



## PERSONAL INFORMATION

**Surname/First name** Chiodoni Angelica Monica

**Address**

**Mobile**

**Affiliation** Center for Sustainable Future Technologies - Istituto Italiano di Tecnologia

**E-mail** [angelica.chiodoni@iit.it](mailto:angelica.chiodoni@iit.it)

**Nationality** Italian

**Gender**

**Date of birth**

## FORMAZIONE

Dottorato di ricerca in Fisica  
17-03-2005, Politecnico di Torino  
Tesi sperimentale su: "Caratterizzazione di multistrati per l'integrazione semiconduttore-superconduttore - Proprietà strutturali e loro correlazione con le proprietà elettrodinamiche di film superconduttori cresciuti su substrati per l'integrazione semiconduttore-superconduttore". Supervisor: Prof. E. Mezzetti e prof. B. Minetti, Dipartimento di Fisica, Politecnico di Torino.

Laurea quinquennale in Scienza dei Materiali  
14-12-2001, Università degli Studi di Torino. Punteggio finale: 106/110.  
Tesi sperimentale su: "Proprietà strutturali di strati tampone per l'integrazione elettronica semiconduttore-superconduttore" Supervisor: Prof. G. Rinaudo, Dipartimento di Fisica, Università degli Studi di Torino, Prof. E. Tresso e Prof. E. Mezzetti, Dipartimento di Fisica, Politecnico di Torino.

## ESPERIENZE DI RICERCA

1 dicembre 2017 - Oggi  
Attualmente sono tecnico senior presso il Center for Sustainable Future Technologies, Istituto Italiano di Tecnologia. Sono una microscopista, lavoro da più di 14 anni con sistemi di microscopia elettronica a scansione (FESEM), microscopia elettronica a trasmissione (TEM) e sistemi di microscopia a fascio ionico focalizzato (FIB). Coordino e gestisco i laboratori di microscopia elettronica del Centro CSFT. Nell'ambito della mia attività di ricerca, coordino un gruppo di lavoro il cui obiettivo è lo studio e lo sviluppo di catalizzatori eterogenei per la valorizzazione dell'anidride carbonica antropogenica, utilizzando fonti di energia rinnovabili, con l'obiettivo finale di ottenere prodotti ad alto valore aggiunto, come CO, acido formico, metano, metanolo, che sono solitamente ottenuti come derivati da fonti fossili. Sono PI di due progetti di ricerca (SATURNO - regionale e SUNCOCHEM-europeo). La mia attività sperimentale di laboratorio è principalmente legata allo studio delle proprietà



morfologico-strutturali dei materiali utilizzando tecniche di microscopia elettronica sia convenzionale che in-situ. Collaboro con colleghi di istituti di ricerca nazionali e internazionali quali Politecnico di Torino, Università di Torino, Istituto Nazionale di Ricerca Metrologica di Torino, CNR di Bologna, Roma, Parma e Messina, Università di Messina, Università di Milano, EURECAT (The Technology Centre of Catalonia) - Spagna, JCAP: Joint Center for Artificial Photosynthesis, Berkeley, California - USA, Centro de Nanociencias y Nanotecnologías - Universidad Nacional Autónoma de México, Ensenada, B. C. México.

16 maggio 2016 - 30 novembre 2017

Ricercatore Tecnologo presso Center for Sustainable Future Technologies, Torino, linea di ricerca Advanced Materials, PI prof. Fabrizio Pirri

1 dicembre 2012 - 15 maggio 2016

Ricercatore Tecnologo presso il Center for Space Human Robotics (CSHR), Torino, piattaforma Energia

1 dicembre 2009 - 30 novembre 2012

Senior post-doc presso il Center for Space Human Robotics (CSHR), Torino, Piattaforma Energia

1 ottobre 2008 - 30 novembre 2009

Posizione post-doc su "Applicazioni nanotecnologiche per pozzi petroliferi e sensori di depositi petroliferi", Dipartimento di Ingegneria dell'Ambiente, del Territorio e delle Infrastrutture, Politecnico di Torino.

1 luglio 2005 - 30 settembre 2008

Attività di Post-Doc su "Microscopia FESEM per la caratterizzazione di nanostrutture", Dipartimento di Fisica, Politecnico di Torino.

1 giugno 2005 - 15 luglio 2005

Attività di ricerca su "Caratterizzazione strutturale di film sottili intermetallici e ceramici", Dipartimento di Fisica, Politecnico di Torino.

1 Gennaio 2005 - 1 Marzo 2005

Attività di ricerca su "Caratterizzazione elettrica di trasporto su superconduttori su substrato di silicio", Dipartimento di Fisica, Politecnico di Torino.

1 Gennaio 2002 - 31 Dicembre 2004

Dottorato di ricerca in Fisica, su "Integrazione semiconduttore-superconduttore", Dipartimento di Fisica, Politecnico di Torino.

1 Ottobre 2001 - 31 Dicembre 2001

Attività di ricerca su "Caratterizzazioni strutturali su superconduttori prima e dopo l'irraggiamento", INFN (Istituto Nazionale di Fisica Nucleare) - Dipartimento di Fisica, Politecnico di Torino.

1 aprile 2001 - 31 luglio 2001

Attività di ricerca su "Buffer layers per integrazione Si-YBCO", INFM (Istituto Nazionale di Fisica della Materia) - Dipartimento di Fisica, Politecnico di Torino.



1 aprile 1999 - 31 marzo 2001

Borsa di studio su "Semiconduttori e superconduttori in ambiente spaziale", INFM (Istituto Nazionale di Fisica della Materia) - Dipartimento di Fisica, Politecnico di Torino.

Settembre 1997 - Febbraio 1998

Stage presso i laboratori CSELT S.p.A (Centro Studi E Laboratori Telecomunicazioni) per le caratterizzazioni di fotoluminescenza di semiconduttori III-V per dispositivi optoelettronici.

#### ALTRE ESPERIENZE DI RICERCA

19 ottobre 2009 - 30 novembre 2009 post-doc in visita nel gruppo della prof. Angela Rizzi (IV. Physikalisches Institut - Semiconductor Physics, Georg-August-Universität Göttingen, Göttingen - Germania) nell'ambito del progetto europeo "Nanolicht" coordinato dal prof. Giancarlo Cicero, Politecnico di Torino, per la caratterizzazione TEM di nanofili InN.

18 febbraio 2017 - 19 marzo 2017 visiting research scientist nel gruppo del prof. Andrea Falqui (King Abdullah University of Science and Technology (KAUST) - NABLA Laboratory, Biological and Environmental Sciences and Engineering Division (BESE) Thuwal, Arabia Saudita) nell'ambito di una collaborazione riguardante la caratterizzazione al microscopio elettronico di nanostrutture, e in particolare riguardante lo studio del comportamento di materiali catalitici sotto diversi stimoli mediante approcci TEM in situ, e la microscopia correlativa EM-Optical su campioni biologici.

#### SCUOLE

- 2010-2011, 22- 26 novembre 2010 Corso teorico, 7 -11 febbraio 2011 Corso pratico, Bologna-Italy, Scuola di Microscopia Elettronica "Pier Giorgio Merli", Corso Teorico Pratico di Microscopia Elettronica in Trasmissione in Scienza dei Materiali
- 2009 9-11 marzo, Valencia-Spain, Advanced school on hybrid nanostructured materials for photovoltaic applications
- 2007, 25-29 giugno, Genova-Italy, Principles of Fluorescence Techniques Course and CONFOCAL 9
- 2006, 17-24 ottobre, Lecce-Italy, Scuola teorico-sperimentale di Microscopia Elettronica a Scansione in Scienza dei Materiali
- 2005, 5 aprile, INFN-Sez Torino-Italy Corso di formazione "Aspetti operativi della radioprotezione"
- 2004, 21-25 giugno, Alessandria-Italy, Scuola estiva di diffrazione di materiali policristallini
- 2001, 5-10 marzo, ICTP Miramare (Ts)-Italy, International School on Crystal Growth of Materials for Energy Production and Energy-Saving Applications
- 1999, 27 settembre – 1 ottobre, Iglesias (Ca)-Italy, Giornate di Diffrazione e Microscopia Applicate

#### ALTRO

Dal 16 marzo 2017, membro esterno del Comitato Scientifico del "Centro Interdipartimentale di Cristallografia" (CrisDi), Università degli Studi di Torino.

#### CONFERENZE

- 2020, 15<sup>th</sup>-18<sup>th</sup> September, Rome Nanoinnovation 2020 Conference. Organization



and chairing of the Symposium titled "Advanced Materials and Technologies for Sustainability",

- 2019, 11<sup>th</sup>-14<sup>th</sup> June 2019, Rome Nanoinnovation 2019 Conference. Organization and chairing of the Symposium on the 13<sup>th</sup> of June, titled "Sustainable materials for CO<sub>2</sub> photo/electrocatalytic valorization"
- 2018, 3rd December, London Centre for Nanotechnology, Imperial College, London, invited seminar on "Sustainable materials for CO<sub>2</sub> capture and valorization"
- 2018, 4th-6th October 2018, SMART MATERIALS 2018, Invited oral presentation on "Nanostructured catalysts for CO<sub>2</sub> reduction"
- 2018, 11th-14th September, Rome-Italy, Nanoinnovation 2018, oral presentation on "Tin and copper - based catalysts for CO<sub>2</sub> reduction"
- 2017, 12th-15th December, Napoli-Italy, Conference European Fuel Cell Technology & Applications, oral presentation on "MnxOy DECORATED CARBON-BASED CATHODE FOR ORR CATALYSIS"
- 2015, 16th-18th December, Napoli-Italy, Conference European Fuel Cell Technology & Applications
- 2013, 25th-30th August, Regensburg-Germany, Conference Microscopy Conference MC 2013, poster presentation on "TiO<sub>2</sub> nanotubes arrays as active material for energy harvesting and storage devices" and "Characterization of graphene layers functionalized through radical UV-grafting"
- 2011, 22nd-26th October, Dalian-China, Conference BIT 1st Annual Conference on NanoScience and Technology, invited oral presentation on "Electron microscopy characterization of core-shell nanostructures for dye sensitized solar cell applications"
- 2008, 4th-7th June, Alicante - Spain, Conference Probing Superconductivity at the Nanoscale, poster presentation on "Modulated nanostructuring of HTSC films by heavy ion lithography"
- 2007, 17th-21st June, Prague-Czech Republic, Conference 8th Multinational Congress on Microscopy, oral presentation on "Characterization of Al-Ti and Al-Zr based nanostructured oxide coatings by means of electron and scanning probe microscopies"
- 2006, 29th-31st March, Sestri Levante-Italy, Conference Satt13 - XIII National Conference on high-T<sub>c</sub> Superconductivity, poster presentation on "Superconducting properties of YBCO films in the Si/YSZ/CeO<sub>2</sub>/YBCO multilayer"
- 2005, 14th January, Modena-Italy, Workshop on X-ray diffraction, invited oral contribution on "Applicazioni della diffrazione di raggi X (tecniche tradizionali e non-tradizionali) all'analisi di fase dei film sottili"
- 2004, 21st-23rd April, Roma-Italy, Conference Satt12 - XII National Conference on high-T<sub>c</sub> Superconductivity, poster presentation on "Superconducting properties of YBCO films in the Si/YSZ/CeO<sub>2</sub>/YBCO multilayer"
- 2004, 8th-10th June, Genova-Italy, Conference INFM Meeting, poster presentation on "Structural and Electrical Transport Characterisation of Si/YSZ/CeO<sub>2</sub>/YBCO Multilayers"
- 2003, 13th-18th October, Badajoz, Spain, Conference First International Meeting on Applied Physics APHYS2003, poster presentation on "Characterization of Silicon-YBCO buffered multilayers grown by sputtering"
- 2003, 23rd-25th June, Genova-Italy, Conference INFM Meeting, poster presentation on "Correlation between vortex pinning and anisotropic structural defects in YBCO films on NdGaO<sub>3</sub> substrate."



- 2002 30th September-2nd October, Monaco-Germany, Conference Materials Week 2002, oral presentation on "YBCO-Based Multilayers for Superconductor/Semiconductor Integrated Electronics"
- 2002, 24th-28th June, Bari-Italy, Conference INFM Meeting, poster presentation on "Growth and characterization of a-axis YBCO films on CeO<sub>2</sub>/Si substrates"
- 2002, 19th-22nd March, Vietri Sul Mare (Sa)-Italy, Conference Satt11 - XI National Conference on high-T<sub>c</sub> Superconductivity, poster presentation on "Microstructures of sputtered oriented Si/CeO<sub>2</sub> bi-layers for YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub>/Si integrated microelectronics"
- 2001, 18th-22nd June, Roma-Italy, Conference INFM Meeting, poster presentation on "Comparison of magnetic granularity and vortex bundle dynamics in layered superconductors and superconducting MgB<sub>2</sub> by means of magneto-optical analysis"
- 2000, 9th-12th May, Frascati (Roma)-Italy, Conference Satt10-X National Conference on high-T<sub>c</sub> Superconductivity, poster presentation on "Magneto-optical images of as-grown and heavy ion implanted high-T<sub>c</sub> superconductors"
- 1999, 21st-24th November, Antwerp-Belgium, Conference Second Euroconference on "Nanoscience for Nanotechnology"

## PROGETTI

05/05/2020- 04/05/2024	PI of CSFT-IIT Unit of SUNCOCHEM project (Photoelectrocatalytic device for SUN-driven CO <sub>2</sub> conversion into green CHEMicals), call RIA ACTION, CALL H2020-NMBP-ST-IND-2018-2020, 05/05/2020 - 04/05/2024 (to be confirmed)
10/07/2020- 09/01/2022	PI of CSFT-IIT Unit of SATURNO project (Scarti organici e Anidride carbonica Trasformati in carbURanti, fertilizzanti e prodotti chimici; applicazione concreta dell'econoMia circolare), founded by REGIONE PIEMONTE, POR FESR 2014/2020, PIATTAFORMA TECNOLOGICA "Bioeconomia" 10/07/2019 - 09/01/2022
01/03/2015- 30/11/2020	PI of CSFT-IIT Unit of INTHERM project (H2020 European Research Council (ERC), grant agreement No 639495, financed by EU funds, coordinated by Prof. A. Fina, Politecnico di Torino.
21/06/2014- 02/09/2014	Technology Transfer projects - Electron Microscopy (scientific responsible)
29/07/2015- 15/09/2015	Technology Transfer projects - Electron Microscopy (scientific responsible)
26/08/2015- 31/12/2015	Technology Transfer projects - Electron Microscopy (scientific responsible)

## ESPERIENZA DI INSEGNAMENTO E TUTORAGGIO

<b>A.A. 2020/2021</b>	<ul style="list-style-type: none"> <li>• Materials for MEMS and Characterization of Technological Processes, Electron Microscopy Laboratory</li> </ul>
<b>A.A. 2019/2020</b>	<ul style="list-style-type: none"> <li>• Introduzione alla microscopia elettronica PhD course in Physics</li> <li>• Materials for MEMS and Characterization of Technological Processes, Electron Microscopy Laboratory</li> </ul>



- A.A. 2018/2019**
- Introduzione alla microscopia elettronica  
PhD course in Physics
  - Materials for MEMS and Characterization of Technological Processes, Electron Microscopy Laboratory
  - Chimica e fisica della materia – Nanotecnologie (Master in Smart State Of The Art Manufacturing), lectures
- A.A. 2016/2017** Materials for MEMS and Characterization of Technological Processes, Electron Microscopy Laboratory
- A.A. 2015/2016** Materials for MEMS and Characterization of Technological Processes, Electron Microscopy Laboratory
- A.A. 2014/2015** Fisica II, Teaching Assistant  
Materials for MEMS and Characterization of Technological Processes, Electron Microscopy Laboratory
- A.A. 2013/2014**
- Chimica-fisica dei materiali per le nanotecnologie, PhD course in SCIENZA E TECNOLOGIA DEI MATERIALI, Lecture
  - Materials for MEMS and Characterization of Technological Processes, Electron Microscopy Laboratory
- A.A. 2012/2013**
- Chimica-fisica dei materiali per le nanotecnologie, PhD course in SCIENZA E TECNOLOGIA DEI MATERIALI, Lecture
  - Advanced experimental physics, Teaching Assistant
  - Materials for MEMS and Characterization of Technological Processes, Electron Microscopy Laboratory
- A.A. 2011/2012**
- Advanced experimental physics, Teaching Assistant
  - Materials for MEMS and Characterization of Technological Processes, Electron Microscopy Laboratory
- A.A. 2010/2011** Materials for MEMS and Characterization of Technological Processes, Electron Microscopy Laboratory
- A.A. 2009/2010** Chimica-fisica dei materiali per le nanotecnologie, PhD course in SCIENZA E TECNOLOGIA DEI MATERIALI, Lecture
- A.A. 2008/2009**
- Characterizations of technological processes, Teaching Assistant
  - Fisica II, Teaching Assistant
  - Fisica dei materiali e dei processi, Teaching Assistant
- A.A. 2007/2008**
- Characterizations of technological processes, Teaching Assistant
  - Fisica I, Teaching Assistant
  - Fisica II, Teaching Assistant
  - Fisica dei materiali e dei processi, Teaching Assistant
  - Fisica generale I, Teaching Assistant
  - Fisica generale II, Teaching Assistant



- A.A. 2006/2007**
- Characterizations of technological processes, Teaching Assistant
  - Fisica I, Teaching Assistant
  - Fisica II, Teaching Assistant
  - Fisica generale I, Teaching Assistant
  - Tecniche sperimentali e tecnologie, lecture
- A.A. 2005/2006**
- Characterizations of technological processes, Teaching Assistant
  - Fisica Sperimentale I, Teaching Assistant
  - Fisica II, Teaching Assistant
- A.A. 2004/2005**
- Fisica I, Teaching Assistant
- A.A. 2003/2004**
- Fisica I, Teaching Assistant
  - Fisica II, Teaching Assistant
  - Laboratorio di fisica generale, Teaching Assistant
- A.A. 2002/2003**
- Laboratorio di fisica generale, Teaching Assistant
  - Laboratorio di fisica sperimentale, Teaching Assistant
- A.A. 2001/2002**
- Laboratorio di fisica generale, Teaching Assistant
  - Laboratorio di fisica sperimentale, Teaching Assistant

**CAPACITÀ E COMPETENZE  
PERSONALI**

**CAPACITÀ E COMPETENZE  
RELAZIONALI**

- Spirito di gruppo;
- Ottimo adattamento agli ambienti pluriculturali;
- Capacità di comunicazione;
- Determinazione
- Ottima capacità organizzativa

**LINGUA MADRE**

Italian

**ALTRE LINGUE**

English:

Reading skills: very good

Writing skills: very good

Oral skills: good

P.E.T. : *Pass with Merit* (Council of Europe Level B1) 24<sup>th</sup> July 2003

BRITISH INSTITUTES Attendance to "Professional Conversation", level B1+

French:

Reading skills: elementary

Writing skills: elementary



Oral skills: elementary

## PUBBLICAZIONI

A. Chiodoni è autore e coautore di numerose pubblicazioni scientifiche su riviste internazionali. Di seguito l'elenco completo dei lavori pubblicati:

1. Garino N., Sacco A., Chiodoni A., Pirri C.F., Castellino M., Microwave-assisted synthesis of nitrogen and sulphur doped graphene decorated with antimony oxide: An effective catalyst for oxygen reduction reaction (2022) *Materials* 15(1),10
2. Sartoretti E., Novara C., Chiodoni A., Giorgis F., Piumetti M., Bensaid S., Russo N., Fino D., Nanostructured ceria-based catalysts doped with La and Nd: How acid-base sites and redox properties determine the oxidation mechanisms (2021) *Catalysis Today* (in press)
3. Benetatos C., Bocchini S., Carpignano A., Chiodoni A., Cocuzza M., Deangeli C., Eid C., Ferrero D., Gerboni R., Giglio G., Lamberti A., Marasso S., Massimiani A., Menin B., Moscatello A., Panini F., Peter C., Pirri F., Quaglio M., Rocca V., Rovere A., Borello E.S., Serazio C., Uggenti A.C., Vasile N., Verga F., Viberti D., How underground systems can contribute to meet the challenges of energy transition (2021) *Geoingegneria Ambientale e Mineraria* 58(1-2), pp. 65-80
4. Mezza A., Pettigiani A., Monti N.B.D., Bocchini S., Amin Farkhondehfar M., Zeng J., Chiodoni A., Pirri C.F., Sacco A., An electrochemical platform for the carbon dioxide capture and conversion to syngas (2021) *Energies* 14(23), 7869
5. Massaglia G., Sacco A., Chiodoni A., Pirri C.F., Quaglio M., Living bacteria directly embedded into electrospun nanofibers: Design of new anode for bio-electrochemical systems (2021) *Nanomaterials* 11(11), 3088
6. Cauda V., Xu T.T., Nunes I., Mereu E., Villata S., Bergaggio E., Labrador M., Limongi T., Susa F., Chiodoni A., Cumerlato M., Rosso G., Stefania R., Piva R., Biomimetic mesoporous vectors enabling the efficient inhibition of wild-type isocitrate dehydrogenase in multiple myeloma cells (2021) *Microporous and Mesoporous Materials* 325, 111320
7. Vigna L., Nigro A., Verna A., Ferrari I.V., Marasso S.L., Bocchini S., Fontana M., Chiodoni A., Pirri C.F., Cocuzza M., Layered double hydroxide-based gas sensors for voc detection at room temperature (2021) *ACS Omega* 6(31), 20205-20217
8. Bejtka K., Monti N.B.D., Sacco A., Castellino M., Porro S., Farkhondehfar M.A., Zeng J., Pirri C.F., Chiodoni A., Zn- and Ti-doped SnO<sub>2</sub> for enhanced electroreduction of carbon dioxide (2021) *Materials* 14(9), 2354
9. Garino N., Zeng J., Castellino M., Sacco A., Risplendi F., Fiorentin M.R., Bejtka K., Chiodoni A., Salomon D., Segura-Ruiz J., Pirri C.F., Cicero G., Facilely synthesized nitrogen-doped reduced graphene oxide functionalized with copper ions as electrocatalyst for oxygen reduction (2021) *2D Materials and Applications* 5(1), 2
10. Massaglia G., Sacco A., Castellino M., Chiodoni A., Frascella F., Bianco S., Pirri C.F., Quaglio M., N-doping modification by plasma treatment in polyacrylonitrile derived carbon-based nanofibers for Oxygen Reduction Reaction (2021) *International Journal of Hydrogen Energy* 46(26), 13845-13854
11. Zeng J., Castellino M., Bejtka K., Sacco A., Di Martino G., Farkhondehfar M.A., Chiodoni A., Hernández S., Pirri C.F., Facile synthesis of cubic cuprous oxide for electrochemical reduction of carbon dioxide (2021) *Journal of Materials Science* 56(2), 1255-1271
12. Scordo G., Bertana V., Ballesio A., Carcione R., Marasso S.L., Cocuzza M., Pirri C.F., Manachino M., Gomez M.G., Vitale A., Chiodoni A., Tamburri E., Scaltrito L., Effect





- of volatile organic compounds adsorption on 3D-printed pegda:Pedot for long-term monitoring devices (2021) *Nanomaterials* 11(1) 94, 1-15
13. Rodríguez-Hernández A.G., Chiodoni A., Bocchini S., Vazquez-Duhalt R., 3D printer waste, a new source of nanoplastic pollutants (2020) *Environmental Pollution* 267, 115609
  14. Farkhondehfal M.A., Hernández S., Rattalino M., Makkee M., Lamberti A., Chiodoni A., Bejtka K., Sacco A., Pirri F.C., Russo N., Syngas production by electrocatalytic reduction of CO<sub>2</sub> using Ag-decorated TiO<sub>2</sub> nanotubes (2020) *International Journal of Hydrogen Energy* (45-50), 26458-26471
  15. Zeng J., Rino T., Bejtka K., Castellino M., Sacco A., Farkhondehfal M.A., Chiodoni A., Drago F., Pirri C.F., Coupled Copper–Zinc Catalysts for Electrochemical Reduction of Carbon Dioxide (2020) *ChemSusChem* 13(16), 4128-4139
  16. Sacco A., Speranza R., Savino U., Zeng J., Farkhondehfal M.A., Lamberti A., Chiodoni A., Pirri C.F., An Integrated Device for the Solar-Driven Electrochemical Conversion of CO<sub>2</sub> to CO (2020) *ACS Sustainable Chemistry and Engineering* 8(20), 7563-7568
  17. Serrapede M., Savino U., Castellino M., Amici J., Bodoardo S., Tresso E., Chiodoni A. Li<sup>+</sup> insertion in nanostructured TiO<sub>2</sub> for energy storage (2020) *Materials* 13 (1), 21
  18. Massaglia G., Margaria V., Fiorentin M.R., Pasha K., Sacco A., Castellino M., Chiodoni A., Bianco S., Pirri F.C., Quaglio M., Nonwoven mats of N-doped carbon nanofibers as high-performing anodes in microbial fuel cells (2020) *Materials Today Energy* 16, 100385
  19. Zeng J., Bejtka K., Di Martino G., Sacco A., Castellino M., Re Fiorentin M., Risplendi F., Farkhondehfal M.A., Hernandez S., Cicero G., Pirri C.F., Chiodoni A. Microwave-Assisted Synthesis of Copper-Based Electrocatalysts for Converting Carbon Dioxide to Tunable Syngas (2020) *ChemElectroChem* 7(1), 229-238
  20. Stassi S., De Laurentis G., Chakraborty D., Bejtka K., Chiodoni A., Sader J.E., Ricciardi C. Large-scale parallelization of nanomechanical mass spectrometry with weakly-coupled resonators (2019) *Nature Communications* 10 (1), 3647
  21. Mazzaracchio V., Tomei M.R., Cacciotti I., Chiodoni A., Novara C., Castellino M., Scordo G., Amine A., Moscone D., Arduini F. Inside the different types of carbon black as nanomodifiers for screen-printed electrodes (2019) *Electrochimica Acta* (317), pp 673-683
  22. Vitale A., Massaglia G., Chiodoni A., Bongiovanni R., Pirri C.F., Quaglio M. Tuning Porosity and Functionality of Electrospun Rubber Nanofiber Mats by Photo-Crosslinking (2019) *ACS Applied Materials and Interfaces* 11 (27), pp 24544-24551
  23. Garino N., Castellino M., Sacco A., Risplendi F., Munoz-Tabares J.A., Armandi M., Chiodoni A., Salomon D., Quaglio M., Pirri C.F., Cicero G. Proving the existence of Mn porphyrin-like complexes hosted in reduced graphene oxide with outstanding performance as oxygen reduction reaction catalysts (2019) *2D Materials*, 6 (4), 045001
  24. Bejtka K., Zeng J., Sacco A., Castellino M., Hernandez S., Farkhondehfal M.A., Savino U., Ansaloni S., Pirri C.F., Chiodoni A. Chainlike Mesoporous SnO<sub>2</sub> as a Well-Performing Catalyst for Electrochemical CO<sub>2</sub> Reduction (2019) *ACS Applied Energy Materials* 2 (5), pp 3081-3091
  25. Sacco A., Zeng J., Bejtka K., Chiodoni A. Modeling of gas bubble-induced mass transport in the electrochemical reduction of carbon dioxide on nanostructured electrodes (2019) *Journal of Catalysis*, 372, pp 39-48
  26. Massaglia G., Margaria V., Sacco A., Castellino M., Chiodoni A., Pirri F.C., Quaglio



- M. N-doped carbon nanofibers as catalyst layer at cathode in single chamber Microbial Fuel Cells (2019) *International Journal of Hydrogen Energy*, 44, pp 4442-4449
27. Farkhondehfal M.A., Hernandez S., Rattalino M., Makkee M., Lamberti A., Chiodoni A., Bejtka K., Sacco A., Pirri F.C., Russo N. Syngas production by electrocatalytic reduction of CO<sub>2</sub> using Ag-decorated TiO<sub>2</sub> nanotubes (2019) *International Journal of Hydrogen Energy* in press
  28. A. Chiodoni, G.P. Salvador, G. Massaglia, L. Delmondo, J.A. Muñoz-Tabares, A. Sacco, N. Garino, M. Castellino, V. Margaria, D. Ahmed, C.F. Pirri, M. Quaglio, Mn<sub>x</sub>O<sub>y</sub>- based cathodes for oxygen reduction reaction catalysis in microbial fuel cells, (2018) *International Journal of Hydrogen Energy*, 44(9), pp 4432-4441
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Autorizzo il trattamento dei miei dati personali in conformità al D.Lgs. 196/2003.