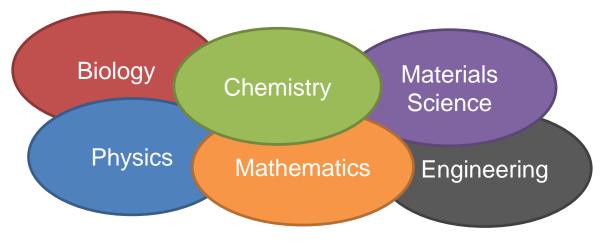




Who we are







DSMN numbers

- Teaching staff (professors and researchers): 47 members
- Technical and administrative staff: 24
 members
- PhD students and post-docs: 66 members

Education: bachelor's degrees

SUSTAINABLE CHEMISTRY AND TECHNOLOGIES



2 study plans:

Ca' Foscari

niversitv

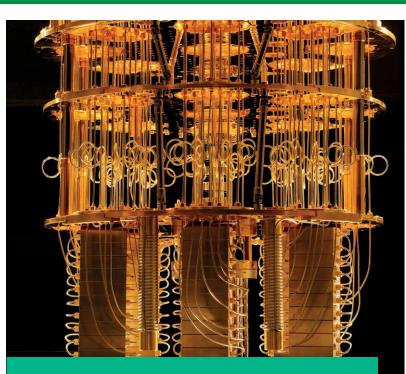
Venice

- Chemical Science and Technologies
- Science and Technologies of bio and nanomaterials

TECHNOLOGIES FOR THE CONSERVATION AND THE

RESTORATION





ENGINEERING PHYSICS

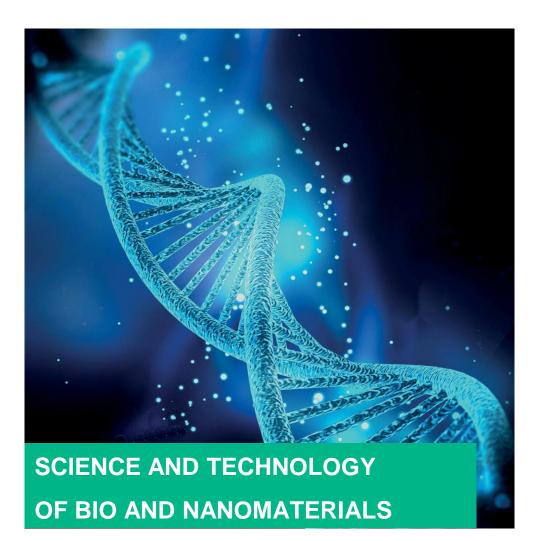
Possibility of acquiring interdisciplinary skills by choosing optional paths (of three courses each):

- Economics and Managment
- Language, Culture and Society of China

Education: masters's degrees

SUSTAINABLE CHEMISTRY





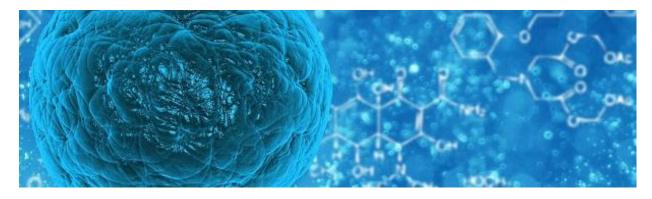


PhD Degrees and advanced training courses

PhD degree in Chemistry in partnership with the University of Trieste



PhD degree in Science and Technology of Bio and Nanomaterials in partnership with Kyoto Institute of Technology



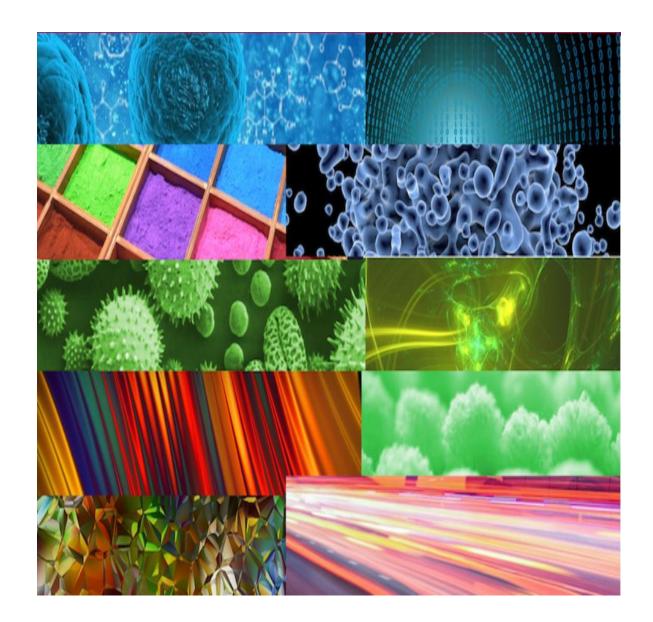
Advanced training course «Chemist: from lab to industry» starting from 2021/2022



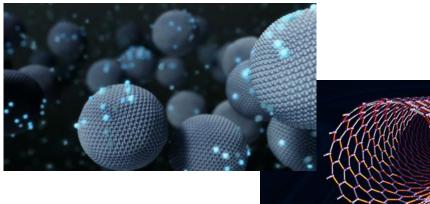
Sustainable chemistry for industry and environment within circular economy paradigms

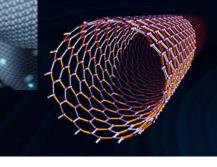


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Nanobiomaterials and nanosystems for sensor, biomedical, environmntal, energy and technological applications







Innovative technologies, materials and analytical methods for cultural heritage



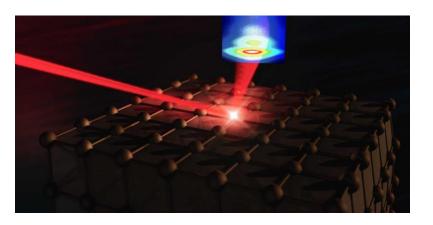




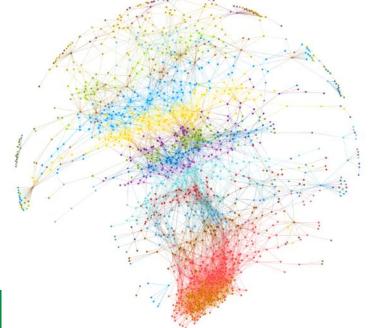
More recent research topics:

- Networks and complex systems
- Ultrafast dynamics in condensed matter



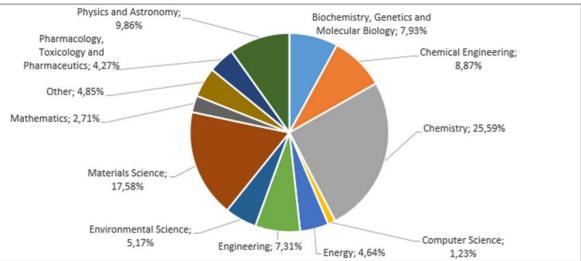








Publications

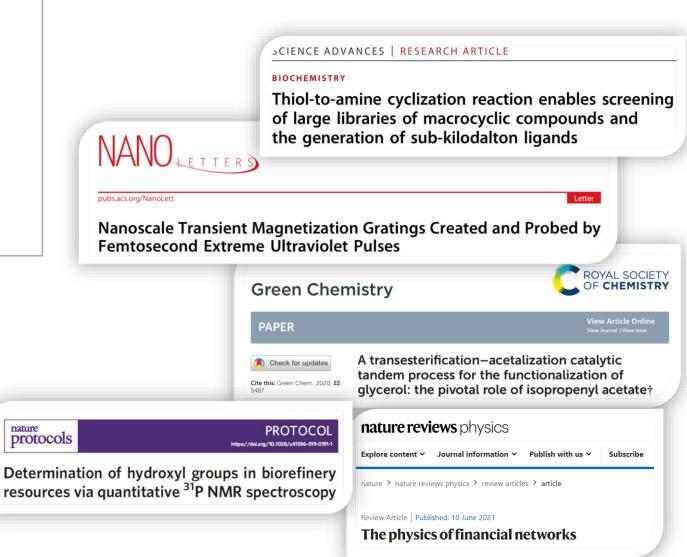


Over 450 publications indexed in Scopus in the last 3 years

High interdisciplinarity

nature

Over 55% from international collaborations

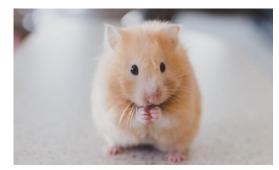




Main ongoing national projects



RELIEAVED: reduction of SARS-CoV-2 spread in the human body by aerosol administration of cellshielding PEGylated bicyclic peptides budget DSMN: 56.872 € of 70.648 €



The golden hamster as animal model for the use of monoclonal antibodies for zoonotic infectious diseases budget DSMN: 15.730 € of 160.000 €



SARR: advanced systems for waste management budget DSMN: 246.400 € of 4.588.893 €





Soft Adaptive Network budget DSMN: 121.860 € of 1.056.360 €



3S_4H: smart food for sustainable future budget DSMN: 110.880 € of 5.188.650 €



Class IIa HDACs as therapeutic targets in human diseases: new roles and new selective inhibitors

budget DSMN: 111.000 € of 785.000 €

F.A.&A.F.: future agriculture and functional food budget DSMN: 49.984 € of 1.914.048 €

SAFE: Smart creAtivity for saFety and rEstart budget DSMN: 67.250 € of 1.878.396,63 €

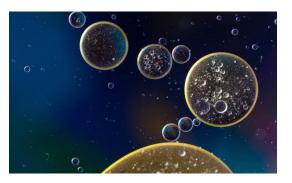
ECODPI: ECOdesign e recycling of individual protection devices budget DSMN: 100.000,00 € of 2.999.460 €



Main ongoing international projects



EffectFact: Effective Factorisation techniques for matrix-functions: Developing theory, numerical methods and impactful applications budget DSMN: 128.800 € of 182.160 €



EMPHABIOSYS: Emergence of New Phases in Biopolymer Systems budget DSMN: 269.003 €



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- **ISE-EMH:** Italian-Slovenian ecosystem for mobile and ehealth budget DSMN: 117.648 € of 882.351 €
- Nano-Region: an open access network for innovation through nanotechnology budget DSMN: 375.000 € of 3.529.324 €



B-LigZymes: Bacterial Enzymes and Bioprocesses for Lignin Valorisation budget DSMN: 73.600 € of 970.600 €



Department of Molecular Sciences and Nanosystems



MAGNETIC-SPEED-LIMIT: Understanding the speed limits of magnetism budget DSMN: 218.750 € of 1.967.755 €

Research impact

Technology transfer, patenting and spin offs





40% of Ca'Foscari spin offs +170% patents in 2019

Spin Offs:

Biofuturemedicine Srl: diagnostic kits

Cheers Srl: photovoltaic cells

Crossing SrI: green products for industries

VeniCe Srl: cosmetics

Nasiertech Srl: cultural heritage restoration

Management of research activities for third parties, of granted projects at national/international level, preparation of research contracts



+170% granted projects as compared to the past 3 years



Social, educational and cultural activities



Public Engagement

- events for local companies, school students and wide public
- cooperation activities with local associations (cultural, industrial, etc.)

Activies with high schools

- training courses for high school teachers
- internships for high school students





DSMN & companies

Many collaboration possibilities:

- Stages and internships
- Research fellowships
- Industrial PhD degrees
- Joint laboratories
- Joint grant applications

Services for companies:

- Consulting, research activities
 and testing on request
- Patent licensing
- Spin offs





Network

- Beijing Jiaotong University
- Beijing Normal University
- Xiamen University
- City University of Hong Kong
- Kyoto Institute of Technology
- Kyoto University
- Tokyo University
- AIMMSCR, New Dehli
- University of Tehran
- University of Peshawar
- University of Natural Resources and Life Sciences
 (BOKU)
- KU University of Leuven
- Bulgarian Academy of Science
- University of Chemistry and Technology
- Åbo Akademi University
- European synchrotron Radiation Facility
 ILL –Institute Laue
- ILL –Institute Lau
- Universitat Freie BerlinRWTH Aachen
- Langevin, Grenoble
- Universitè de Jean Monnet Saint Etienne
- Università di Bordeaux
- Queen's University of Belfast
- Vilnius University
- ITMO University
- University of Ljubljana
- National Institute of Chemistry, Ljubljana
- University of Nova Gorica
- Emergency ONG, Milano
- IUAV, Venezia
- Università Parthenope, Napoli
- University of Malaga
- University of Seville
- University of Extremadura
- Universitat Autonoma de Barcelona
- University of Vigo
- ICIQ Istitut Català d'Investigació Quimica
- Spanish Council for Scientific Research (CSIC)
- Università La laguna
- ETH Zurich

University of Amsterdam

- University of Bristol
- University of Oxford
- Heriot Watt University
- University of Southampton
- University of Nottingham
- University of Bath
- National University, Odessa
- Università Sao Paolo
- Universitè de Varrens
- INRS, Montreal
- McGill University Montréal
- The Scripps Research La Jolla
- Rockefeller University
- Temple University
- University of Florida, Gainesville
- University of Pennsylvania
 - Fox Chase Cancer Center
 - International Society for
 - Advancement in Energy Research • Methodist Hospital, Houston
 - Methodist Hospital, Houston
 - University of Maryland
 - University of California, Irvine
 - University of Sydney
 - Université de Sfax
 - Centre National des Recherches en Sciences des Matériaux, Soliman





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