

CURRICULUM VITAE ET STUDIORUM OF GIUSEPPE STARACE

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PRESENT TASKS AND ROLES

- Professional Engineer (Mechanical);
- Consultant to SMEs for research, development and innovation politics as well as investment strategies to test and improve products and processes;
- R&D Project Designer and Manager;
- Researcher of Applied Thermodynamics, Heat Transfer and Engineering of the Closed Spaces (ING-IND/11 - 09/C2) at the University of Salento (Department of Innovation Engineering);
- Assistant Professor of Applied Thermodynamics, Heat Transfer, Engineering of the Closed Spaces, Industrial Refrigeration, Environmental control systems and refrigeration (classes in Lecce and in Brindisi);
- Member of the Scientific Committee at LaserInn scarl in Valenzano (BA);
- Head of Integrated Quality and Environment at Sachim srl in Putignano (BA);
- Consultant to the Managing Director and Research Manager for R&D policies of Sachim srl in Putignano (BA) and Arrigoni Spa in Uggiate Trevano (CO);
- Member of the Technical and Scientific Committee of the InResLab Ltd. in Monopoli (BA);
- Head of the *Thermo-energetics Laboratory* of the University of Salento in Lecce;
- Head of the *Applied Thermodynamics Section of the Interdisciplinary Laboratory of Integrated Planning and Management of Industrial Plants* at the Department of Innovation for Engineering of the University of Salento;
- Member of the Academic Board of the PhD in Energy Systems and Environment of the University of Salento;
- Tutor of doctoral young researchers in Energy Systems and Environment of the University of Salento.
- Tutor of young researchers fellows at University of Salento
- Chief Editor for Research and Development Papers and Articles for TEKNECO (www.tekneco.it)
- Recognized reviewer for many Scientific International Journals in the Engineering field

ASSOCIATIONS

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| since 2006 | ANIT Associate Member |
| since 2005 | AICARR Associate Member |
| since 2005 | ASHRAE Member |
| since 1996 | Member of the CREA– Research Center for Energy and Environment @University of Salento |

MAIN EDUCATION, STUDIES AND QUALIFICATIONS

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| 2017 <i>still at present</i> | Registered in the professional experts list aimed to support start-up enterprises for what concerns their projects financed by the call PIN - ARTI - Apulia Region (Public Regional Authority in Italy, |
| 2017 <i>still at present</i> | Since 4th April - Qualified as Associate Professor (Second Level of Italian Professorship) in 09 / C2 sector - Applied Thermodynamics and Nuclear Engineering |
| 2017 <i>still at present</i> | Vice Director of the Scientific Book Series "SERiA" published by Aracne Editrice, Rome (I) Director prof. Domenico Laforgia |
| 2017 <i>still at present</i> | Member of the Scientific Committee for the National Congress of ATI (Italian Thermo- technical Association) to be held in Lecce (I) 6-8th September 2017. |

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| 2016 still at present | Registered as Expert Reviewer in the REPRISE “ Register of Experts of Peer-Reviewers fo Italian Scientific Evaluations” |
| 2016 | 16 hours course for Safety Issues (ex art. 37 of the Italian Legislative Decree 81/08) for Research Lab Managers (University of Salento, Lecce) |
| 2015 still at present | Registered as Euro-Projects Designer and Manager in the European Register at the EUPF (European Project Forum) in Amsterdam (NL) |
| 2014 still at present | Registered as expert for the evaluation of public financed investments in Italian cogeneration plants by GSE (Board of components of groups of Inspectors no.3 - High Efficiency Cogeneration Plants) |
| since 2007 still at present | Assistant professor of "Thermodynamics and Heat transfer", "Applied Environmental Control", "Refrigeration" |
| 2011-2012 | Assistant professor of "Refrigeration and Environmental Control Systems" |
| since 2005 | Environmental Auditor according to the ISO 14001:2004 standard – CEPAS Course - 40 hours |
| since 2005 | Internal Auditor for Sachim srl (ISO 9001:2000 - ISO 9001:2008 - ISO 14001:2004 - EMAS II - EMAS III) |
| 2000-2007 | Assistant Professor of "Thermodynamics and Heat Transfer" at University of Salento |
| since 2000 still at present | Researcher of <i>Applied Physics of the Closed Spaces (SSD: 09/C2 - ING-IND/11- I05B)</i> |
| 2000 | PhD in Energy and Environmental Systems at University of Salento (XII cycle - 1996-1999)- Final thesis: <i>Methodologies of Characterization of Diesel Sprays</i> (tutor: prof. Domenico Laforgia) |
| 1996 still at present | Registered as Technical Consultant to Magistrates at the Official Register of the Court of Bari at n.1865 |
| 1996 still at present | Registered as a Professional Engineer at n.5204 at the Association of Engineers of the District of Bari |
| 1995 | Master Degree: Mechanical Engineering at Polytechnic of Bari - Final thesis: Study of the flow fields and of the granulometry of the spray produced by injectors for Diesel engines with PDPA techniques (supervisors: U. Ruggiero, full professor e D. Laforgia, full professor - Company tutor: V. Damiani, engineer at ELASIS - Centro Ricerche Alimentazione Motori in Bari) – Score 110/110 |
| 1989 | A level at Scientific High school |

OTHER SIGNIFICANT EDUCATIONAL EXPERIENCES, COURSES, STAGES E FELLOWSHIPS

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| 2017 | 16 hours course on Energy Management System Implementation according to ISO 50001:2011 (Dasa Raegister - BARI) |
| 2016 | 8 Hours Update course on Standard ISO 14001:2015 held in Bari by CSAD Education Center. |
| 2016 | 16 hours course in Patent Strategic management, Unitary Patent and Patent BOX held in Milan (I) held by Consultants of IIR (International Research Institute) |
| 2015 | 28 hours specialization Course on Intellectual Property in Lecce (I) organized and supported by: <ul style="list-style-type: none"> – Ministry of the Economic Development of the Italian Republic by its ITA - Italian Trade Agency; – ENEA, Italian National Agency for New Technologies, Energy and Sustainable Economic Development |
| 2014 | 40 hours <i>Master for 2014-2020 Eurodesigners</i> (35 hours course attendance + 5 of practice in Bari + finale test) - Europa Cube Innovation Business School (Bologna - Brussels) |
| 2013 | 8 hours Course at HVAC school of AICARR - <i>Adjustment of HVAC systems - Fundamentals and Applications</i> |
| 2012 | Update training on ISO 19011:2012 standard |
| 2012 | Stage on specialized matter at ENEL Spa in Brindisi Sud (40 hours) entitled: " <i>The management and the maintenance of the large energy production plants</i> " |
| 2005 | <i>Air conditioning and renewable energies school</i> of AICARR (ASHRAE associated) in Bari (modules of <i>Design, Test, Balancing, Adjusting of HVAC systems</i> and on <i>Renewable Energies</i>). |
| since 2005 still at present | Attendance to several 1 or 2 days courses about <i>HVAC systems and components</i> and of <i>Renewable energies applications</i> (of research and industrial interest). |
| 2003 | 4 th Summer School of <i>Thermo-fluid dynamics</i> of the UIT, at University of Siena - <i>Experimental Thermo-fluid dynamics and Measurement Techniques</i> |
| since 2002 still at present | He takes part in several courses and seminar both theoretical and applied about topics concerning <i>Environmental acoustics and Vibrations in normal life and at work</i> |
| 2001 | 3 rd Summer School of <i>Thermo-fluid dynamics</i> of the UIT, at University of Siena - Computational Thermo-fluid dynamics |
| 2000 | <i>Introduction to the computational fluid dynamics (CFD)</i> the NAFEMS in Bergamo |
| since 2000 still at present | He takes part in several courses and seminar and congresses about topics of Environmental concerning HVAC, industrial refrigeration, quality and environment |
| 1999 | 2 weeks PRO/ENGINEERING 3D CAD system course, Parametric Technology. |
| 1998 | 6-months Stage for experimental tests at BOSCH TDIT in Bari for his Phd thesis |

- 1998 Intensive course (1 week Lecture series attendance) "Introduction to Measurement Techniques" at Von Karman Institute for Fluid Dynamics - Brussel (B).
- 1996 1 week intensive 2D CAD (MICROSTATION-Intergraph) at Consorzio CETMA in Brindisi (tutor: Mr. F. Frattini, ENEA - Bologna). A course in MICROSTATION (CAD Intergraph)
- 1996 CNR (National Research Center) fellowship to study abroad as a Research Scholar at the *Engineering Research Center of the University of Wisconsin - Madison (WI, USA)* (Tutor: prof. R. D. Reitz) for deepening studies and research about Diesel spray formation, combustion and emissions.
- 1995 10 months stage at ELASIS Scrl *Centro ricerche Alimentazione Motori (Research center for Automotive Engine Supply Systems)* in Bari (I) for his master degree thesis and ATA (Technical Association of Automobiles - SAE Associated) award for thesis of automobile interest
- 1993 2 weeks fellowship (funded by ENEL Spa and gained on the basis of university merits) for a stage at several energy production plants (all technologies) of ENEL Spa

TEACHING (INSIDE AND OUTSIDE UNIVERSITY)

- 2015 Contract professor in a 16 hours Specialization Course for *Refrigeration technicians* for Sanofi Aventis Spa in Brindisi (I)
- since 2011 Assistant professor in *Systems for the environmental control and the refrigeration* for master students still at present in Mechanical Engineering at the University of Salento.
- 2010 Contract professor in the High education for Professional engineers in "*Certification of environmental sustainability*" and in "*Energy Certification*" at CISEM (Bari) - Teaching modules on - "*Thermodynamics fundamentals. Analysis of factors contributing to the efficiency of the buildings. Strategies for a correct design of the building envelope and of the air conditioning systems*"
- 2010 Assistant professor in *Thermodynamics fundamentals*, in *Heat transfer fundamentals* and in *Thermophysics of the building and HVAC systems* for bachelor and master students to be specialized in *Energy management* (Master course provided within the SOLAR project financed by the National Ministry of the University).
- 2010 Contract professor of *Energy fundamentals in the Energy management Master* at private training center for post-lauream education CSAD – Center for Studies on Management and Environment in Bari.
- 2009- 2010 Participation as an *Expert member* in the *Professional Engineer at the University of Salento* – for both Senior and Junior engineers.
- 2008 Member of the Technical and scientific committee of *Centro Laser scrl* in Valenzano (BA) as a representative of the University of Salento.
- 2008 He teaches as an *Expert in Air conditioning and Refrigeration systems* at private SMEs courses.
- 2007-2009 *University tutor* for two fellowships activated by the Regional Authority to help young engineers to carry out research projects aimed to develop innovative products in SMEs.
- since 2005 He's responsible for the *Applied Physics* section of the *Interdisciplinary Laboratory of Design and Management of Industrial Plants* at the Department of Engineering for Innovation of the University of Salento. still at present
- 2004 Contract professor of *Acoustic Noise Fundamentals* to students of a *post lauream* and a *Master in Mechatronics* at the Fiat Research Center in Valenzano (BA).
- 2004 Contract professor of *Acoustics Fundamentals* and of *Acoustic insulation* to students of a *Master in Vehicle Engineering* at the University of Salento.
- since 2003 Assistant professor of *Refrigeration techniques* to Mechanics engineering master students at still at present University of Salento.
- since 2003 He's responsible for the *Thermo-energy Lab* at the University of Salento. still at present
- since 2001 He's part in the Board of the professor managing the *Doctorate* in Energy Systems and Environment at the University of Salento. still at present
- 2001-2002 Assistant professor of *Applied Environmental Physics* to Management Engineering master students at the University of Salento.
- since 2000 Assistant professor of *Applied Physics* to Materials, Management and Mechanics to Engineering bachelor students at University of Salento. still at present

PROFESSIONAL MAIN EXPERIENCES

- 2016 *President and Coordinator of the Technical-Scientific Committee of the Regional Productive District of Energy Efficiency and Renewable Energies "La Nuova Energia"* (in English "The new energy"), association among companies of the energy sector in Apulia, recognized by the Regional Public still at present

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| since 2014 still at present | <p>Authority.</p> <p><i>Coordinator of the Research and Development activities</i> of Arrigoni spa in Uggiate Trevano (CO).</p> <p>He's in charge as a qualified consultant for technical support in:</p> <ul style="list-style-type: none"> • defining the public call (Regione Puglia, Regional Apulian Authority) for the "<i>Defense of the Environment</i>" concerning <i>Energy efficiency, Cogeneration and Energy Production from Renewable Sources</i> • answering to FAQ on the same • building up format for the • coordinating an mentoring engineers in charge of making evaluations on program proposals <p>Commissioned by: Pugliasviluppo Spa</p> |
| since 2014 still at present | <ul style="list-style-type: none"> • Senior Consultant of <i>RESOLVO srl</i> in Monopoli (BA) for design and research and development activities • <i>Consultant for PIPEPLAST srl</i> in Monopoli (BA) for research activities . |
| 2011-2013 2010 | <p>Team coordinator for the <i>Feasibility study for the Cold District driven by BRITISH GAS regasifier of Brindisi</i> - Scientific Responsibility: prof. Domenico Laforgia</p> |
| 2010-2013 | <p><i>Senior Manager Consultant</i> for SOCOGES srl in Monopoli (BA).</p> |
| 2009-2013 | <p><i>Coordinator of the Research and Development activities</i> of Socoges srl in Monopoli (BA)</p> |
| 2009-2014 | <p>Consultant for <i>Geatecno srl</i> in Bari for the design and installation of renewable energies systems and for the research activities.</p> |
| 2009 | <p><i>Designer Consultant</i> for Mermec Group Spa srl in Monopoli (BA)</p> |
| since 2008 still at present | <p><i>Coordinator of the Research and Development activities</i> of Sachim srl in Putignano (BA).</p> |
| 2007-2010 | <p>Coordinates and manages the research activities of the Consortium GI_INNOVAZIONE - Prototype of a <i>Wood gasifier and syngas engine based cogenerative system</i>.</p> |
| since 2007 | <p>Author of several software and studies for engineering applications commissioned for particular applications by SMEs.</p> |
| since 2006 still at present | <p><i>Senior Manager Consultant</i> for Sachim srl in Putignano (BA).</p> |
| since 2005 still at present | <p><i>Consultant</i> for Arrigoni Spa for the implementation of the <i>Quality and Environmental system ISO 9001</i> in Uggiate Trevano and Bizzarone (CO).</p> |
| since 2003 still at present | <p><i>Responsible</i> of the <i>Quality and Environmental system (ISO 9001 - ISO 14000 and EMAS III)</i> at SACHIM srl in Putignano (BA)</p> |
| 2000 | <p>Author of the commercial software "<i>CERCAPRODOTTO</i>" (in English: <i>Productfinder</i>) for directions inside large commercial centers (coauthors: Mr. L. De Benedictis, Mr. G. Bassetti)</p> |
| since 2000 still at present | <p>Researcher at University of Salento</p> |
| since 2000 still at present | <p>Design of air conditioning, water, environmental, thermal systems for persons, SME's and for Apulian Regional Authority (Regione Puglia) also as an <i>Expert Consultant</i></p> |
| 1999-2000 | <p>Researcher at ELASIS in Bari - <i>Research center for Diesel engine injection systems</i></p> |
| 1996 | <p>Refrigeration units designer and appointee for the company quality at THERMOCOLD COSTRUZIONI S.R.L. in Modugno (BA)</p> |

PATENTS

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| 2017 | <p>National Italian Patent Application: Rete antipioggia con ordito e/o trama a sezione romboidale Application no. 102017000068976 issued on 21th June 2017. Applicant: Sachim srl Inventors: Mr. Giuseppe Starace, Mr. Marco Lippolis</p> |
| 2016 | <p>PCT Application: Polyethylene support grafted with a PVP Hydrogel Application no. PCT/IB2016/057349 issued on 5th December 2016. Applicant: Sachim srl Inventors: Mrs. Elena Vismara, Mr. Giuseppe Starace, Mr. Paolo Arrigoni</p> |
| 2016 | <p>National Italian Patent Application: Rimozione di ioni metallici da soluzioni acquose mediante l'utilizzo di un supporto in polietilene con innestato un idrogel in PVP (in English: <i>Metallic ions removal from aqueous solutions by a polyethylene support grafted with a PVP hydrogel</i>) Application no. 102016000076409 issued on 27th July 2016. Applicant: Sachim srl Inventors: Mrs. Elena Vismara, Mr. Giuseppe Starace, Mr. Paolo Arrigoni</p> |

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| 2015 | National Italian Patent Application: Supporto in polietilene con innestato un idrogel in PVP (in English: <i>A Polyethylene Support with a PVP Hydrogel mounted on</i>) issued on 28th December 2015. Applicant: Sachim srl Inventors: Mrs. Elena Vismara, Mr. Giuseppe Starace, Mr. Paolo Arrigoni |
| 2011 | National Italian Patent Application (Application No. BA2011A000069): Accoppiamento di un generatore a microonde a refrigeratori domestici ad assorbimento (in English: <i>Coupling of a microwave generator to domestic absorption refrigerators</i>). Issued on 1st December 2011 Applicant and Inventor : Mr. Giuseppe Starace |
| 2010 | PCT Application (Publication No.:WO2010/095025 – Application No.: PCT/IB2010/000328): High performance gasifier equipped with an improved combustion chamber and a mixing device . issued on 19th February 2010 Applicant: SOCOGES srl Inventors : Mr. Giuseppe Starace, Mr. Giovanni Maria Galanto |
| 2002 | National Italian Patent: Electronic device to help handicapped not speaking people Publication No. 0001331842 issued on 19th September 2002 Applicants and Inventors: Mr. Giuseppe Starace, Mrs. Clelia Carella |

EVALUATION ACTIVITIES

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| 2017 | 72nd ATI Congress, September 6-8th September 2017 Lecce (I) - Member of the Scientific Committee, Session Organizer and Chairman : 03 Air conditioning and refrigeration systems. |
| 2015 | Registered in the List of expert evaluators of Research, Development and Innovation for the Regional Authority of Emilia Romagna (calls related to POR FESR 2014-2020) |
| 2014 | Member of the Editorial Advisory Board of the International Research book " <i>Handbook of Research on Advances and Applications in Refrigeration Systems and Technologies</i> (2 Volumes)." IGI Global, 2015. 1-907 - doi:10.4018/978-1-4666-8398-3) -Editors: Gaspar, Pedro Dinis, and Pedro Dinho da Silva |
| 2014 | Registered as expert for the evaluation of public financed investments in Italian cogeneration plants by GSE (Board of components of groups of Inspectors no.3 - High Efficiency Cogeneration Plants). |
| 2012 | Registered in the Board of Technical experts (D.G. no. 8 of 4th December 2012) about research and innovation for Pugliasviluppo Spa. |
| since 2012 still at present | Member of the Editorial Board of the International Journal of Engineering and Technology Innovation (IJETI, Taiwan). |
| since 2012 still at present | Registered in the new Board of Experts ex D.D. 79/2010/Ric for the evaluation of the research and development projects to be funded by the Italian Ministry of the Education, the University and the Scientific Research - MIUR. |
| since 2011 still at present | Registered in the Board of Scientific Research and Technology Evaluators Experts for ARTI Puglia (Regional Agency for the Technology and the Innovation - Apulia Region) |
| since 2011 still at present | Evaluator for Pugliasviluppo spa (Inhouse Company of Apulian Region Government) for investments and R&D activities: <ul style="list-style-type: none"> • Innovative Enterprises (SME) • Innovative Already Active Entreprises (SMEs) • of Small Enterprises (SE) submitting Integrated Funding Programmes |
| since 2009 still at present | He is a FIRB e PRIN research project reviewer (for the Italian Ministry of the Education, the University and the Scientific Research - MIUR). |
| since 2007 still at present | He has been designated as a reviewer by the Editorial Boards of the following international scientific journals: <ul style="list-style-type: none"> • <i>Applied Thermal Engineering</i> (Elsevier – USA, UK) - ISSN 1359-4311 • <i>Applied Energy</i> (Elsevier – USA, UK) - ISSN 0306-2619 • <i>International Journal of Thermal Science</i> (Elsevier – USA, UK). - ISSN 1290-0729 • <i>Energy</i> (Elsevier - USA, UK) - ISSN 0360-5442 • <i>Experimental Thermal and Fluid Science</i> (Elsevier – USA, UK), - ISSN 0894-1777 • <i>Sustainability</i> (MDPI AG - Basel - CH) |

- *Energies* (MDPI AG - Basel - CH),
- *International Journal of Refrigeration* (Elsevier - USA, UK) - ISSN 0140-7007
- *JP Journal of Heat and Mass Transfer* (INDIA),
- *Numerical Heat Transfer* (Taylor and Francis - USA),
- *Journal of Power and Energy* (IMechE - UK)
- *Heat transfer Engineering* (Taylor and Francis - USA)
- *International Journal of Green Energy* (Taylor and Francis - USA)
- *Measurement* (Elsevier - UK)
- *International Journal of Modeling and Simulation* (Acta Press - Canada),
- *International Journal of Heat and Mass Transfer* (Elsevier - USA, UK).
- *Journal of Cleaner Production* (Elsevier - USA, UK)
- *Case Studies in Thermal Engineering* (Elsevier - USA, UK)
- *Thermal Science and Engineering Progress* (Elsevier - USA, UK)

PARTICIPATION TO RESEARCH PROJECTS (ALL ITALIAN PROJECTS)

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| 2017-2020 <i>Preliminary investment plan submitted</i> | R&D Project: Sachim srl: Nuovo approccio ind per tessuti tecnici innovativi (TEXTIL NOVO). Aiuti ai programmi integrati di investimento promossi da Medie imprese (PIA) - Art. 26 del Titolo II Capo 2 del Regolamento regionale della Puglia per gli aiuti in esenzione 30 settembre 2014, n. 17. |
| 2016-2018 | R&D Project: ATTIV'AZIONE: Materiali aumentati tramite attivazione al plasma (Augmented Material by Plasma Activation) – funded by Apulian Regional Authority - Aiuti a sostegno dei Cluster Tecnologici per l'Innovazione - Partnership: Plasmapps srl (head), Cofra srl, SCM Group Spa, Sachim srl, B-Sails di Marco Semeraro, CNR NANOTEC (Istituto di Metodologie Inorganiche e dei Plasmi) |
| 2016-2017 | R&D Project: Si.Pro.Xy.Net — funded by Apulian Regional Authority Partnership: University of Bari (head), University of Foggia, Sachim srl |
| 2014-2015 | R&D Project: Sachim srl: Tessuti a rete innovativi per uso agricolo. Pacchetti integrati di agevolazione (PIA) per Medie Imprese - Titolo V del regolamento generale dei regimi di aiuto in esenzione - Reg. regionale 26 giugno 2008, n.9 |
| 2013 - 2015 | R&D Project: Progetto in ATS tra ENGREEN srl, Università del Salento, Code Engineering srl e Euro Assistance Elettromeccanica srl: KAGEO. Sistema binario a ciclo Kalina per lo sfruttamento della risorsa geotermica a media entalpia ". Bando della Regione Puglia "Partenariati per l'innovazione". P.O. Puglia 2007-2013 - FESR - Asse i – Linea 1.2 Azione 1.2.4 "Aiuti al sostegno dei partenariati regionali per l'innovazione" |
| 2012-2014 | R&D Project: Progetto in ATS tra GEATECNO srl e LASERINN scarl (già CENTRO LASER scarl.): PV TEST. Simulatore solare mobile e verifica di producibilità degli impianti fotovoltaici ". Bando della Regione Puglia "Partenariati per l'innovazione". P.O. Puglia 2007-2013 - FESR - Asse i – Linea 1.2 Azione 1.2.4 "Aiuti al sostegno dei partenariati regionali per l'innovazione" |
| 2012-2013 | R&D Project: Progetto in ATS tra SACHIM e Università del Salento: BIORETI: Tessuti tecnici per il controllo biologico da monofilo a bassa denaturatura. Bando della Regione Puglia "Partenariati per l'innovazione". P.O. Puglia 2007-2013 - FESR - Asse i – Linea 1.2 Azione 1.2.4 "Aiuti al sostegno dei partenariati regionali per l'innovazione" |
| since 2011 | R&D Project: Progetto Università del Salento - TESPI-plus - Sviluppo di un pannello solare ibrido (termico-fotovoltaico) - Bando del "Ministero dell'Ambiente e della Tutela del Territorio e del Mare" per progetti di ricerca finalizzati ad interventi di efficienza energetica e all'utilizzo delle fonti di energia rinnovabile in aree urbane - G.U. n.299 del 23.12.2008. |
| since 2010 | R&D Project: Progetto RESOLVO surl – Avviso "Regione Puglia" Nuove imprese innovative – Generazione di energia da biomassa legnosa e costituzione di un'impresa di progettazione meccanica avanzata. |
| 2009-2013 | R&D Project: Progetto Strategico di ricerca e sviluppo a capo dell'unità DII dell'Università del Salento – Dipartimento di ingegneria dell'innovazione in collaborazione con il Politecnico di Bari e l'Università di Bari dal titolo ECOURB - Analisi e modelli di inquinamento atmosferico e termico per sistemi di Ecolabelling urbano volto al riconoscimento dell'influenza termica del costruito sull'ambiente urbano. |
| 2009-2011 | R&D Project: KAD3 srl – Sistema multigenerazione con cogeneratore policombustibile multifunzione. - Bando Regione Puglia: "Aiuti alla ricerca della PMI" |

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| 2009-2011 | R&D Project: Sachim srl – Ottimizzazione del ciclo per la produzione di tessuti tecnici con l'adozione di macchinari innovativi. Bando Regione Puglia: "Aiuti alla ricerca della PMI" |
| 2009-2011 | R&D Project: Socoges srl - Controllo e gestione di sistemi cogenerativi a biomasse ligno-cellulosiche - Bando Regione Puglia: "Aiuti alla ricerca della PMI" |
| 2007-2008 | R&D Project: – Consorzio GI Innovazione (PIA Innovazione – PIT n.5): Sistema integrato gassificatore-motore per l'utilizzo di biomasse ligno-cellulosiche in assetto cogenerativo. |
| 2006-2008 | R&D Project: ESPLORATEX – ATS tra l'Università del Salento e SACHIM srl: Miglioramento del processo produttivo per la produzione di monofilamenti polietilenici di qualità elevata e relative applicazioni tessili. |
| since 2009 | R&D Project: Laboratori Solari - Università del Salento |
| 2005 -2007 | R&D Project: POR 2000-2006 - misura 3.13 - Progetto SPINEL srl – Macchina da caffè a cialda altamente innovativa |
| 2005-2007 | R&D Project: POR 2000-2006 - misura 3.13 - Progetto STIM, Enginsoft, P.I.T.I.S. CFD – Progettazione integrata con tecniche di ingegneria della sicurezza & Computational Fluid Dynamics |
| 2005 | R&D Project: D&D srl (598 – rendicontazione) – Nuove tecnologie per il controllo e la teleassistenza dei sistemi a propulsione in applicazioni navali |
| 2004 -2006 | R&D Project: SACHIM srl (l. 598/94) Nuovo processo produttivo per bandella di polietilene di qualità e relative applicazioni tessili |
| 2005-2006 | R&D Project: L. 598/94 Regione Puglia - Stim Engineering srl – Studio e Sviluppo di un sistema di abbattimento dei rumori |
| 2004-2005 | R&D Project: SETE - Università del Salento – Sviluppo di un sistema combinato di microgenerazione ad impatto ambientale trascurabile: solare, eolico e termofotovoltaico |
| 2004 -2005 | R&D Project: EMC snc Service – (PIA Innovazione) - Sviluppo di una linea di convertitori statici per medie potenze con nuove metodologie di progettazione |
| 2004 | R&D Project: Thermocold Costruzioni srl. (PIA Innovazione – PIT n.3) - Sistema idronico centralizzato e modulare a controllo elettronico evoluto per la gestione integrata delle necessità termiche estive e invernali degli edifici. |
| 2003-2005 | R&D Project: I.297/99 - Cog srl – Sviluppo di un intercooler ad alta turbolenza, bassa tendenza all'intasamento e sviluppo della relativa tecnologia di produzione mediante brasatura (CO.A.T.) |
| 2003-2004 | R&D Project: FIRB - Università del Salento – Sviluppo di tecniche di diagnostica Laser per lo studio della combustione e dei fenomeni di autoaccensione |
| 2002 - 2011 | R&D Project: L.297/99 Thermocold Costruzioni srl – Sviluppo di pompe di calore con ciclo a compressione di vapore ad alto coefficiente di prestazione e basso impatto ambientale |

PUBLICATIONS

updated/checked on October 25th, 2017

2017

| | |
|---------------------------|---|
| October | Invited speaker (in Italian): <i>Le recenti azioni regionali in tema di energia</i> in giornata di studio "Riqualificare efficientando" - 17th October 2017 - Sala Aldo Cossu, Palazzo Ateneo, Università di Bari - Bari (Italy) Presenter: G. Starace |
| October in publication | Research paper on International Journal: <i>Experimental Investigations on Evaporative Condensers Performance</i> Energy Procedia - Elsevier (UK) Authors: M. Fiorentino, G. Starace |
| October under review | Research paper on International Journal: <i>The Design of Countercurrent Evaporative Condensers with the Hybrid Method</i> Applied Thermal Engineering - Elsevier (UK) Authors: M. Fiorentino, G. Starace |
| September | Research paper at National Congress: <i>Sensitivity Analysis of Evaporative Condensers Performance Using an Experimental Approach</i> Energy Procedia -Volume 126, September 2017, Pages 345–352 - Elsevier (UK) |

Special issue: 72nd Italian Congress, ATI 2017, September 6-8, 2017 Lecce (Italy)
doi: [10.1016/j.egypro.2017.08.232](https://doi.org/10.1016/j.egypro.2017.08.232)
Authors: *M. Fiorentino, G. Starace*

Invited speaker (in Italian):
Le energie rinnovabili nello sviluppo industriale del territorio
September in "Le politiche e le best practices regionali di efficientamento energetico: un esempio condiviso di innovazione tecnologica e sostenibilità ambientale" - 13th September 2017 Fiera del levante - Bari (Italy)
Presenter: *G. Starace*

Research paper at National Congress:
Sensitivity Analysis of Evaporative Condensers Performance Using an Experimental Approach
September 72nd Italian Congress, ATI 2017, September 6-8, 2017 Lecce (Italy)
Authors: *M. Fiorentino, G. Starace*
Presenter: *G. Starace*

Research paper on International Journal:
Experimental Investigations on Air Side Heat and Mass Transfer Phenomena in Evaporative Condensers
September Journal of Heat and Technology - IIETA (Canada); Vol. 35, Special Issue 1, September 2017, ISSN: 0392-8764
DOI: [10.18280/ijht.35Sp0154](https://doi.org/10.18280/ijht.35Sp0154)
ISSN: 0392-8764
Authors: *M. Fiorentino, G. Starace*

Research paper on International journal (presented at the International Symposium on New Technologies and Management for Greenhouses - GreenSys2015):
Evaluation of plastic nets air flow performance in a micro wind tunnel
July Acta Horticulturae 1170, 353-358 - International Society for Horticultural Science
DOI: [10.17660/ActaHortic.2017.1170.43](https://doi.org/10.17660/ActaHortic.2017.1170.43)
ISSN: 05677572
ISBN: 978-946261166-5
Authors: *S. Castellano, G. Starace, L. De Pascalis, M. Lippolis, G. Scarascia Mugnozza*

Poster at International Conference:
Numerical Study of Al₂O₃ Nanofluid Coolant for Pebble Bed Reactor
July International Conference on Petrochemical Engineering - July 10-12, 2017 Dubai, UAE
Authors: *M.S.Latifi, G. Starace*
Presenter: *M.S.Latifi*

Poster at International Conference:
Evaluation of Rain Permeability of Agricultural Nets: First Experimental Results
July In Proceedings of the 11th International AIIA Conference: "Biosystems Engineering addressing the human challenges of the 21st century", July 5-8, 2017, Bari (I)
Authors: *S. Castellano, M. Lippolis, M. De Musso, G. Starace*
Presenter: *S. Castellano*

Research paper at International Conference:
Testing of Net Based Protection Systems against the Vector of Xylella fastidiosa
July In Proceedings of the 11th International AIIA Conference: "Biosystems Engineering addressing the human challenges of the 21st century", July 5-8, 2017, Bari (I)
Authors: *S. Castellano, A.M. Di Palma, S. G. Germinara, M. Lippolis, G. Scarascia Mugnozza, G. Starace*
Presenter: *S. Castellano*

Invited speaker:
Apulian Collaborations and Activities on R&D Energy Issues
July 7th July 2017 ASTANA (Kazakhstan) Expo "Future Energy"
Author: *G. Starace*
as President of the Scientific Committee of the Apulian Productive District of Renewable Energy and Energy Efficiency "La Nuova Energia".
Press release links:
www.sistema.puglia.it
www.internazionalizzazione.it
Regioni.it

Research paper at International Conference:
Experimental Investigations on Air Side Heat and Mass Transfer Phenomena in Evaporative Condensers
June 2nd AIGE/IIETA 2017 International Conference and 11th AIGE 2017 National Conference - Energy Conversion, Management, Recovery, Saving, Storage and Renewable Systems, Genoa (Italy) June 12 – 13, 2017
also in Journal of Heat and Technology - IIETA (Canada)
Authors: *M. Fiorentino, G. Starace*
Presenter: *M. Fiorentino*

Research paper at International Conference:
Experimental Investigations on Evaporative Condensers Performance
May 50th AICARR International Conference, 10-11 May, Matera (I)

also in Energy Procedia - Elsevier (UK)
Authors: *M. Fiorentino, G. Starace*
Presenter: *M. Fiorentino*

2016

| | |
|-----------|---|
| December | <p>Research paper on International Journal published after the presentation in International Conference: <i>Numerical and Experimental Performance Analysis of Evaporative Condensers</i> Energy Procedia - Elsevier (UK) DOI:10.1016/j.egypro.2016.11.004 also in 71st Conference of the Italian Thermal Machines Engineering Association (ATI2016)14-16 September, Turin(I) Authors: <i>M. Fiorentino, G. Starace</i></p> |
| October | <p>Research Paper on international Journal: <i>A Hybrid Method for the Cross Flow Compact Heat Exchangers Design</i> Applied Thermal Engineering - Elsevier (UK) doi: 10.1016/j.applthermaleng.2016.10.018 Authors: <i>G. Starace, M. Fiorentino, M. P. Longo, E. Carluccio</i></p> |
| October | <p>Research paper on International Journal: <i>Experimental Results on Air Permeability of Agricultural Nets</i> Journal of Agricultural Engineering (JAE) - vol.LVII:542 [vol. 3 (2016)] - Bologna (I) doi:10.4081/jae.2016.542 Authors: <i>S.Castellano, G. Starace, L. De Pascalis, M. Lippolis, G. Scarascia Mugnozza</i></p> |
| September | <p>Research paper at International Conference: <i>Numerical and Experimental Performance Analysis of Evaporative Condensers</i> 71st Conference of the Italian Thermal Machines Engineering Association, ATI2016, 14-16 September, Turin (I) Authors: <i>M. Fiorentino, G. Starace</i> Presenter: <i>M. Fiorentino</i></p> |
| August | <p>Research paper on International Journal: <i>Test Results and Empirical Correlations to Account for Air Permeability of Agricultural Nets</i> Biosystems Engineering (2016), pp. 131-141 - Elsevier (UK) doi: 10.1016/j.biosystemseng.2016.07.007 Authors: <i>S.Castellano, G. Starace, L. De Pascalis, M. Lippolis, G. Scarascia Mugnozza</i></p> |
| August | <p>Research paper on International journal: <i>Experimental Measurements of Al₂O₃ and CuO Nanofluids Interaction with Microwaves</i> Journal of Energy Engineering - American Society of Civil Engineers doi 10.1061/(ASCE)EY.1943-7897.0000400, 04016045. ISSN (print): 0733-9402 ISSN (online): 1943-7897 Authors: <i>G. Colangelo, E. Favale, M. Milanese, A. de Risi, G. Starace</i></p> |
| July | <p>Article in book (in Italian): <i>Un metodo per l'analisi dei fabbisogni termici in serricoltura e la valutazione dell'utilizzo di pompe di calore geotermiche. Sintesi, introduzione, metodologia, principali risultati e conclusioni.</i> Authors: <i>S. D'Arpa, D. E. Bruno, G. Colangelo, G. Starace, I. Petrosillo, V. F. Uricchio, G. Zurlini</i> pages 309-312 in: <i>La ricerca sulle acque e le nuove prospettive di valorizzazione dei risultati in ambito pubblico e privato</i> - Cacucci Editore, Bari (I); edited by <i>E. Brugnoli, V. F. Uricchio</i> ISBN 978-88-6611-516-8</p> |
| June | <p>Interview on the Internet (in Italian) when Giuseppe Starace was appointed as President and Coordinator of the Technical and Scientific Committee of the Apulian Productive District "La Nuova Energia" (www.lanuovaenergia.it): Press release links: Tekneco (in Italian) Barinews24 (in Italian) Il Giornale del Sud (in Italian) Il Corriere Nazionale (in Italian)</p> |
| May | <p>Invited speaker (in Italian): <i>Scambiatori di calore a terreno</i> 2nd Seminar – TECNICHE E TECNOLOGIE PER L'EFFICIENZA ENERGETICA 26th May Sala Consiliare Provincia di Matera - Matera (I) Link on the Internet (click here). The bill (click here) Author: <i>G. Starace</i></p> |
| May | <p>Research Paper on International Journal: <i>A Numerical Investigation on the Influence of Porosity on the Steady State and Transient Thermal-Hydraulic Behaviour of the PBMR.</i> Journal of Heat Transfer - ASME (USA)</p> |

doi:10.1115/1.4033544
Authors: *M. Sadat Latifi, S. Setayeshi, G. Starace, M. Fiorentino*

February
Research paper on International Journal:
Thermography-enhanced LCA (Life Cycle Assessment) for manufacturing sustainability assessment. The Case Study of an HDPE (High Density Polyethylene) Net Company in Italy.
Energy - Elsevier (UK)
doi: 10.1016/j.energy.2016.01.043
Authors: *F. Intini, M. Chimienti, M. Dassisti, G. Starace*

2015

December
Research Paper on International Journal:
Numerical Investigations on Two-Phase Flow Modes in Evaporative Condensers
Applied Thermal Engineering (2016), pp. 777-785 - Elsevier (UK), ISSN 1359-4311
doi: 10.1016/j.applthermaleng.2015.10.099
Authors: *M. Fiorentino, G. Starace*

December
R&D article (on the Internet):
Italy: Air Permeability on Arrigoni Nets
Hortidaily: www.hortidaily.com/

December
R&D article on the Internet (In Italian):
La misura della permeabilità all'aria delle reti Arrigoni: come funziona e a cosa serve
Freshplaza: www.freshplaza.it

December
Research paper (available on the Internet):
Simulatore solare mobile innovativo per l'analisi in situ dell'efficienza di moduli fotovoltaici
Tekneco.it - www.tekneco.it - Lecce (Italy) (in Italian)
Authors: *F. Capezzuto, G. Starace*

Correlated internet article with cited words:
Fotovoltaico, nasce il simulatore solare mobile
Tekneco.it - Lecce (Italy) (in Italian)
Author: *Sergio Ferraris*

November
Research Paper on international Journal:
Heating Requirements in Greenhouses Farming in South of Italy: Evaluation of Ground Source Heat Pump Utilization. Journal of Energy Efficiency - Springer Netherlands - ISSN: 1570-6478
doi: 10.1007/s12053-015-9410-y
Authors: *S. D'Arpa, I. Petrosillo, V. Uricchio, G. Zurlini, G. Colangelo, G. Starace*

July
Poster and article at an International Conference:
Evaluation of Plastic Nets Performance in Micro Wind Tunnel
GreenSys2015 - International Symposium on New Technologies and Management for Greenhouses - Evora (Portugal)
Authors: *S.Castellano, L. De Pascalis, M. Lippolis, G. Scarascia Mugnozza, G. Starace*
Presenter: *S. Castellano*

July
Research paper at an International Conference:
Experimental Setup for Investigation on Microwaves Interaction with Nanofluids
NANOFIM 2015 - Nanotechnology for Instrumentation and Measurement Workshop - July 24-26, 2015 - Lecce (I)
Authors: *G. Colangelo, E. Favale, M. Milanese, A. de Risi, G. Starace*
Presenter: *G. Colangelo*

July
Chapter in an International Research Book:
The Diffusion Absorption Refrigerator Operation and Performance
(Chapter no.2 in Gaspar, Pedro Dinis, and Pedro Dinho da Silva. "*Handbook of Research on Advances and Applications in Refrigeration Systems and Technologies* (2 Volumes)."
IGI Global, 2015. 1-907)
doi:10.4018/978-1-4666-8398-3
ISBN13: 9781466683983
ISBN10: 1466683988
EISBN13: 9781466683990
Authors: *L. De Pascalis, F. Carluccio, G. Starace*

2014

November
Research paper on International Conference:
Thermography Increases LCA Reliability: a Case Study of a Process for HDPE Nets -
Proceedings of SEEP_7th International Conference on Sustainable Energy & Environmental Protection, Dubai, Nov 2014 - Edited by The British university in Dubai (BUiD) - UAE Dubai Academic City.
ISBN 978-1-903978-49-8
Authors: *F. Intini, M. Chimienti, M. Dassisti, L. Ranieri, G. Starace*
Presenter: *M. Dassisti*

November
Invited speaker (in Italian):

Scambiatori di calore a terreno

3° WORKSHOP – Geotermia: tecnologie ed esperienze di incentivazione - 28th November UNA Hotel Regina - Noicattaro (BA)

doi:10.13140/RG.2.2.11925.52966

The Press release of the workshop (pdf file)

Author: G. Starace

- November
Research paper on International Journal:
Development of Antibacterial Silver Treatments on HDPE Nets for Agriculture
Journal of Applied Polymer Science - Wiley
doi: 10.1002/app.41623
Authors: S. De Simone, F.A. Lombardi, F. Paladini, A. Sannino, M. Pollini, G. Starace
- October
Interview on the Internet (in Italian):
Il futuro della refrigerazione passa da R&S
ZERO SOTTO ZERO (a technical magazine dealing with commercial and industrial refrigeration). No. 2014/8
Year XIII pages 46-52 - Tecniche Nuove, Milan (I)
Author: G. Starace
- July 25th - 27th
Research paper on International Conference:
A Numerical Model to Investigate Evaporative Condenser Behaviour at Tube Scale - (ASME 2014 12th Biennial Conference on Engineering Systems Design and Analysis - Copenhagen DK):
Volume 3: Engineering Systems; Heat Transfer and Thermal Engineering; Materials and Tribology; Mechatronics; Robotics - Paper no. ESDA2014-20483, pp. V003T12A015; 7 pages.
doi:10.1115/ESDA2014-20483
ISBN: 978-0-7918-4585-1; Code 109066
Authors: M. Fiorentino, G. Starace
Presenter: M. Fiorentino
- June 23rd - 25th
Research paper on International Conference :
Simulation Studies on GAX and GAX Hybrid Absorption Refrigeration Cycles
32nd UIT 2014 - Pisa (I)
Authors: F. Carluccio, G. Colangelo, G. Starace
Presenter: F. Carluccio
- March 31th - April 2nd
Research paper on International Conference:
Modeling and Simulation of a Gas Absorption Heat Pump
International Sorption Heat Pump Conference, 2014 - Washington USA - University of Maryland
Coauthors: Carluccio F., Bongs C., G. Starace (Fraunhofer Institute in Freiburg).
Presenter: F. Carluccio

in *International Sorption Heat Pump Conference (ISHPC 2014)*
Proceedings of a meeting held 30 March - 2 April 2014, College Park, Maryland, USA
ISBN: 978-1-6326-6596-6 - pages 927-936, Vol 1 -
Center for Environmental Energy Engineering (CEEE) -Curran Associates, Inc. (Aug 2014)

2013

- August
Internet article with interview to G. Starace (in Italian):
Dopo l'Iva di Taranto Arrigoni punta a realizzare una rete in tessuto unico al mondo
Journalist: Domenico Megali
Business International Magazine. Milan (I)
Available on the Internet here
Available also here
- March
Research paper on International Journal
An Enhanced Model for the Design of Diffusion Absorption Refrigerators
International Journal of Refrigeration - Elsevier UK:
doi:10.1016/j.ijrefrig.2013.02.016
Authors: L. De Pascalis, G. Starace

2012

- September
Research paper on a National Journal (in Italian):
Controllo automatico di un impianto di gassificazione di biomassa lignocellulosica.
La Termotecnica (ISSN 0040-3725) - Milan (I)
Authors: M. Potenza, F. Naccarato, G.M. Galanto, G. Starace
- April
Research paper on International Journal:
Performance Analysis of Two Industrial Dryers (Cross Flow and Rotary) for Ligno-Cellulosic Biomass Desiccation. Renewable Energy & Power Quality Journal (RE&PQJ) -Spain- European Association for the Development of Renewable Energies, Environment and Power Quality (EA4EPQ) - 292
ISSN 2172-038X
Authors: N. Cairo, G. Colangelo, G. Starace
- April
Research paper on a Italian Journal (in Italian):

Un tool in matlab-simulink per la simulazione di pompe di calore geotermiche -

La Termotecnica - Milano

Authors: G. Colangelo, A. de Risi, D. Laforgia, D. Romano, G. Starace

Exercise book (in Italian):

March *Fisica Tecnica. 120 esercizi svolti e proposti.* McGrawHill Italia – Milano.
Authors: G. Colangelo, L. De Pascalis, G. Starace.

Research paper at an International Conference:

Performance Analysis of two Industrial Dryers (Cross Flow and Rotary) for Ligno-Cellulosic Biomass Desiccation.

March International Conference on Renewable Energies and Power Quality (ICREPQ'12)
Santiago de Compostela (ES)
Authors: N. Cairo, G. Colangelo, G. Starace
Presenter: G. Colangelo

2011

Research paper on International Journal:

An Advanced Analytical Model of the Diffusion Absorption Refrigerator Cycles.

December International Journal of Refrigeration - Elsevier (UK)
doi:10.1016/j.ijrefrig.2011.11.007
Authors: L. De Pascalis, G. Starace

Research paper on International Journal:

Simulations of Horizontal Ground Heat Exchangers: a Comparison among Different Configurations.

September Applied Thermal Engineering - Elsevier UK -Volumes 33-34, February 2012, Pages 24-32
doi: 10.1016/j.applthermaleng.2011.09.005
Authors: P.M. Congedo, G. Colangelo, G. Starace

Research paper at Italian Congress (in Italian):

Un nuovo pannello solare termico a nanofluidi,
in: 66° Congresso Nazionale ATI.

September Università della Calabria Rende (CS), 5-9 September 2011
Authors: G. Colangelo, E. Favale, A. de Risi, D. Laforgia, G. Starace

Handbook (in Italian):

Refrigerazione ad assorbimento.

September Editoriale Delfino – Collana AICARR, vol 14- Milan (I)- ISBN 978-88-97323-04-4
Authors: L. De Pascalis, G. Starace

Research paper on a Italian Journal (in Italian):

Un nuovo metodo di calcolo del rendimento globale di un compressore scroll a velocità variabile.
Tekneco vol. 04/11 - Lecce (I).

August Available on the Internet: <http://www.tekneco.it/energia/un-nuovo-metodo-di-scelta-dei-compressori-scroll-a-velocita-variabile/>
Authors: L. De Pascalis, G. Starace
Presenter: L. De Pascalis

Invited oral Presentation (in Italian) by G. Starace:

Le Tecnologie del freddo e le potenzialità del loro sfruttamento nel territorio di Brindisi

May During the meeting: Le tecnologie del freddo a servizio del territorio organized by Brindisi LNG in collaboration with University of Salento.
Author: G. Starace

Research paper on a Italian Journal (in Italian):

Bonifica acustica/2 – Progettazione e verifica per risanare,

March/April Lavoro Sicuro (Ambiente e Sicurezza) – Il Sole 24 Ore, 2, XII-XXII - Milan (I)
Authors: L. De Pascalis, S. Scardia, G. Starace

Research paper on Italian journal (in Italian):

Bonifica acustica/1 – La tecnica intensimetrica per caratterizzare le sorgenti sonore,

March/April Lavoro Sicuro (Ambiente e Sicurezza) – Il Sole 24 Ore, 2, V-X - Milan (I).
Authors: L. De Pascalis, S. Scardia, G. Starace

2010

Research paper on a National Journal (in Italian):

Impianti integrati solari e geotermici: un'analisi prestazionale

June in La Termotecnica – Giugno 2010 – Milano
Authors: G. Colangelo, F. Carluccio, G. Starace

Research paper on a National Journal:

EGR Valve Thermal Behaviour: Theoretical and Experimental Analysis

June ATA Ingegneria dell'autoveicolo - Vol. 63 5/6 maggio-giugno 2010 - Turin (I)
Authors: M. Grato, C. Genco, G. Starace

Research paper on a National Journal (in Italian):

March

Modello matematico per la progettazione di scrubber ad acqua verticali
in La Termotecnica – Milan (I)
Authors: G. Colangelo, M. Fiorentino, G. Starace

2009

- September
Research paper at National Congress (in Italian):
Analisi e studi relativi all'ottimizzazione di un impianto di gassificazione e cogenerazione a biomasse lignocellulosiche
in: 64° Congresso Nazionale ATI. L'Aquila, 8-12 settembre, L'Aquila – Libreria Universitaria Benedetti, p. 09-05-03
ISBN/ISSN: 978-88-87182-37-8
Authors: A. Cai, P. Carlucci, G. Colangelo, M.G. De Giorgi, A. De Luca, D. Laforgia, G. Minosi, A. Nuzzo, A. Scarlo, G. Starace
- September
Research paper at National Congress (in Italian):
Modellazione di una pompa di calore ad assorbimento elio assistita.
In: 64° Congresso Nazionale ATI. L'Aquila, 8-12 settembre L'Aquila – Libreria Universitaria Benedetti, p. 09-11-03-, ISBN/ISSN: 978-88-87182-37-8
DOI: 10.13140/RG.2.1.1461.5523
Authors: A. Moscaggiuri, P. M. Congedo, A. Ficarella, G. Starace
- February
Invited oral presentation (in Italian):
La tecnologia del fotovoltaico e le sue opportunità
(The photovoltaic technology and its opportunities)
Presentation on an innovative energy production photovoltaic system supplying an industrial plant in Rutigliano (BA) - 28.2.2009, Italy
Author: G. Starace
- January
Research paper on Journal:
A comparison between intensimetric and traditional techniques.
AE PARTS & COMPONENTS FOR HOUSEHOLD APPLIANCES. - Anno 4, N.4
Authors: L. De Pascalis, G. Starace

2008

- December
Technical Note on National Journal (in Italian):
Caratterizzazione acustica di un chiller mediante tecnica intensimetrica.
Rivista Italiana di Acustica. Vol 32, 4.pp.43-49
Authors: L. De Pascalis, G. Starace
- June and November
Research paper International Conference (in Italian):
Impianto integrato a pompa di calore con scambiatore geotermico e collettore solare termico per la climatizzazione civile.
Convegno Internazionale AICARR - Riduzione dei fabbisogni, recupero di efficienza e fonti rinnovabili per il risparmio energetico nel settore residenziale - Padova, Catania, Bari
Authors: M. Ranieri, G. Colangelo, G. Starace
- May
Invited oral presentation at International Congress:
The Geothermal Heat Pumps Technology Status -
International Congress "SUNLIFE Renewable Energy: from the past towards the Future" - Lecce (I)
Authors: G. Colangelo, P.M. Congedo, G. Starace

2007

- September
Research paper at International Conference:
Computational Modeling and Sensitivity Analysis of Horizontal Helical Heat Exchangers for GSHPs.
CLIMAMED 2007 Conference. AICARR. Genova (I)
Authors: G. Colangelo, P.M. Congedo, G. Starace
- September
Research paper at International Conference:
Energy and Exergy Efficiency Comparison among Innovative Heat Pumps Solutions for Buildings.
CLIMAMED 2007 Conference - AICARR. Genova.
Authors: L. De Pascalis, G. Starace
- August
Research paper at International Congress:
Computational Modeling and Sensitivity Analysis of Horizontal Slinky Heat Exchangers for GSHPs.
22nd IIR International Congress of Refrigeration. BEIJING (China).
Authors: G. Colangelo, P. M. Congedo, G. Starace
- June and October
Research paper at National Congress (in Italian):
Analisi di possibili soluzioni da fonte rinnovabile nella climatizzazione residenziale e domestica.
ENERGIE RINNOVABILI: TECNICHE E POTENZIALITA' - AICARR. Padova, Catania, Bari (I)
Authors: M. Ranieri, G. Starace

2006

- August - September
Research paper at International Conference:
Variable Speed Scroll Compressor's Effective Energy Efficiency in Continuous Load Adjusting Chillers: a New Design Method
SET2006 – 5th International Conference on Sustainable Energy Technologies, Vicenza (I)
ISBN 978-88-89884-05-8
Authors: *L. De Pascalis, G. Starace*
- August
Research paper at International Conference:
Automotive Compact Supercharge-Air Intercooler Numerical Analysis
Proceedings of IHTC-13 International Heat Transfer Conference Sidney, Australia - in *Annals of IHTC-13* - Begell House inc.- DOI:10.1615/IHTC13.p22.330
Authors: *E. Carluccio, D. Laforgia, G. Starace*
- July
Research paper at International Conference:
Numerical and Experimental Characterization of a Plate Compact Multipass Counter Flow and Locally Cross-Flow Recuperator
Proceedings of ESDA2006 8th Biennial ASME Conference on Engineering Systems Design and Analysis, Paper no. ESDA2006-95604 pp. 383-390 - ISBN 0-7918-3779-3; Torino (Italy)
doi: [10.1115/ESDA2006-95604](https://doi.org/10.1115/ESDA2006-95604)
Authors: *P. M. Congedo, G. Starace*
- May
Research paper at International Conference:
Computational Sensitivity Analysis of Horizontal Heat Exchangers for GSHP, ASME-ATI Conference – Energy: Production, Distribution and Conservation, Milan (I)- Vol.I, pp.467-476- ISBN 978-88-89884-03-4.
Authors: *P. M. Congedo, G. Colangelo, G. Starace*

2005

- November
Invited speaker at a national Congress (in Italian):
Pompe di calore geotermiche
Congress organized by CONI - Le moderne tecnologie e la gestione degli impianti sportivi - 24th Nov.2005 in Lecce (I)
Author: *G. Starace*
- September
Research paper on International Journal:
Numerical Analysis of a Cross-Flow Compact Heat Exchanger for Vehicle Applications - Applied Thermal Engineering – Elsevier 25.
DOI: [//dx.doi.org/10.1016/j.applthermaleng.2004.11.013](https://dx.doi.org/10.1016/j.applthermaleng.2004.11.013)
Authors: *E. Carluccio, A. Ficarella, D. Laforgia., G. Starace*
- September
Research paper (in Italian):
Efficienza e costi legati all'adozione degli scambiatori di calore orizzontali in impianti con pompe di calore geotermiche
Italian National Congress ATI 2005 – Rome (I).
Authors: *P. M. Congedo, G. Colangelo, G. Starace*
- June
Research paper at International Conference:
Horizontal Heat Exchangers for GSHP. Efficiency and Cost Investigation for Three Different Applications ECOS 2005 – Trondheim (Norway).
Authors: *P. M. Congedo, G. Colangelo, G. Starace*
- May
Translation from English to Italian of most of the handbook (7 chapters) of Applied Thermodynamics for engineers
"Thermodynamics and Heat Transfer" (to Termodinamica e trasmissione del calore)"- II ed. - Çengel - McGrawHill, October 1998, edited by Ettore Cirillo.
Author: *G. Starace*

2004

- September
Research paper at National Congress (in Italian):
Impianto a flusso continuo per lo studio di flussi liberi bifasici reattivi in condizioni di alte pressioni e temperature - 59° Congresso Nazionale ATI – Genova (I), pp. 1135-1143.
Authors: *P. M. Congedo, A. de Risi, D. Laforgia, G. Starace*
- September
Research paper at National Congress (in Italian):
Numerical Characterization of a plate compact multipass counterflow and locally cross flow recuperator
59° Congresso Nazionale ATI - Genova (I), pp. 2021-2028.
Authors: *P. M. Congedo, D. Laforgia, G. Starace*

2003

- October
Research paper on International Journal:

Thermo-Fluid-Dynamic Investigation of a Dryer Using Numerical and Experimental Approach
Journal of Food Engineering, Elsevier (UK)
vol.59, i.4, pp. 413-420
doi: [10.1016/S0260-8774\(02\)00500-9](https://doi.org/10.1016/S0260-8774(02)00500-9)
Authors: A. Ficarella, A. Perago, D. Laforgia, G. Starace

September
Research paper at a National Congress (in Italian):
Analisi delle prestazioni di uno scambiatore di calore compatto a flussi incrociati
ATI, 58° Congresso Nazionale - San Martino di Castrozza (TN)
Authors: A. Ficarella, E. Carluccio, D. Laforgia, G. Starace

June and
October
Research paper at a National Congress (in Italian):
Le pompe di calore geotermiche
AICARR, Convegno AICARR -Le moderne tecnologie negli impianti e nei componenti per il riscaldamento Padova, Bari, Catania (I).
Author: G. Starace

2002

September
Research paper at a National Congress (in Italian):
Indagine termofluidodinamica di un essiccatore industriale con approccio numerico e sperimentale -57°
Congresso Nazionale ATI-Pisa - pubblicato anche su Tecnica Molitoria Anno 53. n.9 settembre 2002.
Authors: A. Ficarella, A. Perago, D. Laforgia, G. Starace

September
Research paper at a National Congress (in Italian):
Analisi numerica delle prestazioni di uno scambiatore di calore compatto a flussi incrociati per uso industriale
ATI, 57° Congresso Nazionale - Pisa (I).
Authors: A. Ficarella, E. Carluccio, D. Laforgia.

July
Research paper at International Conference:
Thermo-Fluid-Dynamic Investigation of a Dryer Using Numerical and Experimental Approach
Proceedings of ECOS 2002 - Berlino (D), 3-5th July 2002.
Authors: A. Ficarella, A. Perago, D. Laforgia, G. Starace

1999

December
Cd-Rom ipertestuale (in Italian) conclusivo di collezione e presentazione delle relazioni del
Piano Energetico Regionale (PER) pugliese nell'ambito dell'attribuzione dei finanziamenti POP e della
collaborazione tra Regione Puglia e Politecnico di Bari.
Author: G. Starace

1998

October
Translation (English to Italian) by G. Starace of a large part of the text:
Thermodynamics and heat transfer to Termodinamica e trasmissione del calore
Çengel - McGrawHill, (I ed.),
A basic handbook for undergraduate student of mechanical engineering edited by E. Cirillo.

September
Research paper at National Congress (in Italian):
Metodologia sperimentale di caratterizzazione degli spray prodotti da iniettori Diesel con sistemi di iniezione tradizionali e di tipo Common-Rail
Congresso Nazionale ATI - Firenze.
Authors: D. Laforgia, G. Starace

September
Research paper at National Congress (in Italian):
Laser induced gratings: studio e applicazione di nuove tecniche di diagnostica per l'analisi della combustione
Congresso Nazionale ATI - Firenze.
Authors: A. de Risi, D. Laforgia, G. Starace.

March
Poster at International Congress:
A Preliminary Study on the Application of LITGS to Temperature and Fuel Distribution Measurements in Diesel Engines
XVII European CARS Workshop, Besançon - Francia.
Authors: A. de Risi, D. Laforgia, M. Giorgi, R. Fantoni, G. Starace

February
Research paper at National Congress (in Italian):
Caratterizzazione sperimentale degli spray prodotti da elettro-iniettori Diesel con sistema di iniezione tipo Common-Rail
Atti della Giornata di Studio - MIS-MAC V - Metodi di Sperimentazione nelle Macchine
University of Tor Vergata - Rome (I).
Authors: D. Laforgia, G. Starace

1997

February
Research paper at International Conference:
Experimental Investigation of the Sprays of an Axi-Symmetric Nozzle of a Common-Rail High Pressure Electro-Injector

SAE Technical paper 970054;
in Fuel Spray Studies (SP-1219) - SAE (Society of Automotive Engineering).
doi:10.4271/970054
Authors: *D. Laforgia, A. Ficarella, V. Damiani, G. Starace*

Research Profiles over the Web

Google Scholar profile of Giuseppe Starace - <http://scholar.google.it/citations?user=tMPi44cAAAAJ&hl=en>

ORCID link - Profile of Giuseppe Starace- <http://orcid.org/0000-0003-4272-7104>

RESEARCH GATE link - Profile of Giuseppe Starace - https://www.researchgate.net/profile/Giuseppe_Starace3/?ev=hdr_xprf



Bari, October 25th, 2017