gnilitzkiy, I. Pavlov, F. Rotundo, L. Orazi, S. Ilday, C. Martini, F.Ö. Ilday, Laser-patterning stainless steel with nonlinear laser lithography for enhanced tribological properties, in: 2015.

[17]

A.V. Demchishin, I. Gnilitzkiy, L. Orazi, A. Ascari, Structure, phase composition and microhardness of vacuum-arc multilayered Ti/Al, Ti/Cu, Ti/Fe, Ti/Zr nano-structures with different periods, *Appl Surf Sci*. 342 (2015) 127–135. doi:10.1016/j.apsusc.2015.03.005.

[18]

L. Orazi, E. Liverani, A. Ascari, A. Fortunato, L. Tomesani, Laser surface hardening of large cylindrical components utilizing ring spot geometry, *CIRP Annals - Manufacturing Technology*. 63 (2014) 233–236. doi:10.1016/j.cirp.2014.03.052.

[19]

A. Fortunato, L. Orazi, G. Cuccolini, A. Ascari, Laser shock peening and warm laser shock peening: Process modeling and pulse shape influence, in: *Proceedings of SPIE - The International Society for Optical Engineering*, 2013. doi:10.1117/12.2007393.

[20]

A. Fortunato, L. Orazi, G. Cuccolini, A. Ascari, An exhaustive model for the laser hardening of hypo eutectoid steel, in: *Proceedings of SPIE - The International Society for Optical Engineering*, 2013. doi:10.1117/12.2007389.

[21]

A. Fortunato, A. Ascari, E. Liverani, L. Orazi, G. Cuccolini, A comprehensive model for laser hardening of carbon steels, in: *ASME 2013 International Manufacturing Science and Engineering Conference Collocated with the 41st North American Manufacturing Research Conference, MSEC 2013*, 2013. doi:10.1115/MSEC2013-1094.

[22]

G. Cuccolini, L. Orazi, A. Fortunato, 5 Axes computer aided laser milling, *Optics and Lasers in Engineering*. 51 (2013) 749–760. doi:10.1016/j.optlaseng.2013.01.015.

[23]

A. Ascari, A. Fortunato, L. Orazi, Laser micro-welding of high carbon steels, *Riv. Ital. Saldatura*. 65 (2013) 507–513.

[24]

A. Fortunato, A. Ascari, L. Orazi, G. Cuccolini, G. Campana, G. Tani, Numerical simulation of nanosecond pulsed laser welding of eutectoid steel components, *Optics & Laser Technology*. 44 (2012) 1999–2003. doi:10.1016/j.optlastec.2012.03.040.

[25]

A. Fortunato, A. Ascari, L. Orazi, G. Campana, G. Cuccolini, Numerical evaluation of the reflectivity coefficient in laser surface hardening simulation, *Surf. Coat. Technol.* 206 (2012) 3179–3185. doi:10.1016/j.surfcoat.2011.12.043.

[26]

A. Ascari, A. Fortunato, L. Orazi, G. Campana, The influence of process parameters on porosity formation in hybrid LASER-GMA welding of AA6082 aluminum alloy, *Opt Laser Technol.* 44 (2012) 1485–1490. doi:10.1016/j.optlastec.2011.12.014.

[27]

G. Tani, L. Orazi, A. Fortunato, A. Ascari, G. Campana, Warm Laser Shock Peening: New developments and process optimization, *CIRP Ann Manuf Technol.* 60 (2011) 219–222. doi:10.1016/j.cirp.2011.03.115.

[28]

L. Orazi, G. Cuccolini, C. Mantega, G. Tani, Microlavorazioni di superfici complesse, *APPLICAZIONI LASER*. 33 (2011) 44–50.

[29]

A. Fortunato, L. Orazi, G. Tani, A new computationally efficient model for tempering in multitrack laser hardening in medium carbon steels, *J Manuf Sci Eng Trans ASME*. 133 (2011). doi:10.1115/1.4003522.

[30]

A. ASCARI, A. FORTUNATO, O.L.L. ORAZI, G. TANI, il trattamento termico superficiale mediante laser, *APPLICAZIONI LASER*. 32 (2011) 40–41.

[31]

A. A., F. A., O.L.L. ORAZI, T. G., Trattamento termico superficiale mediante laser, *APPLICAZIONI LASER*. Febbraio-Marzo 2011 (2011) 40–45.

[32]

L. Orazi, A. Fortunato, G. Cuccolini, G. Tani, An efficient model for laser surface hardening of hypo-eutectoid steels, *Appl Surf Sci*. 256 (2010) 1913–1919. doi:10.1016/j.apsusc.2009.10.037.

[33]

L. Orazi, G. Cuccolini, A. Fortunato, G. Tani, An automated procedure for material removal rate prediction in laser surface micromanufacturing, *Int J Adv Manuf Technol*. 46 (2010) 163–171. doi:10.1007/s00170-009-2097-5.

[34]

A. Fortunato, L. Orazi, G. Campana, A. Ascari, G. Cuccolini, G. Tani, A new computationally efficient model for martensite to austenite transformation in multi-tracks laser hardening, *J. Optoelectron. Adv. Mat.* 12 (2010) 692–696.

[35]

A. Fortunato, G. Cuccolini, A. Ascari, L. Orazi, G. Campana, G. Tani, Hybrid metal-plastic joining by means of laser, *Int. J. Mater. Form.* 3 (2010) 1131–1134. doi:10.1007/s12289-010-0971-1.

[36]

A. Ascari, A. Fortunato, L. Orazi, G. Campana, G. Tani, Investigation on porosity formation in AA6082 hybrid Laser-GMAW welding, in: *ASME 2010 International Manufacturing Science and Engineering Conference, MSEC 2010*, 2010: pp. 229–236. doi:10.1115/MSEC2010-34247.

[37]

G. TANI, O.L.L. ORAZI, A. FORTUNATO, G. CAMPANA, A. ASCARI, G. CUCCOLINI, 9th AITeM Conference - “Enhancing the Science of Manufacturing,” LASER hardening of 3D

complex parts: industrial applications and simulation results, in: 9th AITeM Conference "Enhancing the Science of Manufacturing - Proceedings, AITeM, 2009: pp. 243–244.

[38]

G. Tani, L. Orazi, G. Cuccolini, An automated procedure for the geometrical characterization of root canals, in: 2008 Proceedings of the 9th Biennial Conference on Engineering Systems Design and Analysis, 2009: pp. 93–101.

[39]

G. Tani, A. Fortunato, L. Orazi, G. Cuccolini, Laser ablation simulation for copper, *Int. J. Nanomanufacturing*. 3 (2009) 279–294. doi:10.1504/IJNM.2009.027429.

[40]

O.L.L. ORAZI, 9th AITeM Conference - Enhancing the Science of Manufacturing, Laser hardening of hypo-eutectoid steels: an effective and efficient model, in: 9th AITeM Conference "Enhancing the Science of Manufacturing - Proceedings, AITeM, 2009: pp. 49–52.

[41]

L. Orazi, A. Fortunato, G. Tani, G. Campana, A. Ascari, G. Cuccolini, A new computationally efficient method in laser hardening modeling, in: Proceedings of the ASME International Manufacturing Science and Engineering Conference, MSEC2008, 2009: pp. 211–218. doi:10.1115/MSEC_ICMP2008-72501.

[42]

L. Orazi, G. Cuccolini, G. Tani, Automated characterization of the material removal rate in laser manufacturing of TiAl6V4 and inconel 718, in: Proceedings of the ASME International Manufacturing Science and Engineering Conference 2009, MSEC2009, 2009: pp. 807–816. doi:10.1115/MSEC2009-84181.

[43]

A. FORTUNATO, O.L.L. ORAZI, G. CAMPANA, A. ASCARI, G. CUCCOLINI, G.TANI, Laser in Manufacturing 2009, Laser Hardening of Large Cylindrical Martensitic Stainless Steel Surfaces, in: Proceedings of the Fifth International WLT-Conference on Laser in Manufacturing 2009, A. Ostendorf, T. Graf, D. Petring, A. Otto, 2009: pp. 421–426.

[44]

A. Fortunato, O.L.L. ORAZI, A. Ascari, G. Campana, G. Cuccolini, G. Tani, La saldatura laser tra plastica e metallo, *APPLICAZIONI LASER*. 23 (2009) 34–37.

[45]

A. Fortunato, L. Orazi, G. Tani, A new computationally efficient model for tempering in multi-tracks laser hardening, in: Proceedings of the ASME International Manufacturing Science and Engineering Conference 2009, MSEC2009, 2009: pp. 667–675. doi:10.1115/MSEC2009-84093.

[46]

G. CUCCOLINI, O.L.L. ORAZI, G. TANI, L. LAURENTINI, P. BALDISSARA, 9th AITeM Conference - Enhancing the Science of Manufacturing, Reverse Engineering for the geometrical characterization of root canals in dental implant, in: 9th AITeM Conference - Enhancing the Science of Manufacturing - Proceedings, AITeM, 2009: pp. 127–129.

[47]

G. CUCCOLINI, O.L.L. ORAZI, G. TANI, A. VACCARI, 9th AITeM Conference - "Enhancing the Science of Manufacturing," An automated procedure for laser milling of textures for mould manufacturing, in: 9th AITeM Conference - Enhancing the Science of Manufacturing - Proceedings, AITeM, 2009: pp. 239–242.

[48]

G. TANI, O.L.L. ORAZI, A. FORTUNATO, G. CAMPANA, A. ASCARI, G. CUCCOLINI, 41st CIRP Conference on Manufacturing System., Optimization strategies of laser hardening of Hypo-eutectoid steel., in: Manufacturing Systems and Technologies for the New Frontier, Mamoru Mitsuishi, Kanji Ueda and Fumihiko Kimura, 2008: pp. 355–360.

[49]

G. Tani, L. Orazi, A. Fortunato, Prediction of hypo eutectoid steel softening due to tempering phenomena in laser surface hardening, *CIRP Ann Manuf Technol.* 57 (2008) 209–212. doi:10.1016/j.cirp.2008.03.057.

[50]

G. Tani, L. Orazi, A. Fortunato, G. Cuccolini, Laser ablation of metals: A 3D process simulation for industrial applications, *J Manuf Sci Eng Trans ASME.* 130 (2008) 03111111–03111111. doi:10.1115/1.2917326.

[51]

G. Tani, L. Orazi, A. Fortunato, G. Campana, A. Ascari, 3D transient model for CO₂ laser hardening, in: *Proceedings of SPIE - The International Society for Optical Engineering*, 2008. doi:10.1117/12.786970.

[52]

G. TANI, O.L.L. ORAZI, A. FORTUNATO, G. CUCCOLINI, 8th International Symposium on Laser Precision Microfabrication, The influence of plasma plume in laser milling for mold manufacturing, in: *Proceedings of LPM2007*, 2007.

[53]

G. TANI, O.L.L. ORAZI, A. FORTUNATO, G. CAMPANA, G. CUCCOLINI, A. ASCARI, 5th International Congress Laser In Manufacturing, Laser Hardening Simulation for 3D surfaces of medium carbon steel industrial parts, in: *Proceedings of LIM2007*, A. Ostendorf, T. Graf, D. Petring, A. Otto, F. Vol, 2007: pp. 321–326.

[54]

G. TANI, O.L.L. ORAZI, A. FORTUNATO, G. CAMPANA, G. CUCCOLINI, AITeM 2007 Conference, Laser Hardening Modelling: Comparison between Induction and Laser Hardening on a Mechanical Part, in: *AITeM 2007 Conference Proceedings*, DMTI - Università di Firenze, 2007: pp. 1–10.

[55]

G. TANI, O.L.L. ORAZI, A. FORTUNATO, G. CAMPANA, G. CUCCOLINI, 5th International Congress on Laser Assisted Net shape Engineering, A numerical model for laser Ablation with Plasma, in: *Proceedings of LANE2007*, M. Geiger; A. Otto; M. Schmidt, 2007: pp. 289–294.

[56]

G. TANI, O.L.L. ORAZI, A. FORTUNATO, G. CAMPANA, A. ASCARI, 8 International Symposium on Laser Precision Microfabrication, 3D modelling of LASER hardening and tempering of hypo-eutectoid steels, in: *Proceedings of LPM2007*, 2007.

[57]

G. TANI, O. ORAZI, A. FORTUNATO, G. CUCCOLINI, The influence of plasma plume in laser milling for mold manufacturing, *Journal of Laser Micro Nanoengineering.* 2 (2007) 225–229.

[58]

G. TANI, O. ORAZI, G. CAMPANA, A. FORTUNATO, A. ASCARI, A numerical model for laser heat treatment of steels with microstructure evolution and the annealing effect, (2007) 779–789.

[59]

G. Tani, L. Orazi, A. Fortunato, G. Campana, G. Cuccolini, Laser hardening process simulation for mechanical parts, in: *Proceedings of SPIE - The International Society for Optical Engineering*, 2007. doi:10.1117/12.700345.

[60]

G. Tani, L. Orazi, A. Fortunato, G. Cuccolini, Laser milling simulation system for moulds manufacturing, in: *Proceedings of SPIE - The International Society for Optical Engineering*, 2007. doi:10.1117/12.700295.

[61]

G. Tani, A. Ascari, L. Orazi, Metallurgical phases distribution detection through image analysis for simulation of laser hardening of carbon steels, in: Proceedings of the ASME International Manufacturing Science and Engineering Conference 2007, MSEC2007, 2007: pp. 311–318.

[62]

L. Orazi, G. Tani, Geometrical inspection of designed and acquired surfaces, *Int J Adv Manuf Technol.* 34 (2007) 149–155. doi:10.1007/s00170-006-0587-2.

[63]

L. Orazi, Constrained free form deformation as a tool for rapid manufacturing, *Comput Ind.* 58 (2007) 12–20. doi:10.1016/j.compind.2006.02.003.

[64]

G. TANI, O.L.L. ORAZI, A. FORTUNATO, G. CUCCOLINI, 5th International Conference on Mechanics and Materials in Design., Laser Ablation Modeling for CNC Machine Tool Application in Mould Manufacturing, in: Proceedings M2D'2006, J. F. Silva Gomes, Shaker A. Meguid, 2006: pp. 1–12.

[65]

G. TANI, O.L.L. ORAZI, G. CUCCOLINI, G. CAMPANA, CIRP ICME 2006 - 5th INTERNATIONAL SEMINAR ON INTELLIGENT COMPUTATION IN MANUFACTURING ENGINEERING, Process Planning in Laser Milling, in: Proceedings of the ICME 06 International Congress, R. Teti, 2006: pp. 95–100.

[66]

G. Tani, A. Fortunato, L. Orazi, G. Cuccolini, 3-D modelling of laser ablation of metals in mould manufacturing, in: American Society of Mechanical Engineers, Manufacturing Engineering Division, MED, American Society of Mechanical Engineers (ASME), 2006. doi: 10.1115/IMECE2006-13528.

[67]

G. TANI, L. DONATI, O.L.L. ORAZI, AWC ? ADVANCING WITH COMPOSITES 2005- INTERNATIONAL CONGRESS ON COMPOSITES MATERIALS, Analysis and Monitoring of VARTM-SCRIMP Fabrication Process., in: AWC ? ADVANCING WITH COMPOSITES 2005- INTERNATIONAL CONGRESS ON COMPOSITES MATERIALS, amme, 2005: pp. 113–116.

[68]

O.L.L. ORAZI, G. TANI, AITeM 2005 Conference, Shape evaluation procedure for free form surfaces, in: Proceedings of AITeM 2005 Conference, AITeM, 2005: pp. 56–69.

[69]

O. ORAZI, G. TANI, Modifiche di Geometrie Acquisite mediante sistemi di Reverse Engineering., (2004) 125–143.

[70]

A. MORRI, O.L.L. ORAZI, F. TARTERINI, 3rd Youth Symposium on Experimental Mechanics, Experimental system to determine the start of fracture propagation during impact test, in: Proceedings of the 3rd Youth Symposium on Experimental Mechanics, Cristiano Fragassa, 2004: pp. 127–128.

[71]

O.L.L. ORAZI, G. TANI, 6th AITeM Conference, Application Of Reverse Engineering and Analysis Techniques for Surface Quality Control of Automotive Components, in: Proceedings of the 6th AITeM Conference, AITeM, Associazione Italiana di Tecnologia Meccanica, 2003: pp. 185–186.

[72]

G. TANI, O.L.L. ORAZI, Il ruolo della Reverse Engineering nelle tecniche di Time Compression, Metodologie per la misura ed il controllo di stampi con tecniche di Reverse Engineering, in: Il Ruolo Del Reverse Engineering Nelle Tecniche Di Time Compression, A. Gatto, 2002: pp. 69–79.

[73]

L.CESCHINI, A. MORRI, O.L.L. ORAZI, Comportamento superplastico di materiali compositi a matrice metallica, LA METALLURGIA ITALIANA. 44 (2002) 37–44.

[74]

L. Ceschini, A. Morri, L. Orazi, Superplastic behaviour of metal matrix composites, Metall Ital. 94 (2002) 37–46.

[75]

L. Ceschini, A. Morri, L. Orazi, High strain rate superplasticity in aluminium matrix composites, Proc. Inst. Mech. Eng. Part L J. Mat. Des. Appl. 216 (2002) 43–48. doi: 10.1243/14644200260044760.

[76]

G.P. CAMMAROTA, A. MORRI, O.L.L. ORAZI, 1st Youth Symposium on Experimental Solid Mechanics, AA6082 Friction stir welded joints: propagation during impact test, in: Proceedings of the 1st Youth Symposium on Experimental Solid Mechanics, 2002.

[77]

H. HEROLD, M. STREITENBERGER, M. ZINKE, O.L.L. ORAZI, A. CASAGRANDE, G.P. CAMMAROTA, EUROMAT 99, Fatigue threshold in aluminium alloys, in: EUROMAT 99: Metal Matrix Composites and Metallic Foams, T. W. Clyne, Frantisek Simancik, 2000: pp. 104–110.

[78]

H. H., S. M., Z. M., O.L.L. ORAZI, C.G. P., An experimental and theoretical approach for an estimation of DK_{th} , FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES. 23 (2000) 805–812.

[79]

H. Herold, M. Streitenberger, M. Zinke, L. Orazi, G.P. Cammarota, Experimental and theoretical approach for an estimation of ΔK_{th} , Fatigue Fract Eng Mater Struct. 23 (2000) 805–812. doi:10.1046/j.1460-2695.2000.00314.x.

[80]

L. ORAZI, Design of Experiments for Evaluating DK_{th} in AISI 304 Stainless Steel, OIAZ. 144 (1999) 164–168.

[81]

L. ORAZI, Influence of Testing Techniques and Micromechanical properties on DK Threshold, MATERIÁLOVÉ INŽINIERSTVO. 9 (1997) 2–9.