

CURRICULUM VITAE et STUDIORUM

NAME	Marina Serantoni
E-MAIL	marina.serantoni@issmc.cnr.it
NAZIONALITY	Italian
QUALIFICATIONS	
2019	Degree in Viticulture and Oenology , Department of Agro-Food Sciences and Technologies (DISTAL), University of Bologna, Cesena Campus, grade 110/110 L, with qualification for the profession of Oenologist. Thesis title: "Study of an alternative material to bentonite for the protein stabilization of wine". The study involved the development of a thin ceramic mesoporous layer supported on an inert material and the analysis of the variation of wines protein and metal content after contact with the same (heat test, SDS page, UV-VIS, ICP).
2001	PhD , in semiconductor electrochemistry 1997-2001, Department of Chemistry and Environmental Sciences, University of Limerick, Ireland, (MIUR declaration of equivalence, 11/27/2009 Prot. 2615) Thesis title: "An Electrochemical Study of Anisotropic Etching of Monocrystalline Silicon in Alkaline Solution". The etching of silicon in an alkaline environment was studied by impedance spectroscopy (EIS), cyclic voltammetry (CV) and scanning probe microscopy (AFM); the thesis was funded by a European research project (FUPUSET) involving three universities: Liverpool, Utrecht and St. Andrews and two industries: Siemens (Berlin, DE) and Druck (Leicester, UK). The aim of the project was the development of corrosion techniques of silicon wafers for positioning of optical fibers.
1995	Degree in Physical-Chemistry , "Giacomo Ciamician" Department of Chemistry, University of Bologna Thesis title: "Electrochemistry and spectroscopy of mononuclear polypyridine complexes of rhenium and heterometallic polynuclear of ruthenium and rhenium". The supramolecular complexes of Re and Ru were analyzed in an electrochemical cell in anhydrous environment, at low temperatures and pressures, using cyclic voltammetry and UV-NIR spectro-electrochemistry in situ. The aim of the thesis was the physico-chemical characterization of the complexes, usable as harvesting material in third generation solar cells (DSSC).
1978	Scientific High School , Liceo Scientifico "F. Severi", Faenza
1973	Secondary School License , "A.Oriani" State Secondary School, Casola Valsenio, RA
POST-GRADUATE COURSES	
2004	XPS data analysis (X-ray Photoelectrons Spectroscopy), Materials and Surface Science Institute (MSSI), University of Limerick, Ireland
2004	Raman Spectroscopy, MSSI, University of Limerick
2003	FIB-SIMS (Focused Ion Beam-Secondary Ion Mass Spectrometry), MSSI, University of Limerick
2001	Ellipsometry, L.O.T. Oriel, University of Limerick
1999	Surface Probe Microscopy, ThermoMicroscope, University of Limerick
1998	The Practical Application of Surface Analysis for Materials investigations, NMRC, Cork, Ireland
1998	Theory and Practise of Electrochemical Impedance Spectroscopy (EIS) Course, University of Bath, UK
1995	Surface Chemistry in Ceramic Processing, ECerS, Agenzia Polo Ceramico, Faenza
OTHER COURSES	

- 2023 Legal and financial aspects in Horizon Europe - The lump sum scheme, 18/12/2023 APRE-CNR, Italy
- 2023 Master of Project Management and Reporting in Horizon 2020 & Horizon Europe, Europa Media Training, 11-13 dicembre 2023, Vienna
- 2019 Introductory course on medicinal plants and essential oils, Albrigi in Herba, Giardino delle Erbe, Casola Valsenio RA
- 2018 Budgeting and reporting of European projects, Prodos Academy European funds & projects, Rome
- 2018 Basic training course for the sensory evaluation of food and non-food products: theoretical, practical, methodological aspects, DISTAL, University of Bologna
- 2017 Sensory recognition of wine defects, Vinidea S.r.L., Ponte dell'Olio (PC)
- 2016 ICV methodology of sensory analysis of grapes: applied methodology module, Groupe ICV, Vinidea S.r.L., Ponte dell'Olio (PC)
- 1974 Three-year musical orientation course, with final exam, Ministry of Education, Municipality of Casola Valsenio, Didactic Direction Riolo Terme, RA
- 1973 Scheidegger Typing Course, European Organization for Commercial Professional Preparation, Casola Valsenio, RA

SAFETY COURSES

- 2022 Training course on workplace health and safety issues for workers, CNR Italy
- 2021 General training ATECO sector 207 M 72 - Type of risk B; Prevention and protection unit, CNR Italy
- 2019 Specific training for workers and new hires in the field of safety - High risk, Sestante Romagna S.r.L.
- 2018 Course for electrical workers under voltage in LV and out of voltage and in proximity to MV and HV with PES (certified expert person), Besant Strategic Partner, Ravenna
- 2018 Specific training for the sectors of the low-risk class, Global BEM S.r.L, Mazzo di Tho (MI)
- 2015 Training course for personnel assigned to the use and handling of technical gases, SOL S.p.A., Bologna

PROFESSIONAL EXPERIENCES

14/04/2020-up to date

Senior Research Fellow (Bando-073.21.03.02- CNR-ISTEC; Bando 073.21.03.02 CNR-ISSMC, (former ISTEC) National Council of Research, Institute for Science and Technology for Ceramic, Faenza, Italy, Nanotechnology and Nanosafety Group

Project Manager H2020 EU ASINA project No 862444

- administrative and financial management
- organisation and management of the ASINA server platform
- organisation of project meetings
- support to the technical and scientific management of the project

OTHER ADMINISTRATIVE ACTIVITIES:

- administrative and financial reporting of EU H2020 projects
- support for the preparation and presentation of European research projects
- coordination in the preparation of timesheets for Italian and European projects

SCIENTIFIC ACTIVITIES:

- engineering and characterization of thin mesoporous layers of titania nanoxide supported on glass spheres, for the adsorption of low molecular weight proteins and metals (Cu, Fe) usable for the protein stabilization of wine and the water purification
- electrochemical measurements for project reporting
- analysis of the electrochemical properties (oxidation resistance, electronic exchange at the interface) of composite ceramic materials
- collaboration in the development of HPLC analysis procedures for essential oils
- AFM topographic imaging

01/01/2019 - 02/04/2020

Project Manager R&D, Tozzi Green S.p.A., Mezzano RA (Italy)

Manager for the Tozzi Green research project "NuFid" on the enhancement of the by-products of the Sicilian prickly pear in collaboration with the University of Florence (Department of Neurofarba), the University of Catania (Di3A) and the University of Cesena (DISTAL). Technical-scientific and administrative reporting of the project

Manager for the research project "VANCOFI" ("Agrifood" PON I&C 2014-2020) on the enhancement of Sicilian prickly pear by-products

Co-responsible for a research project for the selection of varieties of amaranth and development of the cultivation technique, in collaboration with the University of Florence, DISPAA

Coordinator of a post-graduate internship on "Distillation of essential oils, gas chromatographic analysis with mass spectrometry detector (GC-MSD) and spray dry encapsulation in polymeric matrices"

Starter of the transformation path of the R&D section (with chemical-physical laboratory) of Tozzi Green into an Incubator / Accelerator of start-up

Recommissioning of the field emission scanning electron microscope (FESEM)

01/12/2015 – 31/12/2018

Test engineer / Document controller, Tozzi Green S.p.A., Mezzano RA (Italia)

Team member for the realization of Peru Ministerial rural electrification project for the installation of 200k Solar Home System in 3 years: document controller, interaction with purchasing and supplier's office, logistics, supplier audit management, quality control of shipments, non-compliances management; Electrochemical testing of energy storage devices

15/06/2013–30/11/2015

Materials Manager, Tozzi Green S.p.A., Joint Lab CNR-Nanotec - Tozzi green, Lecce, IT, PONR&C Project MAAT_Molecular Nanotechnologies for Human Health and Environment

Realization of a 17x12 cm² photovoltacromic prototypes: semitransparent smart panels of modulable colour in which energy production (DSSC solar cells), lighting (OLEDs) and controlled shielding (photovoltacromic) functions are combined

Management of the efficiency and effectiveness of the technical and experimental choices according to the optimization of the production process and transparency requirements, colour intensity variation, speed of response and energy balances (ISO standards):

- Selection of materials and instruments
- Electrolyte formulation liquid ionic based for electrochromic applications
- Electric and spectro-electrochemical analysis of electrochromic thin films and prototype devices (UV-VIS-NIR 175-3300 nm with integrating sphere)

Technical, scientific, and administrative project reporting

Patents analysis

01/04/2011–14/06/2013

Manager of electrochemical research section, Daunia Solar Cell S.r.l, Forlì FC (Tozzi Green S.p.A. subsidiary company); Project MOSAIC (MISE Industria 2015)

- Formulation of electrolytes for DSSC with the aim of making the device suitable for IEC 61646 stability tests
- Construction of standard procedures for electrochemical measurements on DSSC: current-potential curves (IV) and EIS with data analysis by simulation software
- Stability and compliance tests according to IEC 61646
- Scientific project reporting

22/12/2010 - 31/03/2011

Research fellow ISTEC research program "Study and realization of transparent ceramic materials", theme "Study and realization of prototypes for the demonstration of technological feasibility of transparent ceramic components"

Prot. N. 0001018 22/12/2010

- Optimization of spray drying granulation and crystallographic studies of Yb: YAG for transparent ceramic materials

21/12/2009 - 20/12/2010

Research fellow ISTEC research program: "Electrochemical systems for energy storage", theme "Production and characterization of ceramic electrochemical systems for storage and energy production"

Prot. N. 0000787 21/12/2009

- SEM characterizations of β -alumina for ZEBRA (Zeolite Battery Research Africa Project) cells
- Design and production of DSSC prototypes

15/09/2009 - 14/12/2009

Research fellow ISTEC project "Synthesis and production of ceramic products for electrical, electronic and energy applications" and "New and promising active agents doped with ytterbium for tunable lasers in the near infrared"

Prot. N. 0000398 13/08/2009

- Synthesis and characterization of nano/micro dispersed ceramic systems: nanoparticles of Y_2O_3 and YbY_2O_3 for laser materials
- Optimisation of thin mesoporous layers of TiO_2 for DSSC

15/09/2008 - 14/09/2009

Research fellow ISTEC project "Synthesis and production of ceramic products for electrical, electronic and energy applications", theme "New and promising active ytterbium-doped active media for tunable lasers in the near infrared: feasibility study of transparent ceramic materials for laser sources"

Prot. N. 0000406 12/09/2008

- Chemical synthesis of nanoparticles of Y_2O_3 and YbY_2O_3 microwave in polyols and aqueous solvents

a.s. 2007-2008

Teacher in Mathematic and Science and support teacher in Lower Secondary School (IC Riolo Terme)

Teacher in Chemistry in Upper Secondary School (ITCG "G. Compagnoni", Lugo)

a.s. 2006-2007

Teacher in Food Science (IPSSAR "P. Artusi", Riolo Terme)

Teacher in Chemistry (Ist. Ballardini e Ist. Oriani, Faenza), Upper Secondary Schools

March 2001- Oct. 2006

Research Fellow (post-doc) Materials and Surface Science Institute (MSSI), University of Limerick, IE

Responsible of Atomic force microscope (AFM) (three-dimensional mapping of surfaces with nanometric definition), Ellipsometer (optical characterizations of thin layers of organic and inorganic materials), and Raman spectroscopy (compositional characterizations of ceramic materials and carbon compounds)

Teaching in training courses for PhD students on the same instruments

Analysis of material surfaces in collaboration with university research groups and for industries: the analysed materials included electrodeposited thin layers and metal PVD; polymeric surfaces, carbon fibre surfaces, glass, mesoporous silicates in thin films, powders, enzymes, and proteins deposited on surfaces

Editing of scientific publications, drafting of analysis reports.

Sept. 1997 - Febr. 2001

Research Assistant - PhD student EU project FUPUSET Chemical and Environmental Science Dept., University di Limerick, IE

Dic. 1996 - July 1997	Research Assistant EU project CHRX-CT94-0574, ENSCI, Limoges, FR Study of surfactants to modify the surface properties of powders for ceramic materials and improve the stability of aqueous suspension of Al ₂ O ₃ (Z-potential and rheology with temperature); editing of scientific publications
Jan. 1996 -July 1996	Research Assistant EU project CHRX-CT94-0574, University di Erlangen-Nürnberg, DE Study on hydrophobic interactions in colloidal suspensions of AlN ceramic powders (SEM, FTIR, sedimentation); drafting of final project report
June1995- Oct. 1995	Staff member IVth EcerS Conference, Agenzia Polo Ceramico, Faenza Reorganization and corrections of publications draft, creation of indexes by subject and keywords for congress proceedings, relationships, and correspondence with the speakers
April 1995 - May 1995	Attending graduate Electrochemistry lab , Dept. of Chemistry "G. Ciamician", University of Bologna, and IRTEC, CNR, Faenza Introduction to the properties of ceramic materials and colloidal suspensions
ACADEMIC TEACHING	
AY 2003 - 2004 Autumn semester	Junior Lecturer "Physical Chemistry 4" module CH4005 (Electrochemistry), 3rd. year B.Sc. in Industrial Chemistry, College of Science, University of Limerick
AY 1999 - 2000 Autumn semester	Teaching assistant "Physical Chemistry 4" module CH4005 (Electrochemistry), 3rd. year B.Sc. in Industrial Chemistry, College of Science, University of Limerick
AY 1999 – 2000 Spring semester	Teaching assistant "Physical Chemistry 3" module CH4004, 2nd year B.Sc. in Industrial Chemistry, College of Science, University of Limerick
AY1998 - 1999 Autumn semester	Teaching assistant "Physical Chemistry 4" module CH4005 (Electrochemistry), 3rd. year B.Sc. in Industrial Chemistry, College of Science, University of Limerick
WORK EXPERIENCES PRECEDING THE DEGREE	
30/09/1986 - 30/11/1991	SPA care assistant, Terme di Riolo Bagni, Riolo Terme, RA
1984 - 1987	Agricultural worker, farms in Riolo Terme, RA
01/08/1983 - 14/11/1983	Administrative assistant U.S.L N. 37, Faenza, Economic and procurement service
02/08/1982 - 02/11/1982	Administrative assistant U.S.L. N.37 Faenza, Staff management service
23/11/1981 - 04/03/1983	Music teacher in a "Music training cycle", Primary Schools, Riolo Terme, RA
RECENT PARTICIPATIONS AT CONFERENCES OR WORKSHOPS	
20-24 giugno 2022	Oral presentation: "Nano-week" & NanoCommons Final Conference, Cyprus Presentazione orale: "Wine fining: study on nanostructured mesoporous titania thin layers for adsorption of low molecular weight wine proteins – M.Serantoni , I. Zanoni, A.L. Costa (CNR-ISTEC)
9-11 September 2019	Auditor: 50th ISEO, International symposium on essential oil, Wien, Austria

- 27 - 28 June 2019 Auditor: International Workshop on Supercapacitors and Energy Storage, Bologna
- 24 June 2019 Auditor: Workshop: The role of batteries in the energy transition. The challenges for the research and innovation system in Italy and in Europe, Auditorium Enel, Roma
- 26-30 May 2014 Poster presentation: E-MRS Spring meeting, Lille, France, "Glass frit-sealed electrochromic devices with screen-printed WO₃ layer", **F. Martina**, C. Baldisserrri, M. Serantoni, TRE Tozzi Renewable Energy
- 16 – 18 October 2014 Poster presentation: Photovoltaics: new frontiers and applications, Castello Carlo V°, Lecce, "12x17 cm² glass-frit sealed smart window prototype integrating DSSC and Electrochromic screen-printed sections", **M. Serantoni**, C. Baldisserrri, F. Martina, G. Gorni, TRE Tozzi Renewable Energy, Mezzano RA; TRE-IIT Joint Lab, Arnesano, LE
- 11-12 October 2012 Poster presentation The Italian Photochemistry Meeting, Dipartimento di Chimica "Giacomo Ciamician" Università di Bologna, "Towards industrialization of Dye-Sensitized Solar Cells, Improvement in long-term stability", **M. Serantoni**, I. Zama, C. Martelli, A. Antonini, M. Liberatori, F. Martina, V. Borzatta, G. Gorni, F. Matteucci, Daunia Solar Cell R&D
- 28 June – 1° July 2012 Oral presentation ECHEMS 8th Molecular surface science and catalysis, Bertinoro, Italy, "Towards industrialization of Dye-Sensitized Solar Cells, Improvement in long-term stability", **M. Serantoni**, Daunia Solar Cell R&D
- 14 September 2011 Oral presentation Workshop: "Electrochemistry for a Sustainable Energy Future", Ravenna "Dye-Sensitized Solar Cell. An overview", **M. Serantoni**, Daunia Solar Cell R&D
- 15 - 18 May 2011 Auditor 3rd HOPV Hybrid and Organic Photovoltaics Conference, Valencia, Spain
- 6-8 December 2010 Oral presentation: 6th Laser Ceramics Symposium, International Symposium on Transparent Ceramics for Photonics Applications, Munster, Germany, "Improvement in the processing of Yb:YAG ceramic materials", **M. Serantoni**, L. Esposito, A. Piancastelli, D. Alderighi, A. Pirri, ISTEC CNR Faenza, IFAC-CNR Firenze
- 28-30 April 2010 Oral presentation PRE'10 Workshop, Florence, "Characterization of Yb:YAG ceramic as laser media", D. Alderighi, A. Pirri, G. Toci, M. Vannini, **L. Esposito**, A.L. Costa, M. Serantoni, A. Piancastelli, IFAC-CNR Firenze, ISTEC CNR Faenza
- Poster presentation: "Different approaches for the fabrication of transparent Yb:YAG ceramics", **M. Serantoni**, A.L. Costa, L. Esposito, A. Piancastelli
- 9-11 December 2009 Oral presentation 5th Laser Ceramic Symposium: International Symposium on Transparent Ceramics for Photonics Applications, Bilbao, Spain, "Experimental features affecting the transparency of YAG Materials", **L. Esposito**, A. Piancastelli, M. Serantoni, A.L. Costa, ISTEC CNR Faenza
- 31 March - 3 April 2009 Poster presentation Nanotech2009.it, Nanotechnology, Competitiveness & Innovation for industrial growth, Roma, "Microwave-assisted synthesis of nanometric Y₂O₃ particles for laser source application", M. Serantoni, **A.L. Costa**, E. Mercadelli, A. Sanson, ISTEC CNR Faenza

AWARDS

Parpinello G.P., Ricci A., **Serantoni M.**, Balducci A., Ragni L., Versari A. _Nuovo dispositivo per la stabilizzazione in flusso continuo del vino bianco. ENOFORUM, Società Italiana di Viticoltura ed Enologia (Vicenza, Italy, 21–23 Maggio), Premio ASSOENOLOGI–Versini 2019

Start Cup CNR 2010 – Il Sole 24 ORE Finalista I edizione _Produzione di ceramiche trasparenti per applicazioni ottiche, L. Esposito, M. Vannini, G. Toci, **M. Serantoni**, A. Piancastelli, E. Mammana, M. Mammana

LANGUAGES

NATIVE Italian

OTHER LANGUAGES	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
ENGLISH	C2	C2	C2	C2	C1
FRENCH	C2	C2	C2	C2	B2

MEMBERSHIP

International Society of Electrochemistry Member (ISE) since 2000

Associazione ASSOENOLOGI Member since 2019

LIST OF PUBLICATIONS AND PATENTS

- 1) Parpinello G.P., Ricci A., Serantoni M., Balducci A., Ragni L., Versari A.
A new device for stabilization of white wines throughout a continuous flow system, Alma Mater Studiorum – University of Bologna P.zza Goidanich 60, Cesena (FC)

(2020) Internet Journal of viticulture and enology, n:1/1
- 2) Martina, F., Pugliese, M., Serantoni, M., Baldisserri, C., Gorni, G., Maggiore, A., Gigli, G., Maiorano, V.
Large area self-powered semitransparent trifunctional device combining photovoltaic energy production, lighting and dynamic shading control

(2017) Solar Energy Materials and Solar Cells, 160, pp. 435-443.
- 3) Grisorio, R., De Marco, L., Baldisserri, C., Martina, F., Serantoni, M., Gigli, G., Suranna, G.P.
Sustainability of organic dye-sensitized solar cells: The role of chemical synthesis

(2015) ACS Sustainable Chemistry and Engineering, 3 (4), pp. 770-777.
- 4) Serantoni, M., Costa, A.L., Zanelli, C., Esposito, L.
Crystallization behaviour of Yb-doped and undoped YAG nanoceramics synthesized by microwave-assisted urea precipitation

(2014) Ceramics International, 40 (8 PART A), pp. 11837-11844.
- 5) Esposito, L., Epicier, T., Serantoni, M., Piancastelli, A., Alderighi, D., Pirri, A., Toci, G., Vannini, M., Anghel, S., Boulon, G.
Integrated analysis of non-linear loss mechanisms in Yb: YAG ceramics for laser applications

(2012) Journal of the European Ceramic Society, 32 (10), pp. 2273-2281.
- 6) Serantoni, M., Piancastelli, A., Costa, A.L., Esposito, L.
Improvements in the production of Yb:YAG transparent ceramic materials: Spray drying optimisation

(2012) Optical Materials, 34 (6), pp. 995-1001.
- 7) Esposito, L., Piancastelli, A., Costa, A.L., Serantoni, M., Toci, G., Vannini, M.
Experimental features affecting the transparency of YAG ceramics

(2011) Optical Materials, 33 (3), pp. 713-721.
- 8) Costa, A.L., Serantoni, M., Blosi, M., Mercadelli, E., Esposito, L., Piancastelli, A., Sanson, A.
Microwave assisted synthesis of Yb:Y2O3 based materials for laser source application

(2010) Advanced Engineering Materials, 12 (3), pp. 205-209.
- 9) Serantoni, M., Mercadelli, E., Costa, A.L., Blosi, M., Esposito, L., Sanson, A.
Microwave-assisted polyol synthesis of sub-micrometer Y2O3 and Yb-Y2O3 particles for laser source application

(2010) Ceramics International, 36 (1), pp. 103-106.
- 10) Alderighi, D., Pirri, A., Toci, G., Vannini, M., Esposito, L., Costa, A.L., Piancastelli, A., Serantoni, M.
Characterization of Yb:YAG ceramics as laser media

(2010) Optical Materials, 33 (2), pp. 205-210.
- 11) Parlak, E.A., Sarac, A.S., Serantoni, M., Bobacka, J.
Electropolymerization of N-Hydroxyethylcarbazole on carbon fiber microelectrodes

(2009) Journal of Applied Polymer Science, 113 (1), pp. 136-142.
- 12) Sarac, A.S., Gencturk, A., Schulz, B., Gilsing, H.-D., Serantoni, M.
Nanoscale surface morphology and monomer concentration dependence on impedance of electrocoated 2,2-dimethyl-3,4-propylene-dioxythiophene on carbon fiber microelectrode

(2007) Journal of Nanoscience and Nanotechnology, 7 (10), pp. 3543-3552.
- 13) Sarac, A.S., Geyik, H., Parlak, E.A., Serantoni, M.

Electrochemical composite formation of thiophene and N-methylpyrrole polymers on carbon fiber microelectrodes: Morphology, characterization by surface spectroscopy, and electrochemical impedance spectroscopy

(2007) Progress in Organic Coatings, 59 (1), pp. 28-36.

- 14) Zynek, M., Serantoni, M., Beloshapkin, S., Dempsey, E., McCormac, T.
Electrochemical and surface properties of multilayer films based on a Ru²⁺ metallodendrimer and the mixed addenda Dawson heteropolyanion
(2007) Electroanalysis, 19 (6), pp. 681-689.
- 15) O'Dwyer, C., Buckley, D.N., Sutton, D., Serantoni, M., Newcomb, S.B.
An Investigation by AFM and TEM of the Mechanism of Anodic Formation of Nanoporosity in n-InP in KOH
(2007) Journal of the Electrochemical Society, 154 (2), pp. H78-H85.
- 16) Vignali, M., Edwards, R.A.H., Serantoni, M., Cunnane, V.J.
Electropolymerized polythiophene layer extracted from the interface between two immiscible electrolyte solutions: Current-time analysis
(2006) Journal of Electroanalytical Chemistry, 591 (1), pp. 59-68.
- 17) Sarac, A.S., Serantoni, M., Tofail, S.A.M., Cunnane, V.J.
Nanoscale characterization of carbazole-Lndole Copolymers Modified Carbon Fiber Surfaces
(2005) Journal of Nanoscience and Nanotechnology, 5 (10), pp. 1677-1682.
- 18) Sarac, A.S., Serantoni, M., Tofail, S.A.M., Henry, J., Cunnane, V., McMonagle, J.B.
Characterisation of nanosize thin films of electrografted N-vinylcarbazole copolymers (P[NVCz-co-VBSA] and P[NVCz-co-3-MeTh]) onto carbon fibre: AFM, XPS, and Raman spectroscopy
(2005) Applied Surface Science, 243 (1-4), pp. 183-198.
- 19) Serantoni, M., Sarac, A.S., Sutton, D.
FIB-SIMS investigation of carbazole-based polymer and copolymers electrocoated onto carbon fibers, and an AFM morphological study
(2005) Surface and Coatings Technology, Volume 194, Issue 1, Pages 36-41
- 20) Turner, K., Serantoni, M., Boyce, A., Walsh, G.
The use of proteases to remove protein-based residues from solid surfaces
(2005) Process Biochemistry, 40 (10), pp. 3377-3382.
- 21) Rahman, I.Z., Razeeb, K.M., Kamruzzaman, M., Serantoni, M.
Characterisation of electrodeposited nickel nanowires using NCA template
(2004) Journal of Materials Processing Technology, 153-154 (1-3), pp. 811-815.
- 22) Sarac, A.S., Serantoni, M., Tofail, S.A.M., Cunnane, V.J.
Morphological and spectroscopic analyses of poly[N-vinylcarbazole-co- vinylbenzenesulfonic acid] copolymer electrografted on carbon fiber: The effect of current density
(2004) Applied Surface Science, 229 (1-4), pp. 13-18.
- 23) Sarac, A.S., Tofail, S.A.M., Serantoni, M., Cunnane, V.J.
Spectroscopic and topographic characterization of the effect of monomer feed ratio in electrocopolymerization of N-vinylcarbazole-co-3-methylthiophene on carbon fiber
(2004) Journal of Materials Science, 39 (8), pp. 2945-2950.
- 24) Sarac, A.S., Evans, U., Serantoni, M., Clohessy, J., Cunnane, V.J.
Electrochemical and morphological study of the effect of polymerization conditions on poly(terthiophene)
(2004) Surface and Coatings Technology, 182 (1), pp. 7-13.
- 25) Chowdhury, S., Laugier, M.T., Rahman, I.Z., Serantoni, M.
Nanoindentation combined with scanning force microscope for characterization of mechanical properties of carbon nitride thin films

- (2004) Surface and Coatings Technology, 177-178, pp. 537-544.
- 26) Sarac, A.S., Tofail, S.A.M., Serantoni, M., Henry, J., Cunnane, V.J., McMonagle, J.B.
Surface characterisation of electrografted random poly[carbazole-co-3-methylthiophene] copolymers on carbon fiber: XPS, AFM and Raman spectroscopy
 (2004) Applied Surface Science, 222 (1-4), pp. 148-165.
- 27) Deere, J., Serantoni, M., Edler, K.J., Hodnett, B.K., Wall, J.G., Magner, E.
Measurement of the Adsorption of Cytochrome c onto the External Surface of a Thin-Film Mesoporous Silicate by Ellipsometry
 (2004) Langmuir, 20 (2), pp. 532-536.
- 28) O'Dwyer, C., Buckley, D.N., Serantoni, M., Sutton, D., Newcomb, S.B.
Pitting and porous layer formation on n-InP anodes
 (2003) Proceedings - Electrochemical Society, 11, pp. 136-151.
- 29) Buckley, D.N., O'Dwyer, C., Melly, T., Serantoni, M., Sutton, D., Newcomb, S.B.
A study of anodic films on N-type inp by spectroscopic ellipsometry and atomic force microscopy
 (2003) Proceedings - Electrochemical Society, 25, pp. 103-115.
- 30) Sarac, A.S., Evans, U., Serantoni, M., Cunnane, V.J.
Electrochemical and morphological study of the effect of polymerization conditions on poly(tetrathiophene) with emphasis on carbon fiber microelectrodes: A cyclic voltammetry and atomic force microscopy study
 (2003) Carbon, 41 (14), pp. 2725-2730.
- 31) Serantoni, M., Cunnane, V.J.
Time dependence study of the anisotropic etching of silicon by electrochemical impedance spectroscopy and atomic force microscopy
 (2003) Journal of Electroanalytical Chemistry, 548 (SUPPL.), pp. 49-67.
- 32) Redington, W., Redington, M., Hampshire, S., Serantoni, M.
Properties of some high Al content glasses in various lanthanide-Si-Al-O-N systems
 (2003) Journal of Non-Crystalline Solids, 316 (1), pp. 74-81.
- 33) Pagnoux, C., Serantoni, M., Laucournet, R., Chartier, T., Baumard, J.-F.
Influence of the temperature on the stability of aqueous alumina suspensions
 (1999) Journal of the European Ceramic Society, 19 (11), pp. 1935-1948.

PATENT: WO2019/202480

Title: A device for stabilizing wine and other vegetable beverages and the related stabilizing methods

Inventors: Parpinello Giuseppina Paola, Versari Andrea, Ragni Luigi, Ricci Arianna, **Serantoni Marina**, Balducci Andrea

Applicant: Alma Mater Studiorum, Università di Bologna