PERSONAL DATA

Name	Assoc. Prof. Dr. Anna Maria Coclite	
Nationality	Italian	A CONTRACT OF
Date of Birth	28.01.1983	
Place of Birth	Bari /Italy	
Correspondence	Institute of Solid State Physics	
	Graz University of Technology	
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Main Research Area

The research activities focus on material science and advanced methods for thin film growth. Current research interests include thin films technologies, nanomaterials, and surface chemistry. Deep expertise in the deposition of polymers and inorganic thin films by Chemical Vapor Deposition.

Career History

2024 -	UNIVERSITY of BARI	BARI, ITALY	
	Full professor		
2018 –2024	GRAZ UNIVERSITY OF TECHNOLOGY	GRAZ, AUSTRIA	
	Associate Professor		
2013 –2018	GRAZ UNIVERSITY OF TECHNOLOGY	GRAZ, AUSTRIA	
	Assistant Professor		
Dec 2017	Habilitation Venia Docenti (Applied Physics)		
	Title: Structure and functionality of CVD polymers as thin films and		
	multilayers		
2010 – 2013	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	BOSTON, USA	
	Postdoc associate, Supervisor: Karen Gleason		
Feb. – May. 2010	ITALIAN NATIONAL RESEARCH COUNCIL (CNR)	BARI, ITALY	
	Post-doctorate, Supervisor: F. Palumbo		
Education			
Jan. 07 –Mar. 10	UNIVERSITY OF BARI	BARI, ITALY	
	PhD in Chemical Science, Supervisor: R. d'Agostino		
	Title: Deposition and Characterization of thin organosilicon films for a variety		
	of technological applications: as low-dielectric constant, vapor barriers and		
	metal protective coatings		
Oct. 04– Oct. 06	UNIVERSITY OF BARI	BARI, ITALY	
	Master in Chemical Science and Technology. Graduate Magna (110/110) cum		
	laude. Supervisors: R. d'Agostino (UNIBA), F. Arefi-Khonsari (ENSCP, Paris)		
	Title: Plasma deposition of thin films: experimental optimization and		
	modeling		
Oct. 01 – Oct. 04	UNIVERSITY OF BARI	BARI, ITALY	
	Bachelor Degree in Chemistry. Graduate Magna (110/110) cum laude.		

Scientific Track Record: https://orcid.org/0000-0001-5562-9744

- >100 publications, five more submitted
- 🕈 16 of those as first author
- H- Index: 24/22 (Google Scholar/Scopus)
- Number of Publications with more than 200 citations: 2
- 1901/1538 citations (Google Scholar/Scopus)

Fellowships, Research Prices/Awards

May 2023	ERC Proof of Concept Grant (HEU -) Smart Skin
Nov. 2016-2022	ERC Starting Grant (H2020 - 715403) Smart Core
May. 14 – Apr.16	International Incoming fellowship (Marie Curie Action-FP7-PEOPLE-2013-IIF)
Nov. 2019	AVS Shop Note Price
Apr. 18	Start-up Idea Award from Science Park Graz
Aug. 16	Scientist Medal from The International Association of Advanced Materials
Jun. 15	Scholarship for young scientists to participate to the Lindau Nobel Laureate
	meeting 2015
Feb. 08	Excellence PhD award from Puglia region 2008.
2006	European Scholarship for Exchange Students.

Selected funded research projects

Jan. 2021 - Dec. 2025	Innovative Training Network (H2020-MSCA-ITN-2020) "Smart surface design
	for efficient ice protection and control" (SURFICE). Role = WP leader, (<i>Project</i>
	budget: 3.5 M€. Share: 264 k€)
Sept. 2020 - Aug. 2024	FET-Open "Functional & Dynamic 3D Nano-MicroDevices by Direct Multi-
	Photon Lithography" (5D Nanoprinting) Role: WP leader, (Project budget: 3.5
	M€. Share: 283 k€)
Dec. 16 – Dec. 21	ERC Starting Grant "Smart Core/shell nanorods arrays for artificial skin",
	Acronym: Smart Core, Role: PI (~ 1,5 mi€)
Nov. 14 – Feb.18	FWF- Austrian Science Fund- Stand Alone Project "Proton conductive
	polymers deposited by initiated-CVD" (Acronym: Pro-CVD, Number : P 26993-
	N19) (~ 200 k€)

Additional Scientific Information

- Leader of the Field of Expertise (TU Graz) "Advanced Material Science" since 2020.
- Guest editor for several special issues in Thin Solid Films (Elsevier), Nanoscience and Nanotechnology Letters, Frontiers in Biotechnology, Polymers (MDPI)
- Austrian representative of the THIN FILM Division in the International Union for Vacuum Science, Technique and Applications (IUVSTA) from 2016
- Co-organizers of three Symposia at the European Material Research Society Spring Meeting 2018, 2022 and 2024 + a symposium at the EuroMat conference 2021.
- 21 invitational lectures at international conferences, 14 invited seminars in renowned universities
- Ongoing collaboration with scientific groups from MIT, GeorgiaTech, Drexel University, Sabanci University, University College Dublin.
- Participation in several committees for new tenure-track position selection, tenure promotion, PhD and Master exams.
- Speaker at TEDx events (TEDxGraz in 2016 and TEDxVienna in 2022)

Teaching Experience

- Teaching at Bachelor and Master level for the Physics Curricula, TU Graz. •
- Supervision of >10 Bachelor Students, >20 Master students, 10 PhD students of which 5 ongoing, 2 postdoctoral researchers.
- Supervision and hosting of several visiting students and scholars

List of ten most important Publications

1. Icephobic gradient polymer coatings deposited via iCVD: A novel approach for icing control and mitigation

G. Hernandez, M. Fratscho, L. Stendardo, C. Antonini, R. Resel, A.M. Coclite,

ACS Applied Materials and Interfaces, 2024, DOI: http://doi.org/10.1021/acsami.3c18630

2. Enhancement of the Sensing Performance of Devices based on Multistimuli-Responsive Hybrid Materials

T. Abu Ali, M. Anzengruber, K. Unger, B. Stadlober, A. M. Coclite, ACS Applied Materials & Interfaces, 2023, DOI: https://doi.org/10.1021/acsami.3c08376

3. Glucose-Responsive Boronic Acid Hydrogel Thin Films Obtained via Initiated Chemical Vapor Deposition

K. Unger, A.M. Coclite,

Biomacromol., 2022, 23, 10, 4289–4295, DOI: 10.1021/acs.biomac.2c00762

4. Shedding light on the initial growth of ZnO during plasma-enhanced atomic layer deposition on vapor-deposited polymer thin films L. Demelius, M. Blatnik, K. Unger, P. Parlanti, M. Gemmi, A. M. Coclite,

Appl. Surf. Science, 2022, 604, DOI: 10.1016/j.apsusc.2022.154619

5. Smart Core-Shell Nanostructures for Force, Humidity and Temperature Multi-Stimuli Responsiveness

T. Abu Ali, P. Schäffner, M. Belegratis, G. Schider, B. Stadlober, A. M. Coclite, Adv. Mater. Technol., 2022, 7, 2200246, DOI: 10.1002/admt.202200246. with Cover image

6. Temporary Tattoo pH Sensor with pH Responsive Hydrogel via Initiated Chemical Vapor Deposition

K. Unger, F. Greco., A. M. Coclite,

Adv. Mater. Technol. 2021, 2100717, DOI: 10.1002/admt.202100717

7. Applicability of Vapor-deposited Thermo-responsive Hydrogel Thin Films in Ultrafast Humidity Sensors/Actuators

F. Muralter, F. Greco., A. M. Coclite,

ACS Applied Polymer Materials, 2020, 2, 3, 1160–1168, DOI: 10.1021/acsapm.9b00957 This paper was selected as Editor Choice and was in the journal Cover Front image.

- 8. Controlling Indomethacin Release through Vapor-Phase Deposited Hydrogel Films by Adjusting the Cross-linker Density P. Christian, S. Tumphart, H. M. A. Ehmann, H. Riegler, A. M. Coclite, O. Werzer, Scientific Reports, 2018, 8, 7134, DOI: 10.1038/s41598-018-24238-w.
- 9. 25th anniversary: CVD Polymers: A new paradigm for surface modification and device fabrication

A. M. Coclite, R. M. Howden, D. Borrelli, C. D. Petruczok, R. Yang, J. L. Yagüe, A. Ugur, N. Chen, S. Lee, W. J. Jo, A. Liu, X. Wang, and K. K Gleason

Advanced Materials, 2013, 25, 5392. DOI: 10.1002/adma.201301878

10. Controlling the degree and preferred orientation of crystallinity in poly-perfluorodecylacrylate thin films by initiated Chemical Vapor Deposition

A. M. Coclite, Y. J. Shi, and K. K. Gleason

Advanced Functional Materials, 2012, 22, 2167. DOI: 10.1002/adfm.201103035