

## **CURRICULUM VITAE**



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### **Affiliations**

Department of Materials Engineering and Industrial Technology, University of Trento

### **Current position**

Aggregate professor of Materials Science and Technology at University of Trento  
Teacher of "Product design" and "Durability and reliability of materials and plants";

and

"Coatings to improve the corrosion and wear behaviour" and "Surface Analysis Techniques for the Evaluation of the Materials Degradation" at PhD school in Materials Engineering

### **Education**

Dr. in Materials engineering (1991, University of Trento); (1993 Luigi Grifone Award of the Italian Chemical Society - Electrochemistry Division);  
Ph.D. in Science and Technology of Materials (1997, University of Florence)

### **Academic experience**

- Post-doc Researcher (University of Trento, 1998-1999)

- Research Scientist (University of Trento, 2000-2004)
- Assistant Professor (University of Trento, 2005 to present)

Visiting Professor (Maitre de Conferences) at Université De Provence (Marseille – France), May 1999, June 2000, November 2001, June 2003, July 2004, July 2005, June 2006, June 2007, June 2008

Visiting Professor at Universitade de Vigo (Spain) October 2002

### **Teaching activity**

#### **At University of Trento:**

From 2005-06 to 2006-07 "Production technology of materials (2 ECTS credits)  
 From 2007-08 to present: "Product Design" 6 ECTS credits) and "Durability and reliability of materials and plants" 6 ECTS credits);  
 From 2002-03 to present: Coatings to improve the corrosion and wear Behaviour (1.5 ECTS credits) and Evaluation of the Materials Degradation (1 ECTS credits) at PhD school.

#### **At University of Bozen**

From 2000-01 to 2006-07 Technology of Materials (4 ECTS credits) (Free University of Bozen and Polytechnic of Turin)

From 2007-08, to 2008-09 Technology of Materials (10 ECTS credits)

From 2011-12 Technology of Materials (8 ECTS credits)

#### **At Academy of Fine Arts "G. Cignaroli) Verona**

2006-07 and 2008-09 "Technology of new materials (4 ECTS credits) at Design school.

#### **At University of Modena and Reggio Emilia**

2000 , 2001, 2002 "Protection of Surface" at Master in Metallurgy

#### **At Universtity Alma Mater Studiorum of Bologna**

2007-2010 "Corrosion protection of offshore structures" at Master in "Plants design for offshore oil and gas fields"

### **Teaching appointments**

At Free University of Bozen: Technology of materials (8 ECTS credits)

### **Research activity**

#### **1. Areas of scientific interest**

Corrosion behaviour of materials;

Corrosion protection using organic, metallic and ceramic coatings

Cathodic protection;

Electrochemical techniques;

Coatings to improve technological and aesthetical properties of materials;

Materials applied in product design

## List of publications

### Articles in International Refereed Journals

- L. Fedrizzi, F. Deflorian, S. Rossi "Corrosion protection of sintered metal parts by coating deposition. Part I: microstructural characterization" *Werkstoffe und Korrosion*; vol.45-4-1994, p.222.
- L. Fedrizzi, F. Deflorian, S. Rossi "Corrosion protection of sintered metal parts by coating deposition. Part II: corrosion and electrochemical characterization"-*Werkstoffe und Korrosion*; vol.45-5-1994, p.264.
- R. Di Maggio, L. Fedrizzi, S. Rossi, P. Scardi "Dry and wet corrosion behaviour of AISI 304 stainless steel coated by sol-gel ZrO<sub>2</sub> -CeO<sub>2</sub> films" *Thin Solid Films* (Oxford UK) 286 (1996) 127.
- S. Rossi, P.L. Bonora, R. Pasinetti, L. Benedetti, M. Draghetti, E.Sacco; "Composite sacrificial anodes for offshore structures". *Materials Performance* (Houston US) February 1996, p.29.
- R. Di Maggio, L. Fedrizzi, S. Rossi, P. Scardi. " ZrO<sub>2</sub> - CeO<sub>2</sub> films as protective coatings against dry and wet corrosion of metallic alloys ". *Surface and Coatings Technology*, 89 (1997) 292 (N.Y., U.S.).
- L. Fedrizzi, F. Deflorian, S. Rossi, "Filiform corrosion of aluminium sheets pretreated in chromium free conversion baths", *Benelux Métallurgie*, Vol. XXXVII, n.2-4 1997, p. 243.
- F. Deflorian, L. Fedrizzi, S. Rossi, " Electrochemical Impedance Spectroscopy and Fourier transform infrared of natural and accelerated weathering of organic coatings ", *Corrosion*, 54 n. 8 (1998), 598.
- S. Rossi, P.L. Bonora, M. Draghetti, " Cathodic Protection Revamping Technology for Offshore Structures: The Agbara Platform ", *Materials Performance*, vol. 37 (1998) n. 3, p. 15.
- F. Deflorian, L. Fedrizzi, S. Rossi, P.L. Bonora, "A Statistical Approach to the Determination by EIS of the Protecting Properties of Organic Coatings", *Proc. EMCR'97, Trento 25-29/08/97, Materials Science Forum*, vol. 289-292 (1998) 337.
- L. Fedrizzi, F. Deflorian, S. Rossi, P.L. Bonora, "Study of Aluminium Filiform Corrosion by using Electrochemical Techniques", *Proc. EMCR'97, Trento 25-29/08/97, Materials Science Forum*, vol. 289-292 (1998) 485.
- S. Rossi, L. Fedrizzi, Y. Massiani, F. Vacandio, P.L. Bonora, "Corrosion and Wear-Corrosion Studies of Nitrides Coatings obtained by Reactive Sputtering", *Proc. EMCR'97, Trento 25-29/08/97, Materials Science Forum*, vol. 289-292 (1998) 729.
- S. Rossi, "Failure of welded stainless steel evaporator tubes", *Materials Performance*, 37 (1998) n.9 p. 62
- P.L. Bonora, S. Rossi, L. Benedetti, M. Draghetti, "Improved sacrificial anode for the protection of off-shore structures". in "Development in Marine Corrosion" Edited by S.A. Campbell, N. Campbell, F.C. Walsh; The Royal Society of

chemistry 1998, Cambridge U.K., p. 155, Proc. of 9th International Congress on Marine Corrosion and Fouling; Portsmouth (U.K.) July 17-21 1995

- P.L. Bonora, F. Deflorian, L. Fedrizzi, S. Rossi, "Electrochemical Evaluation of Coatings for Marine Corrosion Control". in "Development in Marine Corrosion" Edited by S.A. Campbell, N. Campbell, F.C. Walsh; The Royal Society of chemistry 1998, Cambridge U.K., p. 163, Proc. of 9th International Congress on Marine Corrosion and Fouling; Portsmouth (U.K.) July 17-21 1995.

- S. Rossi, P.L. Bonora, R. Pasinetti, L. Benedetti, M. Draghetti, E. Sacco; "Laboratory and field characterization of a new sacrificial anode for the cathodic protection of offshore structures", Corrosion, vol.54, n.12, 1998, p.1018.

- P.L. Bonora, S. Rossi, F. Deflorian, "Aluminium-magnesium composite anode for cathodic protection of offshore platform", Materials Engineering, 9(1998), n.3-4, p.323.

- M. Leoni, P. Scardi, S. Rossi, L. Fedrizzi, Y. Massiani, "(Ti,Cr)N and TiN/Ti PVD coating on 304 stainless steel substrate: texture and residual stress", Thin Solid Films, 345 (1999) 263.

- F. Deflorian, L. Fedrizzi, S. Rossi, "Organic Coating Capacitance Measurement by EIS: ideal and actual trends", Electrochimica Acta 44, (1999) 4243; presented at "EIS'98" Rio de Janeiro (Brazil) 2-7 August 1998,(proc. p.183).

- S. Rossi, L. Fedrizzi, M. Leoni, P. Scardi, Y. Massiani, "(Ti,Cr)N and TiN/Ti PVD coating on 304 stainless steel substrates: wear-corrosion behaviour", Thin Solid Films, 350 (1999), 161.

- P.L. Bonora, F. Deflorian, L. Fedrizzi, S. Rossi, L. Benedetti, "The electrochemical approach to asses coating performance"6<sup>th</sup> All-Polish corrosion Conference "Materials and Environment", 22-25/6/99 Czestochowa (Polonia); in Ochrona Przed Korozja 42 (1999) 305

- F. Deflorian, S. Rossi, L. Fedrizzi, P.L. Bonora, "Statistical analysis of salt spray and EIS testing data concerning organic coated metals" JCSE The Journal of Corrosion Science and Engineering Vol. 2 paper n.11.

- F.X. Rodriguez, L. Fedrizzi, R. Di Maggio, S. Rossi "Amorphous Zirconia Films as Adhesion Promoter for Organic Coating" JCSE The Journal of Corrosion Science and Engineering Vol. 2 paper n.2.

- F. Deflorian, L. Fedrizzi, S. Rossi "Degradation of protective organic coatings after cupping test", Corrosion, 55 (1999), 1003

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- F. Deflorian, L. Fedrizzi, S. Rossi, "Effects of mechanical deformation on the protection properties of coil coating products", Corrosion Science 42 (2000), 1283.

- P.L. Bonora, F. Deflorian, L. Fedrizzi, S. Rossi, L. Benedetti, "Electrochemical tests in coating research and monitoring" Physico- chemical Mechanics of Materials vol 64, 2000, special issue n.1, p.3.

- F. Deflorian, L. Fedrizzi, S. Rossi, F. Buratti, P.L. Bonora, "Electrochemical characterisation of organic coatings for the automotive industry", Progress in Organic Coatings 39 (2000) 9; (Presented at International Workshop Application of Electrochemical Techniques to Organic Coatings, Shliffkopf, Germany, 6-9/5/99,
- F. Deflorian, L. Fedrizzi, S. Rossi, P.L. Bonora, "Properties of painted stainless steel", A.C.H. Models in Chemistry 137 (2-3), (2000) 341, (presented at 5<sup>th</sup> International Microsymposium on Electrochemical Impedance Analysis, Balatonföldvár, Hungary, 30/05-4/6/99, proc. P. 28)
- F. Deflorian, L. Fedrizzi, S. Rossi, P.L. Bonora, "Electrochemical methods for the study of protective organic coatings after mechanical deformations"; in "Electrochemical Approach to Selected Corrosion and Corrosion Control Studies", Edited by P.L. Bonora, F. Deflorian, European Federation of Corrosion Publications n. 28, London 2000, p. 49.
- S. Rossi, L. Fedrizzi, F. Deflorian, M. Zen "Wear-corrosion of nitrided steel: corrosion potential monitoring to evaluate the effect of test parameters" Werkstoffe und Korrosion 51 (2000) 552.
- F. Deflorian, S. Rossi, P.L. Bonora, L. Fedrizzi, "Advanced Testing Procedures for high performance coatings", Journal of Coating Technology, vol 72, n 908, (2000) 81.
- F. Vacandio, Y. Massiani, E. Eyraud, S. Rossi, L. Fedrizzi, "Influence of Various nickel under-layers on the corrosion behaviour of AlN films deposited by reactive sputtering" Surface and Coatings Technology 137 (2001) 284.
- N. Tamanini, F. Deflorian, S. Rossi, P.L. Bonora, "Study of new protective organic coatings based on conducting polymers", European Coatings, 77 (2001), 17
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- R. Di Maggio, L. Fedrizzi, S. Rossi, "Effect of the chemical modification of the precursor of ZrO<sub>2</sub> films on the adhesion of organic coatings". Journal of Adhesion Science and Technology, 2001, Vol. 15, n.7, pp. 793-808
- F. Vacandio, Y. Massiani, P. Gravier, S. Rossi, P.L. Bonora, L. Fedrizzi, "Improvement of the electrochemical behaviour of AlN films produced by reactive sputtering using various under-layer", Electrochimica Acta, 46 (2001) 3827
- L. Fedrizzi, F. X. Rodriguez, S. Rossi, F. Deflorian, R. Di Maggio, P.L. Bonora "The use of electrochemical techniques to study the corrosion behaviour of organic coating on steel pretreated with sol-gel zirconia films" Electrochemical Acta 46 (2001) 3715 (presented at EMCR' 2000, Budapest (Ungheria) 28/5-1/6/2000, proc. on CD-rom, key note n. 07).
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- L. Fedrizzi, A. Bianchi, F. Deflorian, S. Rossi, P.L. Bonora "Effect of chemical cleaning on the corrosion behaviour of painted aluminium alloys" Electrochemical Acta 47 (2002) 2159 (presented at 5<sup>th</sup> International Symposium on Electrochemical Impedance Spectroscopy, Marilleva (TN), 17-22/6/'01)
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- F. Deflorian, L. Fedrizzi, S. Rossi, P.L. Bonora, "Defects dimension evaluation in organic coated galvanised steel by electrochemical impedance spectroscopy", Journal of Applied Electrochemistry 32 (2002), 921-927.
- S. Rossi, L. Fedrizzi, T. Bacci, G. Pradelli, "Corrosion behaviour of glow discharge nitrided titanium alloys", Corrosion Science 45 (2003) 511.
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- L. Fedrizzi, F.J. Rodriguez, S. Rossi, F. Deflorian, "Corrosion study of industrial painting cycles for garden furniture" Progress in Organic Coatings 46 (2003) 62
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- S. Rossi, F. Chini, G. Straffellini, P.L. Bonora, R. Moschini, A. Stampali, "Corrosion protection properties of electroless nickel/PTFE, phosphate/MoS<sub>2</sub> and bronze/PTFE coatings applied to improve the wear resistance of carbon steel", Surface and Coatings Technology, 173 (2003) 235
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- S. Rossi, L. Fedrizzi, F. Deflorian, "Characterisation of commercial metallic coatings for corrosion protection of P/M parts" *The Int. J. of Powder Metallurgy*, 40 (2004), 33.
- L. Fedrizzi, R. Di Maggio, S. Rossi, L. Leonardelli, "Study of sol-gel zirconia films deposited on aluminium" *Benelux Métallurgie*, Vol. 43, n.1-2 2003, p. 15
- F. Deflorian, S. Rossi, B. Tancon, P.L. Bonora, "Corrosion behaviour of steel ropes for snow and rockfall barriers" *Corrosion Engineering, Science and Technology* 39 (2004) 250
- S. Rossi, F. Deflorian, L. Fontanari, A. Cambuzzi, P.L. Bonora, "Electrochemical measurements to evaluate the damage due to abrasion on organic protective system" *Progress in Organic Coatings*, 52 (2005) 288–297
- F. Deflorian, S. Rossi, L. Fedrizzi, P.L. Bonora, "EIS study of organic coating on zinc surface pretreated with environmentally friendly products" *Progress in Organic Coatings* 52 (2005) 271–279
- A. Cambuzzi, S. Rossi, F. Deflorian, "Reduction on protective properties of organic coatings produced by abrasive particles" *Wear*, 258 (2005) 1696-1705
- P. Bourdet, F. Vacandio, L. Argeme, S. Rossi, Y. Massiani, "Anodisation of sputtered titanium films: an electrochemical and electrochemical quartz crystal microbalance study", *Thin Solid Films* 483 (2005) 205– 210
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- F. Deflorian, S. Rossi, "An EIS study of ion diffusion through organic coatings" *Electrochimica Acta* 51 (2006) 1736–1744
- F. Deflorian, S. Rossi and S. Prosseda, "Improvement of corrosion protection system for aluminium body bus used in public transportation" *Materials & Design*, 27 (2006) 758-769.
- F. Deflorian, S. Rossi, L. Fedrizzi, "Silane pre-treatments on copper and aluminium" *Electrochimica Acta* 51 (2006) 6097-6103
- S. Rossi, F. Deflorian, M. Risatti, "Modified Taber apparatus and new test geometry to evaluate the reduction of organic coatings corrosion protective properties induced by abrasive particles", *Surface and Coatings Technology* 201 (2006) 1173-1179

- M. Fall, A.A. Diagne, M.Guene, C. Della Volpe, P.L. Bonora, F. Deflorian, S. Rossi, "Electrochemical properties and electrochemical impedance spectroscopy of polypyrrole-coated platinum electrodes" Bulletin .Chemical. Society .Ethiopia 20 (2006) n.2, pag.279-293
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- S. Rossi, F. Deflorian, L. Maines, "Anodising of new lead free aluminium alloys for machining application" Benelux Metallurgie 45 (2006) n.1-4 p. 299-305
- S. Rossi, F. Deflorian, J. Fiorenza "Environmental influences on the abrasion resistance of a coil coating system", Surface & Coatings Technology 201 (2007) 7416–7424
- L. Fedrizzi, L. Valentinelli, S. Rossi, S. Segna, "Tribocorrosion behaviour of HVOF cermet coatings" Corrosion Science 49 (2007) 2781–2799
- A.A. Diane, M. Fall, M. Guene a, M.M. Dieng, F. Deflorian, S. Rossi, P.L. Bonora, C. Della Volpe, "Electrochemical impedance spectroscopy of polybithiophene films in an aqueous LiClO<sub>4</sub> solution" Comptes Rendus Chimie 10 (2007) 558-563
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  - S. Rossi, M. Fedel, F. Deflorian, M. del C. Vadillio, "Localized electrochemical techniques: theory and practical examples in corrosion studies" *Comptes Rendus Chimie* 11 (2008) 984-994
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  - S. Rossi, F. Deflorian, E. Scrinzi, "Changes in the aesthetic-functional properties of organic coatings systems due to mechanical damages" *Pitture e Vernici – European Coatings* 84 (2008) n.10 p.20-27
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  - M. Fedel, M. Olivier, M. Poelman, F. Deflorian, S. Rossi, M.-E. Druart, "Corrosion protection properties of silane pre-treated powder coated galvanized steel" *Progress in Organic Coatings* 66 (2009) 118–128
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  - F. Deflorian, S. Rossi, M. Fedel, "Durability of aluminum cooling system in electric power plants" *Surface Interface Analysis* 42 (2010), 269–274
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- E. Scrinzi, S. Rossi, F. Deflorian, C. Zanella "Evaluation of aesthetic durability of waterborne polyurethane coatings applied on wood for interior applications" Progress in Organic Coatings 72 (2011) 81– 87

### Articles in National Journals

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- S. Rossi, R. Pasinetti "Protection of offshore structures" Materiali ed Ingegneria anno 3, n.1 (1999) p.9.
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- S. Rossi, E. Bertassi, L. Fedrizzi, "Nitriding of steel for die casting by means of an ionic immersion plasma", Trattamenti e Finiture, vol. 42, (2002) 48.
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