

Chemical Research Handbook

Guide to use the Website

2021

Federchimica

The National Federation of the Chemical Industry represents 1,400 companies for a total of over 94,000 employees; it is made up of 17 sector associations and 38 product groups. The main objectives of Federchimica are the coordination and protection of the role of the Chemical Industry operating in Italy and the assistance to associated companies.

The Research, Development and Innovation Committee (Co.R.S.I.)

The Co.R.S.I., chaired by Dr. Alessandro Sidoli, is the institutional body of Federchimica that deals with issues related to R&D in chemical companies. The Committee is composed by representatives of associated companies, associations and permanent guests.

At the moment, the Co.R.S.I. deals with specific issues, thanks to the support of 3 Working Groups:

Open Innovation and Sustainability and Technology transfer
Nanomaterials and safety
European funding programmes and National funding

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CHEMICAL RESEARCH HANDBOOK

The website Chemical Research Handbook was created by Federchimica to support users in finding information on associated chemical companies and university departments, involved in R&D for sustainable chemistry. This system allows an easy and fast research of these data.

1. HOMEPAGE

Going to the website <https://annuario.federchimica.it/en/home> you can access the homepage of the Chemical Research Handbook.

In the Homepage you can find:

1. The research tool;
2. The national map: here it is possible to see the location of companies and universities participating;
3. A list with previews of the sheets of all companies and universities;
4. The main menu: starting from this point you can go to what's the report, partners and contacts pages;
5. The link to download the Yearbook.

The screenshot shows the homepage of the Chemical Research Handbook. At the top, there is a navigation bar with the Federchimica logo and links for HOME, WHAT'S THE REPORT, USE GUIDE, PARTNERS, and CONTACTS. Below this is a large banner with the title 'CHEMICAL RESEARCH HANDBOOK' and a 'DOWNLOAD THE REPORT' button. The main content area is divided into three sections: a search tool, a map of Italy, and a list of participating companies and universities. Red arrows with numbers 1 through 5 point to specific features: 1 points to the search tool, 2 points to the map, 3 points to the list of companies, 4 points to the main menu, and 5 points to the 'DOWNLOAD THE REPORT' button.

SEARCH

Keyword

Search in

☒ Companies ☒ Universities

Area

select region

select state

Detailed information

select research type

SEARCH

Map of Italy

Map showing the location of participating companies and universities across Italy.

List of Companies and Universities

A&A FRATELLI PARODI S.P.A. Indirizzo: Via Valverde 5/A/R - 16034 Campomonte (GE) http://www.fratelliparodi.it	AGROSISTEMI S.R.L. Indirizzo: Via del Capitolo 54 - 29122 Piacenza (PC) http://www.agrosistemi.it	AIR LIQUIDE ITALIA S.P.A. Indirizzo: Via Calabria 31 - 20158 Milano (MI) http://www.airliquide.it
ALLEGRINI S.P.A. Indirizzo: Via Solvo D'Acquisto n. 2 - 24090 Grassano (BG)	ALLNEX ITALY S.R.L. Indirizzo: Via M. Bianchini 62 - 36060 Romano d'Ezzelino (VI)	ALMA MATER STUDIORUM UNIVERSITÀ DI BOLOGNA DIPARTIMENTO DI CHIMICA "GIACOMO CIAMICIAN"

2. THE SEARCH TOOL

The search tool allows to find companies and university departments within the Yearbook, using as filters the geographical area and the type of research carried out by the company or university department (product or process research, incremental or innovative, research for water saving, chemistry from renewable sources, wastewater treatment, biotechnology, reduction of CO₂ emissions).

Selecting only on the “Companies” checkbox, the filters “Select business sectors” (defined on the basis of the product classification of associated companies) and “Select company size” (with reference to the European definition of medium, small and micron enterprise) will also appear.

WEDNESDAY 09 FEBRUARY 2022 Search

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HOME | WHAT'S THE REPORT | USE GUIDE | PARTNERS | CONTACTS

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SEARCH

Keyword

Search in
☒ Companies ☐ Universities

Area
 select region select state

Detailed information
 select research type select business sector select company size

SEARCH

Selecting only the "University" checkbox you will also see the "Select scientific area" filter (identified areas are: chemistry and materials science, biotechnology, engineering, agriculture, veterinary, pharmacy and medicine).

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SEARCH

Keyword

Search in
☐ Companies ☒ Universities

Area
select region select state

Detailed information
select research type select scientific sector

SEARCH

3. COMPANY SHEET

After having carried out a search with the “Search tool” or having selected the company name directly from the list on the homepage, you will access the Company sheet. In this page you can see the following information:

1. General information (company name, logo, address, and contact person);
2. Logo of Responsible Care and/or SET and/or Suschem Italy in case the company participates to these initiatives;
3. Buttons “download”, “print” and “send link by e-mail”;
4. Detailed info (size of the company, percentage of research expenditure on turnover, number of researchers and business sectors);

The screenshot displays the company sheet for BRACCO IMAGING S.p.A. with the following elements and annotations:

- Navigation:** "SEARCH" and "BACK TO RESULTS" buttons at the top.
- Breadcrumbs:** "HOME >> Companies >> BRACCO IMAGING S.p.A."
- Company Header:** "BRACCO IMAGING S.p.A." and "GENERAL INFORMATIONS".
- Annotation 1:** Points to the company logo (BRACCO) and the contact information: "BRACCO IMAGING S.p.A. Via Folli 50 - 20134 Milano (MI) Web site: http://www.bracco.com download business card".
- Annotation 2:** Points to the "suschem IT" logo.
- Annotation 3:** Points to the "CONTACTS" section: "Contacts Luciano Lattuada luciano.lattuada@bracco.com +39 0221772654" and the "DOWNLOAD", "PRINT", and "EMAIL" buttons.
- Annotation 4:** Points to the "DETAILED INFO" section, which includes:
 - Dimension:** LARGE COMPANY
 - Research expenditure (% of turnover):** 9.00 %
 - Number of researchers:** 100
 - Business sectors:** Active and intermediate principles for the pharmaceutical industry

5. Description of industrial research for sustainable chemistry (detailed by type of research);
6. Collaborations with Public Research (universities, research centres, foundations, etc.).

DESCRIPTION OF INDUSTRIAL RESEARCH FOR SUSTAINABLE CHEMISTRY

Product research

Innovative research	Research of new MRI contrast agents containing metals more sustainable than gadolinium. Research of new contrast agents for optical imaging.
Incremental research	Research of more efficient gadolinium complexes for MRI with the aim to decrease the dose and, consequently, to improve the sustainability and reduce the environmental impact.

Process research

Innovative research	New processes with low environmental impact (e.g. processes exploiting flow continuous reactors and microreactors).
Incremental research	Intensification and optimization of current processes.

Water conservation research	Increasing the productivity of reactions performed in water; engineering interventions to recycle process waters.
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Chemistry from renewable sources research	Synthesis of raw materials from renewable sources.
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Wastewater treatment research	Recovery and recycle of strategic raw materials from wastes and wastewaters; optimization of wastewater treatment through new enabling technologies.
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Biotechnological research	Application of biocatalysis to organic chemistry processes and to the treatment of industrial wastes.
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CO ₂ emission reduction research	Implementation of more efficient systems for energy production and transportation of goods and people.
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Circular economy research	Iodine recovery and recycle.
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COLLABORATIONS WITH PUBLIC RESEARCH

- CNR of Naples
- CNR of Padua
- IIT, Genova


4. UNIVERSITY SHEET

After having carried out a search by the “Search tool” or having selected the university department directly from the list on the homepage, you will access the University sheet. In this page you can see the following information:

1. General information (name, logo, address and contact details of the Director of the Department, scientific area and Suschem Italy logo in case the Department joins the Platform);
2. Buttons “download”, “print” and “send link by e-mail”;
3. Specific information (university staff, number of students enrolled, post-graduate training and number of patents in portfolio);


Università degli Studi di Cagliari, Department of Mechanical and Chemical Engineering Department



GENERAL INFORMATION



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Department of Mechanical and Chemical Engineering Department
Via Marengo 2 - 09123 Cagliari (CA)
Web site:
https://www.unica.it/unica/en/dip_ingmeccanica.page
e download business card

Contacts
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DOWNLOAD  

1

2

3

DETAILED INFORMATION

Staff
13 Full Professors
16 Associate Professors
15 Researchers
4 Structured Technicians
6 Administrative Technicians

Registered students
850 (Academic year 2019/2020)

Post Lauream Training
19 enrolled in Doctorates in Industrial Engineering, Engineering and Environmental Sciences and Sciences and Technologies Innovation
2 Research fellows

Patents
12

4. “Datasheet icons” (symbol legend useful for reading the R&D activities table);
5. R&D activities detail (for each research activity the symbols of the type of research are indicated as defined in the iconography). Selecting the drop-down menu “select type of research” you can search for R&D activities according to the proposed filters;
6. Other R&D organizations (external research structures connected to the Department).

4 → DATASHEET ICONS

5 → **R&D ACTIVITIES DETAIL**

select research type

TOGGLE ALL ELEMENTS

CHEMISTRY

Electrochemical processes for removal of emerging organic pollutants and microplastics from wastewaters. Toggle

Chemical and biological processes working in the presence of electromagnetic fields. Toggle

Bio-Electrochemical processes for water treatment and energy recovery, and H₂ production. Toggle

Modelling and control of crystallization processes and bio. Monitoring and control systems of distillation columns and reactors. Modelling and control of CCS processes. Toggle

Synthesis of photoelectrodes for water splitting and H₂ production. Toggle

Cultivation processes of microalgae for the CO₂ capture and biopetroleum production. Extraction of biopetroleum from microalgae. Extraction of high value added products from microalgae. Toggle

Mechanical activation of physical and chemical transformations in biomass. Mechanochemical processes of heterogeneous molecular and polymeric systems. Toggle

Synthesis and characterization of molecular catalysts for CO₂ reduction. Toggle

6 → **OTHER R&D ORGANIZATIONS**

CINSA – Interdepartmental Centre of Engineering and Environmental Sciences

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Web site: https://www.unica.it/unica/it/ateneo_s03_s00/?page?contentId=STR19464

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