



Università degli Studi di Cagliari
Dipartimento di Ingegneria
Meccanica, Chimica e dei Materiali
(DIMCM)

**[http://dipartimenti.unica.it/ingegneria
meccanicachimicaedeimateriali/](http://dipartimenti.unica.it/ingegneria
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Ultima versione: settembre 2015

1) Struttura

Sono organi del DIMCM:

- il Consiglio;
- la Giunta;
- il Direttore.

Il Consiglio è composto dal corpo docente aderente al Centro. La Giunta è composta dal Direttore e da sei membri eletti dal Consiglio.

2) Settori di intervento

Il DIMCM svolge attività didattica in corsi di laurea triennali (Ingegneria Chimica e Ingegneria Meccanica), magistrali (Ingegneria Chimica e dei Processi Biotecnologici, Ingegneria Meccanica) e di dottorato di ricerca (Ingegneria Biomedica, Progettazione Meccanica, Ingegneria Industriale, Ingegneria e Scienze Ambientali Internazionalizzato, Scienze e Tecnologie per l'innovazione Internazionalizzato).

Il DIMCM svolge inoltre ricerca di base e applicata, consulenze e servizi nell'ambito, tra le altre, delle seguenti tematiche:

- Beni culturali
- Bioingegneria
- Fenomeni di trasporto di materia, energia e quantità di moto
- Ingegneria delle reazioni e dei reattori chimici
- Ingegneria elettrochimica
- Ingegneria Energetica e Ambientale
- Meccanica dei materiali e delle strutture
- Ottimizzazione dei sistemi produttivi
- Progettazione di sistemi e apparecchiature per l'Ingegneria Meccanica, Chimica e dei Materiali
- Scienze e Tecnologie dei Materiali
- Sistemi di controllo, strumentazione e robotica
- Tecnologie di lavorazione e assemblaggio
- Termodinamica

3) Persone da contattare

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 Arena Simone
 Casnedi Maria Ludovica

Casti Marta
Casula Elisa
Chegini Amir
Chen Xinyi
Corgiolu Simona
Corona Federica
Desogus Luca
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Ortun Palacios Jaime
Rizzardini Simone
Rizzu Daniele
Saiu Giuliano
Scano Efisio
Sechi Elisa
Taris Alessandra

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Cascetta Mario
Casti Efisio
Francesconi Luca
Ligos Giorgio
Mais Laura
Montinaro Selena
Musa Clara
Petrollese Mario
Sollai Francesca Agostina
Tronci Aurelio
Usai Alessandro

9) Principali strumentazioni disponibili

Facility COSMIC per voli parabolici

Troncatrice Struers

GloveBox Unilab MBRAUN

Microscopio Leica Reichert MEF_M

Forno Nabertherm N60/ERM

Cappa ERLAB CaptairChem MOD filtair 834

Autoclave Vapor Matric 770/A

Lavatrice speciale per vetreria di laboratorio mod. G 7804 AE WES

Pompa da vuoto originale MILLIPORE

Agitatore Magnetico a Vortice Vortex GVLab

Centrifuga Refrigerata Haereus Megafuge 1.0 R

Stufa HAEREUS UT 6120

Armadio Frigorifero Sottobanco UBR 170V

Cabina a Flusso Laminare Verticale mod. Polaris 48

Microscopio Leica DM IL HC FLUO

Spettrofotometro UV 1240

HPLC "Agilent Technologies" HPLC Systems 1100 Series

GC Agilent 6850 Series

Elettroforesi Capillare Agilent - CE System 1100, DAD G1315B

Spark Plasma Sintering Sumimoto Coal Mining SPS 515S

Mulini a Palle SPEX 8000M Mixer/Mill

Reattori SHS

Fotobioreattori per coltivazioni algali

Incubatore Haereus Heracell 150

Coulter Counter Beckman Coulter Multisizer 3

Evaporatore Buchi Switzerland Rotavapor R-210

Lucidatrice Wurtz Bueller 60-1996-230

Agitatore magnetico 15 posti Seneco Service IK 3692500

Agitatore magnetico monoposizione Seneco Service IK 261900

Spettrofotometro Hach DR1900

Termostato Lange LT200-1

Sonda Hach HQ40d

Microscopio elettronico Hitachi S4000

Reometro Anton Paar Modulare MCR102

Fresatrice alesatrice universale

Tornio parallelo di precisione

Saldatrice TIG / MMA

Durometro e Microdurometro

Microscopio metallografico

10) Soggetti pubblici e privati con cui sono state o sono attive collaborazioni scientifiche

- Aalto University – Finland;
- AGH University, Krakow, Poland;
- AGRIS SARDEGNA – Agenzia per la Ricerca in Agricoltura
- Carbosulcis SpA, Gonnese (Italia)
- Centre National de la Recherche Scientifique (France)
- Centre National de la Recherche Scientifique, Georgia Institute of Technology – Lorraine, Metz (France)
- Centro Ricerche Fiat (CRF)
- Centrum excellence Telč, CZ
- Ceske Vysoke Ucení Technické V Praze (Technical University of Prague), Prague (Czech Republic)
- CONI, Comitato Regionale Sardegna
- Consiglio Nazionale delle Ricerche (CNR)
- CO. RE. M. srl Carpenterie meccaniche
- CRS4 (Centro di Ricerca Sviluppo e Studi Superiori in Sardegna)
- CSM - Centro Sviluppo Materiali S.p.A.
- Department of Industrial & Systems Engineering, Virginia Tech USA
- Department of Materials and Manufacturing Technology, Chalmers University of Technology, Goteborg (Sweden)
- Dipartimento di Ingegneria del Territorio - Sezione Meccanizzazione ed Impiantistica – Università Studi Sassari
- Dipartimento di Ingegneria Meccanica ed Aerospaziale – Politecnico di Torino
- Ecole de Mines, Paris (France)
- Elastomers Research Center Polimeri Europa – Ravenna
- ENAS - Ente Acque Sardegna
- ENEA
- Faculty of Chemical and Food Technology dell'Università di Bratislava
- Georgia Institute of Technology, Atlanta (Georgia), (USA)
- Helsinki University of Technology (Finlandia) - Lab. of Computer and Information Science
- Institute for Energetics and Interphases (Italia)
- Institut Fresnel – UMR 7249, Francia
- Institute of Metal Cutting (Poland)

- Institut für Technische Chemie und Polymerchemie, Karlsruhe
- Institute of Applied Physics, University of Bern, Switzerland
- ISTECH, Faenza
- Instituto de Ceramica y Vidrio (Spain)
- Istituto di Enologia ed Ingegneria Agro-alimentare – Università Cattolica del Sacro Cuore – Piacenza
- Istituto di tecnologie biomediche del CNR – Italia
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- Massachusetts Institute of Technology (MIT), Boston (USA)
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- Ortopedia Chessa - officina ortopedica
- Pharmaness SpA – Italia
- Politecnico di Torino (Italia)
- Politecnico di Milano (Italia)
- Procter & Gamble, Pomezia R&D Research Center, I
- Proteios SpA – Italia
- Railway Technical Research Institute, Tokyo, Japan
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- Tartu Ulikool (University of Tartu), (Estonia)
- Technical University of Darmstadt (Germany)
- Tecnologia e Engenharia de Materiais (Portugal)
- Tel Aviv University, Israel
- Tetra Pak, sede di Modena
- Tokyo Institute of Technology, Japan
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- Universidad Autonoma Metropolitana di Città del Messico (Messico) – Dep. de Ingegneria Quimica;
- Universidad de Barcelona (Spain)
- Universidad de Burgos (Spain)
- Universidad de Lleida (España) - Departament d'Informàtica i Enginyeria Industrial;
- Universidad de Lleida (España) - Grea Inovació Concurrent;
- Universidad de Oviedo (Spain)

- Universidad Nacional Autónoma de México, Ciudad de México (México) – Dep. De Ingeniería de Control;
- Università degli Studi di Messina
- Università degli Studi di ROMA "Tor Vergata"
- Università degli Studi di Trento
- Università della Calabria – Italia
- Università degli Studi di Parma - Laboratorio RFID
- Università degli Studi di Pavia
- Università degli Studi di Sassari
- Università del Salento
- Università Politecnica delle Marche
- Université de Technologie de Belfort Montbéliard (France)
- Università di Bologna
- Università di Firenze - Dipartimento di Chimica
- Università di L'Aquila (Italia) - Dipartimento di Ingegneria Industriale e dell'Informazione e di Economia
- Università di Milano, Dipartimento di Chimica Inorganica Metallorganica e Analitica "Lamberto Malatesta"
- Università di Napoli Federico II
- Università di Trento
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- University of Hertfordshire (UK)
- University of Liverpool, UK
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11) Produzione scientifica del 2014

Riviste internazionali [83]

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28. Cau G; Cocco D, Comparison of medium-size concentrating solar power plants based on parabolic trough and linear Fresnel collectors, *ENERGY PROCEDIA*, Vol. 45 pag. 101-110 (2014)
29. Cau G; Cocco D; Tola V, Performance assessment of USC power plants integrated with CCS and concentrating solar collectors, *ENERGY CONVERSION AND MANAGEMENT*, Vol. 88 pag. 973 – 984 (2014)
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36. Mesostructural refinement in the early stages of mechanical alloying, S. Garroni, S. Enzo, F. Delogu, *Scripta Mater.* 83 (2014) 49.
37. Ag-Ni Janus nanoparticles by mechanochemical decomposition of Ag and Ni oxalates, F. Delogu, *Acta Mater.* 66 (2014) 388.
38. Kinetics of nanoporous Au formation by chemical dealloying, G. Pia, M. Mascia, F. Delogu, *Scripta Mater.* 76 (2014) 57.
39. On the electrodeposition of niobium from 1-butyl-1-methylpyrrolidinium bis (trifluoromethylsulfonyl) imide at conductive diamond substrates, A. Vacca, M. Mascia, L. Mais, S. Rizzardini, F. Delogu, S. Palmas, *Electrocatalysis* 5 (2014) 16.
40. Unsaturated coordination and surface stresses in metal nanoparticles, F. Delogu, *Chem. Phys. Lett.* 601 (2014) 87.
41. Metastable phases of immiscible systems, A. Contini, F. Delogu, S. Garroni, G. Mulas, S. Enzo, *J. Alloys Compd.* 615 (2014) S551.
42. Mechanochemical decomposition of Ag and Ni oxalates, F. Delogu, *Mater. Chem. Phys.* 147 (2014) 629.
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44. Electrochemical deposition of Cu and Ni in pyrrolidinium based ionic liquid, M. Mascia, A. Vacca, L. Mais, S. Palmas, E. Musu, F. Delogu, *Thin Solid Films* 571 (2014) 325.
45. Surface stresses and Young's modulus in nanoporous Au foams, G. Pia, F. Delogu, *Scripta Mater.* 84-85 (2014) 55.
46. Kinetics of the mechanochemical synthesis of alkaline-earth metal amides, S. Garroni, L. Takacs, H. Leng, F. Delogu, *Chem. Phys. Lett.* 608 (2014) 80.
47. Voltammetric study on the behaviour of refractory metals in ([BMP][TFSA]) ionic liquid, L. Mais, M. Mascia, A. Vacca, S. Palmas, F. Delogu, *Chem. Eng. Trans.* 41 (2014) 97.
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49. Mechanochemistry of Ti-C powder mixtures, F. Delogu, L. Takacs, *Acta Mater.* 80 (2014) 435.
50. Andrea Manuello Bertetto, Roberto Ricciu, Maria Grazia Badas, A Mechanical Saffron Flower Harvesting System, *Meccanica*, December 2014, Volume 49, Issue 12, pp 2785-2796, (DOI: 10.1007/s11012-014-0026-7), *Meccanica*, Springer.
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52. A. VACCA, M. MASCIA, L. MAIS, S. RIZZARDINI, F. DELOGU, S. PALMAS. On the electrodeposition of Niobium from 1-butyl-1-methylpyrrolidinium bis (trifluoromethylsulfonyl) imide at conductive diamond substrates. *Electrocatalysis* 5(1) 16-22, 2014.
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