Prof. Dr. Ph.D. Habil. Claudio Fontanesi

Curriculum Vitae

Profilo Accademico

Ricercatore di Chimica Fisica, SSD 81, Università degli Studi di Modena, 01 Maggio1987.

Professore associato di Chimica Fisica, CHIM/02, UniMORE, 01 Nov 2001.

Professore ordinario, abitiltazione, "Settore Concorsuale 03/A2 - I Fascia – Quarto Quadrimestre", Chimica Fisica, 12 July 2020

Premi e riconoscimenti

"Joseph Meyerhoff Visiting Professorships" 2019/2020, Weizmann Institute of Science.

Invited Lecture and short visit invitation:

Univ. of Warsaw, Dept. of Chemistry, c/o Prof. Zbigniew Koczorowski.

Univ. of Ulm, Dept. of Chemistry, c/o Prof. Dieter M. Kolb.

ENS, Dept. of Chemistry, Paris, c/o Prof Christian Amatore.

ENS, Dept. of Chemistry, Paris, c/o Prof Damien Laage and James T. Hynes.

Univ. of Oxford, Dept. of Chemistry, c/o Prof Richard Compton.

Univ. of Aarhus, Dept. of Chemistry, c/o Prof Kim Daasbjerg and Steen Uttrup Pedersen.

TUM, Munchen, Dept. of Physics, c/o Prof. Katharina Krischer.

Univ. of Delhi, Dept of Chemistry, c/o Prof. Gurmeet Singh (2010, 2011, 2015)

Univ. of Chandighar, Dept of Chemistry, c/o Prof. Gurmeet Singh and Lidia Szpyrkowicz

Univ. of Gothenburg, 1st KISS, c/o Prof. Aleksandar Matic and Prof. Bruno Scrosati.

Giornate dell'Elettrochimica Italiana (GEI 2015), Bertinoro 20 to 24 september2015.

Visiting academic positions

Weizmann Institute of Science, Dept. of Chemical Physics, c/o Prof. Ron Naaman (2013-2022)

for a total of more than 24 months.

Invited Lecture and short visit invitation:

Univ. of Warsaw, Dept. of Chemistry, c/o Prof. Zbigniew Koczorowski.

Univ. of Ulm, Dept. of Chemistry, c/o Prof. Dieter M. Kolb.

ENS, Dept. of Chemistry, Paris, c/o Prof Christian Amatore.

ENS, Dept. of Chemistry, Paris, c/o Prof Damien Laage and James T. Hynes.

Univ. of Oxford, Dept. of Chemistry, c/o Prof Richard Compton.

Univ. of Aarhus, Dept. of Chemistry, c/o Prof Kim Daasbjerg and Steen Uttrup Pedersen.

TUM, Munchen, Dept. of Physics, c/o Prof. Katharina Krischer.

Univ. of Delhi, Dept of Chemistry, c/o Prof. Gurmeet Singh (2010, 2011, 2015)

Univ. of Chandighar, Dept of Chemistry, c/o Prof. Gurmeet Singh and Lidia Szpyrkowicz

Univ. of Gothenburg, 1st KISS, c/o Prof. Aleksandar Matic and Prof. Bruno Scrosati.

Giornate dell'Elettrochimica Italiana (GEI 2015), Bertinoro 20 t...

Didattica e PhD supervisione

Corsi attuali:

1) “Electrochemical Energy Conversion”, Faculty of Engineering, Univ. of Modena (D.M.270/04). Specialistic (2nd degree) Engineering Materials/Vehicle.

2) ”Caratterizzazione Strumentale dei Materiali”, compulsory for “Material Engineering Course”, Faculty of Engineering, Univ. of Modena (D.M.270/04).

Corsi passati:

1) “Lab. of Chimica Fisica 1 (for Chemistry), A.A. from 95/96 to 2006/07. 2) "Applied Phys. Chem.", (for Chemistry) 3) "Solid State Phys. Chem.”, (for Geology) 4) "Electric Measurements (A Chemistry Oriented Special Course)", for Chemistry. 5) "Molecular Electrochemistry", PhD in Chemistry

6) "Solid State Chimica Fisica", course in Geologia, A.A. 03/04, 04/05, 05/06. 7) "Rheology Laboratory", free course Science Faculty, A.A. from 2002/03 to 2006/07. 8) "Processi termodinamici in ambiente terrestre", earth science degree.

Posizioni in associazioni

Vice-Presidente della Divisione di elettrochimica, Italian Chemistry Society (SCI):

2011-2013. Membro del “Direttivo” della Divisione di elettrochimica, (SCI): 2013 – 2014

Organizzazione Scientifica / Coordinazione di attività accademiche.

PI, UniMORE unita’ locale di 5 MIUR PRIN/COFIN e 1 CNR progetti:

PRIN2022, PRIN2008, COFIN2004, COFIN2002, COFIN2000, CNR Agenzia2000

Organizzazione:

1) Segretario: Giornate dell’Elettrochimica Italiana, GEI 1991, Modena 16-19 sett. 1991.

2) Presidente: INCONTRI CON LE IMPRESE: Problematiche, tecnologiche e ambientali nei processi galvanici: ossidazione anodiche, elettrodeposizioni, corrosione, trattamenti superficiali. Dipartimento di Chimica, Modena 15 Giugno 2001.

3) Presidente: WORKSHOP: PERSPECTIVES IN ELECTROCHEMISTRY OF COMPLEX SYSTEMS. Dipartimento di Chimica, Centro SCS, Modena 29 Aprile 2004.

4) Presidente: Giornate dell'Elettrochimica Italiana, GEI 2010, Modena 5-10 settembre 2010.

5) Delegato per la Divisione di elettrochimica: XXIV Congresso Nazionale SCI, Lecce, 11-16 Sett. 2011

6) Organizzatore: 8th ECHEMS 2012, Italy, (Bertinoro) june 2012.

7) Organizatore: ECHEMS 12th, Electrochemistry in… ingenious molecules, surfaces and devices. 6th - 9th June 2017 http://sites.unimi.it/echems2017

8) The 69th Annual Meeting of the International Society of Electrochemistry, Electrochemistry from Knowledge to Innovation 2 to 7 September 2018, Bologna, Italy. Symposium 18: Theory: from Understanding to Optimization and Prediction

EU projects: presentati 8, 5 as PI

Editoriale

1) Advances in Physical Chemistry, Hindawi: http://www.hindawi.com/journals/apc/editors/

2) Guest editor: Journal of Electroanalytical Chemistry Volume 710, 1 December 2013

3) Editor of Molecules, electrochemistry section.

4) Guest Editor for the journal Magnetochemistry, MDPI, of the Special Issue "Applications of Magnetization and Polarization for Molecules and Materials".

Membro di

The Electrochemical Society (ECS).

- H-Index (in Scopus): 29 - Total number of publications in peer-reviewed journals > 125

- Total IF > 781

Pubblicazioni di alto impatto

“Chirality enhances oxygen reduction”, PNAS 119 (30).

“Charge transfer modulation in charge transfer co-crystals driven by crystal structure morphology” PCCP 24 (31), 18816-18823

“Spin Multiplicity and Solid-State Electrochemical Behavior in Charge-Transfer Co-crystals of DBTTF/F4TCNQ” The Journal of Physical Chemistry C 125 (16), 8677-8683

“Spin control using chiral templated nickel”, Applied Physics Letters, 2021, 118(22), 224001

“Exchange Interactions Drive Supramolecular Chiral Induction in Polyaniline”, Small Methods, (2020), 4, Issue 10, 2000617 https://doi.org/10.1002/smtd.202000617

“The electron spin as a chiral reagent”, Angew. Chem. Int. Ed., (2020), V59, Issue 4, 1653-1658

“Injection of spin-polarized electrons into a AlGaN/GaN device “ ACS Nano, (2018), 12 (4), pp 3892

“Spin-Dependent Transport through Chiral Molecules Studied by Spin-Dependent Electrochemistry” Accounts of Chemical Research, (2016) 49 (11), pp. 2560-2568.

"2D phase transition of organic molecules adsorbed at the Hg electrode/aqueous solution interface. Part 2."J. Chem. Soc., Faraday Trans., 94 (1998) 2417.

Google scholar: https://scholar.google.it/citations?user=HR_DvsEAAAAJ&hl=it

Scopus: https://www.scopus.com/authid/detail.uri?authorId=55923159700

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