

UGO FINARDI

RESEARCHER

CNR-IRCrES, Consiglio Nazionale delle Ricerche, Istituto di Ricerca sulla Crescita Economica Sostenibile
(National Research Council of Italy, Research Institute on Sustainable Economic Growth),

Via Real Collegio, 30 I-10024 Moncalieri (TO)

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PRESENT POSITION

CNR-IRCrES (CNR-CERIS until October, 2014)

Researcher

October 2013 - ongoing

ACADEMIC APPOINTMENTS, PROFESSIONAL EXPERIENCE (SELECTED)

Italian University National Scientific Qualification for Associate Professorship in Applied Economics
(obtained November 26th, 2014).

CNR-CERIS, Consiglio Nazionale delle Ricerche, Istituto di Ricerca sull'Impresa e lo Sviluppo
(National Research Council of Italy, Institute for Economic Research on Firms and Growth)

Researcher

September 2012 – August 2013

University of Torino, Department of Chemistry

Research Technician

July 2007 – August 2012

University of Torino, Department of Chemistry and Centre of Excellence NIS-Nanostructured Interfaces and Surfaces

Research Grant (Italian “Assegno di Ricerca”)

“The role of Basic Research in the development of nanomaterials for industrial innovation”

April 2005 – March 2007

EDUCATION (SELECTED)

University of Torino, Italy

Ph.D. in Materials Sciences and Technologies: “Best Practices in Technology/Knowledge Transfer and Innovation: the case of Nanotechnologies and Nanosciences”. Supervisor: Prof. S. Coluccia.

Ph.D. Commission: V. Mangematin (Grenoble École de Management), S. Rolfo (CNR-CERIS),

J. van Bokhoven (ETH Zurich), C. Minero (University of Torino) – November 25th, 2008

University of Torino, Italy

M.Sc. (5-years Italian Laurea), Industrial Chemistry, July 12th, 1996.

Professional qualification exam as Chemist

September 1996; Member of the Chemists' Professional Association of Piemonte and Valle d'Aosta

VISITING PERIODS AT INTERNATIONAL INSTITUTIONS

University of Toronto, Canada

Munk School of Global Affairs

Visiting Professor, May 2014

OTHER ACADEMIC AFFILIATIONS

University of Torino, Italy

Department of Chemistry

Research Associate, August 2012 – August 2014

CNR-CERIS

Research Associate, June 2010 – July 2012

University of Torino, NIS-Nanostructured Interfaces and Surfaces Centre of Excellence

Member, Technology Transfer delegate, April 2007-March 2009

Member, April 2009 – October 2013

SCIENTIFIC PUBLICATIONS

Articles published in International Refereed Journals

- U. Finardi** and S.M. Breznitz, “*Factors Affecting University Commercialization: Evidence from Italy*”, *Ekonomiaz, in press*.
- U. Finardi** and A. Buratti, “*Scientific collaboration framework of BRICS Countries: an analysis of international coauthorship*”, *Scientometrics*, Vol. 109 No. 1, pp. 433-446, doi:10.1007/s11192-016-1927-0 (corresponding author).
- U. Finardi**, “*Scientific collaboration between BRICS Countries*”, *Scientometrics*, Vol. 102 No. 2, 2015, pp. 1139-1166, doi:10.1007/s11192-014-1490-5.
- S. Rolfo and **U. Finardi**, “*University Third mission in Italy: organization, faculty attitude and academic specialization*”, *The Journal of Technology Transfer*, Vol. 39 No.3, 2014, pp.472-486, doi:10.1007/s10961-012-9284-5 (corresponding author).
- U. Finardi**, “*On the time evolution of received citations in scientific fields: an empirical study*”, *Journal of Informetrics*, Vol. 8 No. 1, 2014, pp. 13-24, doi:10.1016/j.joi.2013.10.003.
- U. Finardi**, “*The Technological Paradigm of Nano Sciences and Technologies: a study of science-technology time and space relations*”, *Economía: teoría y práctica*, Vol. 39, 2013, pp. 11-29.
- M. Coccia and **U. Finardi**, “*New technological trajectories of non-thermal plasma technology in medicine*”, *International Journal of Biomedical Engineering and Technology*, Vol. 11 No. 4, 2013, pp. 337-356, doi:10.1504/IJBET.2013.055665 (corresponding author)
- U. Finardi**, “*Correlation between Journal Impact Factor and Citation Performance: an experimental study*”, *Journal of Informetrics*, Vol. 7 No. 2, 2013, pp. 357-370, doi:10.1016/j.joi.2012.12.004.
- U. Finardi**, “*Clustering research, education and entrepreneurship: Nanotech innovation at MINATEC in Grenoble*”, *Research-Technology Management*, Vol. 56 No. 1, 2013, pp. 16-20, doi:10.5437/08956308X5601040.
- M. Coccia and **U. Finardi**, “*Emerging nano-technological research for future pathways of biomedicine*”, *International Journal of Biomedical Nanoscience and Nanotechnology*, Vol. 2 No. 3-4, 2012, pp. 299-317, doi:10.1504/IJBNN.2012.051223 (corresponding author).
- U. Finardi** and S. Sprio, “*Human bone regeneration from wood: a novel hierarchically organized nanomaterial*”, *International Journal of Healthcare Technology and Management*, Vol. 13 No. 4, 2012, pp. 171-183, doi:10.1504/IJHTM.2012.050617 (corresponding author).
- M. Coccia, **U. Finardi** and D. Margon, “*Current trends in nanotechnology research across worldwide geo-economic players*”, *The Journal of Technology Transfer*, Vol. 37 No. 5, 2012, pp. 777-787 doi:10.1007/s10961-011-9219-6, (corresponding author).
- U. Finardi**, “*Time relations between scientific production and patenting of knowledge. The case of nanotechnologies*”, *Scientometrics*, Vol. 89 No. 1, 2011, pp. 37-50, doi:10.1007/s11192-011-0443-5.
- G. Centi, G. Cerrato, S. D’Angelo, **U. Finardi**, E. Giamello, C. Morterra, S. Perathoner, “*Catalytic behavior and nature of active sites in copper-on-zirconia catalysts for the decomposition of N₂O*”, *Catalysis Today*, Vol. 27 No. 1-2, 1996, pp. 265-270, doi:10.1016/0920-5861(95)00197-2

Chapters published in International Refereed Books

- U. Finardi** and S. Rolfo, “*Spin-off creation in a National Research Institution: technological and industrial implications*”, in “*University Evolution, Entrepreneurial Activity and Regional Competitiveness*”. D. B. Audretsch, E. E. Lehmann, M. Meoli and S. Vismara, (Eds.), Springer, 2015; ISBN 978-3-319-17712-0 ISBN 978-3-319-17713-7 (eBook); DOI 10.1007/978-3-319-17713-7; No 32 of “*International Studies in Entrepreneurship*”, Z.J. Acs and D.B. Audretsch (Series editors); ISSN 1572-1922; ISSN 2197-5884 (electronic) (corresponding author).
- U. Finardi**, “*Nanotechnologies and Nanosciences in Pacific Asia: a comparative study of China, Japan and South Korea scientific production*”, in: “*Nanotechnology: Recent Trends, Emerging Issues and Future Directions*”, N. Islam (Ed.), Nova Science Publisher, New York, USA, 2014, ISBN: 978-1-63117-561-9 (press), 978-1-63117-567-1 (e-book).
- U. Finardi**, “*Nanosciences and nanotechnologies: evolution trajectories and disruptive features*”, in: *Disruptive Technologies, Innovation and Global Redesign: Emerging Implications*, N. Ekeke and N. Islam (Eds.), IGI Global, Hershey, PA 17033, USA, 2012, ISBN 9781466601345, doi:10.4018/978-1-4666-0134-5.ch007.
- M. Coccia, **U. Finardi** and D. Margon, “*Nano Research Trends of Critical Scientific Fields Across Leading Worldwide Geo-Economic Players and Their Spatial Interactions*”, in: *New Technologies: Trends, Innovations and Research*, C. Volosencu (Ed.), InTech, Rijeka 2012, ISBN 978-953-51-0480-3 doi: 10.5772/34312 (corresponding author).
- G. Centi, G. Cerrato, S. D'Angelo, **U. Finardi**, E. Giamello, C. Morterra, S. Perathoner, “*Reactivity, stability and characterization of Cu-ZrO₂ catalysts for the decomposition of N₂O in industrial effluents*”, in: *Environmental catalysis: for a better world and life*, G. Centi, S. Perathoner, C. Cristiani, P. Forzatti, (Eds.), EFCE Publications Series Vol. 112, pp. 175-178, Roma 1995, ISBN 88-86208-02-2.

Publications in National Refereed Series

- C. Bruno, **U. Finardi**, A. Lorite-Espejo, E. Ragazzi, “*Emerging costs deriving from blackouts for individual firms: evidence from an Italian case study*”, Quaderni IRCrES, n° 1/2016 (corresponding author).
- U. Finardi**, “*Insights on the efficiency of Embodied Knowledge Transfer: results from a localized initiative*”, CNR-CERIS Working Paper Series, n° 19/2014.
- M. Coccia and **U. Finardi**, “*Emerging scientific directions in plasma technology for food decontamination*”, CNR-CERIS Working Paper Series, n° 3/2013.
- M. Coccia and **U. Finardi**, “*Evolutionary growth of knowledge and new technological directions of non-thermal plasma technology in medicine*”, CNR-CERIS Working Paper Series, n° 2/2013.
- M. Coccia and **U. Finardi**, “*Groundbreaking technological applications of nanotechnology in biomedicine: detecting emerging pathways from scientific and technological outputs*”, CNR-CERIS Working Paper Series, n° 7/2012.
- U. Finardi**, “*Asian tigers in nanotechnology: evolutionary path of scientific production of People’s Republic of China, Japan and South Korea*”, CNR-CERIS Working Paper Series, n° 5/2011.
- U. Finardi**, “*Temporal and spatial relations between patents and scientific journal articles: the case of nanotechnologies*”, CNR-CERIS Working Paper Series, n° 7/2010.
- M. Coccia, **U. Finardi** and D. Margon, “*Research trends in nanotechnology studies across geo-economic areas*”, CNR-CERIS Working Paper Series, n° 5/2010.
- U. Finardi** and G. Vitali “*Il cluster delle nanotecnologie in Piemonte*” (“*Nanotechnology cluster in Piedmont*”), CNR-CERIS Working Paper Series, n° 10/2009.
- “*CERIS-CNR Working Papers*” and “*Quaderni IRCrES*” series of monographs undergo double peer review; “*CERIS-CNR Working Papers*” have ISSN 1591-0709 (print), 2036-8216 (online) and are indexed on the RePEc database.

Books

G. Caputo, C.G. Cortese, F. Emanuel, **U. Finardi**, C. Ghislieri, S. Coluccia, “*Nanotecnologie: cosa sono e come ce le immaginiamo - Nanotechnologies: what they are and how we do imagine them*”, Araba Fenice, Boves 2009. ISBN 978-88-9585-353-6

Contributions in Congress Proceedings – published or online

U. Finardi and A. Buratti, “*Drivers of scientific international collaborations: strong inter-Country coauthorship*”, 2017 Annual Conference of the Eu-SPRI Forum: “The Future of STI – The Future of STI Policy”. *Accepted*

U. Finardi, “*Citation trends and scientific fields: an empirical analysis*”, in “Translational twists and turns: Science as a socio-economic endeavour”, Proceedings of STI 2013 Berlin, 18th International Conference on Science and Technology Indicators, Berlin, September 3rd-6th, 2013, pp. 531-535; ISSN 1864-2799

U. Finardi, M. Coccia, “*Evolutionary growth of knowledge and new technological directions of non-thermal plasma technology in medicine*”, 2013 Eu-SPRI Forum Conference, Madrid, <http://www.euspri-madrid2013.org/pdf/1076.pdf>

M. Coccia, **U. Finardi** and D. Margon, “*Evolutionary trends in nanotechnology studies across worldwide economic players*”, EMAEE 2011: 7th European Meeting on Applied Evolutionary Economics, “Evolutionary Perspectives on Technical Change and Industrial Dynamics”, Pisa, http://www.lem.sssup.it/WPLem/documents/papers_EMAEE/coccia.pdf

S. Coluccia, E. Gianotti, **U. Finardi**, G. Martra, L. Marchese, “*Microcrystalline Materials: from Catalysis to Nanocomposites*”, Proceedings of the 40th IUPAC Congress “Innovation in Chemistry”, Beijing, August 14th-19th, 2005

Working Papers

U. Finardi, “*Nanotechnologies for textiles, fabrics and clothing: an overview of the scientific literature on the topic*”, Working Paper CNR-IRCrES No. 3/2015; ISSN (print): 2421-6798; ISSN (on line): 2421-7158.

Other non-refereed research works: technical reports, research reports, web pages.

U. Finardi, “*Una nota sulla produzione scientifica del CNR*”, News CNR, March 2015, <https://www.cnr.it/it/news/6023/una-nota-sulla-produzione-scientifica-del-cnr>

G. Calabrese, **U. Finardi**, E. Ragazzi, “*Cost analysis of standard implementation in the SCADA Systems of electric critical infrastructures*”, N° 53, CNR-CERIS Technical Report Series, Special ESSENCE series on security standards for critical infrastructures (E.U. CIPS Project “Essence”); Moncalieri, ISSN online:2282-5665; http://www.ceris.cnr.it/ceris/rt/RT_53.pdf

C. Bruno, G. Abrate, H. Bartoszewicz-Burczy, A. Cortes, A. Diu Masterferr, E. Doheijo, F. Erbetta, G. Falavigna, **U. Finardi**, G. Fraquelli, L. Guidi, A. Lorite-Espejo, V. Moiso, D. Pestonesi, E. Ragazzi, T. Wlodarczyk, “*Benefit analysis. Assessing the cost of blackouts in case of attack. Evaluation based on Italian and Polish case studies*”, N° 52, 2014, CNR-CERIS Technical Report Series, Special ESSENCE series on security standards for critical infrastructures (E.U. CIPS Project “Essence”); Moncalieri, ISSN online:2282-5665; http://www.ceris.cnr.it/ceris/rt/RT_52.pdf

U. Finardi, E. Ragazzi, A. Stefanini, “*Considerations on the implementation of SCADA standards on critical infrastructures of power grids*”, N° 47, 2013, CNR-CERIS Technical Report Series, Special ESSENCE series on security standards for critical infrastructures (E.U. CIPS Project “Essence”); Moncalieri, ISSN online:2282-5665; http://www.ceris.cnr.it/ceris/rt/RT_47.pdf.

U. Finardi, “*Mars dusts: morphology, chemistry, possible effects on man-made equipment and their prevention methods*”, Research Report (confidential), STEPS Project, Piattaforma Aerospazio Regione Piemonte; Torino, September 2010

G. Calderoni, **U. Finardi**, G. Ricchiardi, “*Overview of ongoing experiments and other activities*”, Research Report (confidential), STEPS Project, Piattaforma Aerospazio Regione Piemonte; Torino, June 2010

G.P. Vitali (Ed.), G. Calabrese, G. Corio, **U. Finardi**, A. Manello, E. Ragazzi, A. Ressico, S. Rolfo, P. Saracco, “*Le caratteristiche socio-economiche dei cluster di imprese in Piemonte*” (“Socio-economic characters of enterprise clusters in Piedmont”), CNR-CERIS Research Report for Regione Piemonte; Torino, June 2008; http://www.regione.pmn.it/industria/dwd/ceris_cnr.pdf

CONTRIBUTIONS TO CONGRESSES, WORKSHOPS AND SCHOOLS (SELECTED)

Aldo Geuna, Cornelia Lawson, **Ugo Finardi**: “Competitive funding, gender and teaching: scientists’ productivity at a top italian university”, Druid 2017, New York (USA), June 12-14, 2017

“*Development of a new open source research infrastructure network for agricultural data sharing*”, S. Abbà, M. Vallino, M. Ciuffo, P. Caciagli, G. Birello, A. Perin, I. Bianco, **U. Finardi**, poster contribution to EFSA/EPPO Joint Workshop “Data collection and information sharing in plant health”, Parma (Italy), April 1st – 3rd, 2014

“*Spin-off creation in a National Research Institution: technological and industrial implications*”, **U. Finardi**, S. Rolfo, Technology Transfer Society (T²S) 2013 Annual Conference “Technology Transfer, Entrepreneurial Activity and Regional Competitiveness”, Bergamo (Italy), November 8th-9th, 2013

“*Evolutionary growth of knowledge and new technological directions of non-thermal plasma technology in medicine*”, **U. Finardi**, M. Coccia, 2013 EuSPRI Forum Conference “Management of Innovation Policies”, Madrid (Spain), April 11th-13th, 2013

“*Nanotechnologies in Pacific Asia: scientific production of People's Republic of China, Japan and South Korea*”, **U. Finardi**, EuSPRI Conference “Path - breaking innovation. Understanding, managing and providing support for continuous radical change in science and innovation”, Milan, (Italy), Politecnico di Milano, June 27th-29th, 2012

“*Organizational and behavioural differences in Technology Transfer between generalist and specialized universities*”, **U. Finardi**, S. Rolfo, Technology Transfer Society (T²S) Meeting “Technology Transfer in a Global Economy”, Augsburg (Germany), University of Augsburg, September 21st-23rd, 2011

“*Il cluster delle nanotecnologie in Piemonte*” (“Nanotechnology cluster in Piedmont”), **U. Finardi**, G. Vitali, 22nd Congress of the Italian Regional Sciences Association, “The role of towns in knowledge economy”, Turin (Italy), Politecnico di Torino, September 15th-17th, 2011

“*Time-space analysis of scientific citations in patents: science-innovation links in the nano-technological paradigm*”, **U. Finardi**, 6th Annual Conference of the EPIP Association “Fine-Tuning IPR debates”, Brussels (Belgium), ULB - Université Libre de Bruxelles, September 8th-9th, 2011

“*Evolutionary trends in nanotechnology studies across worldwide economic players*”, M. Coccia, **U. Finardi** and D. Margon, EMAEE 2011: 7th European Meeting on Applied Evolutionary Economics “Evolutionary Perspectives on Technical Change and Industrial Dynamics”, Pisa (Italy), Sant’Anna School of Advanced Studies, February 14th-16th, 2011

“*Science and technology offer in Piedmont: potentialities and perspective in Technology Transfer from Public Research to Innovation*”, **U. Finardi**, “PRIME Winter School on Emerging Nanotechnologies”, Grenoble (France), February 4th-9th, 2008.

“*Science and Technology in Piedmont: from Public Research to innovation*” (poster), **U. Finardi**, “PRIME Winter School on Science and Technology Indicators in the Move Towards the ERA”, Rome (Italy), CNR-CERIS, November 5th-9th, 2007

COLLABORATION IN RESEARCH PROJECTS

“RITMARE” CNR Flagship project: researcher, since September 2015

“BENTHIS - Benthic ecosystem fisheries Impact Study” (FP7-KBBE): researcher, since September 2015

Progetto Premiale CNR “Fabbrica del Futuro”: researcher, years 2015-2016

FA COST Action TD1203 “Food waste valorisation for sustainable chemicals, materials & fuels (EUBis)”: component of Work Group 4 “Technical and Sustainability Assessment/Policy Analysis” since April 2014.

- “Modelli di collaborazione con le industrie e mappa delle competenze tecnologiche CNR” (“Models of Collaboration with Industries and layout of CNR technology expertise”), research project financed by CNEL (National Italian Council for Economics and Work): senior researcher, years 2013-2015.
- “FM-Biased - Formal Methods: Business Impact of Application to SEcurity relevant Devices” (EU CIPS Programme): researcher, years 2013 – 2015.
- “ESSENCE - Emerging security standards to the EU Power Network Controls and other Critical Equipment” (EU CIPS Programme): researcher, years 2012 – 2014.
- “SMAT F1-Sistema di Monitoraggio Avanzato del Territorio”, (Advanced Territory Monitoring System) (Financed by Aerospace Technological Platform of Regione Piemonte): researcher, years 2010 – 2012.
- “STEPS-Sistemi e Tecnologie per l'Esplorazione Spaziale”, (Systems and Technologies for Space Exploration) (Financed by Aerospace Technological Platform of Regione Piemonte): researcher, years 2010 – 2012.
- Collaborative project between Environment Park Torino - University of Torino - University “Hassan II” of Settat (Morocco) (financed by Regione Piemonte): management attaché, researcher, years 2007 – 2008.
- “Nanomat – Innovation through Nanotechnologies” (Technology Transfer project funded by Regione Piemonte via E.U. Funds): member of the Operational Committee (Delegate of the Department of Chemistry, University of Torino), years 2007 – 2008.
- “NIS-Centre of Excellence” (research centre project financed under Italian Government project financing “COFINLAB 2001”): research grand holder, Technology Transfer delegate, years 2005 – 2007.

OTHER RESEARCH COLLABORATIONS

- Trustech Srl, Torino: production of a report on nanotechnologies in Piedmont for CEIP – Centro Estero per l'Internazionalizzazione, November 2009
- ITP – Invest in Turin and Piedmont, Torino: production of a report on nanotechnologies in Piedmont, January-February 2005

SCHOOLS AND COURSES ATTENDED

- “PRIME Winter School on Emerging Nanotechnologies”, Grenoble (France), February 4th-9th, 2008.
- “PRIME Winter School on Science and Technology Indicators in the Move Towards the ERA”, Rome (Italy), CNR-CERIS, November 5th-9th, 2007

GRANTS, AWARDS AND SCHOLARSHIPS

- May 2014, CNR Short Term Mobility Program “Hi-tech clusters and University Technology Transfer: theoretical approach and industrial implications”: scholarship awarded for a visiting professorship at Munk School of Global Affairs, University of Toronto, Canada (official CNR Project).

JOURNAL REVIEWER FOR:

- Scientometrics;
- JASIST - Journal of the Association for Information Science and Technology;
- Research Policy;
- Structural Change and Economic Dynamics;
- Technological Forecasting & Social Change;
- Journal of Informetrics;
- R&D Management;
- Technology Analysis & Strategic Management;
- International Journal of Technology Management;
- Technology in Society;

Health Policy and Technology;
International Journal of Public Administration;
International Journal of Automotive Technology and Management;
International Journal of Healthcare Technology and Management;
International Journal of Entrepreneurship and Innovation Management;
International Journal of Services Technology and Management;

ORGANIZATION OF CONFERENCES AND SEMINARS

NIS – Centre of Excellence congress series “NIS Colloquia”: managing attaché, years 2005 – 2006 – 2007 (for a total of 20 1- and 2-days congresses).

VIII AIZ Congress, National Conference on Science and Technology of Zeolites, Turin, July 1st - 4th, 2007: member of the Local Organizing Committee

ACTIVITIES AS A SCIENTIFIC JOURNALIST AND SCIENCE WRITER

Freelance journalist, admitted in 2009 as a member of the National Association of Journalists; scientific journalist, admitted in 2010 as a member of UGIS, Italian Union of Scientific Journalists (associate to EUSJIA, European Union of Science Journalists' Associations).

Steady and occasional collaborations (articles and columns) with national and regional newspapers and magazines: columnist for the magazine “Giovani Genitori” since 2006; past collaborations with “Tuttoscienze - La Stampa”, “L’Indice dei libri del mese”; author of books and book chapters.

Scientific popularization books and book chapters

U. Finardi, “*Cosa sono le nanotecnologie?*”, Editorial Intangibile, Valencia (ES) 2012.

ISBN 978-84-939568-3-7

(spanish translation: “*¿Qué son las nanotecnologías?*”, ISBN 978-84-939568-4-4) (ebook)

U. Finardi, “*Cosa è il Trasferimento Tecnologico?*” Editorial Intangibile, Valencia (ES), 2012.

ISBN 978-84-939568-6-8

(spanish translation: “*¿Que es la transferencia tecnologica?*”, ISBN 978-84-939568-7-5) (ebook)

G. Rigamonti and **U. Finardi**, “*Per ridurre la coca alla fonte, lavorare la terra in sintonia con la foresta*”, in “Un mare di coca”, S. Calvani (Ed.), In Dialogo, Milano 1998, ISBN 88-8123-099-2

U. Finardi, “*Dalla foglia di coca alla cocaina*”, in: “L’altra faccia della coca”, AA.VV., Ed. Arti Grafiche San Rocco, Grugliasco (TO), 1998

LINGUISTIC SKILLS

Mother language: Italian; proficient in English; independent in French

Qualifications: The Trinity College of London, GESE (Graded Examinations in Spoken English) - level 9 (intermediate top level) – year 1994