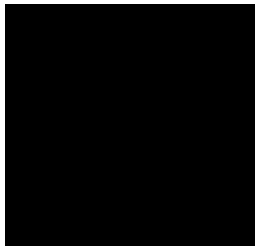


## PERSONAL INFORMATION

### Stefano Stassi



Politecnico di Torino  
Department of Applied Science and Technology (DISAT)  
Corso Duca degli Abruzzi 24  
10129 – Torino, Italy

✉ [stefano.stassi@polito.it](mailto:stefano.stassi@polito.it)



[Redacted]

[Redacted]

## WORK EXPERIENCE

Aug. 2023 - Now

### Associate professor

Dipartimento di Scienza Applicata e Tecnologia, Politecnico di Torino – Torino (Italy)

- Scientific branch: FIS/03. Physics of matter.
- Research topic: Investigation of wearable sensing device and energy harvesting and fabrication by 3D printing technologies.

Aug. 2020 – July 2023

### Assistant professor Legge 240/10 art.24-B

Dipartimento di Scienza Applicata e Tecnologia, Politecnico di Torino – Torino (Italy)

- Scientific branch: FIS/03. Physics of matter.
- Research topic: Investigation of MEMS device for environmental-security-agricultural-biomedical sectors. Investigation of wearable sensing device and energy harvesting.

Sept. 2016 – July 2020

### Assistant professor Legge 240/10 art.24-A

Dipartimento di Scienza Applicata e Tecnologia, Politecnico di Torino – Torino (Italy)

- Scientific branch: FIS/03. Physics of matter.
- Research topic: Investigation of MEMS device for environmental-security-agricultural-biomedical sectors.

Aug. 2014 – Feb. 2015

### Visitor Researcher at Lawrence Berkeley National Laboratory

Molecular Foundry, Lawrence Berkeley National Laboratory – Berkeley (California, USA)

- Project: Fabrication of plasmonic antennas and nanochannels embedded on microresonators for single nanoparticle identification

Jul. 2013 – Sept. 2016

### PostDoctoral researcher

Dipartimento di Scienza Applicata e Tecnologia, Politecnico di Torino – Torino (Italy)

- Project: Development of innovative materials and process techniques for the fabrication of M/NEMS and optical devices for application in environmental-security-agricultural-biomedical sectors

Feb. 2013 – Jun. 2013

### Fellow scientist

Center for Space Human Robotics, IIT@PoliTo - Torino (Italy)

- Project: Preparation of a metal-polymer composite material with piezoresistive properties for the fabrication of a matrix tactile sensor.

## EDUCATION AND TRAINING

- 29/12/2009 - 05/02/2013 **PhD in Physic**  
Politecnico di Torino; Center for Space Human Robotics, IIT@PoliTo - Torino (Italy)
- 18/09/2007 - 10/09/2009 **Master degree in Micro and Nanotechnologies for Integrated Systems**  
Politecnico di Torino, INPG, EPFL – Torino (Italy), Grenoble(France), Lausanne(Switzerland)
- 13/09/2004 - 07/09/2007 **Bachelor degree in Physical Engineering**  
Politecnico di Torino - Torino (Italy)

## PERSONAL SKILLS

- Mother tongue(s) **ITALIAN**
- OTHER LANGUAGE(S) **ENGLISH:** Very good level both in writing and speaking.  
**FRENCH:** Medium level

## ADDITIONAL INFORMATION

### Publications

Total number of publications in peer-review journals: **76**  
total number of citations: **2288**  
H index: **26** (data from Scopus May 2024)

#### Highlighted publication:

-Self-powered integrated tactile sensing system based on ultrastretchable, self-healing and 3D printable ionic conductive hydrogel

G Mogli, M Reina, A Chiappone, A Lamberti, CF Pirri, I Roppolo, S Stassi  
*Advanced Functional Materials* (2023), 2307133, DOI:10.1002/adfm.202307133

-Reaching silicon-based NEMS performances with 3D printed nanomechanical resonators

Stassi, S., Cooperstein, I., Tortello, M., Pirri, C.F., Magdassi, S., Ricciardi, C.  
*Nature Communications* (2021), 12: 6080, DOI: 10.1038/s41467-021-26353-1

-Large-scale parallelization of nanomechanical mass spectrometry with weakly coupled resonators

Stassi, S., De Laurentis, G., Chakraborty, D., Bejtka, K., Chiodoni, A., Sader, J.E., Ricciardi, C.  
*Nature Communications* (2019), 10: 3647, DOI: 10.1038/s41467-019-11647-2

-Nanomechanical DNA resonators for sensing and structural analysis of DNA-ligand complexes

Stassi, S., Marini, M., Allione, M., Lopatin, S., Marson, D., Laurini, E., Priel, S., Pirri, C.F., Ricciardi, C., Di Fabrizio, E.  
*Nature Communications* (2019), 10: 1690, DOI: 10.1038/s41467-019-09612-0

-Flexible piezoelectric energy nanogenerator based on ZnO nanotubes hosted in a polycarbonate membrane

S. Stassi, V. Cauda, C. Ottone, A. Chiodoni, C.F. Pirri, G. Canavese  
*Nano Energy* (2015), 13: 474-481, DOI: 10.1016/j.nanoen.2015.03.024

### Projects

-PASSO-3D Printed Active Sensing inSOle, (2023-2025).  
*Progetti PRIN. Principal Investigator. Budget: 100.000,00€*

-A gnotobiotic-based approach to unravel the role of the plant microbiome and develop synthetic communities increasing plant growth and stress tolerance, (2019-2022).  
*Progetti PRIN. Principal Investigator. Budget: 153.863,00€*

-Sviluppo di un dispositivo di energy harvesting da montare su macchine per la tessitura, (2020-2022).  
*Ricerca Commerciale. Responsabile Scientifico. Budget: 44.000,00€*

-Sviluppo e ottimizzazione delle componenti di generazione, accumulo e stoccaggio energetico di un dispositivo di energy harvesting, (2020-2022).

*Ricerca Commerciale. Responsabile Scientifico. Budget: 19.000,00€*

**Patents** Elettrodi ottenuti mediante scrittura laser di fibre polimeriche per applicazioni e-Textile  
Inventori: A. Lamberti, M. Parmeggiani, M. Fontana, P. Zaccagnini, S. Bianco, S. Ferrero, F. Catania, A. Pedico, S. Stassi *Numero di deposito: 102019000013092*

**Awards** Best graduated of Politecnico di Torino a.a. 2008-2009  
Award "Associazione Cavalieri di Gran Croce"

**Invited presentations** Presentation at 23 international conferences, 5 presentations as invited.

