

Curriculum Vitæ – Giovanni Capurso

Polytechnic Department of Engineering and Architecture – University of Udine

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Education

- Training (24 credits) in basic anthropological, psycho-pedagogy disciplines, teaching methodologies and technologies.
January 2020 – June 2020
University of Padova
- **Ph. D.** in Materials Science and Engineering
January 2010 – December 2012 (dissertation held on 08.04.2013)
Doctoral School in Materials Science and Engineering – University of Padova (Padova, Italy)
Thesis title: *Innovative Materials and Systems for Solid State Hydrogen Storage*
Advisors: Prof. Amedeo Maddalena and Prof. Giovanni Principi
- Visiting Ph. D. Student
September 2011 – February 2012
HZG – Helmholtz-Zentrum Geesthacht (Geesthacht, Germany)
Project title: Static and dynamic performance tests on room temperature hydride tank
Advisor: Dr. Martin Dornheim and Dr. Gustavo A. Lozano.
- **M. S.** (“Laurea specialistica”) Materials Science and Engineering (110/110 *cum laude*)
October 2006 – April 2009
University of Padova (Padova, Italy)
Thesis title: *Development of an experimental system for solid-state hydrogen storage*
- Education Abroad Program
September 2006 – June 2007
University of California, Los Angeles (UCLA); Los Angeles, CA, U.S.A.
- **B. S.** (“Laurea triennale”) Materials Engineering (110/110 *cum laude*)
October 2003 – July 2006
University of Padova (Padova, Italy)
Thesis title: *Hygroscopic characterization of epoxy matrix composite materials for ALMA radio telescope*

Teaching activities

- Advanced course “*Introduction to hydrogen as an energy carrier: technologies and materials*”
March – April 2023; 14 hours-module in collaboration with prof. M. Boaro.
School for Advanced Studies ‘di Toppo Wassermann’ – University of Udine
- Course “*Laboratorio di tecnologia dei materiali*” in the degree L-23 “*Tecniche dell’edilizia e del territorio*”
A.Y. 2022-23, first period; 48 hours (6 credits).
Polytechnic Department of Engineering and Architecture – University of Udine
- Intensive course for PhD students “*Elements of Hydrogen Technology: Materials and Applications*”
June 2022; 8 hours-module (1 credit).
Polytechnic Department of Engineering and Architecture – University of Udine
- Supervisor
for bachelor and master theses at University of Padova, University of Udine, Technische Universität Hamburg and Helmut-Schmidt-Universität.
Co-supervisor of PhD students at Helmholtz-Zentrum Geesthacht/Hereon research center
- Teaching assistant – Didactic laboratories for Physics classes

April – June; 2011, 2012, 2013 (a 12-hours module each year) e 2014 (24-hours module).
School of Engineering and Physics Department – University of Padova

- Intensive course for PhD students “*Materials for the Hydrogen Economy*”
November 2013; 24-hours module in collaboration with Prof. S. Sartori, University of Oslo.
Industrial Engineering Department – University of Padova

Research activities

- **Fixed-term researcher** (according to article 24, paragraph 3, letter **b**, Italian law n. 240/2010)

December 2021 – today

Polytechnic Department of Engineering and Architecture – University of Udine

Scientific area ING-IND/22 “Materials Science and Technology”.

- Study and development of functional coatings and biocompatible materials, in the frame of the scientific area.
- Participation to the activities of the “Materials Science and Technology” research group of the Polytechnic Department of Engineering and Architecture of the University of Udine in the project “Innovative green materials for the management and storage of hydrogen and other fuels with reduced environmental impact”, funded by the Ministry of University and Research as part of the PON “Research and innovation” 2014-2020.
from 10.01.2022 to today;

- **R&D Engineer**

Settembre 2021 – Novembre 2021

MetHydor s.r.l. Genova (Italy)

- **Research scientist** (“*Wissenschaftlicher Mitarbeiter*”)

(the role “*Wissenschaftlicher Mitarbeiter*” corresponds, according to the table in D.M. 662/2016, to “ricercatore a tempo determinato” according to article 24, paragraph 3, letter a) and/or b), Italian law n. 240/2010).

September 2021 – August 2022 on leave;

April 2021 – August 2021

with the role of *Abteilungsleiter*, responsible of the department WTI (Infrastruktur für stationäre Energiesysteme/Infrastructures for stationary energy systems);

January 2021 – March 2021

at Institut für Wasserstofftechnologie – Helmholtz-Zentrum hereon GmbH (new denomination of the following institute);

April 2014 – December 2020

at Institut für Werkstoffforschung – Helmholtz-Zentrum Geesthacht, Zentrum für Material und Küstenforschung GmbH (Germany);

Study, characterization and development of novel materials, reactive hydride composites, advanced systems for solid state storage, compression, and conversion of hydrogen, for conversion of CO₂; design, integration, and test of the systems thereof; mainly in the framework of the following national and international projects:

- Participation to the activities of the institute WT (*Wasserstofftechnologie*/Hydrogen Technologies) of Hereon, in the frame of “HyReflexS”, joint project funded by the Federal Ministry for Economic Affairs and Energy (BMWi) of Germany, with n° 03EI3020A.

(*Verbundvorhaben: „HyReflexS - Wasserstoffbasierte Notstromversorgung mit integriertem Regelkraftwerk mittels flexibler Sektorkopplung und Metallhydridspeichern“ Fördergeber: Bundesministerium für Wirtschaft und Energie (BMWi) – Förderkennzeichen: 03EI3020A.*)

from 01.10.2020 to 31.08.2021;

- Coordination of the activities for the institute WT (*Wasserstofftechnologie*/Hydrogen Technologies) of Hereon, in the frame of “Digi-HyPro”, joint project funded by the Center for Digitization and Technology Research of the German Armed Forces (dtec.bw).

(*Verbundvorhaben: „Digi-HyPro – Digitalisierte Wasserstoffprozesskette für die Energiewende“ Fördergeber: dtec.bw – Zentrum für Digitalisierungs- und Technologieforschung der Bundeswehr.*)

from 01.10.2020 to 31.08.2021;

- Coordination of the activities for the institute WT (*Werkstofftechnologie*/Materials Technologies) of HZG, in the frame of “HyCARE - Hydrogen Carrier for Renewable Energy Storage”, European collaborative project funded under EU HORIZON 2020 programme, from the Fuel Cells and Hydrogen Joint Undertaking (FCH JU Grant n° 826352).

from 01.01.2019 to 31.08.2021;

- Participation to the activities of the institute WT (*Werkstofftechnologie*/Materials Technologies) as responsible for HZG, in “*Hocheffizienter adiabater Wasserstoffspeicher*” and co-author of the project proposal approved for funding from “Karl-Vossloh-

- Grant 2017” (S047/10043/2017) of the Karl-Vossloh-Stiftung. (Title of the project, translated: “High Efficiency Adiabatic Hydrogen Storage System”).
from 01.03.2018 to 31.08.2021;
- Participation to the activities of the institute WT (*Werkstofftechnologie*/Materials Technologies) of HZG, in the frame of “H2HybridTank”, joint project funded by the Federal Ministry for Economic Affairs and Energy (BMWi) of Germany, with n° 03ETB002A.
(*Verbundprojekt: „H2Hybridtank – Demonstration eines kostengünstigen hybriden Druck-Festkörper- Wasserstoffspeicher-funktionsmodells für zukünftige Anwendung im PKW“ Fördergeber: Bundesministerium für Wirtschaft und Energie (BMWi) - Förderkennzeichen: 03ETB002A*).
from 01.01.2018 to 31.08.2021;
 - Participation to the activities of the institute WT (*Werkstofftechnologie*/Materials Technologies) of HZG, in the frame of “HYDRIDE4MOBILITY - Hydrogen Fueled Utility Vehicles and their Support System Using Metal Hydrides”, project funded under EU HORIZON 2020 - Research and Innovation Staff Exchanges (RISE) with Grant agreement ID 778307. In the frame of this project, in the periods from 06.05.2019 to 06.06.2019 and from 29.10.2019 to 01.12.2019, employment as “Visiting researcher” at HYSTORSYS and IFE (Kjeller, Norway).
from 01.12.2017 to 31.08.2021;
 - Participation to the activities of the institute WT (*Werkstofftechnologie*/Materials Technologies) of HZG, in the frame of “CO2MPRISE - CO2 absorbing Materials Project- RISE”, project funded under EU HORIZON 2020 - Research and Innovation Staff Exchanges (RISE) with Grant agreement ID 734873.
In the frame of this project, in the period from 09.10.2018 to 20.12.2018, employment as “Investigador invitado” at the Departamento de Ingeniería Química, Biotecnología y Materiales – Universidad de Chile (Santiago, Chile).
from 01.03.2017 to 31.08.2021;
 - Participation to the activities of the institute WT (*Werkstofftechnologie*/Materials Technologies) of HZG, in the frame of “HySCORE”, joint project funded by the Federal Ministry for Education and Research (BMBF) of Germany, with n° 03SF0532B.
(*Verbundvorhaben „HySCORE: Effiziente H2-Speicherung durch neuartige hierarchisch poröse Core- Shell Strukturen mit eingelagerten Leichtmetallhydriden“ – Fördergeber: Bundesministerium für Bildung und Forschung (BMBF) - Förderkennzeichen: 03SF0532B*).
from 01.01.2016 to 30.06.2019;
 - Participation to the EU program COST – Action MP1103, with a short-term scientific mission (STSM) titled “High-temperature analysis on industrially processed hydride powders and pellets”, approved and funded.
(Code: COST-STSM-ECOST-STSM-MP1103-210415-058777).
from 21.04.2015 to 03.05.2015;
 - Participation to the activities of the institute WT (*Werkstofftechnologie*/Materials Technologies) of HZG, in the frame of “BOR4STORE - Fast, reliable and cost effective boron hydride based high capacity solid state hydrogen storage materials”, European collaborative project funded under EU FP7 programme, from the Fuel Cells and Hydrogen Joint Undertaking (FCH JU – Grant agreement ID 303428).
from 03.04.2014 to 30.09.2015;
 - **Post-doc fellow** (“Assegnista di ricerca”, according to article 22 of Italian law 240/2010)
February 2013 – March 2014
Industrial Engineering Department – University of Padova
Study, characterization, and development of materials for solid-state hydrogen and methane storage.
 - Participation to the activities of the “Hydrogen” group of the Industrial Engineering Department – University of Padova in “HYDROSTORE”, an industrial innovation project funded by the Ministry of Economic Development of Italy in the framework of the “Energy Efficiency” – Industry 2015 call.
from 01.02.2013 to 31.03.2014;
 - Research scholarship
April – December 2009
Mechanical Engineering Department – University of Padova
Preparation and characterization of magnesium hydride pellets as solid-state H₂ storage material.
 - Internship in collaboration with the university for completion of B. S. (D.M. 142/1998)
January – July 2006
European Industrial Engineering s.r.l. (Venice, Italy)
CFRP material testing and data analysis following ASTM standards.

Institutional activities

- Member of the ‘Board of Experts’ for the scientific area Materials Science, in the Environmental and Energy Engineering Science doctoral program Polytechnic Department of Engineering and Architecture – University of Udine
Marzo 2023 – oggi
- Member of the teaching commission for the degrees L-23 and LP-01 “Tecniche dell’edilizia e del territorio” Polytechnic Department of Engineering and Architecture – University of Udine
October 2022 – today
- Member of the evaluating committee for the final exam of the Chemical and Material Sciences doctoral program – XXXIV cycle. Reviewer, selected by the Academic Board, for a doctoral thesis of the same final exam. Department of Chemistry – University of Torino
May – June 2022
- Reviewer and evaluator selected by the Academic Board, for the doctoral thesis: *Surface stability and small-scale testing of zirconia* authored by Erik Camposilvan. Departament de Ciència dels Materials i Enginyeria Metallúrgica – Universitat Politècnica de Catalunya
May – June 2015

Scientific publications

The full list of publications is available at: <https://air.uniud.it/cris/rp/rp181982> and in the databases and citation indexes in the following table.

Database	<i>h-index</i>	Total citations	Date	Reference
Web of Science	15	885	14.04.2023	https://www.webofscience.com/wos/author/record/975318
Scopus	16	1026	14.04.2023	https://www.scopus.com/authid/detail.uri?authorId=35333604100
Google Scholar	17	1244	14.04.2023	https://scholar.google.com/citations?user=i4iu73gAAAAJ

Patents and technology transfer

- Innovation “*Design of an innovative tank for hydrogen storage using metal hydride as hydrogen carrier*”, developed in the framework of the Horizon 2020 project “HyCARE”, listed and highlighted in the EU Innovation Radar portal.
- Bellosta von Colbe J.M., Klassen T., Dornheim M., Jepsen J., Taube K., Capurso G., application EP 20183448 for the patent [EP 3932856 A1](#) “*Integrated Material and Process for Integrated Operation of a Hydride Storage System*” (U.S. Patent [20220002150A1](#), Application Serial № US 17/364,211).
- Bellosta von Colbe J.M., Klassen T., Dornheim M., Capurso G., Taube K., application EP 18173615 for the patent [EP 3573160 A1](#) “*Gaskreislaufsystem für den Wärmetransport*” (“*Gas Circuit System For Heat Transport*”; U.S. Patent [20190363378A1](#), Application Serial № US 16/395,881).

Presentations at scientific meetings

Invited participations at conferences

- “Energies of the Future” Conference ENERTECH — October 2019, Sabugal, Portugal.
 - *The HyCARE Project - Overview and Perspectives for Metal Hydrides in Energy Storage*
Capurso G., Taube K., Bellosta Von Colbe J.M., Dematteis E.M., ..., Cuevas F., Latroche M., Baricco M.
- Int. Workshop on Photovoltaic and Hydrogen Energy Technologies — July 2019, Port Elizabeth, South Africa.
 - *Implementation of Hydrogen Storage Technologies: from Hydride Synthesis to Integrated Systems*
Capurso G., Jepsen J., Bellosta von Colbe J.M., Pistidda C., Metz O., Taube K., Dornheim M., Klassen T.
- THERMEC’2018 International Conference — July 2018, Paris, France.
 - *Engineering Solutions in Scale-up and Tank Design for Metal Hydrides*
Capurso G., Jepsen J., Bellosta von Colbe J.M., Pistidda C., Metz O., Yigit D., Cao H., Hardian R., Strauch A., Taube K., Klassen T., Dornheim M.
- Materials Science @ Curtin seminar series — November 2017, Curtin University, Perth, Australia.
 - *Engineering Solutions in Scale-up and Tank Design for Metal Hydrides*
Capurso G., Jepsen J., Bellosta von Colbe J.M., Pistidda C., Metz O., Yigit D., Cao H., Hardian R., Strauch A., Taube K., Klassen T., Dornheim M.

- Hydrogen-Metal Systems Gordon Research Seminar — July 2017, Easton MA, U.S.A.
 - *Hydride storage tank coupled with an urban concept fuel cell vehicle*
Capurso G., Schiavo B., Jepsen J., Lozano G., Metz O., Rößler M., Keller N., Bellosta von Colbe J., Klassen T., Dornheim M.
- 7th Int. Conference on Fundamentals & Development of Fuel Cells — February 2017, Stuttgart, Germany.
 - *Medium Temperature Hydrides Overview and Application Perspectives*
Capurso G., Bellosta von Colbe J., Lozano G., Santoru A., Cao H., Pistidda C., Klassen T., Dornheim M.
- Key Energy 2010—October 2010, Rimini, Italy.
 - *Capacità, cicli di ricarica e durabilità di idruri di ultima generazione per l'accumulo di idrogeno.*
Capurso G., Lo Russo S., Maddalena A., Principi G.

Participations at conferences

- 39° Convegno Nazionale AIM — September 2022, Padova, Italy.
 - *Comportamento a corrosione di giunti saldati per applicazione nel settore navale*
Capurso G., Zanocco M., Dorbolò L., Offioiach R., Rondinella A., Andreatta F., Buffa G., Campanella D., Fedrizzi L.
- First Poster Competition on Materials Science — January 2021, Sciforum, online.
 - *HyCARE: Hydrogen Carrier for Renewable Energy Storage*
Dematteis E.M., Barale J., Costamagna M., Rizzi P., Baricco M., Makhloufi C., Bornemann N., Neumann B., Luetto C., Stühff H., Testi M., Pellegrini C., Crema L., Capurso G., Bellosta Von Colbe J.M., Taube K., Hauback B., Risso M., Fiorot S., Damosso D., Cuevas F., Latroche M., (poster presentation online, **awarded**), doi: [10.3390/PCMS-08955](https://doi.org/10.3390/PCMS-08955).
- Royal Society of Chemistry Twitter Poster Conference — March 2020, Twitter, online.
 - *HyCARE: Hydrogen Carrier for Renewable Energy Storage*
Dematteis E.M., Barale J., Rizzi P., Baricco M., Makhloufi C., Bornemann N., Neumann B., Luetto C., Stühff H., Testi M., Pellegrini C., Crema L., Capurso G., Taube K., Hauback B., Risso M., Fiorot S., Damosso D., Cuevas F., Latroche M., (poster presentation online).
- Hydrogen-Metal Systems Gordon Research Conference & Seminar — June/July. 2019, Castelldefels, Spain.
 - *Next Generation Li-RHC Hydrogen Storage System for Combined Hydrogen Storage and Heat Recovery*
Capurso G., Jepsen J., Bellosta von Colbe J., Przybilla K., Lutz M., Bürger I., Taube K., Klassen T., Dornheim M., (poster presentations).
- International Symposium on Metal-Hydrogen Systems, MH2018 — October 2018, Guangzhou, China
 - *Efficient H₂ storage by novel air-stable polymer-reactive hydride composites*
Capurso G., Cao H.; Pistidda C., Georgopoulos P.; Weigelt F., Chaudhary A.-L., Filiz V., Tseng J.C., Wharmby M., Abetz V., Klassen T., Dornheim M.
- Hydrogen-Metal Systems Gordon Research Conference — July 2017, Easton MA, U.S.A.
 - *Efficient H₂ storage through novel hierarchical porous core-shell structures with embedded light metal hydrides*
Capurso G., Pistidda C., Cao H., Dornheim M., Georgopoulos P., Weigelt F., Brinkmann T., Speil N., Freudenreich N., Abetz V., Klassen T., Fröba M., (poster presentation).
- 21st World Hydrogen Energy Conference 2016 — June 2016, Zaragoza, Spain.
 - *Hydride storage tank coupled with an urban concept fuel cell vehicle*
Capurso G., Schiavo B., Jepsen J., Lozano G., Metz O., Rößler M., Keller N., Bellosta von Colbe J.M., Klassen T., Dornheim M.
- Hydrogen-Metal Systems Gordon Research Conference — July 2015, Easton MA, U.S.A.
 - *First-ever Industrial Scale Produced Boron-Based Reactive Hydride Compounds for Hydrogen Storage*
Capurso G., Bellosta von Colbe J., Gupta N., Yigit D., Pendolino F., Melnichuk M., Milanese C., Girella A., Taube K., Klassen T., Dornheim M., (poster presentation).
- International Symposium on Metal-Hydrogen Systems, MH2014 — July 2014, Manchester, U.K.
 - *Static and Dynamic Performance Tests on Room Temperature Hydride Tank*
Capurso G., Schiavo B., Lozano G., Jepsen J., Bellosta von Colbe J., Klassen T., Dornheim M., (poster presentation, **awarded**).
- Hydrogen-Metal Systems Gordon Research Conference & Seminar— July 2013, Barga, Italy.
 - *Hydrogen and methane adsorption on aromatic framework compounds*
Capurso G., Gatti G., Errahali M., Maddalena A., (poster presentation).
- 34° Convegno Nazionale AIM — November 2012, Trento, Italy.
 - *Leghe di Mg per lo stoccaggio di idrogeno in stato solido*
Saccone A., Gastaldo F., De Negri S., Naik M., Capurso G., Lo Russo S., Maddalena A., Principi G.
- International Symposium on Metal-Hydrogen Systems, MH2012 — October 2012, Kyoto, Japan.
 - *Study on La-Mg Based Ternary System for Hydrogen Storage*
Capurso G., Naik M., Lo Russo S., Maddalena A., Saccone A., Gastaldo F., De Negri S., (poster presentation).
- 4th World Hydrogen Technologies Convention 2011 — September 2011, Glasgow, U.K.
 - *Nanoconfined mixed Li and Mg borohydrides as materials for solid state hydrogen storage*
Capurso G., Agresti F., Crociani L., Rossetto G., Schiavo B., Maddalena A., Lo Russo S., Principi G.
 - *Reversible hydrogen storage in calcium borohydride supported on mesoporous carbon*
Comănescu C., Capurso G., Maddalena A.
 - *Hydrogen sorption kinetics of magnesium hydride enhanced by the addition of Zr₈Ni₂₁ alloy*
Pighin S.A., Capurso G., Lo Russo S., Peretti H.A., (poster presentation).
- Hydrogen-Metal Systems Gordon Research Conference & Seminar — July 2011, Easton MA, U.S.A.
 - *Dehydrogenation and reversibility behavior of light metal borohydrides supported by high SSA carbons*

Capurso G., Comănescu C., Maddalena A., Lo Russo S., Principi G., (poster presentation).

- Faraday Discussion 151: Hydrogen Storage Materials — April 2011, Didcot, U.K.
 - *Dehydrogenation behaviour of mixed borohydrides dispersed on high specific surface area carbons*
Capurso G., Agresti F., Crociani L., Rossetto G., Schiavo B., Maddalena A., Lo Russo S., Principi G., (poster presentation).
- International Symposium on Metal-Hydrogen Systems, MH2010—July 2010, Moscow, Russia.
 - *Performance tests of a small hydrogen reactor based on Mg–Al pellets*
Capurso G., Agresti F., Lo Russo S., Maddalena A., Principi G., Cavallari A., Guardamagna C., (poster presentation).
- 18th World Hydrogen Energy Conference 2010 — May 2010, Essen, Germany.
 - *Pellets of MgH₂-based composites as practical material for solid state hydrogen storage*
Khandelwal A., Agresti F., Capurso G., Lo Russo S., Maddalena A., Gialanella S., Principi G.
- Il vettore idrogeno e le energie rinnovabili ad elevata efficienza — February 2010, Reggio Emilia, Italy.
 - *Nuove opportunità per l'accumulo di idrogeno - Gli idruri metallici: stato dell'arte e applicazioni*
Capurso G., Agresti F., Khandelwal A., Lo Russo S., Maddalena A., Principi G.
- 4th Symposium Hydrogen and Energy — January 2010, Wildhaus, Switzerland.
 - *Pellets of MgH₂-based composites as practical material for solid state hydrogen storage*
Khandelwal A., Agresti F., Capurso G., Lo Russo S., Maddalena A., Gialanella S., Principi G.
 - *Improvement of dehydrogenation kinetics of LiBH₄ dispersed on modified MWCNTs*
Agresti F., Khandelwal A., Capurso G., Lo Russo S., Maddalena A., Principi G., (poster presentation).

Scientific Awards

- “Second Prize” awarded at the *First Poster Competition on Materials Science* (January 2021, Sciforum, online) as co-author of the poster “HyCARE: Hydrogen Carrier for Renewable Energy Storage”, doi: [10.3390/PCMS-08955](https://doi.org/10.3390/PCMS-08955).
- “IJHE David Sanborn Scott Award” for the most cited paper in the Hydrogen storage & Distribution category of the year 2019, as co-author of the review “Application of Hydrides in Hydrogen Storage and Compression: Achievements, Outlook and Perspectives”, *International Journal of Hydrogen Energy*, **44** (2019) 7780–7808.
- Elected co-chair of the “Hydrogen-Metal Systems” Gordon Research Seminar – June 2019, Castelldefels, Spain.
- “Highly Commended Poster” awarded at the *International Symposium on Metal-Hydrogen Systems, MH2014* (July 2014, Manchester, UK) as author of the poster “Static and Dynamic Performance Tests on Room Temperature Hydride Tank”.

Funding and Scholarships

- Co-author and scientific co-responsible of the project proposal approved for funding from “Karl-Vossloh-Grant 2017” of the Karl-Vossloh-Stiftung, “*Hocheffizienter adiabater Wasserstoffspeicher*” – S047/10043/2017.
- Funding from EU programme COST Action MP1103 – April 2015 (COST-STSM-MP1103-26518).
- Funding for the “Hydrogen-Metal Systems” Gordon Research Conference – July 2011, Easton MA, U.S.A.
- Funding for the “Hydrogen-Metal Systems” Gordon-Kenan Research Seminar – July 2011, Easton MA, U.S.A.
- ISIS research bursary for the *Faraday Discussion 151: Hydrogen Storage Materials* – April 2011, Didcot, UK.
- Participation scholarship for the *XV Scuola Nazionale di Scienza dei Materiali* – September 2009, Bressanone, Italy.
- “Education Abroad Program” scholarship – 2006/2007 University of California, U.S.A.

Other activities and qualifications

- Member of the editorial board for the following scientific journals:

• <i>Frontiers in Energy Research</i> , Frontiers Media	ISSN: 2296-598X	Review Editor
• <i>Materials</i> , MDPI	ISSN: 1996-1944	Topic Editor
• <i>Energies</i> , MDPI	ISSN: 1996-1073	Editorial Board Member
• “ <i>Metal Hydrides: Fundamentals and Applications</i> ” (Topic), MDPI		Topic Editor
• <i>Compounds</i> ,	ISSN: 2673-6918	
• <i>Energies</i> ,	ISSN: 1996-1073	
• <i>Hydrogen</i> ,	ISSN: 2673-4141	
• <i>Materials</i> ,	ISSN: 1996-1944	
• <i>Metals</i> ,	ISSN: 2075-4701	
- Reviewer for the following scientific journals:

• <i>Journal of Alloys and Compounds</i> , Elsevier	ISSN: 0925-8388	“Outstanding Reviewer”
• <i>International Journal of Hydrogen Energy</i> , Elsevier	ISSN: 0360-3199	“Outstanding Reviewer”
• <i>RSC Advances</i> , RSC	ISSN: 2046-2069	

- *Metals*, MDPI ISSN: 2075-4701
- *Sustainable Energy & Fuels*, RSC ISSN: 2398-4902
- *Energies*, MDPI ISSN: 1996-1073
- *Journal of Energy Storage*, Elsevier ISSN: 2352-152X
- *Materials*, MDPI ISSN: 1996-1944
- *Green Energy & Environment*, KeAi ISSN: 2468-0257
- *Molecules*, MDPI ISSN: 1420-3049
- *Frontiers in Energy Research*, Frontiers Media ISSN: 2296-598X
- *Journal of Power Sources*, Elsevier ISSN: 0378-7753
- *Hydrogen*, MDPI ISSN: 2673-4141
- Participation to the *Program committee* of the joint event *The Eleventh Young Researchers' Conference Materials Science and Engineering* and *The First European Early Stage Researchers' Conference on Hydrogen Storage* – December 2012, Belgrade, Serbia.
- Professional exam as licensed Industrial Engineer – July 2009 (mark: 231/240).
- **National Scientific Qualification** to function as associate professor in Italian Universities in the Scientific Area 09/D1 – MATERIALS SCIENCE AND TECHNOLOGY.

I, the undersigned, Giovanni Capurso, aware that making a false statement, using or drawing up false documents as per art. 76 of D.P.R. 445/2000, is a criminal offence that might render me liable to prosecution, declare that the statements given in the present document are true as per art. 46 and 47 of D.P.R. 445/2000.

Completed in Udine on 18.04.2023,

the undersigned
Giovanni Capurso