

**Curriculum Vitae
Europass**



PERSONAL INFORMATION

Name and Surname **ROMOLO LAURITA**
E-mail **romolo.laurita@unibo.it**
Nationality **Italian**
Birth (date and place) **31 OCTOBER 1986**
 TRICARICO (MT)

Date **November 2020**

Qualified for Associate Professorship (Abilitazione scientifica nazionale per seconda fascia) in Nuclear reactor Physic (SC:09/C2, SSD: ING/IND 18)

• Date **April 2024**

H index (SCOPUS): 20 (19 excluding self-citations)

Citations (SCOPUS): 1115

Author of 54 papers in international peer-reviewed journals, 1 book chapter (in press), Inventor of 6 patents (see ANNEX I)

Link to SCOPUS profile

<https://www.scopus.com/authid/detail.uri?authorId=55600276900>

1. STUDIES AND ACADEMICAL POSITIONS

• Date **July 2021-ongoing**

• Role **Junior assistant professor** Department of Industrial Engineering, Alma Mater Studiorum-Università di Bologna

• Date **January 2020-June 2021**

• Role **Assistant researcher** of Alma Mater Studiorum – University of Bologna, Interdepartmental Center for Industrial Research Advanced Mechanical Engineering Applications and Materials Technology, title: “*Studio di nuovi sistemi assistiti da plasma freddo per la decontaminazione/disinfezione in linea del packaging nel settore alimenti e bevande*”, ALTE COMPETENZE 2019 Regione Emilia-Romagna grant

• Where Bologna-Italy

• Date **29 April 2015**

• Thesis PhD Thesis: “Biomedical applications of cold atmospheric pressure plasmas”

• Where Alma Mater Studiorum- Università di Bologna - Italy

• Date **January 2015-December 2019**

• Activity **Assistant researcher** of Alma Mater Studiorum – University of Bologna, Department of Industrial Engineering

• Where Bologna – Italy

• Date **November 2014**

• Activity Short-term scientific mission: “Chemical analysis of the reactive species produced in water by liquid and gas phase plasma discharge”, granted by COST ACTION TD1208, Tutor, Eng. Petr Lukes

• Where Institute of Plasma Physics, Academy of Sciences of the Czech Republic, Prague, Czech Republic

- Date **January 2012- December 2014**
- Activity **PhD student in “Mechanics and engineering advanced sciences” (DIMSAl)**
- Project title **“Biomedical applications of cold atmospheric pressure plasmas”**
- Where **Department of industrial Engineering - Alma Mater Studiorum – Università di Bologna –Italy**

- Date **22 December 2011**
- Degree **Master’s degree in Energy Engineering**

- Institute **Alma Mater Studiorum – University of Bologna**
- Grade **110/110 cum laude**
- Thesis **“The effects of non-equilibrium plasmas in the treatment of biological materials: experimental study, source design and characterization”**
Supervisor: Prof. Vittorio Colombo

- Date **September 2011- December 2011**
- Activity **Master’s degree thesis work granted by Engineering Faculty of Università di Bologna**
- Institute **Drexel Plasma Institute - Philadelphia – Pennsylvania (US)**

- Date **24 Luglio 2009**
- Degree **Bachelor’s degree in Energy Engineer**
- Institute **Alma Mater Studiorum – University of Bologna**
- Grade **110/110 cum laude**
- Thesis **“Two-dimensional dosimetric verification of intensity modulated radiation treatments with 2D array PTW dosimeter”**
Supervisor: Prof. Domiziano Mostacci

- Date **June 2005**
- Degree **Classical High School Diploma**
- Institute **Liceo classico Statale Quinto Orazio Flacco – Potenza, Italy**
- Grade **100/100 (maximum grade)**

2. AWARD

- Date **September 2017**
- Activity **Winner of the “Young Researcher Presentation Award”**
- Where **6th International Conference Plasma Medicine, Bratislava - Slovakia**

3. ENTREPRENEURIAL AND PROFESSIONAL ACTIVITIES

- Date **June 2021-ongoing**
- Qualification **Aggregate member in the professional examination (State exam) for Professional and Junior Engineer**
- Where **Alma Mater Studiorum – Università di Bologna - Italy**

- Date **April 2019-June 2021**
 - Role CEO of **AlmaPlasma s.r.l.** a **spin-off company** of Alma Mater Studiorum – University of Bologna.
 - Where Bologna - Italy
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- Date **9 May 2013**
 - Role Co-founder of **AlmaPlasma s.r.l.** a **spin-off company** of Alma Mater Studiorum – University of Bologna. AlmaPlasma offers advanced solutions in the wide field of plasma technology applications. (www.almaplasma.com)
 - Where Bologna - Italy
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- Date **December 2012**
 - Qualification Professional Engineer in Industrial Engineering – Class 33/S – Energy and Nuclear Engineering
 - Where Alma Mater Studiorum – Università di Bologna - Italy

4. TEACHING ACTIVITIES AT ALMA MATER STUDIORUM-UNIVERSITÀ DI BOLOGNA

- Master's degree in Energy Engineering (hours)

	SSD	18/19	19/20	20/21	21/22	22/23	23/24
Industrial application of plasmas M	ING/IND18				20	20	
PLASMA INDUSTRIAL APPLICATIONS M	ING/IND18					30	30
Laboratory of general technologies of materials and industrial applications of plasmas M	N/A	10	20	20	20	20	30

- Bachelor's degree in Energy Engineering (hours)

	SSD \ a.a.	17/18	18/19	19/20	20/21	21/22	22/23	23/24
Laboratory of general technologies of materials and industrial applications of plasmas T	N/A	10	10	10	10	30	30	20
Plasma Technologies for Environmental, Biomedical and Energy Applications T	ING/IND18		10	10	10	20	20	20
Radiation Engineering for Biomedical and Industrial Applications T	ING/IND18							20

- Institute of Superior Studies (hours)

	SSD \ a.a.	21/22
Plasma: from physics to engineering	N/A	2
Plasma: from physics to engineering-laboratory activities	N/A	8

- Professional Master's programme II LEVEL: Ionizing Radiation and Radiation Protection (hours)

	SSD \ a.a.	22/23
Interaction of charged elementary particles and neutrons with matter	ING/IND18	6

- Total (hours)

17/18	18/19	19/20	20/21	21/22	22/23	23/24
10	30	40	40	100	120	126

- PhD supervisor at Alma Mater Studiorum-Università di Bologna (4):** *Mechanics and Advanced Engineering Sciences (DIMSAl) (2); Health and Technology (H&T) 2.*
- PhD co-advisor at Alma Mater Studiorum-Università di Bologna (5):** *Mechanics and Advanced Engineering Sciences (DIMSAl) (1); Health and Technology (3); Health, Safety And Green Systems (1)*
- Thesis advisor at Alma Mater Studiorum-Università di Bologna (35):** *Master's degree in Energy Engineering (8); Bachelor's degree in Energy Engineering (27);*
- Thesis co-advisor Alma Mater Studiorum-Università di Bologna (70):** *Master's degree in Energy Engineering (27); Bachelor's degree in Energy Engineering (37); Bachelor's degree in biomedical Engineering (1); Master's degree in Chemistry and Pharmaceutical Technology (1); Master's degree in Agricultural science and technology (2) Bachelor's degree in Agricultural science and technology (2).*
- Academic tutor internships (28):** *Master's degree in Energy Engineering (3); Bachelor's degree in Energy Engineering (25)*

5. EDITORIAL ACTIVITIES

- Topic Editor for Plasma in Agriculture (MDPI)
- Guest editor for Foods: Innovative Applications of Cold Plasma Technology in the Food Industry (MDPI)
- Review Editor of the Low-Temperature Plasma Physics section of Frontiers in Physics
- Referee of international journals: Plasma Processes and Polymers, Plasma Medicine, Applied Sciences, European Physical Journal, Journal of Advanced Oxidation Technologies, IEEE Transactions on Radiation and Plasma Medical Science, Oxidative Medicine and Cellular Longevity, Molecules.

6. MEMBERSHIP OF RESEARCH GROUPS AND SOCIETIES

- Since June 2023: member of Cherne network: Cooperation for Higher Education on Radiological and Nuclear Engineering
- Since July 2021: member of the Interdepartmental Center for Industrial Research CIRI Life Sciences and Health Technologies (UNIBO)
- Since September 2019: member of the Research Group on gynecologic neoplasms (UNIBO)
- Since September 2017: member of the International Society for Plasma Medicine
- Since 2015 member of the International Plasma Chemistry Society (IPCS)
- 2019-2020: member of Interdepartmental Center for Industrial Research in Advanced Mechanical Engineering Applications and Materials Technology (UNIBO)
- 2014-2015: Member of the American Ceramic Society

7. FOREIGN LANGUAGES

	ENGLISH
• Certificate	LEVEL B2 ;
• Reading	EXCELLENT
• Writing	EXCELLENT
• Speaking	EXCELLENT

8. KNOWN SOFTWARES

Word, Excel, PowerPoint, Solid Edge, Autocad, Matlab, Mendeley, Graphpad, Origin, Janis by NEA, ESTAR, PSTAR, and ASTAR by NIST

9. TECHNICAL COMPETENCES

- High Speed Cameras
- Schlieren Photography
- FTIR analysis
- SEM microscopy
- EDS
- Spectrophotometry
- Optical Emission Spectroscopy
- Optical Absorption Spectroscopy
- Fluorimetry
- Voltage and current probes
- Water contact angle measurement systems
- High voltage and high frequency pulse generators
- Electrospinning applications and apparatuses
- Microbiological procedures and protocols
- Chemical analysis of water and liquids
- Chemical analysis of gas phase

10. PARTICIPATION AT INTERNATIONAL CONFERENCES (5 INVITED TALKS, 12 ORAL TALKS)

- 10th International Conference on Plasma Medicine (ICPM10), 2024, Portorož, Slovenia (**INVITED TALK TO BE DONE**)
- 4th and final Workshop of the Plagri COST Action CA19110 "Plasma applications for smart and sustainable agriculture", 2024, Belgrade, Serbia (**INVITED TALK TO BE DONE**)
- International Conference on Phenomena in Ionized Gases, (ICPIG XXXV) 2023, Egmond aan Zee, The Netherlands (**INVITED TALK**)
- 25th ISPC, Kyoto, Japan 2019 (Poster presentation)
- 9th International Conference on Plasma Medicine (ICPM9), 2022, Utrecht, the Netherlands (Oral talk)
- TRIC - Therapeutic ROS and Immunity in Cancer 2021 (Oral talk)
- 3rd International Workshop on Plasma Agriculture (IWOPA 2021) (**INVITED TALK**)
- 8th International Conference on Plasma Medicine (ICPM8), Incheon, Korea, 2021 (**INVITED TALK**)
- 24th ISPC, Naples, 2019 (Poster presentation)
- 6th International Workshop on Plasma for Cancer Treatment (IWPCT 2019), Antwerp, Belgium, 2019 (Oral talk)
- 7th International Conference on Plasma Medicine (ICPM7), Philadelphia, US, 2020 (Oral talk)
- 23rd ISPC, Montreal, Canada, 2017 (2 oral presentations)
- International Conference on Plasmas with Liquids (ICPL 2017), Prague, Czech Republic, 2017 (Oral talk)
- 6th International Conference Plasma Medicine, Bratislava – Slovakia, 2016 (Poster presentation)
- 3rd Annual meeting of COST Action TD1208, Koaceli, Turkey, 2016 (Oral talk)
- Joint meeting of COST Actions CMST TD1208 and MPNS MP1101, Bertinoro, Italy, September 2015 (Poster presentation)
- 22th ISPC, Antwerp, Belgium, July 2015 (Oral talk)
- 2nd Annual meeting of COST Action TD1208, Barcelona, Spain, 2015 (Oral talk)
- 3rd International Conference on Electrospinning, August, San Francisco, California, US, 2014 (Oral talk)

- CIMTEC 2014- 6th Forum on new materials", 2014, Montecatini Terme (IT) (Oral talk)
- High-tech Plasma Processes 12 - 12th European Plasma Conference (HTPP12) – June 2012, Bologna, Italia (Poster presentation)
- 4th International Conference on Plasma Medicine (ICPM4) – June 2012, Orléans, France (Poster presentation)

11. PARTICIPATION TO INTERNATIONAL PROJECTS

- EIC Pathfinder Open 2022: PULSE – Plasma reconfigurable metaSurface technologies (2022-ongoing)
- **WG leader and Management committee member for Italy** of COST ACTION CA20114 "Therapeutic applications of Cold Plasmas (PlasTHER) (2021-ongoing)
- New Erasmus+ SP: 2022 – 2024 BRAVER : Blended and Remote teaching Activities supported by Virtual Reality for Radiation sciences (2023-2024)
- EIT- FOOD: COVID-19 Rapid Response call: Plasma assisted sanitation system (PASS) (June-December 2020)
- **WG 5 dissemination delegate** of COST ACTION Plasma applications for smart and sustainable agriculture, PIAGri (2020-ongoing)
- Horizon2020 Blue Growth: Future growth in sustainable, resilient and climate friendly organic and conventional European aquaculture, 'FutureEUAqua, (member as CEO of AlmaPlasma) (2019-2021)
- Member of COST ACTION TD1208 Electrical discharges with liquids for future applications (2013-2016)
- Member of COST ACTION MP1101 Bio-Plasma - Biomedical applications of atmospheric pressure plasma technology (2012-2015)

12. PARTICIPATIONS TO NATIONAL PROJECTS

- Emilia-Romagna European Regional Development Fund- Regional Programme 2021-2027-Dispositivi per circolazione extracorporea: Nuove membrane intelligenti per la prevenzione delle complicanze neurologiche, newMAT4CEC (2023-ongoing)
- **Co-principal investigator** of Research projects of national interest PRIN2022: PAA-FOOD Plasma activated aerosol for the preservation and decontamination of fresh and minimally processed plant foods (2022-ongoing)
- PRIN Research projects of national interest 2022: TECH4PATH Non-thermal TECHNOLOGIES FOR the inactivation of emerging viral, bacterial and protozoan PATHogens on fruit and vegetable products - (2022-ongoing)
- PRIN Research projects of national interest 2020: VFarm Sustainable Vertical Farming, Research programme (2022-ongoing)
- National Recovery and Resilience Plan (NRRP), Mission 4 Component 2 Investment 1.3, Theme 10. Research and Innovation for Sustainable Food and Nutrition (2022-ongoing)
- Ecosistema Territoriale di Innovazione dell'Emilia-Romagna.ECOSISTER: material for Energy. National Recovery and Resilience Plan (NRRP). Mission 4 Component 2 Investment 1.3 (2022-ongoing)
- Progetti di ricerca e innovazione per lo sviluppo di soluzioni finalizzate al contrasto dell'epidemia da COVID-19, Regione Emilia Romagna: Progetto VIKI (Virus Killer): dispositivo di sanificazione a contrasto del trasporto indoor di bioaerosol (June 2020-May 2021)
- Progetti di ricerca e innovazione per lo sviluppo di soluzioni finalizzate al contrasto dell'epidemia da COVID-19, Regione Emilia Romagna: Applicazione di trattamenti al plasma freddo atmosferico per la decontaminazione di superfici di alimenti e MOCA (materiali e oggetti a contatto con gli alimenti) da COVID19 (June 2021-May 2021)
- **Leader of Work Package:** Optimization of processing parameters for CAP treatments of different products, PRIN (Research projects of national interest) 2017 PLASMAFOOD: Study and optimization of cold atmospheric plasma treatment for food safety and quality improvement
- UNIBO-AlmaIDEA project Study of the fundamental mechanisms for anticancer activity of plasma-activated mediums for the treatment of peritoneal carcinomatosis (2018-2019)
- National SIR Grant (RBSI14DBMB) "Non-thermal plasma as an innovative anticancer strategy: in vitro and ex vivo studies on leukemia models" (2015-2018)
- UNIBO-FARB2 project Plasma-assisted preparation and modification of molecular and macromolecular materials for biomedical, pharmaceutical and energy applications (PLASMAT) (2014-2016)

13. ORGANIZATION OF INTERNATIONAL MEETINGS, SYMPOSIA, AND CONFERENCES

- Member of International Organizing Committee of III annual meeting of PlasTher Cost Action, ~ 50 participants, June 2024 Budapest, Hungary
- Chair of II annual meeting of PlasTher Cost Action, ~ 100 participants, September 2023, Bologna, Italy
- Member of the Local Organizing Committee of the 9th International Conference on Plasma Medicine and Plasma Medicine School, ~ 200 participants, Utrecht, the Netherlands, June 2022, Utrecht, the Netherlands
- Member of the Local Organizing Committee of the 24th International Symposium on Plasma Chemistry, ~ 550 Naples – Italy, June 2019
- Member of the Local Organizing Committee of the Joint Meeting of COST Actions CMST TD1208 and MPNS MP1101, Bertinoro – Italy, ~ 50 participants, September 2015

14. PARTICIPATION IN TRAINING COURSES

- 6-10 November 2023, Educators for Impact Training: Learn about the importance of teaching for impact and how to empower students to be changemakers in their academic and professional work. Create a plan to embed more impactful teaching practices., 14h
- 31 May 2022, Laboratory "Creativity for educational innovation" 2022 - edition: 1, Teaching innovation area at Alma Mater Studiorum- Università di Bologna, 7h
- 10 – 24 November 2021, Laboratory "Design thinking" - edition: 4, Teaching innovation area at Alma Mater Studiorum- Università di Bologna, 8h
- 6 October 2021, COST Academy Leadership workshop, 2h

15. PARTICIPATION IN WORKSHOPS AND WINTER OR SUMMER SCHOOLS:

- 13-16 February 2023, **Lecturer** at COST ACTION TRAINING SCHOOL: "Cold Plasmas to fight microorganisms, viruses & toxins for medical and agricultural applications". Title: Prospects of plasma decontamination processes in agriculture and food industry -how to implement plasma technology efficiently -Bari, Italy
- 25-26th June 2022, **Organizer** of "Summer School on Plasma Medicine", Utrecht, the Netherlands
- 1-3 April 2019, The Sixth International Workshop on Plasma for Cancer Treatment (IWPCT 2019), Antwerp, Belgium
- 20-21 March 2018, The Fifth International Workshop on Plasma for Cancer Treatment (IWPCT 2018), Greifswald, Germany
- 28 November- 1 December 2016 "FRiBaC - Frontiers in Redox Biology and Chemistry – Workshop" Rostock, Germany
- 4-8 October 2015: 2nd COST Training School "All You Need to Know About Plasmas & Liquids and Never Dared to Ask" organized by TD 1208 COST Action "Electrical discharge plasmas in contact with liquids", Greifswald, Germany
- 29-30 September 2014 "Let's 2014: Leading Enabling Technologies for Societal Challenges" Bologna, Italy
- 2-6 February 2014 "Chemistry initiated by electrical discharges with liquids", Winter School organized by TD 1208 COST Action "Electrical discharge plasmas in contact with liquids", Ljubljana, Slovenia
- 7-11 January 2013 "PLASMA TO PLASMA" Winter school organized by MP 1101 COST Action "Bioplasma", Leiden, the Netherlands
- 5 September 2012 – "Plasma medicine (2003-2012): direct application of cold plasma for treatment of wounds, coagulation of blood, healing diseases and sterilization" hold by Prof. Alexander Fridman (Drexel University, Philadelphia, Pennsylvania, USA), Alma Mater Studiorum - Università di Bologna
- 26 January 2012 – "Diagnostiche ottiche in scariche a barriera dielettrica a pressione atmosferica" hold by Dr. Giorgio Dilecce (C.N.R. – Istituto metodologie inorganiche e dei plasmi, Bari), Alma Mater Studiorum - Università di Bologna
- 6 April 2011 – "Termospruzzatura" hold by Prof. Luca Lusvarghi (Università di Modena e Reggio Emilia), Alma Mater Studiorum - Università di Bologna

- 26-27 November 2010 - Plasma Synthesis of Nanoparticles and Plasma Deposition of Nanophase Coatings, Fluid Dynamic Control of Plasma Spray Jets, Fluid Dynamic Instabilities in Plasma Arc Cutting, Spectroscopic Temperature Measurements in a Plasma Arc Cutting System hold by Prof. Joachim Heberlein (University of Minnesota, Minneapolis, Minnesota, USA), Alma Mater Studiorum - Università di Bologna
- 24 November 2010 - Integrated Automatic Cutting Systems: Overview and Current Trends hold by Ing. Cataldo De Laurentis and Ing. Thierry Renault (CTMS, Air Liquid, France), presso Alma Mater Studiorum - Università di Bologna
- 17-28 August 2009, "Nuclear Chemistry", Summer School, Julich (Aachen), Germany

16. INSTITUTIONAL ASSIGNMENTS AT ALMA MATER STUDIORUM-UNIVERSITÀ DI BOLOGNA

- Head of research and teaching for the Langmuir Class II biological laboratory and Golgi biological and chemistry laboratory at Alma Mater Studiorum-University of Bologna (2021-ongoing)
- Bachelor's and master's degree in Energy Engineering delegate to educational innovation (2021-ongoing),
- Bachelor's and master's degree in Energy Engineering delegate to orientation and communication (2019-ongoing)
- Elected member as representative of research fellows in the Departmental Committee of Industrial Engineering (2020)
- Elected member of the Industrial Engineering Department council as a representative of research fellows (2016-2020)
- Elected member of the Industrial Engineering Department council as a representative of doctoral students (2013-2014)
- Elected student representative on the Faculty of Engineering council (2008-2011)
- Elected member of the teaching committee of the Faculty of Engineering (2008-2011)
- Elected member of the recruitment planning committee of the Faculty of Engineering (2008-2011)
- Tutor of the bachelor's and master's degree programs in Energy Engineering (2008-2011)
- Member of the internship commission of the bachelor's and master's degree program Energy Engineering (2011)

ANNEX I Papers, Book Chapter and Patents

a) Papers (54)

1. Maccaferri C.; Gherardi M.; Laurita R. "Evaluating atmospheric pressure cold plasma decontamination techniques for packaging materials: a systematic review and meta-analysis," *Frontiers in Physics* (2024), 12,1399720, doi: 10.3389/fphy.2024.1399720
2. Mozzon M.; Foligni R.; Mannozi C.; Galdenzi F.; Laurita R.; Tappi S.; Dalla Rosa M. "Effect of plasma-activated water (PAW) soaking on the lipid oxidation of sardine (*Sardina pilchardus*) fillets ", *Food Research International* (2024), 176,113823; doi: 10.1016/j.foodres.2023.113823
3. Laika J.; Viteritti E.; Molina-Hernandez J.B.; Sergi M.; Neri L.; Laurita R.; Tappi S.; Ricci A.; Chaves-López C. "Efficiency of cold atmospheric plasma under ozone (O₃) and nitrogen oxide (NO_x) regimes on the degradation of aflatoxins and ochratoxin A in solid state and in spiked pistachio kernels ", *Food Control* (2024), 159,110286; doi: 10.1016/j.foodcont.2024.110286
4. Tappi S.; Nissen L.; Casciano F.; Antonelli G.; Chiarello E.; Picone G.; Laurita R.; Capelli F.; Gherardi M.; Maccaferri C.; Gianotti A.; Bordoni A.; Espmark Å.M.; Capozzi F.; Rocculi P. "Effect of cold plasma generated with different gas mixtures on safety quality and nutritional aspects of fresh sea bream fillets ", *Innovative Food Science and Emerging Technologies* (2023), 89,103477; doi: 10.1016/j.ifset.2023.103477
5. Contaldo N.; Zambon Y.; Laurita R.; Gherardi M.; Colombo V.; Bertaccini A. "Plasma activated water and phytoplasma interactions in *Catharanthus roseus* alkaloid pathway ", *Phytopathogenic Mollicutes* (2023), 13,1,63; doi: 10.5958/2249-4677.2023.00032.4
6. Maccaferri C.; Sainz-García A.; Capelli F.; Gherardi M.; Alba-Elías F.; Laurita R. "Evaluation of the Antimicrobial Efficacy of a Large-Area Surface Dielectric Barrier Discharge on Food Contact Surfaces ", *Plasma Chemistry and Plasma Processing* (2023), 43,6,1773; doi: 10.1007/s11090-023-10410-2
7. Laika J.; Sacchetti G.; Sabatucci A.; Molina-Hernandez J.B.; Ricci A.; Laurita R.; Tappi S.; Di Michele A.; Neri L. "Role of sugars in the inactivation of horseradish peroxidase induced by cold atmospheric plasma ", *Food Bioscience* (2023), 56,103219; doi: 10.1016/j.fbio.2023.103219
8. Laghi G.; Franco D.; Condorelli G.G.; Gallerani R.; Guglielmino S.; Laurita R.; Morganti D.; Traina F.; Conoci S.; Gherardi M. "Control strategies for atmospheric pressure plasma polymerization of fluorinated silane thin films with antiadhesive properties ", *Plasma Processes and Polymers* (2023), 20,4,2200194; doi: 10.1002/ppap.202200194
9. Mozzon M.; Mannozi C.; Foligni R.; Osimani A.; Galdenzi F.; Laurita R.; Tappi S.; Rosa M.D. "Assessment of lipid oxidation and microbial decontamination of sardine (*Sardina pilchardus*) fillets processed by plasma-activated water (PAW) ", *LWT* (2023), 188,115401; doi: 10.1016/j.lwt.2023.115401
10. Galligani T.; Resca E.; Dominici M.; Gavioli G.; Laurita R.; Liguori A.; Mari G.; Ortolani L.; Pericolini E.; Sala A.; Laghi G.; Petrachi T.; Arnould G.F.; Accorsi L.; Rizzoli R.; Colombo V.; Gherardi M.; Veronesi E. "A new strategy to prevent biofilm and clot formation in medical devices: The use of atmospheric non-thermal plasma assisted deposition of silver-based nanostructured coatings ", *PLoS ONE* (2023), e0282059; doi: 10.1371/journal.pone.0282059
11. Bucci C.; Tampieri F.; Mateu-Sanz M.; Laurita R.; Colombo V.; Canal C. "Oxidation of lactate to pyruvate mediates the cytotoxic potential of physical plasma-treated saline solutions in ovarian cancer ", *Plasma Processes and Polymers* (2023), e2300093; doi: 10.1002/ppap.202300093
12. Gebremical G.G.; Tappi S.; Laurita R.; Capelli F.; Drudi F.; Rocculi P.; Cevoli C.; Romani S. "Effects of plasma activated water (PAW) on rheological thermal hydration and pasting properties of normal maize ", *Food Hydrocolloids* (2023), 144,109006; doi: 10.1016/j.foodhyd.2023.109006
13. Foligni R.; Mannozi C.; Ismaiel L.; Capelli F.; Laurita R.; Tappi S.; Rosa M.D.; Mozzon M. "Impact of Cold Atmospheric Plasma (CAP) Treatments on the Oxidation of Pistachio Kernel Lipids ", *Foods* (2022), 11,3,419; doi: 10.3390/foods11030419
14. Molina-Hernandez J.B.; Capelli F.; Laurita R.; Tappi S.; Laika J.; Gioia L.; Valbonetti L.; Chaves-López C. "A comparative study on the antifungal efficacy of cold atmospheric plasma at low and high surface density on *Aspergillus chevalieri* and mechanisms of action ", *Innovative Food Science and Emerging Technologies* (2022), 82,103194; doi: 10.1016/j.ifset.2022.103194
15. Sadowska J.M.; Skoro N.; Laurita R.; Bekeschus S.; Przekora-Kuśmierz A.; Lin A.; Laurencin S.; Sério S.; Cousty S.; Canal C. "Plasma medicine: The great prospects when physics meets medicine ", *Europhysics News* (2022), 53,3,20; doi: 10.1051/epn/2022303
16. Bisag A.; Isabelli P.; Laghi G.; Laurita R.; Dirani G.; Taddei F.; Bucci C.; Capelli F.; Gherardi M.; Paglianti A.; Sambri V.; Colombo V. "Cold atmospheric plasma decontamination of SARS-CoV-2 bioaerosols ", *Plasma Processes and Polymers* (2022), e2100133; doi: 10.1002/ppap.202100133
17. Capelli F.; Tappi S.; Gritti T.; De Aguiar Saldanha Pinheiro A.C.; Laurita R.; Tylewicz U.; Spataro F.; Braschi G.; Lanciotti R.; Galindo F.G.; Siracusa V.; Romani S.; Gherardi M.; Colombo V.; Sambri V.; Rocculi P.

- " Decontamination of food packages from SARS-COV-2 RNA with a cold plasma-assisted system ", *Applied Sciences (Switzerland)* (2021), 11,9,4177; doi: 10.3390/app11094177
18. Laurita R.; Contaldo N.; Zambon Y.; Bisag A.; Canel A.; Gherardi M.; Laghi G.; Bertaccini A.; Colombo V. " The use of plasma-activated water in viticulture: Induction of resistance and agronomic performance in greenhouse and open field ", *Plasma Processes and Polymers* (2021), 18,1,2000206; doi: 10.1002/ppap.202000206
 19. Laurita R.; Gozzi G.; Tappi S.; Capelli F.; Bisag A.; Laghi G.; Gherardi M.; Cellini B.; Abouelenein D.; Vittori S.; Colombo V.; Rocculi P.; Dalla Rosa M.; Vannini L. " Effect of plasma activated water (PAW) on rocket leaves decontamination and nutritional value ", *Innovative Food Science and Emerging Technologies* (2021), 73,102805; doi: 10.1016/j.ifset.2021.102805
 20. Bisag A.; Isabelli P.; Laurita R.; Bucci C.; Capelli F.; Dirani G.; Gherardi M.; Laghi G.; Paglianti A.; Sambri V.; Colombo V. " Cold atmospheric plasma inactivation of aerosolized microdroplets containing bacteria and purified SARS-CoV-2 RNA to contrast airborne indoor transmission ", *Plasma Processes and Polymers* (2020), 17,10,2000154; doi: 10.1002/ppap.202000154
 21. Turrini E.; Laurita R.; Simoncelli E.; Stancampiano A.; Catanzaro E.; Calcabrini C.; Carulli G.; Rousseau M.; Gherardi M.; Maffei F.; Cocchi V.; Lenzi M.; Pellicioni V.; Hrelia P.; Colombo V.; Fimognari C. " Plasma-activated medium as an innovative anticancer strategy: Insight into its cellular and molecular impact on in vitro leukemia cells", *Plasma Processes and Polymers* (2020), 17,10,2000007; doi: 10.1002/ppap.202000007
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