

# **Chemical Research Handbook**

**Guide to use the Website** 

#### **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

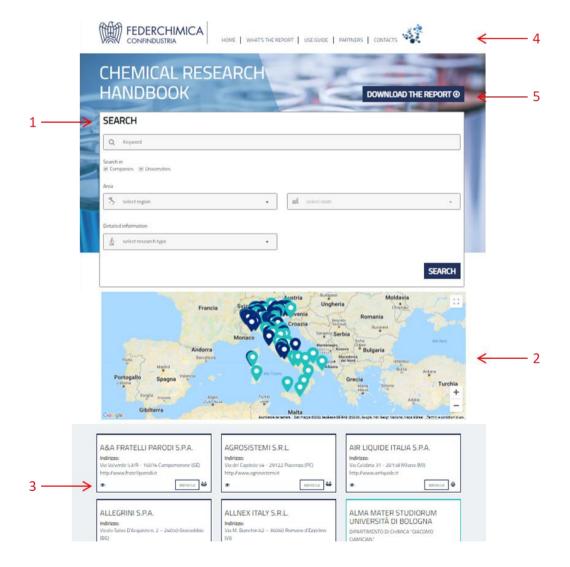
The website Chemical Research Handbook was created by Federchimica to support users in finding information on associated chemical companies and university departments, involved in R&D for sustainable chemistry. This system allows an easy and fast research of these data.

#### 1. HOMEPAGE

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

In the Homepage you can find:

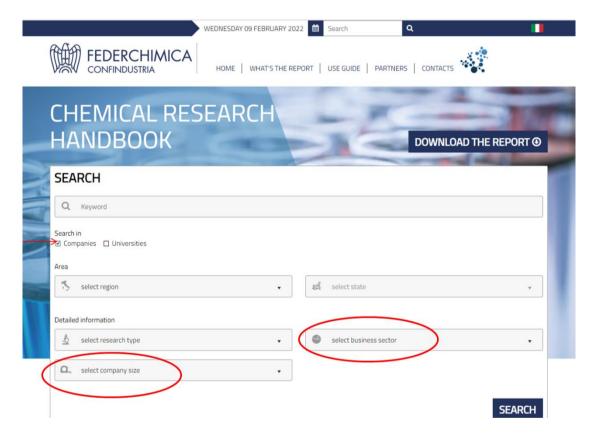
- 1. The research tool:
- 2. The national map: here it is possible to see the location of companies and universities participating;
- 3. A list with previews of the sheets of all companies and universities;
- 4. The main menu: starting from this point you can go to what's the report, partners and contacts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



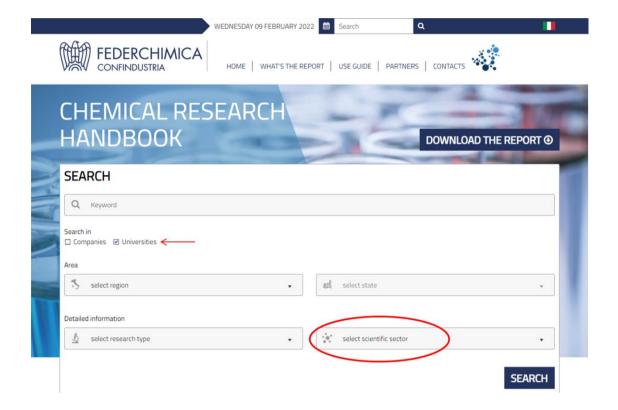
#### 2. THE SEARCH TOOL

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 CO<sub>2</sub> 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.



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).



#### 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);



- 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		
5	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 continous 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.	
	Chemistry from renewable sources research	Synthesis of raw materials from renewable sources.	
	Wastewater treatment research	Recovery and recycle of strategic raw materials from wastes and wastewaters; optimization of wastewater treatment through new enabling technologies.	
	Biotechnological research	Application of biocatalysis to organic chemistry processes and to the treatment of industrial wastes.	
	CO <sub>2</sub> emission reduction research	Implementation of more efficient systems for energy production and transportation of goods and people.	
	Circular economy research	lodine recovery and recycle.	

### COLLABORATIONS WITH PUBLIC RESEARCH

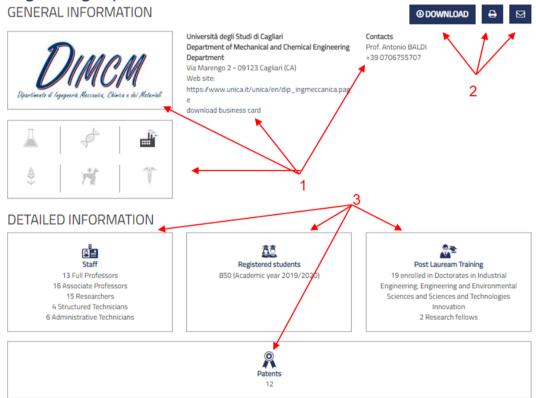
- CNR of PaduaIIT, Genova

#### 4. UNIVERSITY SHEET

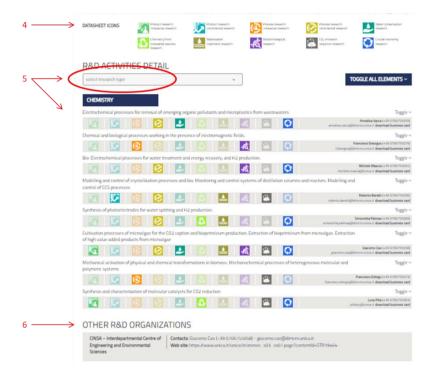
After having carried out a search by the "Search tool" or having selected the university department directly from the list on the homepage, you will access the University sheet. In this page you can see the following information:

- 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



- "Datasheet icons" (symbol legend useful for reading the R&D activities table);
- R&D activities detail (for each research activity the symbols of the type of research are indicated as defined in the iconography). Selecting the dropdown 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).



# For more information:

Dania Della Giovanna Federchimica Technical and Scientific Department Tel. +39. 02. 34565.295 Fax +39. 02. 34565.329 E – Mail: d.dellagiovanna @federchimica.it



20149 Milano Via Giovanni Da Procida 11 Tel. +39.02.34565.1 Fax. +39.02.34565.310 federchimica @federchimica.it

00186 Roma Largo Arenula 34 Tel. +39.06.54273.1 Fax. +39.06.54273.240 ist @federchimica.it

1040 Bruxelles (Belgio) 1, Avenue de la Joyeuse Entrèe Tel. +322.2803292 Fax. +322.2800094 delegazione @federchimica.eu

www.federchimica.it