



PERSONAL INFORMATION

First name(s) / Surname(s)

Salvatore Abate

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WORK EXPERIENCE

- Dates (from – to) June 2013 – Present
- Name and address of employer University of Messina, Viale F. Stagno D'Alcontres 31, 98166 Messina (Italy)
- Occupation or position held **Researcher in Industrial Chemistry**
- Main activities and responsibilities
 - Teaching and researching on the follow topics:
 - Synthesis, characterization and testing on Pd-membranes for hydrogen separation, and H₂O₂ direct synthesis.
 - Use of Throughput reactor for methanation reaction, in the framework of European project HELMET
 - Synthesis and characterization of Ni-based catalysts.
 - Hydrocracking of microalgae lipid oil, in high pressure reactor.
 - Coordination of PhD students team.

- Dates (from – to) January 2012- May 2013
- Name and address of employer INSTM Interuniversity Consortium for Science and Technology of Materials
Via G.Giusti 9,50121 Florence (Italy))
- Occupation or position held **Collaboration contract for the European project INCAS**
- Main activities and responsibilities
 - Synthesis of Pd membranes (contactor concept) by several techniques for direct H₂O₂ production (gas-liquid phase).
 - Preparation and characterization of Pd-based catalysts supported on several oxides, carbon, and carbon nanotubes.
 - Testing in high-pressure batch and semi-batch reactors.
 - Attendance of meetings, webconference, preparation of reports and deliverables, contacts with academic and industrial partners.

- Dates(from – to) September 2009 – December 2011
- Name and address of employer INSTM Interuniversity Consortium for Science and Technology of Materials
Via G.Giusti 9,50121 Florence (Italy)
- Occupation or position held **Collaboration contract for the European project NEXT-GTL**
- Main activities and responsibilities -Synthesis, characterization and testing of Pd-based membranes for gas separation
-Attendance of meetings, preparation of reports and deliverables, contacts with partners.
-Optimization of Pd based membrane synthesis and characterization (SEM and AFM) focused on the microstructure.
- Dates (from – to) January 2007- February 2009
- Name and address of employer University of Messina, Viale F. Stagno D'Alcontres 31, 98166 Messina (Italy)
- Occupation or position held **Collaboration contract for the Italian project FISR-Hydrogen**
- Main activities and responsibilities -Design of tubular membrane reactor, and synthesis of Pd composite membranes supported on the ceramic and metallic tubes.
-Attendance of meetings, preparation of reports, contacts with other partners.
-Testing of Pd membranes on pilot plant.

EDUCATION AND TRAINING

- Date(from – to) January 2004- December 2006
- Name and type of organisation providing education and training University of Messina
- Title of qualification awarded **PhD “Chemistry and Materials Engineering”**
Thesis: “Development of catalytic membranes based on metals supported on ceramic materials”
- Date(from – to) September 1996- November 2002
- Name and type of organisation providing education and training University of Messina, Faculty of Material Engineering, Italy
- Title of qualification awarded **Master Degree in Material Engineering**
- Level in national classification 107/110
Thesis:” Metals covered with zeolite 4A for applications in heat pump adsorption”
- Dates (from – to) May2015- June 2015
- Name and type of organization providing education and training **Avantium, Netherlands**
- Principal subjects/occupational skills covered In the framework of the European project BIOFUR. The study was focused on the possibility of using CMF (chloromethylfurfural) as starting molecule (instead HMF) to form MMF, key intermediate for other chemical process.
- Title of qualification awarded
- Dates (from – to) October 2013
- Name and type of organization providing education and training **School on Engineering of Membrane Reactors for the Process Industry**
- Principal subjects/occupational skills covered Membrane reactor, syngas production, hydrocarbon dehydrogenation, water gas shift, Innovative catalytic technologies and Multifuel-Energy to hydrogen converter.
- Title of qualification awarded certificate of attendance

- Dates (from – to) October 2008- November 2008
 - Name and type of organisation providing education and training **CNR institute of Rome, ITALY**
 - Principal subjects/occupational skills covered Surface characterization by AFM and STM analysis
 - Title of qualification awarded Certificate of attendance
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- Dates (from – to) 1993-1998
 - Name and type of organisation providing education and training **XIV Materials National School, Bressanone, ITALY**
 - Principal subjects/occupational skills covered Overview of the main surface characterization techniques
 - Title of qualification awarded Certificate of attendance
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- Dates (from – to) March 2008-June 2008
 - Name and type of organisation providing education and training **Fritz-Haber-Institute of Berlin, GERMANY**
 - Principal subjects/occupational skills covered Pd-membranes characterization by SEM and XPS synchrotron radiation
 - Title of qualification awarded Certificate of attendance
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- Dates (from – to) September 2006
 - Name and type of organisation providing education and training **School on Catalysis of St. Petersburg, RUSSIA**
 - Principal subjects/occupational skills covered Catalysis design
 - Title of qualification awarded Certificate of attendance
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- Dates (from – to) October 2003-November 2003
 - Name and type of organisation providing education and training **Karl-Winnacker-Institute of Frankfurt, Dechema, GERMANY**
 - Principal subjects/occupational skills covered Testing on catalytic membranes (distributor and contactor concepts) for H₂O₂ synthesis, in High pressure lab scale pilot plant (liquid-gas phase).
 - Title of qualification awarded Certificate of attendance

SCIENTIFIC PUBLICATIONS

Publications on International journals:40
 Chapter Book : 3
 International conferences: more than 50

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Documents: 41
 Citations: 482 total citations by 294 documents
 h-index: 12

Co-authors: 55
 Subject area: Chemical Engineering, Chemistry [View More](#)

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