

# Annamaria Gisario

## Curriculum Vitae

### Contact info:

Department of Mechanical and Aerospace Engineering, Sapienza University of Rome

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### Educational Background

#### List of academic degrees:

- October 2001. M.S. degree in Edil Engineering at University of Rome "Tor Vergata".
- May 2007. Philosophy Doctor in "Engineering of the Materials" at University of Rome Tor Vergata. She has developed a PhD thesis entitled: "Applications of diode laser in Manufacturing".
- November 2010-. Researcher in Manufacturing and Production Systems (Scientific disciplinary sector: ING-IND/16) in the Department of Mechanical and Aerospace Engineering of Sapienza, University of Rome.
- January 2014 - present. Confirmed Researcher in Manufacturing and Production Systems (Scientific disciplinary sector: ING-IND/16) in the Department of Mechanical and Aerospace Engineering of Sapienza, University of Rome.
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#### Other relevant experiences:

- From March 2002 to October 2002, she has attended the Training Course (500 hours) in "Expert in integration processes between research and technological development in SMEs".
- From May 2002 to October 2003, she has received a research grant of one-year for cooperation in the research activities of the Department of Mechanical Engineering of the University of Rome "Tor Vergata" in the scientific field ING/IND-16 "Technologies and Manufacturing Systems". The grant was related to the research program: "Innovative Generator Endo-gas for surface treatment of the main alloys employed in mechanical engineering industry."
- From November 2006 to October 2007, she has got a grant supported by the research program "Provare – Promozione e Valorizzazione della Ricerca e della Proprietà Intellettuale" according to the Art. 12, MTUR act of 05/08/04 (Uffici per il trasferimento delle conoscenze Università – Aziende) "ILO" at the University of Rome "Tor Vergata". The research activities concerned the topic of technologic transfer from Research Institution to small and medium enterprises, with special regards to engineering aspects, patenting and creation of innovative companies (Spin-off).
- From December 2007 to March 2008 she has received a scholarship for post-graduated student. The research activities were carried out at the Department of Mechanical Engineering of the University of Rome "Tor Vergata" and they were related to "Employment of pulsed laser source for micro-structuring of the surface of polycrystalline silicon".
- From February 2008 to June 2008, she has got a non-permanent professional assignment at the University "La Sapienza" in Rome for tutoring activities in the course of "Manufacturing Engineering" of the Bachelor Degree in Mechanical Engineering.
- In April 2008, she was engaged in the scientific activities of the research project entitled: "Foaming the solid state of functional components". The research program was supported by FILAS (Finanziaria Laziale di Sviluppo), a public body devoted to the promotion of innovations to the company of the Region Lazio, within the call Business Lab - Centro Atena aimed at the promotion of new innovative companies in the field of ICT, Aerospace and Innovative Materials. (project duration: 12 months).

- From May 2009 to September 2009, she has received a scholarship for post-graduate students in research field of: "Surface treatments using high power diode laser source ". The research activities were carried out at the Department of Mechanical Engineering of the University of Rome "Tor Vergata".
- From November 2009 to October 2010, she has got an annual research grant at "Sapienza", University of Rome during which she has developed a research entitled: "Analysis of the micro-finishing process on metal surfaces by using laser technology".
- In the academic year 2009-2010, she was adjunct professor in the course of "Advanced technologies" of the Master Degree in Mechanical Engineering.

Brief summary of teaching activities: since 2003, Annamaria Gisario has cooperated in teaching the courses of the scientific sector "Technology and Manufacturing Systems". Engineering.

In October 2004, she started her teaching activities at Department of Mechanical Engineering of University of Rome Tor Vergata, where she took active role in the course of Manufacturing Engineering.

Since academic year 2007-2008, she has been cooperating in the course of Manufacturing Engineering for students in Mechanical Engineering at Sapienza University of Rome.

Since academic year 2009-2010, she started teaching the Course "Advanced Manufacturing Processes" ("Tecnologie Speciali" 9 C.F.U. - cod. 1022015) for students of the Master Degree in Mechanical Engineering and Management Engineering at Sapienza University of Rome.

Since academic year 2010-2011, she started teaching the Course of "Statistical Process Control & Operations Management" ("Programmazione e controllo della produzione" 6 C.F.U. - cod. 1017664) for students of the Master Degree Management Engineering and Mechanical Engineering at Sapienza University of Rome.

Since academic year 2012-2013, she started teaching the "Technological Innovation Laboratory" ("Lab. di Innoivazione Tecnologica" 3 C.F.U. - cod. AAF1478) for students of the Master Degree in Mechanical Engineering at Sapienza University of Rome.

Brief summary of research activities: the research activities of Annamaria Gisario arc entirely developed within the field of Manufacturing and Materials Engineering. Most of her research efforts was paid to the design, development and implementation of innovative engineered materials and the related manufacturing technologies. Her research interests include both experimental approaches and numerical modeling.

A pointwise list of the topics touched by Annamaria Gisario is herein reported: (i) Design and manufacturing of surface coatings based on organic, colloidal and inorganic materials; (ii) Laser processes by innovative laser sources of metal, polymeric and composite materials (surface treatment, welding, forming and direct energy deposition); (iii) Finishing and surface processing by fluidized beds; (iv) Traditional numerical modeling and simulation of processes and manufacturing technologies; (iv) Applications of Artificial Intelligence and Expert Systems.

The research activities is documented by 67 papers published on peer reviewed indexed and high impact factor international journals. In addition, she has held about 20 lectures, some of them as invited speaker, to international conferences, events or fairies.

#### Summary of Scientific Achievements

Product type Papers	Number 67	Data Base Scopus	Start 2004	End 2019
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#### Bibliometric indicators according to SCOPUS (October 18th, 2019)

Total Impact Factor	~ 132,87 (1,98 per Product)
Total Citations	572
Average Citations per Product	8,54
Hirsch (H) index	13

#### Honors and Awards

- June 2003 - Award in the "(Premio Idea 2002" call of BIC Lazio, a society for the promotion of innovative ideas to the companies of Region Lazio, concerning the relationship between Academia and

Industrial World. The awarded idea concerned the development of a prototype system for the extrusion of innovative mortars in the concrete industry.

- November 2006 - "Award for Research and Innovation 2005" of BIC Lazio, second award in the call. The awarded idea concerned the development of an "Innovative integrated system for surface pretreatment and powder coating of plastic substrates".
- March 2007 - Award in the "Call for Ideas" of Iunet (Network of academic incubators for innovative spin-offs) for the selection of innovative ideas for promoting the birth of new companies. The awarded idea was entitled "Recycling process of CD and DVD by using laser diode". The idea was awarded with a grant. July
- 2008 - "Best Paper Award" in joined call of the International Federation of Automatic Control (IFAC) and Elsevier Publisher. The paper: BARLETTA M, GISARIO A, GUARINO S, Modelling of electrostatic fluidized bed (EFB) coating process using artificial neural networks, ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, voi. 20 (6), 2007, 721-733 ISSN: 0952-1976, doi:10.1016/j.engappai.2006.06.013 was considered the best paper submitted in the period 2005-2008. The award was assigned during the XVII IFAC World Congress 08, held in Soul (South Korea).
- May 2009 - Citation on Research Highlights TECHNOLOGY FOCUS, of the journal Nature Photonics 3, 260 - 261 (2009) doi:10.1038/nphoton.2009.58 for the paper "*On the interaction mechanisms between a high-power diode laser source and silver alloys: The case of aesthetic welding*" edited on OPT LASER ENG

#### Research project coordination (Research Project of Athenaeum)

- Academic Research 2018 - "Termoformatura assistita laser di film (tostici in materiale plastico compostabile per la manifattura di imballaggi mono-uso idonei al contatto alimentare)", (prot. RP11816434291989); Timeline: 12 months
- Academic Research 2016 - "Transmission Laser welding and joining of PolietileneTereftalato (PET): analysis of the configurations PET/PET and PET/Metal", (prot. RP116154CCE5E9D4); Timeline: 12 months
- Academic Research 2015 - "Joining processes of functionalized Poly-Lactic Acid (PLA) and lactic acid derivatives with high durability" (prot. C26A152PZC); Timeline: 12 months
- Academic Research 2014 - "Design and Manufacturing of hybrid organic-inorganic coatings by means High Power Diode Laser sources" (prot. C26A147XNH); Timeline: 12 months
- Academic Research 2013 - "Laser Sealing of CrC-Cr coatings deposited by means HVOF process" (prot. C26A13KHP8); Timeline: 12 months
- Progetto FARI 2012 - "Innovative class of deposition processes of organic and/or organic/inorganic functional coatings" (prot. C2611248XW); Timeline: 12 months
- Academic Research 2011 - "Reactive Laser Surface Processing of thermo-sprayed coatings" (prot. C26A11PNY4); Timeline: 12 months

#### Research project participation (Research Project of Athenaeum)

- Academic Research 2018 - "Caratterizzazione microstrutturale e analisi cristallografica avanzata di materiali policristallini mediante tecnica EBSD (Electron BackScattered Diffraction): Applicazioni nel campo dei rivestimenti protettivi e dei trattamenti superficiali." (prot. MA3181643661F356); Timeline: 12 months
- Academic Research 2017 - "Sviluppo di un nuovo processo di fabbricazione di componenti ad alte prestazioni meccaniche in materiale composito a matrice metallica mediante Selective Laser Melting" (prot. RM11715C82042D77); Timeline: 12 months
- Academic Research 2010 - "Diode Laser Surface Treatment on Metal Matrix Composite to improve mechanical and tribological properties." (prot. C26A10A7SP); Timeline: 12 months
- FARI 2010 - "LASER FOAMING of Recycled Material: materials, processes and performances" (prot. C26110WMM5); Timeline: 12 months
- Academic Research 2009 - "Surface Micro-Finishing by means Laser Technology" (prot. C26F098C4S); Timeline: 12 months

#### Scientific Coordination in Research Project in cooperation with Companies

- Project SMART\_ALU – Public Call n. A0114-2017-13719 del 11 Feb. 2017 CUP Cod. F51B18000150007 – Project cod. A0114E0086 - COR 512794, 512797

- Public Call "KETS tecnologie abilitanti" as reported in Det. n. G13675 of 21 Nov. 2016 - PORFESR LAZIO 2014-2020 - Research Program: STUDIO DI CONTENITORI IN MATERIALE PLASTICO COMPOSTABILE E RICICLABILE PER IL CONFEZIONAMENTO DI PRODOTTI LATTIERO-CASEARI. The research activities are in the framework of PROGETTO RIUSA, Public Call n. 8 – CIRCULAR ECONOMY E ENERGIA - POR FESR LAZIO 2014-2020, Riposizionamento Competitivo - FASE II

#### Service to the University

2011-present. Member of the board of the Industrial and Management Engineering PhD Programme at Department of Mechanical and Aerospace Engineering - Sapienza University of Rome

2008-present. Member of Interuniversity Center of Research of the Innovative Technologies for Capital Goods (Centro Interuniversitario di Ricerca sulle Tecnologie Innovative per Beni Strumentali - C.I.R.T.I.B.S).

#### Service to the Community

##### **Membership:**

2003-present. Member of A.I.Te.M. (Associazione Italiana Tecnologia Meccanica), the main Italian Association of Manufacturing

2009-present. Member of Scientific Council of the CIRTIBS, an Interuniversity Research Centre for Manufacturing Equipment Innovative Technologies (Centro Interuniversitario di Ricerca sulle Tecnologie Innovative per Beni Strumentali)

2011-present. Member of PromozioneL@scr in AITeM (laser processes group)

##### **Editorial board**

2011-present. Member of scientific committee of the journal Applicazioni Laser, PubliTec

2015-present. Member of Editorial Board of the International Conference on Mechanical, Manufacturing and Process Plant Engineering (ICMMPE 2015) held at Kuala Lumpur in Malaysia

##### **Referee**

2005-present. Referee of several international journals focused on laser processes and modelling and experimenting of advanced manufacturing methods, coating technologies, material design. For example: Journal of Machine Tools & Manufacture, Surface & Coatings Technology, Progress in Organic Coatings, Optics and Lasers in Engineering, Optics and Lasers Technology, Journal of Materials in Civil Engineering, etc.

#### Graduate student supervised

Since 2005 she has been supervising and co-supervising more than 60 master theses for students in Mechanical Engineering and Management Engineering, and 4 PhD degree theses for student in Materials Engineering and Industrial and Management Engineering.

#### Complete List of Publications

##### **International Journal**

1. GISÀRIO A., KAZARIAN M., MARTINA F., MEHRPOUYA M. (2019) Metal additive manufacturing in the commercial aviation industry: A review, JOURNAL OF MANUFACTURING SYSTEMS, Volume 53, October 2019, Pages 124-149
2. MEHRPOUYA M., GISARIO A., HUANG H., RAHIMZADEH A., ELAHJNIA M. (2019) Numerical study for prediction of optimum operational parameters in laser welding of NiTi alloy, OPTICS AND LASER TECHNOLOGY, Volume 118, October 2019, Pages 159-169



3. MEHRPOUYA M., DEGHANGHADIKOLAEI A., FOTOVATI B., VOSOOGHNI A., EMAMIAN S.S., GISARIO A (2019) The potential of additive manufacturing in the smart factory industrial 4.0: A review, APPLIED SCIENCES (SWITZERLAND), Volume 9, Issue 18, 1 September 2019, Article number 3865
4. MEHRPOUYA M., GISARIO A., BROGGIATO G.B., PUOPOLO M., VESCO S., BARLETTA M. (2019), Effect of welding parameters on functionality of dissimilar laser-welded NiTi superelastic (SE) to shape memory effect (SME) wires, INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, Volume 103, Issue 1-4, 19 July 2019, Pages 1593-1601
5. MEHRPOUYA M., GISARIO A., RAHIMZADEH A., BARLETTA M. (2019), An artificial neural network model for laser transmission welding of biodegradable polyethylene terephthalate/polyethylene vinyl acetate (PET/PEVA) blends, INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, Volume 102, Issue 5-8, 19 June 2019, Pages 1497-1507
6. MEHRPOUYA M., GISARIO A., BARLETTA M., NATALI S., VENIALI F. (2019), Dissimilar Laser Welding of NiTi Wires, LASERS IN MANUFACTURING AND MATERIALS PROCESSING, Volume 6, issue 2, 15 June 2019, Pages 99-112
7. BAIAMONTE L., BARTULI C., MARRA F., GISARIO A., PULCI G. (2019), Hot corrosion resistance of laser-sealed thermal-sprayed cermet coatings, COATINGS, Volume 9, Issue 6, 1 June 2019, Article number 347
8. MEHRPOUYA M., HUANG H., VENETTACCI S., GISARIO A., (2019) LaserOrigami (LO) of three-dimensional (3D) components: Experimental analysis and numerical modeling-part II, JOURNAL OF MANUFACTURING PROCESSES, Volume 39, March 2019, Pages 192-199
9. MEHRPOUYA M., GISARIO A., BROTTZU, A., NATALI, S., (2018) Laser welding of NiTi shape memory sheets using a diode laser, OPTICS AND LASER TECHNOLOGY, Volume 108, Pages 142-149, Elsevier
10. GISARIO, A., BARLETTA M., (2018) Laser forming of glass laminate aluminium reinforced epoxy (GLARE): On the role of mechanical, physical and chemical interactions in the multi-layers material, OPTICS AND LASERS IN ENGINEERING, Volume 110, Pages 364-376, Elsevier
11. AVERSA, C., BARLETTA, M., GISARIO, A., (...), PUOPOLO, M., VESCO, S. (2018) Improvements in mechanical strength and thermal stability of injection and compression molded components based on Poly Lactic Acids, ADVANCES IN POLYMER TECHNOLOGY, Volume 37, N.6, Pages 2158-2170
12. MEHRPOUYA M., GISARIO A., ELAHINIA, M. (2018) Laser welding of NiTi shape memory alloy: A review. JOURNAL OF MANUFACTURING PROCESSES, Volume 31, January 2018, Pages 162-186
13. GISARIO, A., MEHRPOUYA, M., PIZZI, E., (2017) Dissimilar joining of transparent Polyethylene terephthalate) to aluminum 7075 sheets using a diode laser, JOURNAL OF LASER APPLICATIONS, Volume 29, Issue 2, 1 May 2017, Article number 022418
14. GISARIO, F. VENIALI, M. BARLETTA, V. TAGLIAFERRI, S. VESCO (2017) Laser transmission welding of polyethylene terephthalate) and biodegradable poly(ethylene terephthalate) Based blends. OPTICS AND LASERS IN ENGINEERING, Volume 90, 1 March 2017, Pages 110-118
15. GISARIO, M. MEHRPOUYA, S. VENETTACCI, M. BARLETTA, (2017) Laser-assisted bending of Titanium Grade-2 sheets: Experimental analysis and numerical simulation, OPTICS AND LASERS IN ENGINEERING, Volume 92, 1 May 2017, Pages 110-119
16. GISARIO, M. BARLETTA, S. VENETTACCI, (2016) Improvements in springback control by external force laser-assisted sheet bending of titanium and aluminum alloys, OPTICS & LASER TECHNOLOGY 86, 46-53
17. GISARIO, M. MEHRPOUYA, S. VENETTACCI, A. MOHAMMADZADEH, M. BARLETTA, (2016) LaserOrigami (LO) of three-dimensional (3D) components: Experimental analysis and numerical modelling, JOURNAL OF MANUFACTURING PROCESSES
18. BARLETTA, M., PUOPOLO, M., GISARIO, A., VESCO, S. (2016) Smart coatings on thermoplastic polycarbonates: LEGO-Design (LD) for facile manufacturability PROGRESS IN ORGANIC COATINGS, Volume 101, 1 December 2016, Pages 161-177
19. BARLETTA, M., GISARIO, A., PUOPOLO, M., VESCO, S. (2016) Manufacturing and characterization of polyether ether ketone/methyl phenyl polysiloxane composite coatings, JOURNAL OF APPLIED POLYMER SCIENCE, Volume 133, Issue 26, 10 July 2016, Article number 43609
20. GISARIO, M. PUOPOLO, S. VENETTACCI, F. VENIALI, (2015) Improvement of thermally sprayed WC-Co/NiCr coatings by surface laser processing, INTERNATIONAL JOURNAL OF REFRACTORY METALS AND HARD MATERIALS, vol. 52, p. 123-130
21. GISARIO, M. BARLETTA, S. VENETTACCI, F. VENIALI, (2015) Progress in Tridimensional (3d) Laser Forming of Stainless Steel Sheets, LASERS IN MANUFACTURING AND MATERIALS PROCESSING, September 2015, Volume 2, Issue 3, pp 148-163
22. GISARIO, M. BARLETTA, S. VENETTACCI, F. VENIALI, (2015) Laser-Assisted Bending of Sharp Angles With Small Fillet Radius on Stainless Steel Sheets: Analysis of Experimental Set-Up and Processing Parameters, LASERS IN MANUFACTURING AND MATERIALS PROCESSING, June 2015, Volume 2, Issue 2, pp 57-73
23. GISARIO, M. PUOPOLO, S. VENETTACCI, F. VENIALI (2015). Improvement of thermally sprayed WC-Co/NiCr coatings by surface laser processing, INTERNATIONAL JOURNAL OF REFRACTORY METALS AND HARD MATERIALS, Volume 52, September 2015, Pages 123-130
24. BARLETTA, S. VENETTACCI, M. PUOPOLO, S. VESCO, A. GISARIO (2015). Design and manufacturing of protective barriers on Fe 430 B substrates by phenyl methyl polysiloxane coatings: micromechanical response,

- chemical inertness, and corrosion resistance. *JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH*, ISSN: 1945-9645, doi: 10.1007/s11998-014-9637-0
25. A. GISARIO, M. BARLETTA, S. VENETTACCI, F. VENIALI (2015). External force-assisted LaserOrigami (LO) bending: Shaping of 3D cubes and edge design of stainless steel chairs. *JOURNAL OF MANUFACTURING PROCESSES*, voi. 18, p. 159-166, ISSN: 1526-6125, doi: doi:10.1016/j.jmapro.2015.03.006
  26. M. BARLETTA A. GISARIO, M. PUOPOLO, S. VESCO (2015). Scratch, wear and corrosion resistant organic inorganic hybrid materials for metals protection and barrier. *MATERIALS & DESIGN*, Volume 69, March 15, 2015, Pages 130-140, ISSN: 1873-4197, doi: doi:10.1016/j.matdes.2014.12.048,
  27. M. BARLETTA A. GISARIO, S. VENETTACCI, G. RUBINO (2014). A comparative evaluation of fluidized bed assisted drag finishing and centrifugal disk dry finishing. *ENGINEERING SCIENCE AND TECHNOLOGY, AN INTERNATIONAL JOURNAL*, voi. 17, p. 63-72, ISSN: 2215-0986, doi: doi:10.1016/j.jestch.2014.03.007
  28. MASSIMILIANO BARLETTA ANNAMARIA GISARIO, LAURA PALAGI, LUIGI SILVESTRI (2014). Modelling the Electrostatic Fluidised Bed (EFB) coating process using Support Vector Machines (SVMs). *POWDER TECHNOLOGY*, voi. 258, p. 85-93, ISSN: 0032-5910, doi: 10.1016/j.powtec.2014.03.017
  29. MASSIMILIANO BARLETTA, STEFANO GUARINO, SILVIA VESCO, ANNAMARIA GISARIO, VINCENZO TAGLIAFERRI (2013). Abrasive Fluidized Bed (AFB) finishing of thermally sprayed cobalt-chromium coatings. *MANUFACTURING LETTERS*, voi. 1, p. 1-4, ISSN: 2213-8463, doi: 10.1016/j.mfglet.2013.08.002
  30. M. BARLETTA M. PUOPOLO, A. GISARIO, S. VESCO (2013). Application and drying at ambient temperature of thick organic-inorganic hybrid coatings on glass. *SURFACE & COATINGS TECHNOLOGY*, voi. 236, p. 212-223, ISSN: 0257-8972, doi: <http://dx.doi.org/10.1016/j.surfcoat.2013.09.049>
  31. M. BARLETTA F. TROVALUSCI, ANNAMARIA GISARIO, SIMONE VENETTACCI (2013). New ways to the manufacturing of pigmented multi-layer protective coatings. *SURFACE & COATINGS TECHNOLOGY*, voi. 232, p. 860-867, ISSN: 0257-8972, doi: 10.1016/j.surfcoat.2013.06.113
  32. BARLETTA M., GUARINO, S., VESCO, S., GISARIO, A., TAGLIAFERRI, V. (2013). Abrasive Fluidized Bed (AFB) finishing of thermally sprayed cobalt-chromium coatings. *MANUFACTURING LETTERS*, 1(1), 1-4.
  33. M. BARLETTA V. TAGLIAFERRI, ANNAMARIA GISARIO, SIMONE VENETTACCI (2013). Progressive and constant load scratch testing of single- and multi-layered composite coatings. *TRIBOLOGY INTERNATIONAL*, voi. 64, p. 39-52, ISSN: 0301-679X, doi: 10.1016/j.triboint.2013.03.002
  34. M. BARLETTA V. TAGLIAFERRI, F. TROVALUSCI, FRANCESCO VENIALI, ANNAMARIA GISARIO (2013). The Mechanisms of Material Removal in the Fluidized Bed Machining of Polyvinyl Chloride Substrates. *JOURNAL OF MANUFACTURING SCIENCE AND ENGINEERING*, voi. 135, ISSN: 1087-1357, doi: 10.1115/1.4007956
  35. M. BARLETTA ANNAMARIA GISARIO, F. TROVALUSCI, S. VESCO (2013). Visual appearance and scratch resistance of high performance thermoset and thermoplastic powder coatings. *PROGRESS IN ORGANIC COATINGS*, voi. 76, p. 244-256, ISSN: 0300-9440, doi: 10.1016/j.porgcoat.2012.09.024
  36. A. GISARIO, M. BALLETTA, F. VENIALI, (2012). Laser surface modification (LSM) of thermally-sprayed Diamalloy 2002 coating, *OPTICS & LASER TECHNOLOGY*, Volume 44, Issue 6, September 2012, Pages 1942-1958
  37. GISARIO, M. BARLETTA F. VENIALI, (2012). Surface reconstruction of porous substrates in sintered bronze by cw-high power diode laser, *OPTICS AND LASERS IN ENGINEERING*, Volume 50, Issue 9, September 2012, Pages 1306-1315
  38. GISARIO, M. BARLETTA, C. CONTI, S. GUARINO, (2011). Springback control in sheet metal bending by laser-assisted bending: Experimental analysis, empirical and neural network modelling. *OPTICS AND LASERS IN ENGINEERING*, Volume 49, Issue 12, December 2011, Pages 1372-1383
  39. M. BARLETTA A. GISARIO, G. RUBINO, (2011). Scratch response of high-performance thermoset and thermoplastic powders deposited by the electrostatic spray and 'hot dipping' fluidised bed coating methods: The role of the contact condition, *SURFACE AND COATINGS TECHNOLOGY*, Volume 205, Issues 21-22, 25 August 2011, Pages 5186-5198
  40. M. BARLETTA ANNAMARIA GISARIO, G. RUBINO (2011). Adhesion and wear resistance of CVD diamond coatings on laser treated WC-Co substrates. *WEAR*, voi. 271, p. 2016-2024, ISSN: 0043-1648, doi: 10.1016/j.wear.2011.01.042
  41. M. BARLETTA, G. RUBINO, ANNAMARIA GISARIO (2011). Co removal and phase transformations during high power diode laser irradiation of cemented carbide. *APPLIED SURFACE SCIENCE*, voi. 257, p. 4239-4245, ISSN: 0169-4332, doi: 10.1016/j.apsusc.2010.12.027
  42. GISARIO, A. BOSCHETTO, VENIALI F. (2011). Hole Damage in Drilling of Reactive Powder Concrete (RPC). *JOURNAL OF MATERIALS IN CIVIL ENGINEERING*, ISSN: 0899-1561, doi: 10.1061/(ASCE)MT

43. BOSCHETTO, A. GISARIO, F. VENIALI, (2001) Neural Network Approach for Estimating the Hole Damage in Drilling Process of Reactive Powder Concrete (RPC). INTERNATIONAL JOURNAL OF COMPUTATIONAL MATERIALS SCIENCE AND SURFACE ENGINEERING, Volume 5, No.2, February 2011 ISSN: 1753-3465
44. GISARIO, A. BOSCHETTO, F. VENIALI, (2011) Surface transformation of AISI 304 stainless steel by high power diode laser. OPTICS AND LASERS IN ENGINEERING, Volume 49, Issue 1, January 2011, Pages 41-51
45. V. CANNILLO, A. SOLA, M. BARLETTA, A. GISARIO, (2010) Surface modification of Al–Al2O3 composites by laser treatment. OPTICS AND LASERS IN ENGINEERING, Volume 48, Issue 12, December 2010, Pages 1266-1277
46. GISARIO, A.; BARLETTA, M.; STANCAMPIANO, R., (2009) On the interaction mechanisms between a high-power diode laser source and silver alloys: The case of aesthetic welding. OPTICS AND LASERS IN ENGINEERING Volume: 47, Issue: 7-8, July - August, 2009, pp. 821-830
47. BARLETTA, M., GISARIO, A., GUARINO, S., RUBINO, G. (2009) Production of open cell aluminum foams by using the dissolution and sintering process (DSP) JOURNAL OF MANUFACTURING SCIENCE AND ENGINEERING, TRANSACTIONS OF THE ASME Volume 131, Issue 4, August 2009, Pages 0410091-04100910
48. BARLETTA, MASSIMILIANO; GISARIO, ANNAMARIA, (2009) Electrostatic spray painting of carbon fibre-reinforced epoxy composites PROGRESS IN ORGANIC COATINGS Volume: 64, Issue: 4, March, 2009, pp. 339-349
49. BARLETTA, M.; GISARIO, A.; RUBINO, G.; LUSVARGHI, L. (2009) Influence of scratch load and speed in scratch tests of bilayer powder coatings PROGRESS IN ORGANIC COATINGS Volume: 64, Issue: 2-3, February, 2009, pp. 247-258
50. BARLETTA M, GISARIO A, LUSVARGHI L., (2009) On the use of Fluidized Bed Coating (FBC) to deposit thin Al2O3 films onto metal substrates, INTERNATIONAL JOURNAL OF MATERIALS & PRODUCT TECHNOLOGY Volume 35, Number 3-4 / 2009 pp: 407 - 424 (ISSN: 0268-1900).
51. BARLETTA, MASSIMILIANO; RUBINO, GIANLUCA; GUARINO, STEFANO; BOLELLI, GIOVANNI; LUSVARGHI, LUCA; ET. AL. (2008) Fast Regime-Fluidized Bed Machining (FR-FBM) of Atmospheric Plasma Spraying (APS) TiO2 coatings SURFACE & COATINGS TECHNOLOGY Volume: 203, Issue: 5-7, December 25, 2008, pp. 855-861
52. BARLETTA M, BOLELLI G, GISARIO A, LUSVARGHI L., (2008) Mechanical strength and wear resistance of protective coatings applied by Fluidized Bed (FB), PROGRESS IN ORGANIC COATINGS (ISSN: 0300-9440), voi. 61 issue 2-4, 2008, pp. 262-282.
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**Data**

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