

## CURRICULUM VITAE

### PERSONAL INFORMATION

<b>First name and surname:</b>	<b>Vito Cristino</b>
<b>Place and date of birth:</b>	Foggia 06/07/1981
<b>Nationality:</b>	Italian
<b>Address:</b>	Via Borgo dei Leoni, 88 44121 Ferrara (Fe)
<b>University Address</b>	Via Luigi Borsari, 46 44121 Ferrara (Fe)
<b>Telephone mobile:</b>	
<b>e-mail:</b>	<a href="mailto:crsvti@unife.it">crsvti@unife.it</a>

### POSITION

Dates	September 2014 – today
Position held	Post Doctoral Fellow
Activities	<i>Sintesi e caratterizzazione di materiali semiconduttori nanostrutturati-Studio dei processi fotofisici inter-componenti su fotoelettrodi funzionalizzati</i>
Name and address of employer	University of Ferrara, Chemistry Department, Ferrara Italy
Customer and funder of research	ISOF-CNR
Dates	April 2011 – April 2014
Position held	Post Doctoral Fellow
Activities	<i>Elettrodi per la scissione fotoelettrochimica di H<sub>2</sub>O basati su ossido tungstico</i>
Name and address of employer	University of Ferrara, Chemistry Department, Ferrara Italy
Customer and funder of research	Istituto Donegani –ENI-
Dates	January 2008 – March 2011
Position held	Ph.D Student
Activities	<i>Attività di ricerca su fotoelettrodi per la scissione elettrochimica di H<sub>2</sub>O basati su ossido tungstico</i>
Name and address of employer	University of Ferrara, Chemistry Department, Ferrara Italy
Customer and funder of research	Istituto Donegani –ENI-

Dates	September 2010 – December 2010
Position held	Ph.D Student
Activities	<i>Coating di impianti dentali e impianti ossei con nanomateriali a base di biossido di titanio e fosfati di calcio e di nanotubi di biossido di titanio</i>
Name and address of employer	University of Ferrara, Chemistry Department, Ferrara Italy
Customer and funder of research	Dental Tech
Dates	April 2010 – May 2010
Position held	Teacher for the “Scientific degrees project” by the italian Ministry of Education
Activities	<i>Corso sperimentale di laboratorio di chimica per gli studenti delle Scuole Superiori</i>
Name and address of employer	University of Ferrara, Chemistry Department, Ferrara Italy
Customer and funder of research	Ministero dell’Istruzione
Dates	September 2007 – December 2007
Position held	Graduate Student
Activities	<i>Studio e sperimentazione di tecniche per la produzione fotoelettrochimica di idrogeno</i>
Name and address of employer	University of Ferrara, Chemistry Department, Ferrara Italy
Customer and funder of research	Istituto Donegani –ENI-

## EDUCATION

Date and structure	2008 – 2010	University of Ferrara	Ferrara
Title of qualification	<b>Ph.D in Chemical Science</b>		
Curriculum	Photochemistry and Photocatalysis		
Title	“Photoelectrochemical hydrogen production from aqueous solution employing nanostructured semiconductors”		
Vote	Excellent		
Tutor	Prof. Carlo Alberto Bignozzi		
Co-tutor	Dr. Stefano Caramori		
Prize	Best Thesis in Chemical Science		
Date and structure	2000–2007	University of Ferrara	Ferrara
Title of qualification	<b>Master Degree in Chemistry</b>		
Title	“Studio di nanomateriali a base di semiconduttori ad ampio band-gap per la produzione di idrogeno”		

Vote	98/110		
Tutor	Prof. Carlo Alberto Bignozzi		
Co-tutor	Dr. Stefano Caramori		
Date and structure	1995–2000	Istituto Tecnico Industriale	Foggia
Title of qualification	<b>Perito chimico</b>		
Vote	Vote: 86/100		

## WORK EXPERIENCE

Preparative Chemistry	Organic and Inorganic synthesis. Chemistry of coordination compounds. Production of nanostructured semiconductors by Sol-Gel methods (TiO <sub>2</sub> SnO <sub>2</sub> ZrO <sub>2</sub> WO <sub>3</sub> Fe <sub>2</sub> O <sub>3</sub> ). Preparation of nanoparticles and quantum-dots for oxygen evolving catalysts. Electrodeposition and anodization of valve metals.
Steady state and time resolved optical spectroscopy	UV-VIS Emission and absorption.
Electrochemical techniques	Potential sweep and potential step techniques Impedance spectroscopy

## PUBLICATIONS AND PATENTS

AUTHORS	<b>Stefano Caramori, Vito Cristino, Roberto Argazzi, Laura Meda, and Carlo A. Bignozzi</b>		
TITLE	Photoelectrochemical Behavior of Sensitized TiO <sub>2</sub> Photoanodes in an Aqueous Environment: Application to Hydrogen Production.		
JOURNAL	<b>Inorganic Chemistry</b>		
VOLUME	Vol. 49, No. 7, 3320–3328, 2010	DOI: 10.1021/ic9023037	
AUTHORS	<b>Stefano Caramori, Vito Cristino, Rita Boaretto, Roberto Argazzi, Carlo Alberto Bignozzi and Aldo Di Di Carlo</b>		
TITLE	New components for dye-sensitized solar cells		
JOURNAL	<b>International Journal of Photoenergy</b>		
VOLUME	2010	DOI:10.1155/2010/458614	
AUTHORS	<b>Laura Meda, Gabriella Tozzola, Alessandra Tacca, Gianluigi Marra, Stefano Caramori, Vito Cristino, Carlo Alberto Bignozzi</b>		
TITLE	Photo-electrochemical properties of nanostructured WO <sub>3</sub> prepared with different organic dispersing agents		
JOURNAL	<b>Solar Energy Materials &amp; Solar Cells</b>		
VOLUME	Vol.94 (2010) 788–796	DOI:10.1016/j.solmat.2009.12.025	

AUTHORS	<b>Stefano Caramori, Vito Cristino, Laura Meda, Roberto Argazzi, Carlo Alberto Bignozzi</b>
TITLE	Hydrogen Production with Nanostructured and Sensitized Metal Oxides
JOURNAL	<b>Topics in current chemistry</b>
VOLUME	Vol. (2011) 303: 39-94 DOI: 10.1007/128_2011_137
AUTHORS	<b>Vito Cristino, Stefano Caramori, Roberto Argazzi, Laura Meda, Gian Luigi Marra, Carlo Alberto Bignozzi</b>
TITLE	Efficient Photoelectrochemical Water Splitting by Anodically Grown WO <sub>3</sub> Electrodes
JOURNAL	<b>Langmuir</b>
VOLUME	Vol (27) 2011, 7276–7284 DOI: 10.1021/la200595x
AUTHORS	<b>S. Caramori, V. Cristino, L.Meda, A. Tacca, R. Argazzi, C.A. Bignozzi</b>
TITLE	Efficient Anodically Grown WO <sub>3</sub> for Photoelectrochemical Water Splitting
JOURNAL	<b>Energy Procedia</b>
VOLUME	Vol. 22, 2012, 127–136
AUTHORS	<b>Carlo Alberto Bignozzi, Stefano Caramori, Vito Cristino, Roberto Argazzi, Laura Meda and Alessandra Tacca</b>
TITLE	Nanostructured photoelectrodes based on WO <sub>3</sub> : applications to photooxidation of aqueous electrolytes
JOURNAL	<b>Chemical Society Reviews</b>
VOLUME	Vol 42, 2228-2246 2013 DOI: 10.1039/c2cs35373c
AUTHORS	<b>Vito Cristino, Serena Berardi, Stefano Caramori, Roberto Argazzi, Stefano Carli, Laura Meda, Alessandra Tacca and Carlo Alberto Bignozzi</b>
TITLE	Efficient solar water oxidation using photovoltaic devices functionalized with earth-abundant oxygen evolving catalysts
JOURNAL	<b>Phys. Chem. Chem. Phys.</b>
VOLUME	Vol. 15, 13083 2013 DOI: 10.1039/c3cp52237g
AUTHORS	<b>Nicola Dalle Carbonare, Dr. Vito Cristino, Dr. Serena Berardi, Dr. Stefano Carli, Dr. Roberto Argazzi, Dr. Stefano Caramori, Dr. Laura Meda, Dr. Alessandra Tacca and Prof. Carlo Alberto Bignozzi</b>
TITLE	Hematite Photoanodes Modified with an Fe <sup>III</sup> Water Oxidation catalyst
JOURNAL	<b>Chem Phys Chem</b>
VOLUME	Volume 15, Issue 6, pages 1164–1174, 2014 DOI: 10.1002/cphc.201301143
AUTHORS	<b>Federico Ronconi, Zois Syrgiannis, Aurelio Bonasera, Maurizio Prato, Roberto Argazzi, Stefano Caramori, Vito Cristino, and Carlo Alberto Bignozzi</b>
TITLE	Modification of Nanocrystalline WO <sub>3</sub> with a Dicationic Perylene Bisimide: Applications to Molecular Level Solar Water Splitting
JOURNAL	<b>J. Am. Chem. Soc.</b>
VOLUME	Volume 137, Issue 14, pages 4630–4633, 2015 DOI: 10.1021/jacs.5b01519
AUTHORS	<b>Laura Meda, Alessandra Tacca, Carlo Alberto Bignozzi, Stefano Caramori, Vito Cristino</b>
TITLE	Modified Tungsten oxide and process for this preparation
PATENT NUMBER	<b>Patent</b> WO 2011/012238 A1

AUTHORS	<b>Laura Meda, Alessandra Tacca, Carlo Alberto Bignozzi, Stefano Caramori, Vito Cristino</b>
TITLE	Cella fotoelettrochimica tandem per la foto-ossidazione di solfuri con produzione di idrogeno
PATENT NUMBER	<b>Patent</b> CI/135940
AUTHORS	<b>Vito Cristino, Carlo Alberto Bignozzi, Francesco Carinci, Graziano Cavallet, Gabriele Cavallet, Franco Ferrari</b>
TITLE	Dental implant with nanostructured surface and process for obtaining it
PATENT NUMBER	<b>Patent</b> EP 2 495 356 A1

### STAGE AND CONFERENCE

Name location and date	<b>4° Corso Nazionale di Introduzione alla Fotochimica</b> , Bologna, 3-7 September 2007.
Name location and date	<b>2° International School on Organic Photovoltaics</b> , Ventotene (LT), 22-26 October 2008.
Name location and date	<b>XXIII IUPAC Symposium on Photochemistry</b> , Ferrara 11-16 July 2010
Communication type	<b>Poster</b>
Name location and date	<b>10° S.A.Y.C.S.</b> , Pesaro 10-20 October 2010
Communication type	<b>Oral communication</b>
Name location and date	<b>X Giornata della Chimica dell'Emilia Romagna</b> , Parma 26 November 2010
Communication type	<b>Poster</b>
Name location and date	<b>E-MRS 2011 Spring Meeting</b> , Nice (France), 9-13 May 2011
Communication type	<b>Poster</b>
Name location and date	<b>Total Scattering for Nanotechnology on the Como Lake</b> Como 25-28 May 2015

***Il sottoscritto acconsente, ai sensi del D.Lgs.30/06/2003 n.196, al trattamento dei propri dati personali***

***Il sottoscritto acconsente alla pubblicazione del presente curriculum vitae sul sito dell'Università di Ferrara***

**Firma**

