

# CURRICULUM VITAE



## PERSONAL INFORMATION

Name	<b>RICCARDO REITANO</b>
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E-mail	<b>riccardo.reitano@dfa.unict.it</b>
website	<b><a href="https://orcid.org/0000-0003-2796-3950">https://orcid.org/0000-0003-2796-3950</a></b>
Nazionalità	
Date of birth	

## WORK EXPERIENCE

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|--------------------------|--|
| • from 2005 - to present | Associate Professor at the Department of Physics and Astronomy - University of Catania |
| • from 1996 - to 2005    | Researcher at the Department of Physics and Astronomy - University of Catania          |
| • from 1991 - to 1992    | Post-doctoral fellow at the Division of Applied Sciences - Harvard University          |

## EDUCATION AND TRAINING

From 1987 to 1991	PhD fellow at the Department of Physics and Astronomy - University of Catania
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| • From 1981 to 1986 | Master degree in Physics - University of Catania |
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## MOTHER TONGUE

Italian

## OTHER LANGUAGES

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| • Reading  | <b>English</b><br>Excellent |
| • Writing  | Good                        |
| • Speaking | GOOD                        |

## Teaching activities

- Spectroscopy (Master in Physics)
- Materials and Nanostructures Laboratory (Master in Physics)
- Physics (Master in Farmaceutical Chemistry and Technology)

## Organizational/ Managerial Skills

- chairman of the board of the Master degree course in Physics
- coordinator of the curriculum in material science, master degree in Physics
- board member of the PhD in Material Science and Nanostructures
- delegate for the management of the physics department building

## TECHNICAL SKILLS.

Experience in the use of scientific instrumentation for growth, modification and optical characterization of materials and for lasers-matter interaction

**FURTHER INFORMATION**

- Author of 100+ publications in international journals
- Co-author of a book chapter
- reviewer for several international journals

**ATTACHMENT**

List of the publications 2020-2024

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.



Riccardo  
Reitano  
30.01.2025  
14:53:05  
GMT+02:00

**ATTACHMENT**  
**Publications 2020-2024**

1. Boscarino, S; Iacono, V; Lo Mastro, A; Scalese, S; Boninelli, S; Scandurra, A; Lombardo, S; Corso, R; Condorelli, G; Reitano, R.; Terrasi, A; Grimaldi, M.G.; Ruffino, F.  
Cu metal nanoparticles in transparent electrodes for light harvesting in solar cells  
APPLIED SURFACE SCIENCE, 159547, 655 (2024)
2. C. Calabretta, A. Pecora, M. Agati, A. Muoio, V. Scuderi, S. Privitera, R. Reitano, S. Boninelli, F. La Via  
Exploring crystal recovery and dopant activation in coated laser annealing on ion implanted 4H-SiC epitaxial layers  
Materials Science in Semiconductor Processing 174 (2024) 108175  
<https://doi.org/10.1016/j.mssp.2024.108175>
3. Calabretta, C, Scuderi, V, Bongiorno, C, Anzalone, R., Cannizzaro, A, Mauceri, M, Crippa, D, Boninelli, S, La Via, F  
Advanced approach of bulk (111) 3C-SiC epitaxial growth  
Microelectronic Engineering 283 (2024) 112116  
<https://doi.org/10.1016/j.mee.2023.112116>
4. Chiechio, RM, Battaglia, R, Caponnetto, A , Butera, E, Franzò, G, Reitano R, Purrello, M, Ragusa, M, Barbagallo, D, Barbagallo, C, Di Pietro, C, Marchi, V, Lo Faro, MJ, Contino, A, Maccarrone, G, Musumeci, P  
Er:Y<sub>2</sub>O<sub>3</sub> and Nd:Y<sub>2</sub>O<sub>3</sub> Nanoparticles: Synthesis, Pegylation, Characterization and Study of Their Luminescence Properties  
Chemosensors 2023, 11, 20  
<https://doi.org/10.3390/chemosensors11010020>
5. Chiechio, RM, Caponnetto, A, Battaglia, R, Ferrara, C, Butera, E, Musumeci, P, Reitano R, Ruffino, F, Maccarrone, G, Di Pietro, C, Marchi, V, Lanzaò, L, Arena, G, Grasso, A, Copat, C, Ferrante, M, Contino, A  
Internalization of Pegylated Er:Y<sub>2</sub>O<sub>3</sub> Nanoparticles inside HCT-116 Cancer Cells: Implications for Imaging and Drug Delivery  
ACS Applied Nano Materials **2023** 6 (20), 19126-19135  
DOI: 10.1021/acsanm.3c03609

6. Alessandra Alberti, Filippo Giannazzo, Francesco La Via, Salvatore Lombardo, Antonio M. Mio, Giuseppe Nicotra, Stefania M. S. Privitera, Riccardo Reitano, Fabrizio Roccaforte, Corrado Spinella and Emanuele Rimini  
Measuring Techniques for the Semiconductor's Parameters  
In: Rudan, M., Brunetti, R., Reggiani, S. (eds) Springer Handbook of Semiconductor Devices . Springer Handbooks. Springer, Cham.  
[https://doi.org/10.1007/978-3-030-79827-7\\_4](https://doi.org/10.1007/978-3-030-79827-7_4)
  
7. Mascali, D.; Santonocito, D.; Amaducci, S.; Andò, L.; Antonuccio, V.; Biri, S.; Bonanno, A.; Bonanno, V.P.; Briefi, S.; Busso, M.; et al.  
A Novel Approach to  $\beta$ -Decay: PANDORA, a New Experimental Setup for Future In-Plasma Measurements.  
Universe 2022, 8, 80.  
<https://doi.org/10.3390/universe8020080>
  
8. Alessandro Meli, Annamaria Muoio, Riccardo Reitano, Enrico Sangregorio, Lucia Calcagno, Antonio Trotta, Miriam Parisi, Laura Meda and Francesco La Via  
Effect of the Oxidation Process on Carrier Lifetime and on SF Defects of 4H SiC Thick Epilayer for Detection Applications  
Micromachines 2022, 13, 1042  
<https://doi.org/10.3390/mi13071042>
  
9. Meli Alessandro, Muoio Annamaria, Reitano Riccardo, Trotta Antonio, Parisi Miriam, Meda Laura and La Via Francesco  
Optical Characterization of 4H-SiC Thick Epitaxial Layer for Particle Detection  
Materials Science Forum 2022, 1062, 278-282  
<https://doi.org/10.4028/p-85482w>
  
10. G. Castro, L. Celona, F. Chines, G. Costanzo, S. Gammino, O. Leonardi, L. Malferrari, A. Massara, C. Maugeri, L. Neri, F. Odorici, S. Passarello, R. Reitano, F. Russo, D. Siliato  
Journal of Physics: Conference Series 2022, 2277, 012025
  
11. M. Mazzaglia, L. Celona, S. Gammino, E. Naselli, R. Reitano, G. Torrisi and D. Mascali  
Optical emission spectroscopy measurements of hydrogen and argon plasmas at high resolution

12. Simona Filice, Roberto Fiorenza, Riccardo Reitano, Silvia Scalese, Salvatore Scire ,  
Giuseppe Fisicaro, Ioannis Deretzis, Antonino La Magna, Corrado Bongiorno, and  
Giuseppe Compagnini  
TiO<sub>2</sub> Colloids Laser-Treated in Ethanol for Photocatalytic H<sub>2</sub> Production  
ACS Appl. Nano Mater. 2020, 3, 9127–9140  
<https://doi.org/10.3390/ma12203293>
13. Giuseppe Fisicaro, Simona Filice, Silvia Scalese, Giuseppe Compagnini, Riccardo  
Reitano, Luigi Genovese, Stefan Goedecker, Ioannis Deretzis and Antonino La Magna  
Wet Environment Effects for Ethanol and Water Adsorption on Anatase TiO<sub>2</sub> (101)  
Surfaces  
J. Phys. Chem. C 2020, 124, 2406–2419 (2020)