

## Dr. Fosca Conti

### List of publications of scientific articles on international journals

(symbol \* stays for corresponding author)

► A vibrational spectroscopic and DFT study of poly(2,5-benzimidazole) (ABPBI) – phosphoric acid interactions in HT-PEFC membranes

G. A. Giffin, F. Conti<sup>\*</sup>, S. Lavina, A. Majerus, G. Pace, C. Korte, W. Lehnert, V. Di Noto<sup>\*</sup>

*Int. J. Hydrogen Energy*, 2013, <http://dx.doi.org/10.1016/j.ijhydene.2013.04.152>.

► Carbon NMR investigation of the polybenzimidazole-dimethylacetamide interactions in membranes for fuel cells.

F. Conti<sup>\*</sup>, S. Willbold, S. Mammi, C. Korte, W. Lehnert, D. Stolten,

*New J. Chem.*, 2013, 37, 152-156.

► Thermogravimetric and Spectroscopic Investigation of the Interaction between Polybenzimidazole and Phosphoric Acid

A. Majerus<sup>\*</sup>, F. Conti, C. Korte, W. Lehnert, D. Stolten

*ECS Transaction*, 2012, 50(2), 1155-1165.

► Raman study of the interactions polybenzimidazole – phosphoric acid in membranes for fuel cells

F. Conti<sup>\*</sup>, A. Majerus, V. Di Noto, C. Korte, W. Lehnert, D. Stolten

*Phys. Chem. Chem. Phys.*, 2012, 14, 10022-10026.

► Time-resolved ESR investigation on energy transfer processes in Nafion photochemistry

F. Conti<sup>\*</sup>, E. Negro, V. Di Noto, G. Elger, T. Berthold, S. Weber

*Int. J. Hydrogen Energy*, 2012, 37, 6317-6325.

► Broadband Electric Spectroscopy at High CO<sub>2</sub> Pressure: Dipole Moment of CO<sub>2</sub> and Relaxation Phenomena of the CO<sub>2</sub>-Poly(vinyl chloride) System.

V. Di Noto<sup>\*</sup>, K. Vezzù, F. Conti, G. A. Giffin, S. Lavina, A. Bertuccio

*J. Phys. Chem. B*, 2011, 115, 9014-9021.

► Effect of High Pressure CO<sub>2</sub> on the Structure of PMMA: A FT-IR Study

V. Di Noto<sup>\*</sup>, K. Vezzù, G. A. Giffin, F. Conti, A. Bertuccio

*J. Phys. Chem. B*, 2011, 115, 13519-13525

► Time-resolved EPR investigation of oxygen and temperature effects on synthetic eumelanin

F. Conti\*, L. Panzella, A. Napolitano, M. D'Ischia, A. Toffoletti  
*Spectroscopy*, 2010, 24, 289-295.

► First time-resolved EPR observation of Nafion photochemistry

F. Conti\*, E. Negro, V. Di Noto  
*Chem. Commun.*, 2009, 45, 7006-7008.

► Hybrid inorganic-organic proton conducting membranes based on Nafion and 5 wt% of MxOy (M = Ti, Zr, Hf, Ta and W). Part II: Relaxation phenomena and conductivity mechanism.

V. Di Noto\*, S. Lavina, E. Negro, M. Vittadello, F. Conti, M. Piga, G. Pace  
*J. Power Sources*, 2009, 187, 57-66.

► Investigation of Water Structure in Nafion Membranes by Infrared Spectroscopy and Molecular Dynamics Simulation.

D. W. M. Hofman, L. Kuleshova, B. D'Aguanno, V. Di Noto\*, E. Negro, F. Conti, M. Vittadello

*J. Phys. Chem. B*, 2009, 113, 632-639.

► Time-resolved EPR investigation of [70]fulleropyrrolidine nitroxide isomers

F. Conti\*, C. Corvaja, F. Busolo, G. Zordan, M. Maggini, S. Weber  
*Phys. Chem. Chem. Phys.*, 2009, 11, 495-502

► Time-resolved EPR observation of synthetic eumelanin-superoxide radical pairs

A. Toffoletti\*, F. Conti, T. Sandron, A. Napolitano, L. Panzella, M. D'Ischia  
*Chem. Commun.* 2009, 4977-4979.

► Spin-labeled fulleropyrrolidines

C. Corvaja, F. Conti, L. Franco, M. Maggini\*  
*Comptes Rendus Chimie*, 2006, 9, 909-915.

► Magnetic resonance studies and molecular orbital calculations on the doublet and triplet states of bacteriopurpurin: a potential second-generation photosensitizer for photodynamic therapy

C. W. M. Kay\*, F. Conti, M. Fuhs, M. Plato, S. Weber, E. Bordignon, D. Carbonera, B. C. Robinson, M. W. Renner, J. Fajer\*  
*J. Phys. Chem. B*, 2002, 106, 2769-2778.

► A fulleropyrrolidine binitroxide: synthesis, EPR and electrochemical features

F. Conti, C. Corvaja, M. Maggini, G. Scorrano, P. Ceroni, F. Paolucci, S. Roffia  
*Phys. Chem. Chem. Phys.*, 2001, 3, 3518-3525.

► Time-resolved EPR investigation of intramolecular photoinduced electron transfer in spin-labeled fullerene/ferrocene dyads .

F. Conti, C. Corvaja\*, C. Gattazzo, A. Toffoletti, P. Bergo, M. Maggini, G. Scorrano, M. Prato

*Phys. Chem. Chem. Phys.*, 2001, 3, 3526-3531.

► EPR studies on a bi-nitroxide fullerene derivative in the ground triplet and first photoexcited quintet state

F. Conti, C. Corvaja, A. Toffoletti, N. Mizuochi, Y. Ohba, S. Yamauchi, M. Maggini

*J. Phys. Chem. A: molecules, spectroscopy, kinetics, environment, general theory* 2000, 104, 4962-4967.

► Tempo-C61. An Unusual Example of Fulleroid to Methanofullerene Conversion

P. Ceroni, F. Conti, C. Corvaja\*, M. Maggini, F. Paolucci, S. Roffia\*, G. Scorrano, A. Toffoletti

*J. Phys. Chem. A: molecules, spectroscopy, kinetics, environment, general theory*, 2000, 104, 156-163.

► The sign of the exchange interaction between triplet excited fullerene and nitroxide free radicals M. Mazzoni, F. Conti, C. Corvaja

*Appl. Magn. Resonance*, 2000, 18, 351-361.

► Paramagnetic C60 derivatives with one and more unpaired electrons: Spin polarization and photoelectron transfer.

C. Corvaja, A. Toffoletti, F. Conti

*Riken Review* 1999, 24, 28-30.

► Spin Polarization and photoinduced electron transfer between ferrocene and fullerene derivatives containing a nitroxide group

F. Conti, C. Corvaja\*, M. Maggini, F. Piu, G. Scorrano, A. Toffoletti

*Appl. Magn. Resonance*, 1997, 13, 337-346.

► Synthesis and EPR Studies of Radicals and Biradical Anions of C60 Nitroxide Derivatives

F. Arena, F. Bullo, F. Conti, C. Corvaja\*, M. Maggini\*, R. Prato, G. Scorrano

*J. Am. Chem. Soc.*, 1997, 119, 789-795.

► EPR and ENDOR of perfluoroalkyl radical intermediates in the reaction between perfluorohypofluorites and perfluoroalkenes

F. Conti, C. Corvaja\*, F. Cremonese, W. Navarrini, V. Tortelli

*J. Chem. Soc. Faraday Trans.*, 1995, 91, 3813-3820.

► Sterically hindered diphosphines  $(\text{Ph}_2\text{P})_2\text{C}=\text{CHR}$  (R=Me or Ph) and their derivatives

J. L. Bookham\*, F. Conti, C. H. McFarlane, W. McFarlane\*., M. Thorntonpett  
*J. Chem. Soc. Dalton Trans.*, 1994, 12, 1791-1797.

## Publication of book

► La banda dei chimici

F. Conti Elger, B. Fresch,  
*CLEUP Editor*, Padova, 2011, 1-86. ISBN: 9788861297036