

# MARCELLA SALVATORE

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## Summary

I received my Master's degree in Materials Engineering in 2013 and a Ph.D. in Industrial Product and Processes Engineering in 2017, both from the University of Naples Federico II. I have published about 40 peer-reviewed articles in leading scientific journals, with an h-index of 14. I have actively participated in writing several proposals that have received fundings for ~4 M€ in the last two years. In addition to my research, I am actively involved in international collaborative projects and regularly present my work at topical conferences on materials science, optics, and photonics applications.

## Education

<b>2017</b>	<b>PhD in Industrial Product and Process Engineering,</b> University of Naples Federico II, Grade: <b>Excellent</b>
<b>2015</b>	<b>Erasmus+ - PhD program</b> <i>Institute of Nuclear Chemistry and Technology (INCT), Warsaw (Poland)</i> Research group of professor Yongxia Sun.
<b>2015</b>	<b>Erasmus+ - PhD program</b> <i>University of Palermo (UniPA), Palermo (Italy)</i> Research group of professor Clelia Dispenza.
<b>2013</b>	<b>Master's Degree in Materials Engineering</b> University of Naples Federico II, Grade: <b>110/110 cum laude</b>

## Current positions

<b>Since 2024</b>	<b>Junior Researcher (RTD-A)</b> <i>Department of Physics "Ettore Pancini" – University of Naples Federico II</i>
<b>Since 2025</b>	<b>Department Board member</b> <i>Department of Physics "Ettore Pancini" – University of Naples Federico II</i>

## Previous positions

<b>2022 - 2024</b>	<b>Laboratory scientific technician</b> <i>Centro di Servizi Metrologici e tecnologici Avanzati (CESMA) – University of Naples Federico II</i>
<b>2021 - 2022</b>	<b>Post-doctoral Fellowship</b> <i>Centro di Servizi Metrologici e tecnologici Avanzati (CESMA) – University of Naples Federico II</i>

<b>2017 - 2021</b>	<b>Post-doctoral Fellowship</b> <i>Department of Physics "Ettore Pancini" – University of Naples Federico II</i>
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### Teaching Activities

<b>2019 - 2024</b>	Teaching activity for "Physics Laboratory" – Master's degree course in Physics at the <i>Department of Physics "Ettore Pancini" – University of Naples Federico II</i> .
<b>2020 – 2022</b>	Teaching activity for "Optics Laboratory" – Bachelor's degree course in Physics at the <i>Department of Physics "Ettore Pancini" – University of Naples Federico II</i> .
<b>2019 – 2020</b>	Teaching activity for "Laboratory 2" – Bachelor's degree course in Physics at the <i>Department of Physics "Ettore Pancini" – University of Naples Federico II</i> .
<b>2017 – 2021</b>	Co-tutor for 5 Master's and Bachelor's degree thesis at <i>Department of Physics "Ettore Pancini" – University of Naples Federico II</i> .

### International Conferences

<b>2025</b>	Speaker – <i>BiOrgaMCT 2025 – March 2025, Sofia, Bulgaria</i>
<b>2025</b>	Speaker – <i>SPIE Photonics West 2025 – January 2025, S. Francisco, CA, USA</i>
<b>2024</b>	Speaker – <i>IEEE IPC 2024 – November 2019 Rome, Italy.</i>
<b>2024</b>	Speaker – <i>CMD 31 – 1-6 September 2024, Braga, Portugal.</i>
<b>2023</b>	Poster – <i>PhoSM 2023 – December 2023, St.Petersbourg, FL, USA</i>
<b>2023</b>	Speaker – <i>FISMAT CMD 30 – September 2023, Milan, Italy.</i>
<b>2023</b>	Speaker – <i>PIERS 2023 – July 2023 Prague, Rep.Cec.</i>
<b>2022</b>	Speaker – <i>SPIE Photonics Europe – April 2022, Strasburg, France.</i>
<b>2022</b>	Speaker – <i>CLEO 2022 – May 2022, San Josè, CA, USA</i>
<b>2021</b>	Speaker – <i>MRS Fall Meeting 2021 – November 2021, Boston, MA, USA.</i>
<b>2019</b>	Speaker – <i>PIERS 2019 – June 2019 Rome, Italy.</i>
<b>2016</b>	Invited Speaker – <i>Bit's World Congress 2016 – March 2016, Singapore.</i>
<b>2015</b>	Poster – <i>IEEE NANO 2015 – July 2015, Rome-Italy</i>
<b>2015</b>	Poster – <i>E-MRS Spring Meeting 2015 – May 2015, Lille, France</i>

### Selected Scientific outputs

YEAR	PUBLICATION
<b>2025</b>	Original article - <b>Salvatore M.</b> , Reda F., Borbone F., Oscurato, S.L. – <i>Multilevel azopolymer patterning from digital holographic lithography</i> – RSC Applied Interfaces, <b>2025</b> , 2, 56-60.
<b>2023</b>	Original article – Reda F., <b>Salvatore M.</b> , Astarita M., Borbone F., Oscurato S.L., "Reprogrammable Holograms from Maskless Surface Photomorphing", <i>Advanced Optical Materials</i> , 2023, 11(21), 2300823
<b>2023</b>	Original article – Januariyasa I.K., Borbone, F., <b>Salvatore M.*</b> , Oscurato S.L., "Wavelength-Dependent Shaping of Azopolymer Micropillars for Three-Dimensional

	<i>Structure Control</i> ”, ACS Applied Materials and Interfaces, 2023, 15(36), pp. 43183–43192
<b>2022</b>	Original article - Reda F., <b>Salvatore M.</b> , Borbone F., Maddalena, P., Oscurato, S.L. – <i>Accurate Morphology-Related Diffraction Behavior of Light-Induced Surface Relief Gratings on Azopolymers</i> – ACS Materials Letters, <b>2022</b> , 4(5), pp. 953–959
<b>2022</b>	Original article – S. L. Oscurato, F. Reda, <b>M. Salvatore</b> , F.Borbone, P. Madfromena, A. Ambrosio, “ <i>Large Scale Multiplexed Azopolymer Gratings with Engineered Diffraction Behavior</i> ”, Advanced Materials Interfaces 8 (21), 2101375.
<b>2022</b>	Original article – S. L. Oscurato, F. Reda, <b>M. Salvatore</b> , F.Borbone, P. Madfromena, A. Ambrosio, “ <i>Large Scale Multiplexed Azopolymer Gratings with Engineered Diffraction Behavior</i> ”, Advanced Materials Interfaces 8 (21), 2101375.
<b>2021</b>	Original article - <b>Salvatore M.</b> , Borbone F., Reda F., Maddalena P., Oscurato S.L. – <i>Programmable surface anisotropy from polarization-driven azopolymer reconfiguration</i> – JPhys Photonics, <b>2021</b> , 3(3), e034013.
<b>2020</b>	Original article - <b>Salvatore M.</b> , Borbone F., Oscurato S.L. – <i>Deterministic Realization of Quasicrystal Surface Relief Gratings on Thin Azopolymer Films</i> – Advanced Materials Interfaces, <b>2020</b> , 7(11), 1902118.
<b>2018</b>	Review article - Oscurato S.L., <b>Salvatore M.</b> , Maddalena P., Ambrosio, A. – <i>From nanoscopic to macroscopic photo-driven motion in azobenzene-containing materials</i> - Nanophotonics, <b>2018</b> , 7(8), pp. 1387–1422.

Naples, 03/06/2025

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