

CURRICULUM VITAE

Vito Cristino

POSITION

Dates	March 2016 – December 2016
Position held	Post Doctoral Fellow
Activities	<i>Elettrodi per degradazione fotochimica e fotoelettrochimica di inquinanti emergenti basati su semiconduttori ad ampio band gap</i>
Name and address of employer	University of Ferrara, Department of Chemical and Pharmaceutical Sciences, Ferrara Italy
Customer and funder of research	Department of Chemical and Pharmaceutical Sciences
Dates	September 2015 – December 2015
Position held	Post Doctoral Fellow
Activities	<i>Elettrodi per la scissione fotoelettrochimica di H₂O basati su semiconduttori ad ampio band gap</i>
Name and address of employer	University of Ferrara, Chemistry Department, Ferrara Italy
Customer and funder of research	CFR
Dates	September 2014 – August 2015
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 H₂O 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 H₂O 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 – Dicembre 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	Ph.D in Chemical Science		
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	Master Degree in Chemistry		
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	Perito chimico		
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_2 SnO_2 ZrO_2 WO_3 Fe_2O_3 BiVO_4). 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. Fluorescence spectroscopy
Electrochemical techniques	Potential sweep and potential step techniques Impedance spectroscopy

ACADEMIC ACTIVITIES

Position	Tutor
Activity	<i>Laboratorio di Chimica Inorganica</i> <i>Corso laurea in Chimica</i>
Date	March-May 2017
Position	Correlatore
Activity	<i>Master's degree in Chemistry</i>
Title of Thesis	Proprietà fotoelettrochimiche di giunzioni n-n di WO ₃ -BiVO ₄ per water splitting
Date	October-December 2016
Position	Tutor
Activity	<i>Laboratorio di Chimica Generale ed Inorganica</i> <i>Corso laurea in Chimica</i>
Date	October-December 2016
Position	Tutor
Activity	Scientific degrees project <i>Corso sperimentale di laboratorio di Chimica per gli studenti delle Scuole Superiori</i>
Date	April 2016
Position	Tutor
Activity	<i>Laboratorio di Chimica generale ed inorganica</i> <i>Corso laurea in Chimica e tecnologie farmaceutiche</i>
Date	October-December 2015
Position	Tutor
Activity	Scientific degrees project <i>Corso sperimentale di laboratorio di chimica per gli studenti delle Scuole Superiori</i>
Date	April 2015
Position	Correlatore
Activity	Master's Degree in Chemistry
Title of Thesis	<i>Influenza dei cationi sulle dinamiche di separazione di carica a interfacce di ossido tungstico cristallino</i>
Date	March 2014 - December 2014

Position	Tutor
Activity	<i>Laboratorio di Chimica generale ed inorganica - Corso laurea in Biologia</i>
Date	Second Half 2005
Position	Tutor
Activity	Scientific degrees project <i>Corso sperimentale di laboratorio di chimica per gli studenti delle Scuole Superiori</i>
Date	April 2010 – May 2010

PUBLICATIONS AND PATENTS

AUTHORS	Stefano Caramori, Vito Cristino, Roberto Argazzi, Laura Meda, and Carlo A. Bignozzi	
TITLE	Photoelectrochemical Behavior of Sensitized TiO ₂ Photoanodes in an Aqueous Environment: Application to Hydrogen Production.	
JOURNAL	Inorganic Chemistry	
VOLUME	Vol. 49, No. 7, 3320–3328, 2010	DOI: 10.1021/ic9023037
AUTHORS	Stefano Caramori, Vito Cristino, Rita Boaretto, Roberto Argazzi, Carlo Alberto Bignozzi and Aldo Di Di Carlo	
TITLE	New components for dye-sensitized solar cells	
JOURNAL	International Journal of Photoenergy	
VOLUME	2010	DOI:10.1155/2010/458614
AUTHORS	Laura Meda, Gabriella Tozzola, Alessandra Tacca, Gianluigi Marra, Stefano Caramori, Vito Cristino, Carlo Alberto Bignozzi	
TITLE	Photo-electrochemical properties of nanostructured WO ₃ prepared with different organic dispersing agents	
JOURNAL	Solar Energy Materials & Solar Cells	
VOLUME	Vol.94 (2010) 788–796	DOI:10.1016/j.solmat.2009.12.025
AUTHORS	Stefano Caramori, Vito Cristino, Laura Meda, Roberto Argazzi, Carlo Alberto Bignozzi	
TITLE	Hydrogen Production with Nanostructured and Sensitized Metal Oxides	
JOURNAL	Topics in current chemistry	
VOLUME	Vol. (2011) 303: 39-94	DOI: 10.1007/128_2011_137
AUTHORS	Vito Cristino, Stefano Caramori, Roberto Argazzi, Laura Meda, Gian Luigi Marra, Carlo Alberto Bignozzi	
TITLE	Efficient Photoelectrochemical Water Splitting by Anodically Grown WO ₃ Electrodes	
JOURNAL	Langmuir	
VOLUME	Vol (27) 2011, 7276–7284	DOI: 10.1021/la200595x
AUTHORS	S. Caramori, V. Cristino, L.Meda, A. Tacca, R. Argazzi, C.A. Bignozzi	
TITLE	Efficient Anodically Grown WO ₃ for Photoelectrochemical Water Splitting	
JOURNAL	Energy Procedia	
VOLUME	Vol. 22, 2012, 127–136	

AUTHORS	Alessandra Tacca, Laura Meda, Gianluigi Marra, Alberto Savoini, Stefano Caramori, Vito Cristino, Carlo Alberto Bignozzi, Victoria Gonzalez Pedro, Pablo P. Boix, Sixto Gimenez, and Juan Bisquert	
TITLE	Photoanodes Based on Nanostructured WO ₃ for WaterSplitting	
JOURNAL	Chem Phys Chem	
VOLUME	Volume 13, Issue 12, pages 3025–3034, August 27, 2012	
AUTHORS	Carlo Alberto Bignozzi, Stefano Caramori, Vito Cristino, Roberto Argazzi, Laura Meda and Alessandra Tacca	
TITLE	Nanostructured photoelectrodes based on WO ₃ : applications to photooxidation of aqueous electrolytes	
JOURNAL	Chemical Society Reviews	
VOLUME	Vol 42, 2228-2246 2013	DOI: 10.1039/c2cs35373c
AUTHORS	Vito Cristino, Serena Berardi, Stefano Caramori, Roberto Argazzi, Stefano Carli, Laura Meda, Alessandra Tacca and Carlo Alberto Bignozzi	
TITLE	Efficient solar water oxidation using photovoltaic devices functionalized with earth-abundant oxygen evolving catalysts	
JOURNAL	Phys. Chem. Chem. Phys.	
VOLUME	Vol. 15, 13083 2013	DOI: 10.1039/c3cp52237g
AUTHORS	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	
TITLE	Hematite Photoanodes Modified with an Fe ^{III} Water Oxidation catalyst	
JOURNAL	Chem Phys Chem	
VOLUME	Volume 15, Issue 6, pages 1164–1174, 2014	DOI: 10.1002/cphc.201301143
AUTHORS	Federico Ronconi, Zois Syrgiannis, Aurelio Bonasera, Maurizio Prato, Roberto Argazzi, Stefano Caramori, Vito Cristino, and Carlo Alberto Bignozzi	
TITLE	Modification of Nanocrystalline WO ₃ with a Dicationic Perylene Bisimide: Applications to Molecular Level Solar Water Splitting	
JOURNAL	J. Am. Chem. Soc.	
VOLUME	Volume 137, Issue 14, pages 4630–4633, 2015	DOI: 10.1021/jacs.5b01519
AUTHORS	Vito Cristino, Sabrina Marinello, Alessandra Molinari, Stefano Caramori, Stefano Carli, Rita Boaretto, Roberto Argazzi, Laura Meda, and Carlo Alberto Bignozzi	
TITLE	Some Aspects of the Charge Transfer Dynamics in Nanostructured WO ₃ Films	
JOURNAL	Journal of Materials Chemistry A	
VOLUME	2016, Advance Article	DOI: 10.1039/C5TA06887H
AUTHORS	Gelsomina Longobucco, Luisa Pasti, Alessandra Molinari, Nicola Marchetti, Stefano Caramori, Vito Cristino, Rita Boaretto, Carlo Alberto Bignozzi	
TITLE	Photoelectrochemical mineralization of emerging contaminants at porous WO ₃ interfaces	
JOURNAL	Applied Catalysis B: Environmental	
VOLUME	Volume 204 pages: 273-282	DOI: 10.1016/j.apcatb.2016.11.007

AUTHORS	Laura Meda, Alessandra Tacca, Carlo Alberto Bignozzi, Stefano Caramori, Vito Cristino
TITLE	Modified Tungsten oxide and process for this preparation
PATENT NUMBER	Patent WO 2011/012238 A1
AUTHORS	Laura Meda, Alessandra Tacca, Carlo Alberto Bignozzi, Stefano Caramori, Vito Cristino
TITLE	Cella fotoelettrochimica tandem per la foto-ossidazione di solfuri con produzione di idrogeno
PATENT NUMBER	Patent CI/135940
AUTHORS	Vito Cristino, Carlo Alberto Bignozzi, Francesco Carinci, Graziano Cavallet, Gabriele Cavallet, Franco Ferrari
TITLE	Dental implant with nanostructured surface and process for obtaining it
PATENT NUMBER	Patent EP 2 495 356 A1

STAGE AND CONFERENCE

Name location and date	4° Corso Nazionale di Introduzione alla Fotochimica , Bologna, 3-7 September 2007.
Name location and date	2° International School on Organic Photovoltaics , Ventotene (LT), 22-26 October 2008.
Name location and date Communication type	XXIII IUPAC Symposium on Photochemistry , Ferrara 11-16 July 2010 Poster
Name location and date Communication type	10° S.A.Y.C.S. , Pesaro 10-20 October 2010 Oral communication
Name location and date Communication type	X Giornata della Chimica dell'Emilia Romagna , Parma 26 November 2010 Poster
Name location and date Communication type	E-MRS 2011 Spring Meeting , Nice (France), 9-13 May 2011 Poster
Name location and date	INTERNATIONAL WORKSHOP "TOTAL SCATTERING FOR NANOTECHNOLOGY" To.Sca.Lake 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 degli Studi di Ferrara*

Firma

Vito Cristino