



Europass Curriculum Vitae

Personal information

Surname(s) / First name(s) **Basosi, Riccardo**

Address(es)

Telephone(s)

Fax(es)

E-mail Professional: r
Personal: r

Nationality Italian

Date of birth

Gender Male

Actual employment / Occupational field

Senior Professor of Physical Chemistry and Lecturer of Sustainable Energy
At the moment since February 2021 VicePresident of CTS ENEA
& MUR Delegate for Strategic Energy Technology Plan

Work experience

Dates Since September 1994

Occupation or position held **Full Professor of Physical Chemistry (*Senior Professor since Nov. 2017*)**

Main activities and responsibilities Research and Teaching

Name and address of employer University of Siena, Banchi di Sotto n. 55, 53100 Siena
Website: <http://www.unisi.it>

Type of business or sector Public University

Dates	Since 2000 to October 2017
Occupation or position held	Deputy Rector for Energy
Main activities and responsibilities	Public University
Name and address of employer	University of Siena, Banchi di Sotto n. 55, 53100 Siena Website: http://www.unisi.it
Type of business or sector	Rector Delegate and Coordinator for all the energy/environmental activities
Dates	From 2005 to 2012
Occupation or position held	Professor of Applied Thermodynamics to Rational and Efficient use of Energy
Main activities and responsibilities	University of Siena, Banchi di Sotto n. 55, 53100 Siena Website: http://www.unisi.it
Name and address of employer	Public University
Type of business or sector	Teaching
Dates	Since 2013
Occupation or position held	Professor of Sustainable and Efficient Energy - Chemistry
Main activities and responsibilities	University of Siena, Banchi di Sotto n. 55, 53100 Siena Website: http://www.unisi.it
Name and address of employer	Public University
Type of business or sector	Teaching
Dates	From 2009 to 2013
Occupation or position held	Director PhD School in Chemical Sciences – Research Doctorate in Chemical and Pharmaceutical Sciences
Main activities and responsibilities	Chairing the School/ PhD Program
Name and address of employer	University of Siena, Banchi di Sotto n. 55, 53100 Siena Website: http://www.unisi.it
Type of business or sector	Public University
Dates	Since 2008
Occupation or position held	Member of the Board and Member of the Scientific Committee
Name and address of employer	CET (Società Consortile Energia Toscana) Via Vincenzo Bellini – 50144 Firenze
Type of business or sector	Public Consortium
Dates	Since 2005
Occupation or position held	Coordinator of module “ Energy Planning and Management ” and Lecturer of Master “RIDEF: Energy for Kyoto”
Main activities and responsibilities	Selection, organization of lectures and teaching
Name and address of employer	Dipartimento di Energia – Politecnico di Milano

Type of business or sector	P.za L. da Vinci, 32 – 20133 Milano Politecnico
Dates	Since 2012
Occupation or position held	President of Tecno/Scientific Committee
Main activities and responsibilities	Consultant and coordination of research activities
Name and address of employer	CREA (Centro Ricerca Energia e Ambiente) V.le G. Matteotti, 14, 53034 Colle Val d'Elsa (SI)
Type of business or sector	Research Center
Dates	Since 2012
Occupation or position held	EGE (expert in energy management for civil and industrial use)
Main activities and responsibilities	Consultant in Energy Management
Name and address of employer	Professional activity
Type of business or sector	Energy Management
Dates	From 2008 to 2012
Occupation or position held	Member of Tecno/Scientific Committee
Main activities and responsibilities	Consultant and coordination of research activities
Name and address of employer	CREA (Centro Ricerca Energia e Ambiente) V.le G. Matteotti, 14, 53034 Colle Val d'Elsa (SI)
Type of business or sector	Research Center
Dates	From 2000 to 2012
Occupation or position held	Co-founder and member of Direction
Main activities and responsibilities	Coordination of Teaching activities
Name and address of employer	Centro Studi Sistemi Complessi (CSC), Università degli Studi di Siena, Via T. Pendola, 53100 Siena
Type of business or sector	Research Dissemination
Dates	2010
Occupation or position held	President of National Committee for European Certification System in Energy Management (SECEM)
Main activities and responsibilities	Preparation of exams test; examiner
Name and address of employer	Italian Federation for rationale use of energy

Type of business or sector	FIRE-SECEM Via Flaminia 441, 00196, Roma
Dates	2010-2012
Occupation or position held	Scientific Supervisor of Energy Plan of Province of Siena
Main activities and responsibilities	Coordinator of work of researchers and experts in energy-environmental issues
Name and address of employer	Amministrazione Provinciale di Siena Via del Capitano n. 14 - Siena
Type of business or sector	Public Body
Dates	2010-2011
Occupation or position held	Scientific Responsible and Supervisor of Energy Plan of Province of Lucca
Main activities and responsibilities	Coordination of work of research and experts in energy-environmental issues
Name and address of employer	ALERR Foundation Via dello Scatena, 4, 55012 S. Margherita Capannoni (LU)
Type of business or sector	Agenzia Lucchese Energia Recupero Risorse
Dates	2009 - 2010
Occupation or position held	Scientific Responsible and Supervisor of Pyrolysis Project
Main activities and responsibilities	Coordination of work of researchers and experts in energy-environmental issues
Name and address of employer	Polo Universitario di Colle Val d'Elsa V.le G. Matteotti, 14, 53034 Colle Val d'Elsa (SI)
Type of business or sector	University
Dates	2009
Occupation or position held	Scientific Coordinator and Lecturer of a Course “Innovative Instruments of energy planning for local administrations”
Main activities and responsibilities	Organization of topics, lectures and teaching
Name and address of employer	FORMEZ – Centro di Formazione studi, V.le Marx n. 15 – 00137 Roma
Type of business or sector	Dipartimento della Funzione Pubblica della Presidenza del Consiglio dei Ministri
Dates	2009
Occupation or position held	Scientific Responsible and Supervisor of Energy Plan “Development of two projects included in the Provincial Energy Plan for Biodiesel Path and biomass energy recovery - techno-economic business plan for Nuova Rivart
Main activities and responsibilities	Coordination of work of research and experts in energy-environmental issues
Name and address of employer	Amministrazione Provinciale di Siena P.za Duomo, 53100 Siena
Type of business or sector	Public Institution

Dates	2007-2008
Occupation or position held	Scientific Responsible and Supervisor of Energy Plan of Province of Firenze
Main activities and responsibilities	Coordination of work of researchers and experts in energy-environmental issues
Name and address of employer	Agenzia Fiorentina per l'Energia P.za della Stazione n. 1 - Firenze
Type of business or sector	Provincia di Firenze
Dates	2006-2007
Occupation or position held	Scientific responsible of research on analysis of Energy uses in the sector of transport and of the emissions from combustion in the area of Comune di Firenze, in the frame of the Energy/Environmental Plan of Firenze Municipality
Main activities and responsibilities	Coordination of work of research and experts in energy-environmental issues
Name and address of employer	Dipartimento di Energetica "Stecco" Università di Firenze, Via S. Marta n. 3 , Firenze
Type of business or sector	Public University
Dates	2006-2009
Occupation or position held	Lecturer in the University Master " Water and disposal sectors planning, management and control"
Main activities and responsibilities	Teaching
Name and address of employer	Facoltà di Economia, Università degli Studi di Siena, P.za S. Francesco, 53100 Siena
Type of business or sector	Public University
Dates	2006-2009
Occupation or position held	Lecturer in the II Level University Master "Planning and management of systems for renewable energy"
Main activities and responsibilities	Teaching
Name and address of employer	Dipartimento di Sistemi Elettrici e Automazione, Università degli Studi di Pisa, Via Diotisalvi, 2, 56122 Pisa
Type of business or sector	Public University
Dates	2005-2008
Occupation or position held	Lecturer of Energy Planning in the II Level University Master "Bioecological architecture and technological Innovation for environment"
Main activities and responsibilities	Teaching
Name and address of employer	Centro Interuniversitario di ricerca per l'Architettura Bioecologica e l'Innovazione Tecnologica per l'Ambiente – ABITA- via S. Niccolò 89/a, 50125 Firenze
Type of business or sector	Interuniversity center

Dates	2004-2005
Occupation or position held	Scientific Responsible and Supervisor of Energy Plan Province of Arezzo
Main activities and responsibilities	Coordination of work of research and experts in energy-environmental issues
Name and address of employer	CET
Type of business or sector	University
Dates	Academic Year 2002/03; 2003/04; 2004/05
Occupation or position held	Director and lecturer FSE Course “Energy Manager: Rationale and Efficient Use of energy
Main activities and responsibilities	Selection and organization of issues for lectures; responsibility for management of funds (RT and FSE)
Name and address of employer	Dipartimento di Chimica, Via A. De Gasperi, 2, Siena
Type of business or sector	Università degli Studi di Siena
Dates	Academic Year 2001/02; 2002/03; 2003/04
Occupation or position held	Co-Director and Lecturer of Master “ Expert in Rationale and Efficient use of ’Energy”, Lucca
Main activities and responsibilities	Selection and organization of issues for lectures; responsibility for management of funds (RT and FSE)
Name and address of employer	Associazione CAMPUS, Via del Seminario I, 790 55100 Monte San Quirico (LU)
Type of business or sector	Academic Year Selection and organization of issues for lectures; responsibility for management of funds (RT and FSE)
Dates	1999/2000-2000/01
Occupation or position held	Scientific Responsible and Supervisor of Energy Plan of Province of Siena
Main activities and responsibilities	Coordinatore del lavoro di ricercatori e tecnici esperti nei campi energetico-ambientali
Name and address of employer	Amministrazione Provinciale di Siena Via del Capitano n. 14 - Siena
Type of business or sector	Ente Pubblico
Dates	1999-2000
Occupation or position held	Scientific Responsible and Supervisor of Energy/Environmental Plan of the Thermal Springs International Park of Province of Siena
Main activities and responsibilities	Coordination of work of research and experts in energy-environmental issues
Name and address of employer	Consorzio Terme Antica Querciolaia Via Trieste n. 2, 53040 Rapolano Terme (SI)
Type of business or sector	Regional Consortium
Dates	1996-2000
Occupation or position held	Scientific Responsible and Supervisor of Energy Plan of Tuscany Region

Main activities and responsibilities	Supervising and Organizing the work of Researchers of University of Siena, Firenze, Pisa e ENEA for Plan Setting
Name and address of employer	CESVIT – Centro per lo Sviluppo dell'alta Tecnologia S.p.A. Via Pian dei Carpini, 28, Firenze
Type of business or sector	Private/public society for Energy planning and technological innovation
Dates	1996-1999
Occupation or position held	President of Scientific Committee and executive Vice President of Supervisory Board
Main activities and responsibilities	Elaboration of Energy planning and Strategies
Name and address of employer	R.E.A. (Regional Energy Agency) Via Pian dei Carpini, 28 - Firenze
Type of business or sector	Regional Energy Agency
Dates	1995-1999
Occupation or position held	Consultant
Main activities and responsibilities	Elaboration of Energy planning and Strategies
Name and address of employer	CESVIT – Centro per lo Sviluppo dell'alta Tecnologia S.p.A. Via Pian dei Carpini, 28, Firenze
Type of business or sector	<i>Private/public society for Energy planning and technological innovation</i>
Dates	From 1991 to 2004
Occupation or position held	Professor of Technology and Economy of Energy Sources
Main activities and responsibilities	Lecturer
Name and address of employer	Università degli Studi di Siena, Banchi di Sotto n. 55, 53100 Siena Website: http://www.unisi.it
Type of business or sector	Public University
Dates	From 1982 to 1990
Occupation or position held	Visiting Professor of Molecular Biophysics
Main activities and responsibilities	Research and teaching
Name and address of employer	Medical College of Wisconsin, National biomedical ESR Center, 8701 Watertown Plank Road, Milwaukee, WI 53226- USA
Type of business or sector	Public University
Dates	1980-1994
Occupation or position held	Associate Professor of Physical Chemistry
Main activities and responsibilities	Research and teaching
Name and address of employer	Università degli Studi di Siena Banchi di Sotto, 55 – 53100 Siena
Type of business or sector	Public University
Dates	1976-1980
Occupation or position held	Lecturer of Physical Chemistry
Main activities and responsibilities	Research and teaching

Name and address of employer	Università degli Studi di Siena Banchi di Sotto, 55 – 53100 Siena
Type of business or sector	Public University
Dates	1974-1976
Occupation or position held	Contract Researcher
Main activities and responsibilities	Research
Name and address of employer	Università degli Studi di Firenze P.zza S.Marco, 4 - 50121 Firenze
Type of business or sector	Public University
Dates	Since October 1991
Occupation or position held	Lecturer of Technology and Economy of Energy Sources
Main activities and responsibilities	Research and Teaching
Name and address of employer	University of Siena, Via Banchi di Sopra, 53100 Siena, Italy, website: http://www.unisi.it
Type of business or sector	Public University
Dates	From 2000 to 2012
Occupation or position held	Co- founder and Member
Main activities and responsibilities	Research
Name and address of employer	CSC (Center for Complex Systems Studies), Via T. Pendola, 53100 Siena, Italy
Type of business or sector	Research
Dates	From 1982 to 1987
Occupation or position held	Visiting Professor of Molecular Biophysics
Main activities and responsibilities	Research and Teaching
Name and address of employer	Medical College of Wisconsin, USA
Type of business or sector	Public University
Education and training	
Dates	September 1974
Title of qualification awarded	Specialization in Physical Chemistry
Level in national or international classification	PhD
Principal subjects/occupational skills covered	Physical Chemistry
Name and type of organisation providing education and training	University of Siena
Dates	20/07/1970
Title of qualification awarded	Laurea Magistralis in Chemistry
Principal subjects/occupational skills covered	Physical and Inorganic Chemistry / Environmental Physical Chemistry and Energy
Name and type of organisation providing education and training	University of Firenze

Level in national or international classification
 Dates
 Title of qualification awarded
 Name and type of organisation providing education and training

Master Degree
 1960-1965
Diploma di Maturità Classica
 Liceo Classico “Dante Alighieri”, Firenze

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s)

Self-assessment
 European level (*)

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C 2	Proficient user	C 2	Proficient user	C 2	Proficient user	C 2	Proficient user	C 2	Proficient user

(*) *Common European Framework of Reference for Languages*

INSTITUTIONAL APPOINTMENTS

ON GOING

- NATIONAL PERMANENT REPRESENTATIVE IN HORIZON 2020 PROGRAM COMMITTEE FOR CONFIGURATION SC3 "SECURE, CLEAN AND EFFICIENT ENERGY" APPOINTED BY MINISTER MIUR, SINCE JULY 2013 UNTIL DEC 31 2021**
- **NATIONAL MIUR DELEGATE FOR SET PLAN UE (STRATEGIC ENERGY TECHNOLOGY PLAN) APPOINTED BY MINISTER MIUR, SINCE JULY 2013 UNTIL TODAY**
- **NATIONAL MIUR DELEGATE IN MISSION INNOVATION INTERMINISTERIAL TASK FORCE (COORDINATED BY MISE) APPOINTED BY MINISTER MIUR, SINCE FEBRUARY 2017 UNTIL TODAY**
- **NATIONAL EXPERT EGRD (EXPERTS' GROUP ON R&D PRIORITY SETTING) FOR IEA/OCSE WITH DECREE MISE OF OCTOBER 2016 UNTIL TODAY**
- **EXPERT IN ENERGY FOR MINISTER MIUR AT G7 SCIENCE (BERLIN, OCTOBER 2015, KYOTO, APRIL 2016 AND BOLOGNA/TORINO, SEPTEMBER 2017).**
- **MEMBER OF CTS (CONSIGLIO TECNICO/SCIENTIFICO) OF ENEA SINCE OCTOBER 2017 UNTIL TODAY**
- **SENIOR PROFESSOR IN PHYSICAL CHEMISTRY AND ENERGY AT UNIVERSITY OF SIENA SINCE NOV 2017 UNTIL TODAY**
- **DEPUTY RECTOR FOR ENERGY UNIVERSITY OF SIENA SINCE 1994 (APPOINTED BY 5 DIFFERENT RECTORS) UNTIL OCT 31, 2019**
- **CORRISPONDANT ACADEMIC OF SCIENCES ACADEMY OF INSTITUT OF UNIVERSITÀ DI BOLOGNA SINCE JULY 2018**

IN RECENT Past

- **SENIOR ASSOCIATED ISC CNR SINCE 2016 RE-CONFIRMED JAN 1, 2020**
- **SENIOR ASSOCIATED ICCOM CNR SINCE 2017 RE-CONFIRMED JAN 1, 2020**
- **MEMBRO DEL TAVOLO TECNICO DELLA PRESIDENZA DEL CONSIGLIO DEI MINISTRI SULLA "DE-CARBONIZZAZIONE DELL'ECONOMIA ITALIANA " 2015-2017**
- **CONSIGLIERE SCIENTIFICO DELLA PRESIDENZA DEL CONSIGLIO DEI MINISTRI, 2007-2008**
- PRESIDENTE DEL COLLEGIO DEI DIRETTORI DI DIPARTIMENTO DELL'UNIVERSITÀ DI SIENA, 2003-2008 (ELETTO DUE VOLTE)
- DIRETTORE DEL DIPARTIMENTO DI CHIMICA DELL'UNIVERSITÀ DEGLI STUDI DI SIENA, 2002-2008 (ELETTO DUE VOLTE)
- DIRETTORE DEL DOTTORATO DI RICERCA IN CHIMICA (2009-2013)
- PRESIDENTE DEL COMITATO PER LA DIDATTICA DEL CORSO DI LAUREA SPECIALISTICO IN CHIMICA PER LO SVILUPPO SOSTENIBILE 2009-2010
- VICE PRESIDENTE VICARIO DEL CONSIGLIO COMUNALE DI FIRENZE DAL 1999 AL 2004
- PRESIDENTE ELETTO DEL COMITATO SCIENTIFICO DI LEGAMBIENTE TOSCANA DAL 1985 AL 1999
- DELEGATO NAZIONALE COST P15 ACTION DAL 2005-2009

Awards and Prizes

2014 GOLD MEDAL E. TIEZZI RECEIVED FROM THE ITALIAN CHEMICAL SOCIETY (SCI) FOR SIGNIFICANT ACHIEVEMENTS IN THE FIELDS OF ENERGY AND ENVIRONMENT

2014 ENERGY GLOBE AWARD FROM AUSTRIAN GOVERNMENT FOR THE PATENT OF A OFF-GRID MODULE

"GRANDPARENT" OF THE SECEM (EUROPEAN CERTIFICATION SYSTEM IN ENERGY MANAGEMENT) 2010

Organizational/social skills and competences

ITALIAN PERMANENT REPRESENTATIVE FOR ENERGY IN HORIZON 2020 SINCE JULY 2013 AND SET PLAN DELEGATE

SCIENTIFIC ADVISOR OF ITALIAN PRESIDENCY OF MINISTER COUNCIL, 2007-2008

PRESIDENT OF THE BOARD OF DEPARTMENT DIRECTORS OF UNIVERSITY OF SIENA, 2003-2008 (ELECTED TWICE)

DIRECTOR OF CHEMISTRY DEPARTMENT OF UNIVERSITY OF SIENA, 2002-2008 (ELECTED TWICE)

LEADER OF RESEARCH GROUPS AT NATIONAL AND INTERNATIONAL LEVEL IN THE FIELD OF PHYSICAL CHEMISTRY AND ENERGY FOR PROJECTS FINANCED BY

NATIONAL INSTITUTIONS (CNR, MURST, ENEA, MIUR ETC.) SINCE 1980 AND BY EU SINCE 2004

LEADER AND COORDINATOR OF RESEARCH GROUP FOR ENERGY PLANS AT BOTH REGIONAL AND TERRITORIAL SCALE

ACTIVE SINCE 1978 IN NATIONAL MOVEMENTS FOR ENVIRONMENTAL PROTECTION AND CO-FOUNDER OF LEGAMBIENTE

VICE PRESIDENT OF MUNICIPAL COUNCIL DI FIRENZE DAL 1999 AL 2004

PRESIDENT ELECTED OF THE SCIENTIFIC COMMITTEE OF TUSCANY LEGAMBIENTE FROM 1985 TO 1999

NATIONAL DELEGATE FOR COST P15 ACTION 2005-2009

LIST OF RECENT EXPERIENCES OF COORDINATION AND MANAGEMENT OF PROJECTS AND PEOPLE :

SCIENTIFIC RESPONSIBLE OF THE OPERATIVE UNIT OF THE DEP. OF BIOTECH. CHEMICAL AND PHARMACEUTICAL SCIENCE, UNIVERSITY OF SIENA, IN THE PROJECT **“System of advanced multilayer elements based on surfaces and innovative nanostructured materials for a sustainable and energetically efficient building”** SELFIE – financed in the frame FAR-FAS 2014

SCIENTIFIC RESPONSIBLE OF THE OPERATIVE UNIT OF THE DEP. OF BIOTECH. CHEMICAL AND PHARMACEUTICAL SCIENCE, UNIVERSITY OF SIENA, IN THE PROJECT **“Continuous core amorphous transformer”** TANC – financed in the frame POR FESR 2014-2015

NATIONAL COORDINATOR AND RESPONSIBLE OF THE O.U. OF SIENA OF THE TWO PROJECTS financed by MIUR PRIN Project 2007-2R7WWA **“Structure-activity relationships of oxidative enzymes for biotransformations”** and PRIN Project 2009-STNWX3 **“Catalytic mechanism and structural determinants of enzymatic properties of oxidases, peroxidases and oxigenases usable in biotechnological processes and in bio-recovery”**. In both cases the OUs involved are UNISI, UNIFI and UNINA

SCIENTIFIC RESPONSIBLE O.U. UNIVERSITY OF SIENA IN THE PROJECT **“High energy efficiency agro-industrial System for eco-friendly production of renewable materials and energy for land recovery”** financed by MIUR in the frame of SPEME ENERBIOCHEM PON Campania 2007-13; PON01_01966/10 in collaboration with University of Napoli Federico II, Novamont SPA, Chemtex and other partners at national level.

SCIENTIFIC RESPONSIBLE OF OPERATIVE UNIT (O.U.) DEPT. BIOTECHNOLOGY , CHEMISTRY AND PHARMACY UNIVERSITY OF SIENA IN THE EU PROJECT **EU/RT “Waste & Energy: Project of Assessment – WEPA”** financed by call R&S 2012 POR CReO 2007-2013 1.5a and 1.6., in collaboration with ARCHA SRL Laboratories, University of Pisa and other partners.

SCIENTIFIC RESPONSIBLE OF OPERATIVE UNIT (O.U.) DEPT. BIOTECHNOLOGY , CHEMISTRY AND PHARMACY UNIVERSITY OF SIENA IN THE EU PROJECT **Financialisation, economy, society and sustainable development FESSUD UE**

supported by 7^o Framework Programme Project n.: 266800-FP7-SSH-2010-1-FESSUD” in collaboration with Leeds University and other 23 EU partners.

SCIENTIFIC RESPONSIBLE O.U. UNIVERSITY OF SIENA IN THE EU Project “Sustainable flame retardant technical textile from recycled polyester – SUPERTEX” financed by Contract n. ECO/10/277225 2011-2014 CIP-EIP-Eco-Innovation 2010,in collaboration with Tecnotex.

SCIENTIFIC RESPONSIBLE O.U. UNIVERSITY OF SIENA IN THE PROJECT Industria 2015-Nuove tecnologie per il Made in Italy "Innovative self-cleaning textile maintainable through simplified industrial washing cycle for work-wear applications - EASYWASH” financed by contract 00030MI01/11- 2011-2014 - Ministero sviluppo economico and in collaboration with Tecnotessile, Lavanderia Alto Adige and 6 other partners at national level.

National and International Projects accomplished in the recent past as Coordinator or WP Leader and Responsible of OU UNISI

COORDINATOR OF THE EU/RT PROJECT MECHOS "Industrial Chemical Innovative Methods: Use of bio-inorganic oxidative systems against pollution from wastewaters" contract 1785/07 mis D4 POR Ob 3, in collaboration with UNIFI UNIFI and TECN OTEX.

SCIENTIFIC RESPONSIBLE AND CORDINATOR OF THE EU/RT Project “Mappaggio termico per l’uso razionale ed efficiente dell’energia nella regione toscana – MATURE” financed in the frame of “Research and Innovation in Environmental Field”, 2010-2012

COORDINATOR E SCIENTIFIC RESPONSIBLE OF PROJECT (PAR UNIVERSITY OF SIENA) “Structure and Properties of Metal Complexes with Ligands of Biological Interest and Metalloproteins”, 2006-2008

EU Project SOPHIED "Sustainable Bioprocesses for the European Colour Industries", contract E.C. n: NMP2-CT-2004-505899 - 2004/2008 Responsible for UNISI OU in collaboration with UNINA OU and other 27 partners of 12 EU countries.

EU Project BISCOL "Bioprocessing for sustainable production of coloured textiles" Contract n 256112 CIP-Ecoinnovation 2010-2013 in collaboration with Tecnotex and other 5 partners of 3 EU countries;

EU/RT Project BIODETEX "Enzymatic Bioremediation of Industrial Textile Dyes" contract 8227/04 in collaboration with UNIFI OU and TECNOTEX.

SCIENTIFIC RESPONSIBLE OF O.U. UNIVERSITY OF SIENA IN THE PROJECT EU/RT “Assessment of the management of the most relevant waste cycles in Tuscany Region under technical, economics, energetic and environmental profile - COMPARE” financed by B2-RT 2009 “Research and Innovation in Environmental Field” in collaboration with Scuola Superiore Sant’Anna Pisa, University of Pisa (Dipartimento di Chimica Industriale, Dipartimento di Ingegneria Chimica e Scienze dei Materiali) and Università of Firenze (Dipartimento di Meccanica e Tecnologie Industriali)

SCIENTIFIC RESPONSIBLE OF EU/RT Project “Design, synthesis and applications of new organic sensitizers for non-conventional photovoltaic cells-

FOTOSENSORG” financed by Tuscany Region in the frame of **POR CREO FSE 2010-2013** in collaboration with CNR-ICCOM Firenze, Exergy

- **SCIENTIFIC RESPONSIBLE OF O.U. UNIVERSITY OF SIENA IN THE PROJECT EU/RT “Electric and thermal distributed Power Production Systems from geothermal sources at low enthalpy” “BT-GEO”** financed by Tuscany Region in the frame of **POR CREO FSE 2007-2013** in collaboration with University of Firenze, Fabbrica del Sole (Arezzo),CEGL (Pisa).

SCIENTIFIC RESPONSIBLE AND MEMBER OF TECHNICAL COMMITTEE OF NETWORK PLAN IN THE PROJECT “Gestione di un sistema energetico locale di produzione da fonte rinnovabile, integrata con sistemi di accumulo, orientata all’ottimizzazione tecnico-economica e alla fornitura di servizi di rete mediante sistemi “smart grids” – SMART GRIDS NAVICELLI” financed by RT in the frame of **POR CREO FSE 2007-2013** in collaboration with: Sviluppo Navicelli spa, University of Pisa, Enel, Pin srl, University of Firenze, SSDI automazione industriale srl, CSA centro servizi artigianato – 2010-2012

SCIENTIFIC RESPONSIBLE OF O.U. UNIVERSITY OF SIENA IN THE PROJECT: “Studio di nuove soluzioni e nuovi processi industriali per lo sviluppo di metodi di riciclaggio e riuso dei residui plastici delle automobili” – REAUTO – financed by Tuscany Region – partners: University of Firenze (coordinator) and Pisa – 2008-2010

-**ISCRA/CINECA Project HP 10C0HMGL 2011 “Computational characterization of redox-active protein radicals involved in the Long Range Electron Transfer of Fungal Versatile Peroxidases“.**

RESPONSIBLE OU UNISI PRIN PROJECT 2004-2006 “Spectroscopic characterization of Metal Ions Complexes with Aminoacids, alpha-Idrossiacids and synthetic and natural Peptides” MIUR, in collaboration with University of Parma , University of Padova

SCIENTIFIC RESPONSIBLE of O.U. University of Siena in the Project **“S.I.EN.A – progetto pilota per lo sviluppo integrato delle energie rinnovabili dal settore agricolo - Filiera pilota dell’olio vegetale tal quale”** WITH AGENZIA REGIONALE PER LO SVILUPPO E L’INNOVAZIONE NEL SETTORE AGRICOLO – FORESTALE (ARSIA) – FINANCED BY FONDAZIONE MPS AND REGIONE TOSCANA – 2008-2010

SCIENTIFIC RESPONSIBLE of O.U. University of Siena in the Project **“S.I.EN.A – progetto pilota per lo sviluppo integrato delle energie rinnovabili dal settore agricolo - Filiera pilota del Biodiesel”** WITH AGENZIA REGIONALE PER LO SVILUPPO E L’INNOVAZIONE NEL SETTORE AGRICOLO – FORESTALE (ARSIA) – FINANCED BY FONDAZIONE MPS AND REGIONE TOSCANA – 2007-2008

Responsible OU Unisi PRIN Project “THERMAL SOLAR PLANTS FOR TEXTILE AND DAYRY SECTORS” MIUR., PARTNERS UNIVERSITY OF ROMA, FIRENZE E MILANO – 2005-2006

BOARD OF NATIONAL OR INTERNATIONAL JOURNALS

MEMBER MASTERHEAD OF INTERNATIONAL JOURNAL OF ENERGY & TECHNOLOGY SINCE 2009-
MEMBER OF EDITORIAL BOARD OF "QUALE ENERGIA" SINCE 2000-
MEMBER OF EDITORIAL BOARD INTERNATIONAL JOURNAL OF SOLAR ENERGY RESEARCH (JSER) SINCE 2016-
MEMBER OF EDITORIAL BOARD OF ENERGIES SINCE 2020-
MEMBER OF EDITORIAL BOARD OF HYLIGHTS IN SUSTAINABILITY SINCE 2020-
MEMBER OF EDITORIAL BOARD OF SUSTAINABILITY SINCE 2019-
MEMBER OF EDITORIAL BOARD OF BIOCATALYSIS SINCE 2013-
GUEST EDITOR OF ENERGY POLICY 2015-2016
GUEST EDITOR OF ENERGY 2017-2018-2019
GUEST EDITOR OF SUSTAINABILITY 2019-2020

REFEREE OF INTERNATIONAL JOURNALS :

APPLIED MAGNETIC RESONANCE; AGRICULTURE, ECOSYSTEM AND ENVIROMENT;
APPLIED ENERGY; BIOCHEMISTRY; BIOMASS AND BIOENERGY; BIOPHYSICAL CHEMISTRY; BUILDING AND ENVIRONMENT; BIOCHIMIE OPEN; CHEMOSPHERE; CHEMICAL ENGINEERING SCIENCE; DALTON TRANS.; ENVIRONMENTAL SCIENCE & TECHNOLOGY; ECOLOGICAL ECONOMICS; ECOLOGICAL ENGINEERING; ECOLOGICAL INDICATORS; ENERGY POLICY; ENERGY; ENERGY CONVERSION AND MANAGEMENT; GREEN CHEMISTRY; INORG. CHEMISTRY; INORG. CHIM. ACTA; J.A.C.S.; J. OF BIOTECHNOLOGY; J. PHYS. CHEM; J. CHEM. SOC.; J. OF ENVIRONMENTAL MANAGEMENT; J. OF MAGN. RES.; J. OF INORG. BIOCHEMISTRY; J. OF COORDINATION CHEMISTRY; J. OF CLEANER PRODUCTION; J. OF INDUSTRIAL AND ENGINEERING CHEMISTRY; J. OF MOLECULAR CATALYSIS B: ENZYMATIC; MATERIALS CHEMISTRY AND PHYSICS; P.C.C.P.; PROCESS BIOCHEMISTRY; RENEWABLE ENERGY; RENEWABLE AND SUSTAINABLE ENERGY REVIEWS; SOLAR ENERGY MATEIALS AND SOLAR CELLS; TALANTA; TRANSPORTATION RESEARCH PART A: POLICY AND PRACTICE.

REVIEWER OF NATIONAL AND INTERNATIONAL INSTITUTIONS

SWISS NATIONAL SCIENZE
FOUNDATION,
NWO NETHERLAND
ORGANIZATION FOR SCIENTIFIC
RESEARCH
ROYAL CHEMICAL SOCIETY
FULLBRIGHT FOUNDATION
VQR ANVUR
CINECA/MIUR
UNIVERSITÀ ROMA 2
COMPLUTENSE UNIVERSITY,
MADRID, SPAIN
NATIONAL INSTITUTE OF
INDUSTRIAL ENGINERING,
MUMBAY, INDIA
FONDAZIONE LEVI MONTALCINI
CONACYT MEXICO

**PLENARY PLENARY / INVITED LECTURES BY FACULTY MEMBER AT
INTERNATIONAL CONFERENCES AND/OR INSTITUTIONS**

- UNIVERSITY OF CAIRO (EGYPT) JUL 7TH, 2019
- EXPO 2017 FUTURE ENERGY, ASTANA, (KAZAKISTAN) JUN 26TH 2017
- SCIENCE PARK TRIESTE FEB 17TH, 2017
- UNIVERSITY OF FLORENCE DEC 6TH 2016
- BENI MELLAL UNIVERSITY (MOROCCO) OCT 1ST 2016
- UNIVERSITY OF TEHERAN AUG 30TH 2016
- BIWAES STOCKHOLM MAY 6TH 2015
- JAGELLONIAN UNIVERSITY KRAKOW FEB 16TH 2015
- SET PLAN CONFERENCE ROMA DEC 9TH 2014
- MEDAGLIA D'ORO DELLA SCI UNIVERSITÀ DELLA CALABRIA SEPT 7TH 2014
- UNIVERSITY OF WARSAW OCT 2014
- BOGAZICI UNIVERSITY ISTANBUL APRIL 1ST 2014
- LONDON SCHOOL OF ECONOMICS MARCH 2014
- VII INTERNATIONAL WORKSHOP ON EPR (ESR) IN BIOLOGY AND MEDICINE, "STRUCTURE/FUNCTION RELATIONSHIP IN METAL BIOMOLECULES: THE ROLE OF EPR SPECTROSCOPY", KRAKOV (POLAND), OCTOBER, 3-6, 2007
- GIRSE 2007, "ROLE OF EPR SPECTROSCOPY IN REVEALING STRUCTURE/FUNCTION RELATIONSHIP IN METAL BIOMOLECULES", VIETRI SUL MARE, (ITALY) SEPTEMBER, 29 – OCTOBER 3, 2007
- MEC, XI INTERNATIONAL UTILITIES FORUM, "FONTI RINNOVABILI TRA VECCHIE DIFFIDENZE E NUOVE OPPORTUNITÀ", VENEZIA, (ITALY) MAY, 9-11, 2007
- PRIMA SCUOLA NAZIONALE DI METODOLOGIE CHIMICO-FISCHE PER LO STUDIO DI SISTEMI BIOLOGICI, MARTINA FRANCA (ITALY), SEPTEMBER, 5-9, 2005
- NATIONAL CONFERENCE ON ENERGY POLICY IN ITALY, BOLOGNA (ITALY) APRIL 18-19, 2005
- INTERNATIONAL CONGRESS "IL CONTRIBUTO DELLE AREE URBANE AL PROTOCOLLO DI KYOTO", GENOVA, (ITALY), MAY, 31TH, 2001
- 33RD ANNUAL INTERNATIONAL MEETING ESR GROUP RSC AND 4TH MEETING OF EUROPEAN FEDERATION OF EPR GROUPS, NORWICH (ENGLAND), SEPTEMBER, 11-14, 2000
- SEMINAR AT THE UNAM (UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO), MEXICO, OCTOBER, 1999
- II CONFERENZA REGIONALE SULL'ENERGIA, FIRENZE, (ITALY), OCTOBER, 1999
- V INTERNATIONAL SYMPOSIUM ON APPLIED BIOINORGANIC CHEMISTRY, (GREECE), APRIL 1999
- SEMINAR AT THE LA HABANA UNIVERSITY, (CUBA), SEPTEMBER 1998
- CONFERENZA NAZIONALE SULL'ENERGIA ED AMBIENTE, ROMA (ITALY), NOVEMBER, 1998
- V RENEWABLE ENERGY CONGRESS, FIRENZE (ITALY), SEPTEMBER, 1998
- INTERNATIONAL SEMINAR ON ENERGY RECOVERING FROM URBAN WASTE (RSU), FIRENZE (ITALY), DECEMBER, 1996
- I CONFERENZA REGIONALE TOSCANA ENERGIA, FIRENZE (ITALY), JUNE, 1996
- 3RD WORKSHOP ON APPLICATIONS OF EPR IN BIOLOGY AND MEDICINE, KRAKOW (POLAND), SEPTEMBER, 1995
- 12TH CONFERENCE OF ISMAR, SYDNEY (AUSTRALIA) JULY, 1995
- XXVII CONGRESSO NAZIONALE CHIMICA FISICA, CATANZARO (ITALY), SEPTEMBER, 1994
- EUROPEAN ESR MEET. ON RECENT ADVANCES AND APPLICATIONS TO ORGANIC AND BIOORGANIC MATERIALS, PARIS (FRANCE), SEPTEMBER, 1994
- CONVEGNO INTERNAZIONALE CHIMICA DEI SISTEMI E PROCESSI BIOLOGICI, ROMA (ITALY), DECEMBER, 1993
- WORK. MAGNETIC SPECTROSCOPY ON BIOINORGANIC TRANSITION METAL CENTERS, HOMBURG/SAAR (GERMANY), FEBRUARY, 1993

- CONGRESSO NAZIONALE RISONANZA MAGNETICA, MILANO (ITALY), OCTOBER, 1991
- 2ND INTERNATIONAL WORKSHOP ON APPLICATIONS OF EPR IN BIOLOGY AND MEDICINE, KRAKOW (POLAND), SEPTEMBER, 1989
- INTERNATIONAL SPEKTROPI SEMPOZY, SAMSUN (TURKEY) SEPTEMBER, 1989
- INTERNATIONAL WORKSHOP ON EMR OF DISORDERED SYSTEMS, SOFIA (BULGARIA) JULY, 1989
- INTERNATIONAL SYMPOSIUM ON MAGNETIC RESONANCE WEIZMANN INST. OF SCIENCES, REHOVOT (ISRAEL) OCTOBER, 1988
- II UNIVERSITY OF ROME, DIP. BIOCHIMICA, ROME (ITALY), MAY, 27TH, 1988
- JAGIELLONIAN UNIVERSITY, KRAKOW, (POLAND), APRIL, 29TH, 1987
- MARQUETTE UNIVERSITY, WISCONSIN (U.S.A.), NOVEMBER, 22ND, 1985
- UNIVERSITY OF PERUGIA (ITALY), JUNE, 19TH, 1985
- NATIONAL ESR CENTRE, WISCONSIN (U.S.A.), SEPTEMBER, 17TH, 1984
- CORNELL UNIVERSITY, ITHACA (N.Y. – U.S.A.), AUGUST, 21ST, 1984
- YALE UNIVERSITY, NEW HAVEN (CONN.) U.S.A., JULY, 30TH, 1984
- JAGIELLONIAN UNIVERSITY, KRAKOW (POLAND), JUNE, 25TH, 1984
- UNIVERSITY OF FLORENCE (ITALY), NOVEMBER, 23RD, 1983
- UNIVERSITY OF SIENA (ITALY), NOVEMBER 15TH, 1983
- MEDICAL COLLEGE OF WISCONSIN MILWAUKEE (U.S.A.), SEPTEMBER, 9TH, 1983
- UNIVERSITY OF WISCONSIN MILWAUKEE (U.S.A.), OCTOBER, 21ST, 1982
- NORTH WESTERN UNIVERSITY EVANSTON, EVANSTON (U.S.A.), DECEMBER, 9TH, 1982
- EMORY UNIVERSITY ATLANTA (U.S.A.), AUGUST, 24TH, 1981

ORGANIZATION OF MEETINGS

AS CHAIRMAN (RECENT)

- EU SET PLAN CONFERENCE, ROMA, 9-10 DECEMBER 2014
- SESSIONE “ENERGIA GEOTERMICA ED EOLICA” E TAVOLA ROTONDA SULLA POLITICA ENERGETICA IN ITALIA, V CONGRESSO NAZIONALE AIGE (ASSOCIAZIONE ITALIANA GESTIONE ENERGIA), MODENA, 8-9 JUNE 2011
- SESSIONE “PROGETTI ECCELLENTI DELLE UNIVERSITÀ”, CONFERENZA INTERNAZIONALE SULLA RICERCA SULLA MOBILITÀ SOSTENIBILE “ENERGY THINK: VIA LIBERA ALLA MOBILITÀ”, FIRENZE, 19TH APRIL 2011
- X CONVEGNO NAZIONALE GIRSE, RIMINI, 26-29 SEPTEMBER 2010
- IBS2010, 14TH INTERNATIONAL BIOTECHNOLOGY SYMPOSIUM, SESSIONE “FP7 OPEN CALLS”, RIMINI, 14-18 SEPTEMBER, 2010
- VIII RIUNIONE SCIENTIFICA UNITÀ OPERATIVE DEL CSGI (CONSORZIO INTERUNIVERSITARIO PER LO SVILUPPO DEI SISTEMI A GRANDE INTERFASE), CHIANCIANO TERME (SI), 29-30 JUNE, 2010
- OXI ZYMES & 9TH INTERNATIONAL SYMPOSIUM ON PEROXIDASES, SESSIONE “STRUCTURE-FUNCTION RELATIONSHIPS – OTHER OXIDOREDUCTASES”, LIPSIA (GERMANIA), 14-16 JUNE 2010
- TAVOLA ROTONDA SULLA POLITICA ENERGETICA IN ITALIA ALLA LUCE DELLA SITUAZIONE MONDIALE E DEI VINCOLI TECNOLOGICI”, CONGRESSO AIGE (ASSOCIAZIONE ITALIANA GESTIONE ENERGIA), PARMA 4,5 JUNE 2009

- “INTERNATIONAL COST MEETING ON ADVANCED PARAMAGNETIC RESONANCE MOLECULAR BIOPHYSICS”, SIENA, 24-26 SEPTEMBER, 2008
- SESSIONE “CHIMICA, STRUTTURA E FUNZIONALITÀ DI BIOMOLECOLE”, XXXVII CONGRESSO NAZIONALE DI CHIMICA FISICA, CAMOGLI (GE), 24-29 FEBRUARY 2008
- CONFERENZA “LA CHIMICA SOSTENIBILE IN EUROPA ED IN ITALIA: STATO DELL’ARTE E STRATEGIE PER UN SUO SVILUPPO, ANCHE ATTRAVERSO IL VII PROGRAMMA QUADRO”, ECOMONDO 2007, RIMINI, 8TH NOVEMBER 2007
- SESSIONE “SPETTROSCOPIA MOLECOLARE”, XXXVI CONGRESSO NAZIONALE DI CHIMICA FISICA, GALLIPOLI, (LE), 17-22 JUNE 2007
- SESSIONE “CO2 SECTOR STUDIES”, 9TH IAEA EUROPEAN ENERGY CONFERENCE, FIRENZE, 10-13/6/2007

AS MEMBER OF ORGANIZING/ SCIENTIFIC COMMITTEE

- I CONGR. ENERCHEM FIRENZE 18-20 FEB 2016
- TUMA 2013 – CONVEGNO INTERREGIONALE SOCIETÀ CHIMICA ITALIANA, FIRENZE, 1/2-7/2013
- 6° CONGRESSO NAZIONALE AIGE – ASSOCIAZIONE ITALIANA GESTIONE ENERGIA – COSENZA, 8-9/6/2013
- TUMA 2012 – CONVEGNO INTERREGIONALE SOCIETÀ CHIMICA ITALIANA, FRANCAVILLA 30-6/1-7/2012
- ECOS 2012, PERUGIA, 26-29 JUNE 2012
- 5° CONGRESSO NAZIONALE AIGE – ASSOCIAZIONE ITALIANA GESTIONE ENERGIA – MODENA, 8-9/6/2011
- TUMA 2011 – CONVEGNO INTERREGIONALE SOCIETÀ CHIMICA ITALIANA, PERUGIA, 30-6/1-7/2011
- 14TH INTERNATIONAL BIOTECHNOLOGY SYMPOSIUM AND EXHIBITION, RIMINI, 15-19 SEPTEMBER 2010
- OXIZYMES & 9TH INTERNATIONAL SYMPOSIUM ON PEROXIDASES, LIPSIA (GERMANIA), 14-16 JUNE 2010
- FEI – FORUM ENERGETICO INTERNAZIONALE, TRANI, 9-10 GIUGNO 2010
- EPR 2010, 14TH IN VIVO EPR SPECTROSCOPY AND IMAGING, 11TH INTERNATIONAL EPR SPIN TRAPPING/SPIN LABELING, SAN JUAN, PUERTO RICO, 2 – 6 MAY 2010
- WORKSHOP ON ENERGY GROWTH, COMPLEXITY AND EFFICIENCY, SIENA, 23-24 OCTOBER 2009
- FEI (FORUM ENERGETICO INTERNAZIONALE), PISA, 22-24 OTTOBRE, 2008
- II CONGRESSO NAZIONALE AIGE (ASSOCIAZIONE ITALIANA GESTIONE ENERGIA), PISA 4-5 SEPTEMBER 2008
- 4TH EUROPEAN MEETING ON OXIZYMES, HELSINKI, FINLANDIA, 16-18 JUNE, 2008
- I,III,IV,V,VII, VIII, IX, XI EDIZIONI DEL “CHIANTI WORKSHOP” IN PISA 1984,89,91,93,97,99, 01, 03, 07
- 12TH IN VIVO EPR SPECTROSCOPY AND IMAGING, 9TH INTERNATIONAL EPR SPIN TRAPPING/SPIN LABELING, CHICAGO, U.S.A., 29/4- 3/5- 2007

Technical skills and competences

Since 1974:

Relaxation Mechanisms of Transition Metal Ions in solution studied by EPR and FT-NMR

Spectroscopies

Structural and dynamical studies on complexes of Transition Metal ions (Cu, Mn, Fe, V) with

Aminoacids, Peptides and Proteins in liquid and solid phases

Multifrequency-EPR of Copper (II) complexes in liquid and solid phases

Determination of Spin Hamiltonian Magnetic Parameters and Correlation Times by Computer simulation of EPR spectra at multifrequency and sensitivity analysis on Biomodel systems

Structure/activity relationships in copper complexes antitumoral drugs (Bleomycine, Thiosemicarbazones etc.)

Binary and ternary complexes of Copper with Phenanthroline and Cinnamic acids

Applications of Magnetic Resonance Spectroscopies to various problems in Ecology, Biophysical Chemistry, Biochemistry and Pharmacology at molecular level

Since 2000:

Spectroscopic Characterization of Versatile Peroxidases and Laccases Catalytic Mechanisms (and Enzymatic Bioremediation of Textile Dyes)

Molecular structure of Cu(II) Complexes with Peptides in solution (and Development of simulation programs for EPR spectra of Cu(II) containing Biomolecules in Rigid Limit and in Slow Motion regime)

Studies of EPR Spin Probing on Polymer-surfactant Systems and Site Direct Spin Labeling of proteins and mutants

Implementation of thermodynamic models for efficient and rationale use of Energy
Territorial energy balances, assessment of complex systems (natural resources),
energy-saving plans and renewable energies development
Evaluating different scenarios for energy planning at different territorial scales to
improve the environmental quality
Indicators for sustainable use of Natural and Energy Resources
Rebound Effect in Energy Efficiency

Since 2010:

Thermodynamic analysis and LCA of transport systems
Multicriteria analysis of hydrogen storage as transition energy vector
Energy, Exergy and Emergy sustainability indicators and LCA analysis in resources
and energy fluxes
Life Cycle Assessment of Energy Processes and Products (Geothermal, Biomass,
Novel Photovoltaics)
LCA of nanogrids and storage devices

Computer skills and competences Good command of Microsoft Office tools (Word, Excel, Power Point)

Driving licence Category B

Additional information

Fellow of Royal Society of Chemistry (UK)

International Advisory Board of International Society of EPR

Senior Associate ISC CNR since 2016

Senior Associate ICCOM CNR since 2017

President of Scientific Committee of Federesco (Italian Association of ESCOs)

Member of:

Energy Committee – Tuscany Region (Italy),

Scientific Committee of ISSI (Italian Institute for the Sustainable Development),

Scientific Committee of “Biofuels”, Technological Italian Platform, section
"Conversion"

Italian Executive Committee of “AIGE” (Italian Association of Energy
Management)

Scientific Committee of Platform IT- SusChem

Scientific Committee of IASG (International Institute for Studies on Complexity)

National Committee of Italian Physical Chemistry Assoc.

Technical/Scientific Committee of PUC (Polo Universitario di Colle Val d’Elsa)

American Chemical Society (USA)

American Association for Advancement of Science (USA)

International Society for Ecological Economics

The New York Academy of Sciences (USA)

ISES (International Solar Energy Society)

IAEE (International Association Energy Economics)

FIRE (Italian Federation for Rational Use of Energy)

RICCARDO BASOSI

Books published since 2005

R. Basosi, M. Cellura, S. Longo, M.L. Parisi “Life Cycle Assessment of Energy Systems and Sustainable Energy Technologies: The Italian Experience” Springer Nature Switzerland AG pp 184 ISBN 978-3-39-93739, **2019**

G. L. GIANNUZZI, L. VALORI, **R. BASOSI** “Lo chiamavano il Paese del sole: il fotovoltaico italiano tra spontaneo insediamento e pianificazione”, Aracne editrice S.r.l., stampato dalla “Ermes Servizi editoriali integrati srl”, Aracne, (RM), ISBN:9788854867789 (1-179), **2013**

R. BASOSI, D. VERDESCA, “Il ruolo delle Regioni nella decarbonizzazione dell’economia”, “Energia 2020: Energia e Ambiente dopo Kyoto”, in Ed. Ambiente, Milano, pagg. 101-122 (ISBN: 88-89014-37-7), **2006**

D. VERDESCA, **R. BASOSI**, “Emission Trading e piano assegnazione quote”, Il Sole24Ore, Pirola, Milano, 1-342, (ISBN: 88-324-5631-1), **2006**

R. BASOSI, D. VERDESCA, “Politiche energetiche per Enti Locali e Regioni: le nuove competenze tra legge di riforma (L. 239/2004), decentramento amministrativo, liberalizzazione del mercato e attuazione del Protocollo di Kyoto”, Il Sole24Ore, Pirola, Milano, 1-468, (ISBN: 88-324-5138-7), **2005**

Selections of publications of the last 15 years (over 305 total since 1974)

1. Pescetelli, S., Agresti, A., Viskadourous, G., Razza, S., Rogdakis, K., Kalogerakis, I., Spiliarotis, E., Leonardi, E., Mariani, P., Sorbello, L., Pierro, M., Cornaro, C., Bellani, S., Najafi, L., Martín-García, B., Del Rio Castillo, A., Oropesa-Nuñez, R., Prato, M., Maranghi, S., Parisi, M.L., Sinicropi, A., **Basosi, R.**, Bonaccorso, F., Kymakis, E., Di Carlo, A., Integration of two-dimensional materials-based perovskite solar panels into a stand-alone solar farm. *Nature Energy*, 7, 597–607 (2022).
<https://doi.org/10.1038/s41560-022-01035-4>
2. Coppola, C., Pecoraro, A., Muñoz-García, A.B., Infantino, R., Dessì, A., Reginato, G., **Basosi, R.**, Sinicropi, A., Pavone, M., Electronic structure and interfacial features of triphenylamine- and phenothiazine-based hole transport materials for methylammonium lead iodide perovskite solar cells, *Physical Chemistry Chemical Physics*, 2022, 24, 14993-15002, DOI:
<https://doi.org/10.1039/D2CP01270G>.
3. Coppola, C., Infantino, R., Dessì, A., Zani, L., Parisi, M.L., Mordini, A., Reginato, G., **Basosi, R.**, Sinicropi, A., DFT and TDDFT investigation of four triphenylamine/phenothiazine-based molecules as potential novel organic hole transport materials for perovskite solar cells, *Materials Chemistry and Physics*, 2022, 278, 125603, ISSN 0254-0584, <https://doi.org/10.1016/j.matchemphys.2021.125603>.

4. Rossi, F., Heleno, M., **Basosi, R.**, Sinicropi A., LCA driven solar compensation mechanism for Renewable Energy Communities: the Italian case, *Energy*, 2021, 235, 121374, <https://doi.org/10.1016/j.energy.2021.121374>
5. Coppola C., D'Ettoire A., Parisi M.L., Zani L., Reginato G., Calamante M., Mordini A., Taddei M., **Basosi R.**, Sinicropi A., In silico investigation of catechol-based sensitizers for type II Dye Sensitized Solar Cells (DSSCs), *Inorganica Chimica Acta*, 2021, 120233, ISSN 0020-1693, <https://doi.org/10.1016/j.ica.2020.120233>.
6. Maranghi S., Parisi M.L., **Basosi R.**, Sinicropi A. “The critical issue of using lead for sustainable massive production of perovskite solar cells: a review of relevant literature”, *Open Res Europe* 2021, 1, 44, DOI: 10.12688/openreseurope.13428.2.
7. Rossi F., Heleno M., **Basosi R.**, Sinicropi A., “Environmental and economic optima of solar home systems design: A combined LCA and LCC approach”, *Science of The Total Environment* 2020, 744, 140569, DOI: 10.1016/j.scitotenv.2020.140569
8. Federico Rossi, Maria Laura Parisi, Sarah Greven, **Riccardo Basosi** and Adalgisa Sinicropi Life Cycle Assessment of Classic and Innovative Batteries for Solar Home Systems in Europe *Energies* **2020**, 13(13), 3454; doi:10.3390/en13133454
9. Lorenzo Tosti, Nicola Ferrara, **Riccardo Basosi** and Maria Laura Parisi “Complete Data Inventory of a Geothermal Power Plant for Robust Cradle-to-Grave Life Cycle Assessment Results” *Energies* 2020, 13, 2839; doi:10.3390/en13112839
10. S Maranghi, ML Parisi, A Facchini, A Rubino, O Kordas, **R Basosi** “Integrating urban metabolism and life cycle assessment to analyse urban sustainability” *Ecological Indicators* 112, 106074 2020
11. ML Parisi, S Maranghi, **R Basosi**, A Sinicropi “Life Cycle Inventories datasets for future European electricity mix scenarios” *Data in Brief*, 105499 2020
12. ML Parisi, A Dessi, L Zani, S Maranghi, S Mohammadpourasl, M. Calamante, A. Mordini, **R. Basosi**, G. Reginato, A.Sinicropi “Combined LCA and Green Metrics Approach for the Sustainability Assessment of an Organic Dye Synthesis on Lab Scale” *Frontiers in Chemistry* 8, 214 2020
13. M Al Khatib, J Costa, MC Baratto, **R Basosi**, R Pogni “Paramagnetism and Relaxation Dynamics in Melanin Biomaterials” *The Journal of Physical Chemistry B* 124 (11), 2110-2115 2020
14. F Rossi, ML Parisi, S Maranghi, **R Basosi**, A Sinicropi “Life Cycle Inventory datasets for nano-grid configurations *Data in brief* 28, 104895 2020
15. S Mohammadpourasl, F Fabrizi de Biani, C Coppola, ML Parisi, L Zani, A. Dessi, M. Calamante, G. Reginato, **R. Basosi**, A. Sinicropi ...“Ground-State Redox Potentials Calculations of D- π -A and DA- π -A Organic Dyes for DSSC and Visible-Light-Driven Hydrogen Production” *Energies* 13 (8), 2032 2020
16. **R Basosi**, R Bonciani, D Frosali, G Manfrida, ML Parisi, F Sansone “Life Cycle Analysis of a Geothermal Power Plant: Comparison of the Environmental Performance with Other Renewable Energy Systems” *Sustainability* 12 (7), 2786 2020
17. Parisi M. L., Maranghi S., Vesce L., Sinicropi A., Di Carlo A. and **Basosi R.** Life Cycle “Assessment of industrial-scale dye sensitized solar module manufacturing process: a long-term prospective approach for mass production potential evaluation”, *Renewable and Sustainable Energy Reviews*, 2020, 121, 109703

18. F Rossi, ML Parisi, S Maranghi, **R Basosi**, A Sinicropi, "Environmental analysis of a Nano-Grid: a Life Cycle Assessment, 2019 *Science of the Total Environment*, (2020) 700; 03.10.2019, DOI: 10.1016/j.scitotenv.2019.134814
19. S Maranghi, M L Parisi, **R Basosi**, and A Sinicropi, Environmental Profile of the Manufacturing Process of Perovskite Photovoltaics: Harmonization of Life Cycle Assessment Studies, 2019 *Energies*, 12(19), 3746.
20. ML Parisi, N Ferrara, L Torsello, **R Basosi** Life cycle assessment of atmospheric emission profiles of the Italian geothermal power plants, 2019 *Journal of Cleaner Production*, vol. 234, p. 881-894.
21. S. Ulgiati, M.Casazza, O.Kordas, **R. Basosi** and A. Mauro Energy Technologies and Perspectives for Human and Environmental Wellbeing 2019 *Energy* 10.1016/j.energy.2019.06.125
22. A Dessì, A Sinicropi, S Mohammadpourasl, **R Basosi**, M Taddei, ...New Blue Donor–Acceptor Pechmann Dyes: Synthesis, Spectroscopic, Electrochemical, and Computational Studies 2019 *ACS Omega* 4 (4), 7614-7627
23. F Rossi, ML Parisi, S Maranghi, G Manfrida, **R Basosi**, A Sinicropi Environmental impact analysis applied to solar pasteurization systems 2019 *Journal of Cleaner Production* 212, 1368-1380
24. A Scala, A Facchini, U Perna, **R Basosi** Portfolio analysis and geographical allocation of renewable sources: A stochastic approach 2019 *Energy Policy* 125, 154-159
25. ML Parisi, **R Basosi** Geothermal Energy Production in Italy: An LCA Approach for Environmental Performance Optimization 2019 in *Life Cycle Assessment of Energy Systems and Sustainable Energy Technologies* ...31-44
26. Maria Camilla Baratto, David A. Lipscomb , Michael J. Larkin, **Riccardo Basosi** , Christopher C. R. Allen, Rebecca Pogni Spectroscopic Characterisation of the Naphthalene Dioxygenase from *Rhodococcus* sp. Strain NCIMB12038 *International Journal of Molecular Sciences* 2019-07-11 DOI: 10.3390/ijms20143402
27. Sánchez-Alejandro, Flor, Baratto, MARIA CAMILLA, **Basosi, Riccardo**, Graeve, Olivia, Vazquez-Duhalt, Rafael ,Addition of new catalytic sites on the surface of versatile peroxidase for enhancement of LRET catalysis 2019-01-01 11365/1080902 DOI: 10.1016/j.enzmictec.2019.109429
28. S Jez, D Spinelli, A Fierro, E Busi, **R Basosi** Comparative Life Cycle Assessment Study on Environmental Impact of Oil Production from Micro-Algae and Terrestrial Oilseed Crops 2019 in *Life Cycle Assessment of Energy Systems and Sustainable Energy Technologies* ...171-184
29. **R. Basosi**, M. Cellura, S. Longo and M. L. Parisi, Life Cycle Assessment of Energy Systems and Sustainable Energy Technologies: the Italian Experience (2019) 10.1007/978-3-319-93740-3
30. L. VESCE, A. GUIDOBALDI, P. MARIANI, M.L. PARISI, S. MARANGHI, **R. BASOSI**, A. DI CARLO, Upscaled hybrid photovoltaic modules. In "Devices from Hybrid and Organic Materials", Vida Engmann, Morten Madsen, Horst-Günter Rubahn Editors. World Scientific Publishing 2019
31. Maher Al Khatib, Mohamed Harir , Jessica Costa , Maria Camilla Baratto, Irene Schiavo, Lorenza Trabalzini, Simona Pollini, Gian Maria Rossolini, **Riccardo Basosi**, and Rebecca Pogni, Spectroscopic Characterization of Natural Melanin from a *Streptomyces cyaneofuscatus* Strain and Comparison with Melanin Enzymatically Synthesized by Tyrosinase and Laccase Molecules 2018, 23, 1916; doi:10.3390/molecules 23081916
32. A FORTE, A ZUCARO, S FAUGNO, **R BASOSI**, A FIERRO, Energy consumption of bio-ethanol fuel production from *Arundo donax* L. crops on marginal lands of Southern Italy, 2018, *Energy*, 150, pp. 222-235
33. **R. BASOSI**, S. MARANGHI, M. L. PARISI, LCA di sistemi solari innovativi: i moduli DSSC. In *Life Cycle Assessment applicata all'edificio: metodologia e casi di studio sul sistema fabbricato-impianto*, 2017, Editoriale Delfino, Milano, pp. 227-246.

34. E. CASTELLUCCI, M. MONINI, M. BESSI, A. IAGATTI, L. BUSSOTTI, A. SINICROPI, M. CALAMANTE, L. ZANI, **R. BASOSI**, G. REGINATO, A. MORDINI, P. FOGGI, M. DI DONATO, Photoinduced excitation and charge transfer processes of organic dyes with siloxane anchoring groups: a combined spectroscopic and computational study, **2017**, *Phys. Chem. Chem. Phys.*, 19, pp. 15310-15323.
35. M. BESSI, M. MONINI, M. CALAMANTE, A. MORDINI, A. SINICROPI, **R. BASOSI**, M. DI DONATO, P. FOGGIA, A. IAGATTI, L. ZANI, G. REGINATO, Synthesis of Silatrane-Containing Organic Sensitizers as Precursors for Silyloxy Anchoring Group in Dye Sensitized Solar Cells, **2017**, *Synthesis*, 49(17), pp. 3975-3984
36. S. JEZ, D. SPINELLI, A. FIERRO, A. DIBENEDETTO, M. ARESTA, E. BUSI, **R. BASOSI**, Comparative life cycle assessment study on environmental impact of oil production from micro-algae and terrestrial oilseed crops, **2017**, *Bioresource Technology*, 239, pp. 266-275
37. K. CHAPLIN, C. BERNINI, A. SINICROPI, **R. BASOSI**, J. A. R. WORRALL and D. A. SVISTUNENKO, "Tyrosine or tryptophan? Creating a new metalloradical catalytic site by removal of the Cys-Tyr cross-link in the galactose-6 oxidase homologue GlxA", **2017**, *Angew. Chem. Int. Ed.*, 56(23), pp. 6502-6506
38. F. RUZZENENTI, F., **R. BASOSI**, "Modelling the rebound effect with network theory: An insight into the European freight transport sector", **2017**, *Energy*, 118, pp. 272-283
39. **BASOSI, R.**, CASAZZA, M., SCHNITZER, H., "Energy policy within and beyond urban systems", **2017**, *Energy Policy*, 100, pp. 301-303.
40. E. BUSI, S. MARANGHI, L. CORSI, **R. BASOSI**, "Environmental sustainability evaluation of innovative self-cleaning textiles", *Journal of Cleaner Production*, **2016**, 133, 439-450.
41. F. SANCHEZ-ALEJANDRO, K. JUAREZ-MORENO, M.C. BARATTO, **R. BASOSI**, R. V. DUHALT, "Tryptophan-surface modification of versatile peroxidase from *Bjerkandera adusta* enhances its catalytic performance", *Journal of Molecular Catalysis B: Enzymatic*, **2016**, 124, 45-51
42. FORTE A., ZUCARO A., **BASOSI R.**, FIERRO A., "LCA of 1,4-Butanediol Produced via Direct Fermentation of Sugars from Wheat Straw Feedstock within a Territorial Biorefinery", *Materials*, **2016**, 9 (7), 563.
43. VALORI L., GIANNUZZI G.L., FACCHINI A., SQUARTINI T., GARLASCHELLI D., **BASOSI R.**, "A generation-attraction model for renewable 1 energy flows in Italy: a complex network 2 approach", *The European Physical Journal, Special topics*, **2016**, 1-15.
44. ZUCARO A., FORTE A., **BASOSI R.**, FAGNANO M., FIERRO A., "Life Cycle Assessment of second generation bioethanol produced from low-input dedicated crops of *Arundo donax* L.", **2016**, *Bioresource Technology* 219, 589-599.
45. SÁNCHEZ-ALEJANDRO, F.; JUAREZ-MORENO, K.; BARATTO, M.C.; **BASOSI, R.**; VAZQUEZ-DUHALT, R., "Tryptophan-surface modification of versatile peroxidase from *Bjerkandera adusta* enhances its catalytic performance", *Journal of Molecular Catalysis B: Enzymatic*, (**2016**) 124, 45-51.
46. **BASOSI, R.**, MARANGHI, S., PARISI, M.L., "LCA di sistemi solari innovativi: DSSC", *Life Cycle Assessment applicata al sistema edificio-impianto, AICARR*, (**2016**).
47. MARANGHI, S., PARISI, M.L., **BASOSI, R.**, "Potentialities of LCA for urban systems sustainability assessment", *In Atti del X Convegno della Rete Italiana LCA - Life Cycle Thinking, sostenibilità ed economia circolare*, 54-62 (**2016**).
48. BUSI, E.; MARANGHI, S.; CORSI, L.; **BASOSI, R.**, Sustainability evaluation of innovative self-cleaning textiles, *Journal of Cleaner Production*, **2016**, 133, 439-450.
49. M.L. PARISI, E. FATARELLA, D. SPINELLI, R. POGNI, **R. BASOSI**, "Environmental impact assessment of an eco-efficient production for coloured textiles", *Journal of Cleaner Production*, **2015**, 73, 514-524
50. A. FORTE, A. ZUCARO, M. FAGNANO, S. BASTIANONI, **R. BASOSI**, A. FIERRO, "LCA of *Arundo donax* L. lignocellulosic feedstock production under Mediterranean conditions", *Biomass and Bioenergy*, **2015**, 73, 32-47
51. POGNI R., BARATTO M.C., SINICROPI A., **BASOSI R.**, "Spectroscopic and computational characterization of laccases and their substrate radical intermediates", *Cellular and molecular life sciences*, **2015**, 72, 5, 885

52. BARATTO M.C., SINICROPI A., LINDE D., SÁEZ-JIMÉNEZ V., SORACE L., RUIZ-DUEÑAS F.J., MARTINEZ A.T., **BASOSI R.**, POGNI R., “Redox-Active Sites in *Auricularia auricula-judae* Dye-Decolorizing Peroxidase and Several Directed Variants: A Multifrequency EPR Study”, *Journal of Physical Chemistry B*, **2015**, 119 (43), 13583-13592
53. DESSI A., CALAMANTE M., MORDINI A., PERUZZINI M., SINICROPI A., **BASOSI R.**, FABRIZI DE BIANI F., TADDEI M., COLONNA D., DI CARLO A., REGINATO G. AND ZANI L., “Thiazolo [5, 4-d] thiazole-based organic sensitizers with strong visible light absorption for transparent, efficient and stable dye-sensitized solar cells”, *RSC Advances*, **2015**, 5, 32657-32668
54. BARATTO M.C., JUAREZ-MORENO K, POGNI R., **BASOSI R.**, VAZQUEZ-DUHALT R., EPR and LC-MS studies on the mechanism of industrial dye decolorization by versatile peroxidase from *Bjerkandera adusta* *Environmental Science and Pollution Research*, **2015**, 22(11), 8683-92.
55. M.L.PARISI, S. MARANGHI, **R. BASOSI** “The evolution of dye sensitized solar cells from Grätzel prototype to up-scaled solar applications: a life cycle assessment approach”, *Renewable and Sustainable Energy Reviews*, **2014**, 39, 124-138
56. A. DESSI, M. CALAMANTE, A. MORDINI, M. PERUZZINI, A. SINICROPI, **R. BASOSI**, F. FABRIZI DE BIANI, M. TADDEI, D. COLONNA, A. DI CARLO, G. REGINATO, L. ZANI “Organic dyes with intense light absorption especially suitable for application in thin-layer dye-sensitized solar cells”, *Chemical Communications*, **2014**, 50, 13952-13955
57. A. BERNINI, L. ZANI, M. CALAMANTE, G. REGINATO, A. MORDINI, M. TADDEI, **R. BASOSI**, A. SINICROPI “Excited state geometries and vertical emission energies of solvated dyes for DSSC: a PCM/TD-DFT benchmark study”, *Journal of Chemical Theory and Computation*, **2014**, 10 (9), 3925–3933
- A. MARTORANA, R. VAZQUEZ-DUHALT, S.A. AGUILA, **R. BASOSI**, M.C. BARATTO “Spectroscopic characterization of 2,6-dimethoxyphenol radical intermediates in the *Coriolopsis gallica* laccase-mediator system”, *Journal of Molecular Catalysis B: Enzymatic*, **2014**, 107, 100-105
58. G. MACELLARO, M.C: BARATTO, A. PISCITELLI, C. PEZZELLA, F. FABRIZI DE BIANI, A. PALMESE, F. PIUMI, E. RECORD, **R. BASOSI**, G. SANNIA, “Effective mutations in a high redox potential laccase from *Pleurotus ostreatus*”, *Applied Microbiology Biotechnology*, **2014**, 98, 4949-4961
- B. BERNINI, E. AREZZINI, **R. BASOSI**, A. SINICROPI “*In silico* spectroscopy of tryptophan and tyrosine radicals involved in the long-range electron transfer of Cytochrome c Peroxidase”, *Journal of Physical Chemistry B*, **2014**, 118, 9525–9537
- C. FRANCHI, M. CALAMANTE, G. REGINATO, L. ZANI, M. PERUZZINI, M. TADDEI, F. FABRIZI DE BIANI, **R. BASOSI**, A. SINICROPI, D. COLONNA, A. DI CARLO, A. MORDINI “A Comparison of Carboxypyridine Isomers as Sensitizers for Dye-Sensitized Solar Cells: Assessment of Device Efficiency and Stability”, *Tetrahedron*, **2014**, 70, 6285-6295
59. M.L.PARISI, S. MARANGHI, A. SINICROPI, **R. BASOSI** “Development of dye sensitized solar cells: a life cycle perspective for the environmental and market potential assessment of a renewable energy production technology”, *International Journal of Heat and Technology*, 31(2); 143-148, **2014**
60. M. BRAVI, **R. BASOSI** “Environmental impact of electricity from selected geothermal power plants in Italy”, *Journal of Cleaner Production*, DOI 10.1016/j.jclepro.2013.11.015, 66, 301-308, **2014**
- D. BERNINI, R. POGNI, **R. BASOSI**, A. SINICROPI “Prediction of hydrogen-bonding networks around tyrosyl radical in *P. eryngii* versatile peroxidase W164Y variants: a QM/MM MD study”, *Molecular Simulation*, DOI: 10.1080/08927022.2013.822967, 40 (6), 485-490, **2014**
- E. RUZZENENTI, M. BRAVI, D. TEMPESTI, E. SALVATICI, G. MANFRIDA, **R. BASOSI** “Evaluation of the environmental sustainability of a micro CHP system fueled by low-temperature geothermal and solar energy”, *Energy Conversion and Management*, 78, 611-616, **2014**
61. A.MARTORANA, L. SORACE, H. BOER, R. VAZQUEZ-DUHALT, **R. BASOSI**, M. C. BARATTO “A spectroscopic characterization of a phenolic natural mediator in the laccase biocatalytic reaction”, *Journal of Molecular Catalysis B: Enzymatic*, 97, 203-208, **2013**
62. R. BESIO, M. C. BARATTO, R. GIOIA, E. MONZANI, S. NICOLIS, L. CUCCA, A. PROFUMO, L. CASELLA, **R. BASOSI**, R. TENNI, A. ROSSI, A. FORLINO “A Mn(II)-Mn(II) center in human prolidase”, *Biochimica et Biophysica Acta (BBA) – Proteins and Proteomics*, **2013**, 1834, 197-204

63. A. BAROZZINO-CONSIGLIO, F. PEDNA, C. FORNACIARI, F. FABRIZI DE BIANI, G. MAROTTA, P. SALVATORI, **R. BASOSI**, F. DE ANGELIS, A. MORDINI, M. L. PARISI, M. PERUZZINI, G. REGINATO, M. TADDEI, L. ZANI "Assessment of new gem-silanedioles as suitable sensitizers for dye-sensitized solar cells", *Journal of Organometallic Chemistry*, <http://dx.doi.org/10.1016/j.jorganchem.2012.10.012> 723,1 198-206, **2013**
64. D. SPINELLI, L. BARDI, A. FIERRO, S. JEZ, **R. BASOSI** "Environmental analysis of sunflower production with different forms of mineral nitrogen fertilizers", *Journal of environmental management*, 129, 302-308, **2013**
65. A. DESSI, G. BAROZZINO CONSIGLIO, M. CALAMANTE, G. REGINATO, A. MORDINI, M. PERUZZINI, M. TADDEI, A. SINICROPI, M. L. PARISI, F. FABRIZI DE BIANI, **R. BASOSI**, R. MORI, M. SPATOLA, M. BRUZZI, L. ZANI "Organic Chromophores Based on a Fused Bis-Thiazole Core and Their Application in Dye Sensitized Solar Cells", *European Journal of Organic Chemistry*, 2013(10), 1916-1928, **2013**
- F. BUSI, G. VITIELLO, M. NICCOLI, **R. BASOSI**, D. MONTESARCHIO, G. D'ERRICO "On the mechanism of ion transport through lipid membranes mediated by PEGylated cyclic oligosaccharides (CypLOS): An ESR study", *Biochimica et Biophysica Acta (BBA)-Biomembranes*, 1828 (9), 2074-2082, **2013**
66. D. SPINELLI, S. JEZ, R. POGNI, **R. BASOSI** "Environmental and Life Cycle Analysis of a biodiesel production line from sunflower in the Province of Siena (Italy)", *Energy Policy*, 59, 492-506, **2013**
67. L. ZANI, G. REGINATO, A. MORDINI, M. CALAMANTE, M. PERUZZINI, M. TADDEI, A. SINICROPI, M. L. PARISI, F. FABRIZI DE BIANI, **R. BASOSI**, A. CAVALLARO, M. BRUZZI "An unusual thiazolo [5, 4-d] thiazole sensitizer for dye-sensitized solar cells", *Tetrahedron Letters*, 54(30), 3944-3948, **2013**
68. L. VALORI, R. BRAVI, **R. BASOSI**, "Life Cycle Assessment of Micro-wind Generators", *International Journal of Energy and Technology*, 5(5), 1-6, **2013**
69. MEDINA, S. AGUILA, M. C. BARATTO, A. MARTORANA, **R. BASOSI**, J. B. ALDERETE, R. VAZQUEZ-DUHALT "Prediction model based on decision tree analysis for laccase mediators",
70. *Enzyme and Microbial Technology*, (ISSN: 0141 0229), 52(1), 68-76, **2013**
71. C. BERNINI, T. ANDRUNIOW, M. OLIVUCCI, R. POGNI, **R. BASOSI**, A. SINICROPI "Effects of the Protein Environment on the Spectral Properties of Tryptophan Radicals in *Pseudomonas aeruginosa* Azurin", *Journal of the American Chemical Society*, 135(12), 4822-4833, **2013**
- G. PICCIOLO, T. SQUARTINI, F. RUZZENENTI, **R. BASOSI**, D. GARLASCHELLI, "The role of distances in the World Trade Web", *Signal Image Technology and Internet Based Systems (SITIS)*, published online, **2012**
72. F. RUZZENENTI, F. PICCIOLO, **R. BASOSI**, D. GARLASCHELLI "Spatial effects in real networks: Measures, null models, and applications", *Physical Review E*, 86(6), published online <http://arxiv.org/abs/1207.1791v5>, **2012**
73. C. BERNINI, R. POGNI, **R. BASOSI**, A. SINICROPI "The nature of tryptophan radicals involved in the long-range electron transfer of Lignin Peroxidase (LiP) and LiP-like systems: insights from QM/MM simulations", *Proteins: structure, function and bioinformatics*, (ISSN: 0887-3585), 80(5), 1476-1483, **2012**
74. A. FIERRO, D. SPINELLI, L. BARDI, S. JEZ, A. ZUCARO, A. FORTE, **R. BASOSI** "The primary importance of more precise and locally available data for the evaluation of net GHG emissions of N2O by means of LCA applied to agricultural production", in "What is sustainable technology? The role of life cycle-based methods in addressing the challenges of sustainability assessment of technologies", Edited by Grazia Barberio, Lucia Rigamonti, Alessandra Zamagni, ENEA, (ISBN: 978-88-8286-270-1), 37-38, **2012**
75. M. L. PARISI, S. MARANGHI, **R. BASOSI** "Life cycle analysis of dye sensitized solar cell technology" , in "What is sustainable technology? The role of life cycle-based methods in addressing the challenges of sustainability assessment of technologies", Edited by Grazia Barberio, Lucia Rigamonti, Alessandra Zamagni, ENEA, (ISBN: 978-88-8286-270-1), 18-20, **2012**
76. K. F. PIRKER, M.C. BARATTO, **R. BASOSI**, B.A. GOODMAN "Influence of pH on the speciation of copper(II) in reactions with the green tea polyphenols, epigallocatechin gallate and gallic acid", *J. Inorg. Biochem*, ISSN: 0162-0134 (DOI: 10.1016/j.jinorgbio.2011.12.010), 112, 10-16, 2012, **2012**
77. CIULLINI, A. GULLOTTO, S. TILLI, G. SANNIA, **R. BASOSI**, A. SCOZZAFAVA, F. BRIGANTI "Enzymatic decolorization of spent textile dyeing baths composed by mixtures of synthetic dyes and additives", *Applied Microbiology and Biotechnology*, (DOI: 10.1007/s00253-011-3809-y), 96(2), 395-405, **2012**

78. MERLINO, G. VITIELLO, M. GRIMALDI, F. SICA, E. BUSI, **R. BASOSI**, A.M. D'URSI, G. FRAGNETO, L. PADUANO, G. D'ERRICO "Destabilization of Lipid Membranes by a Peptide Derived from Glycoprotein gp36 of Feline Immunodeficiency Virus: A Combined Molecular Dynamics/Experimental Study" *The Journal of Physical Chemistry B*, (DOI:10.1021/jp204781a), 116(1), 401-412, (ISSN:1520-6106), **2011**
79. D. A. SVISTUNENKO, M. ADELUSI, M. DAWSON, P. ROBINSON, C. BERNINI, A. SINICROPI, **R. BASOSI** "Computation informed selection of parameters for protein radical EPR spectra simulation" *Studia Universitatis Babes-Bolyai Chemia*, LVI, (ISSN: 1224-7154), 3, 135-146, **2011**
80. F. VIGNALI, G. PREDIERI, E. FECCI, S. PALANTI, M.C. BARATTO, **R. BASOSI**, E. CALLONE, K. MUELLER "Interpenetration of wood with NH₂R-functionalized silica xerogels anchoring copper(II) for preservation purposes", *Journal of Sol-Gel Science and Technology* (ISSN: 0928-0707), (DOI: 10.1007/s10971-011-2557-x), 60, 445-456, **2011**
81. M. C. BARATTO, A. MARTORANA, C. BERNINI, D. VALENSIN, A. SINICROPI, R. POGNI, **R. BASOSI** "Insights on the homocoupling reaction of 4-methylamino benzoic acid mediated by *Trametes versicolor* laccase", *Atti XXIV Congresso Nazionale della Società Chimica Italiana*, Lecce, 11-16 settembre 2011, eISBN: 978-88-8305-085-5, pag. 537, **2011**
82. A. SINICROPI, C. BERNINI, R. POGNI, **R. BASOSI**, "QM/MM Characterization of redox-active Trp radicals in LiP and LiP-like systems", *Atti XXIV Congresso Nazionale della Società Chimica Italiana*, Lecce, 11-16 settembre 2011, eISBN: 978-88-8305-085-5, pag. 578, **2011**
83. F. VIGNALI, M. C. BARATTO, **R. BASOSI**, K. MUELLER, E. CALLONE, S. PALANTI, E. FECCI, L. ELVIRI, G. PREDIERI "Synthesis and characterization of wood-silica gel nanocomposites anchoring copper complexes active against biotic decay" *Atti XXIV Congresso Nazionale della Società Chimica Italiana*, Lecce, 11-16 settembre 2011, eISBN: 978-88-8305-085-5, pag. 55, **2011**
84. R. POGNI, Y. MIKI, F.R. CALVINO, S. GIANSAANTI, F. J. RUIZ-DUENAS, M. J. MARTINEZ, **R. BASOSI**, A. ROMERO, A. T. MARTINEZ, "Crystallographic, kinetic and spectroscopic study of the first ligninolytic peroxidase presenting a catalytic tyrosine", *Atti XXIV Congresso Nazionale della Società Chimica Italiana*, Lecce, 11-16 settembre 2011, eISBN: 978-88-8305-085-5, pag. 573, **2011**
85. L. ZANI, G. BAROZZINO CONSIGLIO, F. PEDNA, A. MORDINI, M. TADDEI, **R. BASOSI**, A. SINICROPI, G. REGINATO, "Novel Organic Dyes for Photovoltaic applications", *Atti XXIV Congresso Nazionale della Società Chimica Italiana*, Lecce, 11-16 settembre 2011, eISBN: 978-88-8305-085-5, pag. 834, **2011**
86. A. MARTORANA, C. BERNINI, D. VALENSIN, A. SINICROPI, R. POGNI, **R. BASOSI**, M.C. BARATTO "Insights into the Homocoupling Reaction of 4-Methylamino Benzoic Acid Mediated by *Trametes Versicolor* Laccase", *Molecular BioSystems* (ISSN: 1742-206X), (DOI:10.1039/c1mb05301a), 7, 2967-2969, **2011**
87. Y. MIKI, F. R. CALVINO, R. POGNI, S. GIANSAANTI, F. J. RUIZ-DUENAS, M. J. MARTINEZ, **R. BASOSI**, A. ROMERO, A. T. MARTINEZ "Crystallographic, kinetic, and spectroscopic study of the first ligninolytic peroxidase presenting a catalytic tyrosine", *The Journal of Biological Chemistry*, (DOI: 10.1074/jbc.M111.220996), 286, 17, 15525-15534, **2011**
88. M.L. PARISI, A. SINICROPI, R. BASOSI "Life Cycle Assessment of Gratzel-type cell production for non conventional photovoltaics from novel Organic Dyes" *International Journal of Heat & Technologies*, ISSN: 0392-8764, 29(2), 161-169, **2011**
89. M. L. PARISI, D. SPINELLI, L. BERZI, M. DELOGU, M. PIERINI, **R. BASOSI** "Analisi LCA integrata di scenari per lo sviluppo di metodi di riciclaggio e riutilizzo dei residui plastici dagli ELV", *Atti dei seminari "Industrial Ecology: i principi, le applicazioni a supporto della Green Economy"*, "ECOMONDO 2011", Rimini, 9 novembre 2011, (ISBN:8838769869), **2011**
90. D. SPINELLI, **R. BASOSI** "Biofuels from microalgae", *Summer School Chemistry for Life and Environment*, 8th edition, ISBN: 9788896151099, 27, **2011**
91. M. BRAVI, M.L. PARISI, E. TIEZZI, R. BASOSI "Life Cycle Assessment of a Micromorph Photovoltaic System", *Energy* (ISSN: 0360-5442), (DOI: 10.1016/j.energy.2011.04.012) 36, 4297-4306, **2011**
92. C. BERNINI, R. POGNI, F. J. RUIZ-DUENAS, A. T. MARTINEZ FERRER, **R. BASOSI**, A. SINICROPI "EPR Parameters of amino acid radicals in *P. eryngii* versatile peroxidase and its W164Y variant computed at the QM/MM level" (DOI:10.1039/C0CP02151B), *PCCP* 13(11), 5078-5098, **2011**

93. F. LUCHI, V. VIGNI, R. BASOSI, E. BUSI “A novel environmental indicator for monitoring of pesticides”, *Environmental Monitoring and Assessment*, (ISSN: 0167-6369), (DOI: 10.1007/s10661-010-1626-x)177, 151-163, **2011**
94. R. POGNI, D. VALENSIN, A. JAROSZ-WILKOLAZKA, M.L. PARISI, R. BASOSI “Synthesis, structural characterization and LCA analysis of a novel phenoxazinone dye by use of a fungal laccase”, *JOURNAL OF BIOTECHNOLOGY* (ISSN: 0168-1656), 150 (1), 195, (DOI: 10.1016/j.jbiotec.2010.08.507), **2010**
95. Y. MIKI, F.R. CALVINO, R. POGNI, F. J. RUIZ-DUENAS, M.J. MARTINEZ, **R. BASOSI**, A. ROMERO, A.T. MARTINEZ “Mechanistic study on *trametes cervina* lignin peroxidase having a catalytic tyrosine: unique activation mechanism by veratryl alcohol”, *Proceedings of the “Oxidative enzymes as sustainable industrial biocatalysts”*, (ISBN: 978-84-614-2824-3), 42-46, **2010**
96. S. DI GREGORIO, F. BALESTRI, M. BASILE, V. MATTEINI, F. GINI, S. GIANSAANTI, M. G. TOZZI, **R. BASOSI**, R. LORENZI “Sustainable discoloration of textile chromo-baths by spent mushroom substrate from the industrial production of *Plerotus ostreatus*”, *J. of Environmental Protection (JEP)*(ISSN: 1311-5065), 1, 85-94 (DOI:10.4236/jep.2010.12011), **2010**
97. A.MELLONI, R. ROSSI PACCANI, D. DONATI, V. ZANIRATO, A. SINICROPI, M. L. PARISI, E. MARTIN, M. RYAZANTSEV, W.J. DING, L. M. FRUTOS, **R. BASOSI**, S. FUSI, L. LATTERINI, N. FERRE’, M. OLIVUCCI “Modeling, Preparation and Characterization of a Dipole Moment Switch Driven by Z/E Photoisomerization”, *JACS*, 132 (27), 9310-9319, (DOI: 10.1021/ja906733q), **2010**
98. **R. BASOSI** Prefazione al libro “Impianti Eolici. Con CD-ROM”, Autore: Graniglia Nicola, Editore: Grafill, Formulari, EAN: 9788882074050, **2010**
99. M. BRAVI, M. L. PARISI, E. TIEZZI, **R. BASOSI** “Life Cycle Assessment of advanced technologies for photovoltaic panels production”, *International Journal of Heat & Technologies*, 28,2, 133-140, **2010**
- 100.F. RUZZENENTI, **R. BASOSI** “Energy growth, complexity and efficiency” in “Energy Efficiency”, ed. Jenny Palm, published by Sciyo, 27-48, (ISBN 978-953-307-137-4), **2010**
- 101.D. GARLASCHELLI, F. RUZZENENTI, **R. BASOSI**, “Complex Networks and Symmetry I: a review”, (doi:10.3390/sym2031683), *Symmetry* (ISSN:2073-8994), 2, 1683-1709, **2010**
- 102.F. RUZZENENTI, D. GARLASCHELLI, **R. BASOSI**, “Complex Networks and Symmetry II: reciprocity and Evolution of World Trade”, (doi:10.3390/sym2031710), *Symmetry* (ISSN:2073-8994), 2, 1710-1744, **2010**
- 103.**R. BASOSI** “Energy Growth, complexity and efficiency”, *Summer School Chemistry for Life and Environment*, 7th edition, 18, (ISBN: 978-88-96151-07-5), **2010**
- 104.D. SPINELLI, S. JEZ, R. POGNI, **R. BASOSI** “Environmental and Life Cycle Analysis of a Biodiesel Production Line from Sunflower”, *Summer School Chemistry for Life and Environment*, 7th edition, 31, (ISBN: 978-88-96151-07-5), **2010**
- 105.D. SPINELLI, S. JEZ, R. POGNI, **R. BASOSI** “Environmental and LCA of a Biodiesel Production Line from Sunflower in the Province of Siena(Italy)”, *Journal of Biotechnology*, 150(1), 171-172, (doi:10.1016/j.jbiotec.2010.08.446), **2010**
- 106.M.C. BARATTO, A. MARTORANA, A. SINICROPI, C. BERNINI, R. POGNI, **R. BASOSI** “Characterization of LRET Mechanism: Laccase-Mediator and Laccase Precursor System”, *Summer School Chemistry for Life and Environment*, 7th edition, 32, (ISBN: 9788896151075), **2010**
- 107.C. BERNINI, R. POGNI, F. J. RUIZ-DUENAS, A. T. MARTINEZ FERRER, **R. BASOSI**, A. SINICROPI “QM/MM Characterization of Trp and Tyr Radicals inside the protein matrix of a *P.Eryngii* Versatile Peroxidase and its W164Y Mutant” *Summer School Chemistry for Life and Environment*, 7th edition, 30, (ISBN: 978-88-96151-07-5), **2010**
- 108.S. FORTE, J. POLAK, D. VALENSIN, M. TADDEI, **R. BASOSI**, A. JAROSZ-WILKOLAZKA, R. POGNI “Synthesis and Structural Characterization of a Novel Phenoxazinone Dye by use of a Fungal Laccase”, *Journal of Molecular Catalysis B: Enzymatic*, 63, 116-120, (ISSN: 1381-1177), **2010**
- 109.E. BUSI, V. TRAVAGLI, I. ZANARDI, A. GABBRIELLI, **R. BASOSI** “Simulation of EPR spectra as a tool for interpreting the degradation pathway of hyaluronan”, *Applied Magnetic Resonance*, 37, 325-337, (ISSN: 0937-9347), **2010**
- 110.C. BERNINI, A. SINICROPI, **R. BASOSI**, R. POGNI “Tyrosyl Radical in the W164Y Mutant of *P. eryngii* Versatile Peroxidase: an EPR and DFT/PCM study” *Applied Magnetic Resonance*, 37, 279-288, (ISSN: 0937-9347), **2010**

- 111.P. FULINI, E. CECCHINI, A. BALDINI, M. FEDERICI, **R. BASOSI** "An Hydrogen-solar system for zero emission heating and cooling", International Journal of Heat and Technology, 01, 127-132, (ISSN: 0392-8764), **2009**
- 112.F. RUZZENENTI, **R. BASOSI** "Evaluation of the energy efficiency evolution in the European road freight transport sector", Energy Policy, 37, 4079-4085, **2009**
- 113.M. FEDERICI, S. ULGIATI, **R. BASOSI** "Air versus terrestrial transport modalities: an energy and environmental comparison", Energy (ISSN: 0360-5442), 34, 1493-1503, **2009**
- 114.F. RUZZENENTI, **R. BASOSI** "Complexity change and space symmetry rupture", Ecological Modelling (ISSN: E055074), Ecological Modelling, 220, 1880-1885, (ISSN: E055074), **2009**
- 115.M. FEDERICI, D. SPINELLI, **R. BASOSI** "The advantages of the local scale: a pilot biodiesel production line in the Province of Siena, Italy", Proc. of Third Energy Manag. Conf., 37-42, Parma (Italy) June, 4-5, (ISBN: 978-88-6261-088-9), **2009**
- 116.F. RUZZENENTI, M. FEDERICI, **R. BASOSI** "Un approccio teorico al cambiamento di complessità come effetto della rottura di simmetria", Proc. of Third Energy Manag. Conf., 43-48, Parma (Italy) June, 4-5, (ISBN: 978-88-6261-088-9), **2009**
- 117.S. PISTOLESI, A. SINICROPI, R. POGNI, **R. BASOSI**, N. FERRE', M. OLIVUCCI "Modeling the fluorescence of protein-embedded tryptophans with *ab initio* multiconfigurational quantum chemistry: the limiting cases of Parvalbumin and Monellin", THE JOURNAL OF PHYSICAL CHEMISTRY. B, 113, 16082-16090, (ISSN: 1520-6106), **2009**
118. A. SINICROPI, C. BERNINI, **R. BASOSI**, M. OLIVUCCI "A novel biomimetic photochemical switch at work: Design of a photomodulable peptide", Photochem. Photobiol. Sci., 8, 1639-1649, (ISSN: 0031-8655), **2009**
- 119.S. PISTOLESI, L. ROSSINI, E. FERRO, **R. BASOSI**, L. TRABALZINI, R. POGNI "Humanin structural versatility and interaction with model Cerebral Cortex Membranes", Biochemistry, 48 (22), 5026-5033, (ISSN: 0006-2960), **2009**
- 120.F.J. RUIZ-DUENAS, R. POGNI, M. MORALES, S. GIANSAANTI, M.J. MATE, A. ROMERO, M.J. MARTINEZ, **R. BASOSI**, A.T. MARTINEZ "Protein radicals in fungal versatile peroxidase: Catalytic tryptophan radical in both Compound-I and Compound-II and studies on W164Y, W164H and W164S variants" J. BIOL. CHEM., 284(12), 7986-7994, DOI: 10.1074/jbc.M808069200, (ISSN: 0021-9258), **2009**
- 121.G. PREDIERI, D. BELTRAMI, R. PATTACINI, M. L. PARISI, A. SINICROPI, D. VALENSIN, **R. BASOSI**, " Structural studies in solution and in the solid state on the zinc chelate of 2-hydroxy-(4-methylthio) butanoic acid, an effective mineral supplement in animal feeding", INORG CHIM ACTA, 362, 1115-1121, (ISSN: 0020-1693), **2009**
- 122.B. BROGIONI, D. BIGLINO, A. SINICROPI, E. J. REIJERSE, P. GIARDINA, G. SANNIA, W. LUBITZ, **R. BASOSI**, **R. POGNI** "Characterization of radical intermediates in the laccase-mediator systems. A multifrequency EPR, ENDOR, and DFT/PCM investigation", PHYS CHEM CHEM PHYS, 10, 7284-7292, (ISSN: 1463-9076), **2008**
- 123.F. RUZZENENTI, **R. BASOSI**, "The Rebound Effect: an evolutionary perspective", Ecological Economics, 67, 526-537, (ISSN:0921-8009), **2008**
124. A. SINICROPI, E. MARTIN, M. RYASANTSEV, J. HELBING, J. BRIAND, D. SHARMA, J. LEONARD, S. HAACKE, A. CANIZZO, M. CHERGUI, V. ZANIRATO, S. FUSI, F. SANTORO, **R. BASOSI**, N. FERRE', M. OLIVUCCI "An Artificial Molecular Switch that Mimics the Visual Pigment and Completes its Photocycle in Picoseconds", P NATL ACAD SCI, USA, 105, 17642-17647, (ISSN: 0027-8424), **2008**
- 125.S. BANI, I. CIONI, V. MILLARINI, I. CIULLINI, E. FATARELLA, F. BRIGANTI, A. SCOZZAFAVA, S. GIANSAANTI, **R. POGNI**, **R. BASOSI** "Bio-based advanced oxidative process for textile wastewater treatment", BioRemediation Conference, Ed. N. Kalogerakis, F. Fava, S. A. Banwart, 71-74, (ISBN: 978-960-8475-12-0), **2008**
- 126.M. FEDERICI, M. BASILE, R. POGNI, **R. BASOSI** "Environmental and economical advantages of the local scale: a pilot biodiesel production line in the Province of Siena, Italy", First European Workshop on biotechnology for lignocellulose biorefineries, Ed. Mette Maj Norddahl Kirsch, 47, (ISBN: 978-87-7903-347-4), **2008**
- 127.A SINICROPI, **R. BASOSI**, M. OLIVUCCI "Recent Applications of a QM/MM scheme at the CASPT2//CASSCF/AMBER (or CHARMM) level of theory in Photochemistry and Photobiology", Journal of Physics: Conference Series 101, 1-11, (ISSN: 1742-6588), **2008**

- 128.F. RUZZENENTI, **R. BASOSI**, “On the relationship between energy efficiency and complexity: insight on the causality chain”, *International Journal of Design & Nature and Ecodynamics*, 3,2, 95-108, (ISSN: 1755-7437), **2008**
- 129.F. RUZZENENTI, **R. BASOSI**, “The role of the power/efficiency misconception in the rebound effect’s size debate: Does efficiency actually lead to a power enhancement?”, *Energy Policy*, 36(9), 3626-3632,(ISSN: 0301-4215), **2008**
- 130.M. FEDERICI, S. ULGIATI, **R. BASOSI**, “A Thermodynamic, environmental and material flow analysis of the Italian highway and railway transport systems”, *Energy*, 33(5), 760-775, (ISSN: 0360-5442), **2008**
- 131.** R. POGNI, B. BROGIONI, M.C. BARATTO, A. SINICROPI, P. GIARDINA, C. PEZZELLA. G. SANNIA, **R. BASOSI** “Evidence for a Radical Mechanism in Biocatalytic degradation of synthetic dyes by Fungal Laccases mediated by violuric acid”, *BIOCATAL BIOTRANSFORM*, 25, 2-4, 269-275, (ISSN: 1024-2422), **2007**
- 132.M. PEZZATO, G. DELLA LUNGA, M. C. BARATTO, A. SINICROPI, R. POGNI, **R. BASOSI** “The *cis/trans* isomerisation of Cu(II)-bis-(glycinato) complex in solution: a computer aided Multifrequency EPR and DFT/PCM calculations study”, *MAGN RESON CHEM*, 45, 846-849, (ISSN: 0749-1581), **2007**
- 133.R. POGNI, C. TEUTLOFF, F. LENDZIAN, **R. BASOSI** “Tryptophan Radicals as Reaction Intermediates in Versatile Peroxidases: Multifrequency EPR, ENDOR and Density Functional Theory Studies”, *APPL MAGN RESON*, 31, 509-526, (ISSN: 0937-9347), **2007**
- 134.F. LUMENTO, V. ZANIRATO, S. FUSI, E. BUSI, L. LATTERINI, F. ELISEI, A. SINICROPI, T. ANDRUNIOW, N. FERRE’, **R. BASOSI**, M. OLIVUCCI “Quantum Chemical Modelling and preparation of a Biomimetic Photochemical Switch”, *ANGEW. CHEM.*, 47, 3, 414 – 420, (ISSN: 1433-7851), **2007**
- 135.E. BUSI, A. SINICROPI, L. TERZUOLI, E. MARINELLO, **R. BASOSI** “Identification and Structural Characterization of a Transient Radical Species in the Uricase Reaction Mechanism”, *APPL MAGN RESON*, 31, 471-482, (ISSN: 0937-9347), **2007**
- 136.S. PISTOLESI, E. FERRO, A. SANTUCCI, **R. BASOSI**, L. TRABALZINI, R. POGNI, “Molecular motion of spin labeled side chains in the C- terminal domain of RGL2 protein: a SDSL – EPR and MD study”, *BIOPHYS. CHEM.*, 123, 49-57, (ISSN: 0301-4622), **2006**
- 137.M. TEDESCHI, E. BUSI, **R. BASOSI**, L. PADUANO, G. D’ERRICO, “Influence of the Alkyl Tail Length on the Anionic Surfactant-PVP interaction”, *J SOLUT CHEM*, 35, 951-968, (ISSN: 0095-9782), **2006**
- 138.VERDIN, R. POGNI, A. BAEZA, M. C. BARATTO, **R. BASOSI**, R. VAZQUEZ-DUHALT, “Mechanism of versatile peroxidase inactivation by calcium depletion”, *BIOPHYS. CHEM*, 121, 163-170, (ISSN: 0301-4622), **2006**
- 139.**R. POGNI, M. C. BARATTO, C. TEUTLOFF, S. GIANANTI, F. J. RUIZ-DUENAS, T. CHOINOWSKI, K. PIONTEK, A. T. MARTINEZ, F. LENDZIAN, **R. BASOSI**, “A Tryptophan Neutral Radical in the Oxidized State of Versatile Peroxidase from *Plerotus eryngii*: a combined multi-frequency EPR and DFT Study”, *J. BIOL. CHEM.*, 281, 14, 9517-9526, (ISSN: 0021-9258), **2006**
- 140.M. FEDERICI, P. FULINI, E. CECCHINI, **R. BASOSI**, “Hydrogen Production from Renewable and Fossil Energy Sources: An Integrated Thermodynamic Assessment”, *World Renewable Energy Congress IX*, Casa Editrice: Elsevier, Oxford, UK , 387 – 390, (ISBN: 13:978-0-08-045056-8), **2006**
- 141.R. GRANIGLIA, M. FEDERICI, N. GRANIGLIA, **R. BASOSI**, ”Integration of Renewable Energy Production in Historical Downtown Centers: The Case of Siena”, *IX World Renewable Energy Congress*, Elsevier, 142-149, (ISBN: 13:978-0-08-045056-8), **2006**
- 142.M. FEDERICI, D. VERDESCA, **R. BASOSI**, ”Thermodynamic and Economic Analysis of Biomass Energy Recovering Processes. Siena Case Study”, *IX World Renewable Energy Congress*, Elsevier, 313-332, (ISBN: 13:978-0-08-045056-8), **2006**
- 143.**R. BASOSI**, “Uso razionale ed efficiente dell’energia”, in “Pianeta Galileo 2005”, 321-329, (ISBN 88-89365-06-4), **2006**
- 144.**D. VERDESCA, M. FEDERICI, L. TORSSELLO, **R. BASOSI** “Exergy-economic accounting for sea-coastal systems: A novel approach”, *Ecological Modelling*, 193, 132-139, (ISSN: 0304-3800), **2006**

145. **R. BASOSI**, "Il piano energetico/ambientale della Provincia di Siena", Bilancio di Missione 2004, Fondazione Monte dei Paschi di Siena, 32-35, **2005**
146. **R. BASOSI**, D. VERDESCA, "La forza della Regione", "Qualenergia", 5, 60-63, (ISSN: 1590-0193); **2005**
147. **R. BASOSI**, Prefazione a "HyFIAR: Studio di una filiera sostenibile dell'idrogeno ad Arezzo", progetto finanziato dalla Regione Toscana nell'ambito del Piano Regionale di Azione Ambientale e il DOCUP, misura 1.7 "Trasferimento dell'innovazione alle PMI", azione "Reti per il trasferimento tecnologico", Coop. La Fabbrica del Sole (1-98), **2005**
148. **R. BASOSI**, "Prospettive della Politica Energetica: l'Italia dopo Kyoto e verso il terzo millennio", La Chimica e l'Industria, 5, 48-51, (ISSN: 0009-4315), **2005**
149. M. PEREZ-BOADA, F. J. RUIZ-DUENAS, R. POGNI, **R. BASOSI**, T. CHOINOWSKI, M. J. MARTINEZ, K. PIONTEK, A. T. MARTINEZ "Versatile Peroxidase Oxidation of High Redox Potential Aromatic Compounds: Site-directed Mutagenesis, Spectroscopic and Crystallographic Investigation of Three Long-Range Electron Transfer Pathways", J Mol Biol, 354, 385-402, (ISSN: 0022-2836), **2005**
150. A. SINICROPI, T. ANDRUNIOW, N. FERRE', **R. BASOSI**, M. OLIVUCCI "Properties of the emitting State of the Green Fluorescent Protein resolved at the CASPT2//CASSCF/CHARMM Level", J AM CHEM SOC, 127, 11534-11535, DOI:10.1021/ja045269n (ISSN: 0002-7863), **2005**
151. **R. BASOSI**, G. DELLA LUNGA, R. POGNI "Copper Biomolecules in Solution", in "Biomedical EPR- Part A: Free Radicals, Metals, Medicine and Physiology", Kluwer Academic/Plenum Publishers, New York, 385-416, (ISBN: 0-306-48506-0), **2005**
152. R. POGNI, M. C. BARATTO, S. GIANSANTI, C. TEUTLOFF, J. VERDIN, B. VALDERRAMA, F. LENDZIAN, W. LUBITZ, R. VAZQUEZ-DUHALT, **R. BASOSI**, "Tryptophan Based Radical in the Catalytic Mechanism of Versatile Peroxidase from *Bjerkandera adusta*", Biochemistry-USA, 44, 4267-4274, (ISSN: 0006-2960), **2005**
153. A. SINICROPI, F. BARBOSA, **R. BASOSI**, B. GIESE, M. OLIVUCCI "Mechanism of the Norrish-Yang Photocyclization Reaction of an Alanine Derivative in the Singlet State: Origin of the Chiral Memory Effect", Angew. Chem., 44, 2390-2393, DOI:10.1002/anie.200461898, (ISSN: 1433-7851), **2005**
154. E. BUSI, L. TERZUOLI, **R. BASOSI**, B. PORCELLI, E. MARINELLO "EPR Spin Trapping of a Radical Intermediate in the Urate Oxidase Reaction", NUCLEOS NUCLEOT NUCLEIC ACIDS, 23, 8,9, 1131-1134, (ISSN: 1525-7770), **2004**
155. D. SAMPEDRO, A. MIGANI, A. PEPI, E. BUSI, **R. BASOSI**, L. LATTERINI, F. ELISEI, S. FUSI, F. PONTICELLI, V. ZANIRATO, M. OLIVUCCI "Design and photochemical characterization of a biomimetic light-driven Z/E switcher", J AM CHEM SOC, 126, 9349-9359, (ISSN: 0002-7863), **2004**
156. R. POGNI, M.C. BARATTO, S. GIANSANTI, R. VAZQUEZ-DUHALT, **R. BASOSI** "Evidence of two long range electron transfer pathways in the catalytic mechanism of versatile peroxidase from *Bjerkandera adusta*", J PORPHYR PHTHALOCYANINE, 8, 798, (ISSN: 1088-4246), **2004**
157. A. FRAGOSO, M.C. BARATTO, A. DIAZ, Y. RODRIGUEZ, R. POGNI, **R. BASOSI**, R. CAO "Electron Paramagnetic resonance studies on copper(II)-cyclodextrin systems", DALTON TRANS, 1456-1460, (ISSN: 1477-9226), **2004**
158. BUSI E., **BASOSI R.**, PONTICELLI F., OLIVUCCI M. "An Innovative Approach to the Design of Plastic Antibodies: Molecular Imprinting Via a non Polar Transition State Analogue", JMOL CATAL A-CHEM, 217, 31-36, (ISSN: 1381-1169), **2004**
159. M. FEDERICI, B. CENCIONI, N. GRANIGLIA, L. TORSSELLO, **R. BASOSI** "Problematiche per la formazione di una figura tecnica per l'uso razionale ed efficiente dell'energia" Convegno Nazionale "ABITA", Firenze, 20- ottobre 2004 dal titolo "I percorsi della progettazione per la sostenibilita' ambientale", 462-463, (ISBN: 88-8125-882-X), **2004**
160. M. FEDERICI, C. BALOCCO, R. GRANIGLIA, F. RUZZENENTI, D. VERDESCA, **R. BASOSI** "Il ruolo della ricerca scientifica ambientale nella pianificazione energetica", Convegno Nazionale "ABITA" Firenze, 20- ottobre 2004 dal titolo "I percorsi della progettazione per la sostenibilita' ambientale", 100-103, (ISBN: 88-8125-882-X), **2004**
161. C. BALOCCO, S. PAPESCHI, G. GRAZZINI, **R. BASOSI** "Using exergy to analyze sustainability of a built up urban area", Ecological Economics, 48/2, 231-244, **2004**

162. M. PEZZATO, G. DELLA LUNGA, **R. BASOSI** “Development of new Computer Program for simulation of ESR Spectra in the Slow Motion Regime”, *Scienza e Supercalcolo al CINECA*, Report Cineca, 224-227, (ISBN: 88-86037-13-09), **2003**
163. G. DELLA LUNGA, M. PEZZATO, **R. BASOSI** “Computational Analysis of CW-ESR spectra in Liquid Phase Solution”, *Recent Res. Devel. Mol. Phys.*, 1,43-82, (ISBN: 81-7895-113-4), **2003**
164. A.M. TEDESCHI, E. BUSI, L. PADUANO, **R. BASOSI**, G. D'ERRICO “Influence of the headgroup molecular structure on the anionic surfactant-PVP interaction studied by Electron Paramagnetic Resonance of a cationic nitroxide”, *PHYS CHEM CHEM PHYS*, 2, 5077-5083, (ISSN: 1463-9076), **2003**
165. G. DELLA LUNGA, M. PEZZATO, M.C. BARATTO, R. POGNI, **R. BASOSI** “A new program based on Stochastic Liouville Equation for the analysis of Superhyperfine interaction in CW-EPR Spectroscopy”, *J MAGN RESON*, 164/1, 71-77, (ISSN: 1090-7807), **2003**
166. M.C. BARATTO, M. TATTINI, C. GALARDI, P. PINELLI, A. ROMANI, F. VISIOLI, **R. BASOSI**, R. POGNI “Antioxidant activity of galloyl quinic derivatives isolated from *P.lentiscus* leaves”, *FREE RADICAL RES*, 37(4),405-412, (ISSN: 1071-5762), **2003**
167. **R. BASOSI**, Prefazione a “Manuale di valutazione d’impatto economico-ambientale” di Verdesca D., Maggioli Editore, **2003**
168. **R. BASOSI** “La Risorsa Acqua tra scarsità fisica e valore sociale”, *Quaderni del Ponte*, numero speciale “Acqua. Fra incidenza sociale ed efficienza gestionale”, Il Ponte Editore, Firenze, ISBN: 88-88861-08-4, pagg. 39-44, **2003**
169. M. FEDERICI, S. ULGIATI, D. VERDESCA, **R. BASOSI**, “Efficiency and sustainability indicators for passenger and commodities transportation systems. The case of Siena, Italy”, *Ecological Indicators*, 3/3, 155-169, **2003**

- i. Ai sensi e per gli effetti di cui all’art.13 del Dlgs 196 del 30 giugno 2003 (Codice in materia di dati personali) dichiara di essere stato informato che i dati personali raccolti saranno trattati, anche con strumenti informatici, esclusivamente nell’ambito del procedimento per il quale la presente dichiarazione viene resa e che al riguardo mi competono tutti i diritti previsti.

Firenze, October 2022