

CURRICULUM VITAE



PERSONAL INFORMATION

Name **RICCARDO REITANO**
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Nazionalità Italian
Date of birth 24 JUNE 1962

WORK EXPERIENCE

- 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
- From 1981 to 1986 Master degree in Physics - University of Catania

MOTHER TONGUE

Italian

OTHER LANGUAGES

- English**
- Reading 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
- Director of the Reasearch Center "L'ora del mare"
- delegate for the management of the physics department building

TECHNICAL SKILLS.

Experience in the use of scientific instrumentation for ggrowth, 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

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.

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:Y2O3 and Nd:Y2O3 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, Lanzanò, L, Arena, G, Grasso, A, Copat, C, Ferrante, M, Contino, A
Internalization of Pegylated Er:Y2O3 Nanoparticles inside HCT-116 Cancer Cells: Implications for Imaging and Drug Delivery
ACS Applied Nano Materials 2023 6 (20), 19126-19135
DOI: 10.1021/acsnm.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
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 β -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
TiO₂ Colloids Laser-Treated in Ethanol for Photocatalytic H₂ 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 TiO₂ (101)
Surfaces
J. Phys. Chem. C 2020, 124, 2406–2419 (2020)