



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

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, 15th-18th September, Rome Nanoinnovation 2020 Conference. Organization



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

- 2019, 11th-14th June 2019, Rome Nanoinnovation 2019 Conference. Organization and chairing of the Symposium on the 13th of June, titled "Sustainable materials for CO₂ photo/electrocatalytic valorization"
- 2018, 3rd December, London Centre for Nanotechnology, Imperial College, London, invited seminar on "Sustainable materials for CO₂ capture and valorization"
- 2018, 4th-6th October 2018, SMART MATERIALS 2018, Invited oral presentation on "Nanostructured catalysts for CO₂ reduction"
- 2018, 11th-14th September, Rome-Italy, Nanoinnovation 2018, oral presentation on "Tin and copper - based catalysts for CO₂ 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 "TiO₂ 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_c Superconductivity, poster presentation on "Superconducting properties of YBCO films in the Si/YSZ/CeO₂/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_c Superconductivity, poster presentation on "Superconducting properties of YBCO films in the Si/YSZ/CeO₂/YBCO multilayer"
- 2004, 8th-10th June, Genova-Italy, Conference INFM Meeting, poster presentation on "Structural and Electrical Transport Characterisation of Si/YSZ/CeO₂/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 NdGaO₃ 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 CeO₂/Si substrates"
- 2002, 19th-22nd March, Vietri Sul Mare (Sa)-Italy, Conference Satt11 - XI National Conference on high-T_c Superconductivity, poster presentation on "Microstructures of sputtered oriented Si/CeO₂ bi-layers for YBa₂Cu₃O_{7-x}/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 MgB₂ by means of magneto-optical analysis"
- 2000, 9th-12th May, Frascati (Roma)-Italy, Conference Satt10-X National Conference on high-T_c Superconductivity, poster presentation on "Magneto-optical images of as-grown and heavy ion implanted high-T_c 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 ₂ 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

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



- 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) 24th 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. 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
2. 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
3. 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 SnO₂ for enhanced electroreduction of carbon dioxide (2021) *Materials* 14(9), 2354
4. 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
5. 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
6. 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
7. 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
8. 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
9. Farkhondehfar 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 CO₂ using Ag-decorated TiO₂ nanotubes (2020) *International Journal of Hydrogen Energy* (45-50), 26458-26471
10. Zeng J., Rino T., Bejtka K., Castellino M., Sacco A., Farkhondehfar 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
11. Sacco A., Speranza R., Savino U., Zeng J., Farkhondehfar M.A., Lamberti A., Chiodoni A., Pirri C.F., An Integrated Device for the Solar-Driven Electrochemical Conversion of CO₂ to CO (2020) *ACS Sustainable Chemistry and Engineering* 8(20), 7563-7568
12. Serrapede M., Savino U., Castellino M., Amici J., Bodoardo S., Tresso E., Chiodoni A. Li⁺ insertion in nanostructured TiO₂ for energy storage (2020) *Materials* 13 (1), 21
13. 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
14. Zeng J., Bejtka K., Di Martino G., Sacco A., Castellino M., Re Fiorentin M., Risplendi F., Farkhondehfar 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
 15. 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
 16. 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
 17. 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
 18. 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
 19. Bejtka K., Zeng J., Sacco A., Castellino M., Hernandez S., Farkhondehfar M.A., Savino U., Ansaloni S., Pirri C.F., Chiodoni A. Chainlike Mesoporous SnO₂ as a Well-Performing Catalyst for Electrochemical CO₂ Reduction (2019) *ACS Applied Energy Materials* 2 (5), pp 3081-3091
 20. 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
 21. 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
 22. Farkhondehfar 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 CO₂ using Ag-decorated TiO₂ nanotubes (2019) *International Journal of Hydrogen Energy* in press
 23. 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_xO_y- based cathodes for oxygen reduction reaction catalysis in microbial fuel cells, (2018) *International Journal of Hydrogen Energy*, 44(9), pp 4432-4441
 24. Quaglio, M., Massaglia, G., Vasile, N., Margaria, V., Chiodoni, A., Salvador, G.P., Marasso, S.L., Cocuzza, M., Saracco, G., Pirri, F.C. A fluid dynamics perspective on material selection in microbial fuel cell-based biosensors (2019) *International Journal of Hydrogen Energy*, 44 (9), pp 4533-4542
 25. Quaglio, M., Chiodoni, A., Massaglia, G., Delmondo, L., Sacco, A., Garino, N., Castellino, M., Bianco, S., Margaria, V., Salvador, G.P., Pirri, C.F. Electrospinning-on-electrode assembly for air-cathodes in microbial fuel cells (2018) *Advanced Materials Interfaces*, 5 (24), 1801107
 26. Stassi S., Lamberti A., Lorenzoni M., Garino N., Canavese G., Bianco S., Bejtka K.,



- Chiodoni A., Pirri C.F. Multiscale measurements of piezoelectric response of hydrothermal converted BaTiO₃ 1D vertical arrays (2018) *Applied Physics Letters*, 113 (25), 253102
27. Zeng, J., Bejtka, K., Ju, W., Castellino, M., Chiodoni, A., Sacco, A., Farkhondehfar, M.A., Hernández, S., Rentsch, D., Battaglia, C., Pirri, C.F. Advanced Cu-Sn foam for selectively converting CO₂ to CO in aqueous solution (2018) *Applied Catalysis B: Environmental*, 236, pp. 475-482.
28. Gadhi, T.A., Hernández, S., Castellino, M., Chiodoni, A., Husak, T., Barrera, G., Allia, P., Russo, N., Tagliaferro, A. Single BiFeO₃ and mixed BiFeO₃/Fe₂O₃/Bi₂Fe₄O₉ ferromagnetic photocatalysts for solar light driven water oxidation and dye pollutants degradation (2018) *Journal of Industrial and Engineering Chemistry*, 63, pp. 437-448.
29. Salvador, G.P., Gerosa, M., Sacco, A., Garino, N., Castellino, M., Massaglia, G., Delmondo, L., Agostino, V., Margaria, V., Chiodoni, A., Quaglio, M. Green-Synthesized Nitrogen-Doped Carbon-Based Aerogels as Environmentally Friendly Catalysts for Oxygen Reduction in Microbial Fuel Cells (2018) *Energy Technology*, 6 (6), pp. 1052-1059.
30. Massaglia G., Chiodoni A., Marasso S.L., Pirri C.F., Quaglio M. Electrical conductivity modulation of crosslinked composite nanofibers based on PEO and PEDOT:PSS (2018) *Journal of Nanomaterials* Article ID 3286901,
31. Albanese, P., Melero, R., Engel, B.D., Grinzato, A., Berto, P., Manfredi, M., Chiodoni, A., Vargas, J., Sorzano, C.Ó.S., Marengo, E., Saracco, G., Zanotti, G., Carazo, J.-M., Pagliano, C. Pea PSII-LHCII supercomplexes form pairs by making connections across the stromal gap (2017) *Scientific Reports*, 7 (1), art. no. 10067
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Torino, 09 novembre 2021

Angelica Monica Chiodoni

Autorizzo il trattamento dei miei dati personali in conformità al D.Lgs. 196/2003.