



Sassari, February 10, 2021

Introduction

I was born in Italy (December 10, 1974). I am married (nurse) and a father of two kids of 8 and 5 years old. I am a soil scientist with several experiences in national and international soils research projects and activities. My main scientific activities are related to: soils genesis and development; genesis and classification of anthropogenic (human-altered and human-transported, or HAHT) soil; potentially toxic elements (PTE) behavior into the soil environment; pedotechnical treatments (soil rebuilding) of degraded soils; applications of zeolitized tuff into the soil environment; waste reuse into the soil environment as amendment fertilizers; socio-cultural soil science (ethnopedology).

1) Education/Training

- 2005: PhD in Soil defense and conservation, environmental vulnerability and hydrogeological protection (University of Cagliari);
- 2001: Master's degree in Environmental Impact Assessment (University of Sassari);
- 2001: Training course in Cumulative Impact Assessment (E.I.A. Training SA, Dallas, Texas, U.S.A.);
- 2000: Master's degree in Vegetation analysis: survey and elaboration of data on flora, vegetation and soil (Marche Polytechnique University);
- 1998: Degree in Environmental Science, *cum lode* (University of Sassari).

2) Professional experience, service, and academic activities

- From December 2019: Associate Professor in Soil Science/Pedology, Department of Architecture, Design and Urban Planning, University of Sassari;
- October 2018: National Scientific Habilitation (ASD) for Associate Professor obtained by a Commission composed of 5 Top Scientists in the field of "Soil Science". Final judgment: 5 on



5 member judged me as habilitated for the position of Associate Professor, finally judging my CV as “excellent”;

- From October 2006 till to October 2019: Resarcher and Aggregate Professor in Soil Science/Pedology, Department of Architecture, Design and Urban Planning, University of Sassari;

Teaching activities (From Academic Year 2007/2008 uninterruptedly till to now):

- Soil Science-Pedology (Degree course in Environmental and Forest Science (bachelor); Degree course in Natural Science (bachelor and master); Degree Course in Urban and Landscape Planning (bachelor);
- Soil survey (Degree course in Environmental and Forest Science (bachelor));
- Applied Soil Science (Degree course in Land and Environmental Management (master);
- Soil Project (Degree course in Urban and Landscape Planning (master)).

From 2006 uninterruptedly served as teacher and member of several PhD Schools. During the last 3 years, I was and currently are member of the PhD School in “Architecture and Environment” at the University of Sassari.

3) Ten most relevant scientific results

1. **CAPRA G. F.**, DURAS M. G., VACCA S., GRILLI E., BUONDONNO A., 2013. Issues concerning soils treated with wastewater: Pedotechnical management with zeolitized tuffs as an option for turning N and P pollutants into potential fertilizers. *Microporous and Mesoporous Materials*, 167: 22–29;

2. BUONDONNO A., **CAPRA G. F.**, COPPOLA E., DAZZI C., GRILLI E., ODIERNA P., RUBINO M., VACCA S., 2014. Aspects of soil phenolic matter (SPM): An explorative investigation in agricultural, agroforestry, and wood ecosystems. *Geoderma* 213: 235–244.



3. GUERRINI I. A., CROCE C. G. G., BUENO O. C., JACON C. P. R. P., NOGUEIRA T. A. R., FERNANDEZ D. M., GANGA A., **CAPRA G. F.**, 2017. Composted sewage sludge and steel mill slag as potential amendments for urban soils involved in afforestation programs. *Urban Forestry & Urban Greening*, 22: 93–104.
4. ABREU-JUNIOR C. H., FIRME L. P., MALDONADO C. A. B., DE MORAES NETO S. P., ALVES M. C., MURAOKA T., BOARETTO A. E., GAVA J. L., HE Z., NOGUEIRA T. A. R., **CAPRA G. F.**, 2017. Fertilization using sewage sludge in unfertile tropical soils increased wood production in Eucalyptus plantations. *Journal of Environmental Management*, 203: 51–58.
5. NOGUEIRA T. A. R., ABREU-JUNIOR C. H., FIRME L. P., ALLEONI L. R. F., HE Z., SOARES M. R., VIEIRA C. D., LESSA L. G. F., **CAPRA G. F.**, 2018. Background concentrations and quality reference values for some potentially toxic elements in soils of São Paulo State, Brazil. *Journal of Environmental Management* 221: 10–19.
6. ANTONIO LEITE FLORENTINO, ALEXANDRE DE VICENTE FERRAZ, JOSÈ LEONARDO DE MORAES GONÇALVES, VERONICA ASENSIO, TAKASHI MURAOKA, CARLOS TADEU DOS SANTO DIAS, THIAGO ASSIS RODRIGUES NOGUEIRA, **GIAN FRANCO CAPRA**, CASSIO HAMILTON ABREU-JUNIOR (2019). Long-term effects of residual sewage sludge application in tropical soils under Eucalyptus plantations. *JOURNAL OF CLEANER PRODUCTION* 220: 177-187.
7. CASSIO HAMILTON ABREU-JUNIOR, MARIA JULIA DE LIMA BROSSI, REGINA TERESA MONTEIRO, PAULO HENRIQUE SILVEIRA CARDOSO, THAYS DA SILVA MANDU, THIAGO ASSIS RODRIGUES NOGUEIRA, ANTONIO GANGA, PETER FILZMOSE, FERNANDO CARVALHO DE OLIVEIRA, LUCIA PITTOL FIRME, ZHENLI HE, **GIAN FRANCO CAPRA** (2019). Effects of sewage sludge application on unfertile tropical soils evaluated by multiple approaches: A field experiment in a commercial Eucalyptus plantation. *SCIENCE OF THE TOTAL ENVIRONMENT* 655: 1457–1467.
8. FILIPPO GIADROSSICH, DENIS COHEN, MASSIMILIANO SCHWARZ, ANTONIO GANGA, ROBERTO MARROSU, MARIO PIRASTRU, **GIAN FRANCO CAPRA**, 2019.



Large roots dominate the contribution of trees to slope stability. *EARTH SURFACE PROCESSES AND LANDFORMS* 44: 1602–1609.

9. VINICIUS EVANGELISTA SILVA, THIAGO ASSIS RODRIGUES NOGUEIRA, CASSIO HAMILTON ABREU-JUNIOR, ZHENLI HEE, SALATIER BUZETTI, JEAN-PAUL LACLAU, MARCELO CARVALHO MINHOTO TEIXEIRA FILHO, ELEONORA GRILLI, ILENIA MURGIA, **GIAN FRANCO CAPRA**, 2020. Influences of edaphoclimatic conditions on deep rooting and soil water availability in Brazilian Eucalyptus plantations. *Forest Ecology and Management*, 455: 117673.

10. ANGELO MANCA, MAGALI RIBEIRO DA SILVA, IRAÊ AMARAL GUERRINI, DIRCEU MAXIMINO FERNANDES, ROBERTO LYRA VILLAS BÔAS, LAURA CLETO DA SILVA, ALINE CÁSSIA DA FONSECA, MARIA CHIARA RUGGIU, CAIO VILELA CRUZ, DEICY CAROLINA LOZANO SIVISACA, CAROLINE DE MOURA D'ANDRÉA MATEUS, ILENIA MURGIA, ELEONORA GRILLI, ANTONIO GANGA, **GIAN FRANCO CAPRA**, 2020. Composted sewage sludge with sugarcane bagasse as a commercial substrate for *Eucalyptus urograndis* seedling production. *JOURNAL OF CLEANER PRODUCTION* 269: 122145.

4) Current research grants awarded by any agency or company to the researcher

- Research project L.R. 7/2007 (Basic and applied research projects), Title: "Sustainable agronomic management of Mediterranean Agroecosystems: eco-hydrological processes and ecosystems services"; Main founder: Sardinia Region, Italy; Coordinator: Prof. Pier Paolo Roggero (University of Sassari); Total available funds: 110.00 euro; Rule of Prof. Capra: main investigator for all soil aspects; Started: September 2019.
- PRIN: Research projects of national relevance, Title: "Role of soil-plant-microbial interactions at rhizosphere level on the biogeochemical cycle and fate of contaminants in agricultural soils under phytoremediation with biomass crops (RIZOBIOREM)"; Main funder: Italian Ministry of Research and University; Coordinator: Prof. Massimo Fagnano (University of Napoli); Total available funds: 1.199.090,98 euro; Rule of Prof. Capra:



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Responsible for Working Packages 5.2 “CAPACITY BUILDING” and main investigator for all soil aspects; Started: September 2019.

- ERASMUS + Cooperation for innovation and the exchange of good practices, KA203 - Strategic Partnerships for higher education, Title: "SYStem-Share your soils"; Main funder: European Commission; Coordinator: Prof. Marcin Switoniak (Copernicus University of Torun, Poland); Total available funds: 352.761,00 euro; Rule of Prof. Capra: Responsible for Italian Units; Started: November 2019.

5) List of ongoing supervisions, with students holding fellowships

- Ilenia Murgia, PhD student, “Architecture and Environment” PhD School – Department of Architecture, Design and Urban Planning: Fund amount: 83.000 euro (Industrial PhD);
- Antonio Ganga, Post-Doc Student, Department of Architecture, Design and Urban Planning: Fund amount: 5.000 euro;
- Ludmila Ribeiro Roder, PhD student, “Architecture and Environment” PhD School – Department of Architecture, Design and Urban Planning: Fund provenience: UNISS found for foreign students;

6) Academic quantitative indicators.



Scopus

Capra, Gian Franco

① [Università degli Studi di Sassari, Sassari, Italy](#)

SC 26434631800 ① [Connect to ORCID](#)

Metrics overview

31

Documents by author

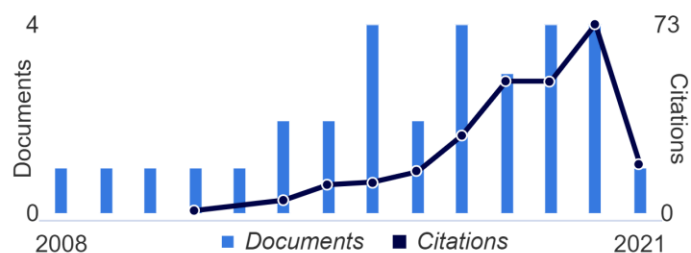
269

Citations by **199 documents**

11

h-index:

Document & citation trends



Mean values for Italian Associate Professors belonging to the same scientific field (Pedology, https://abilitazione.miur.it/public/documenti/2018/Tabelle_Valori_Soglia_ALLEGATI_DM_589_2018.pdf; Sector code: 07/E1-AGR/14):

- Number of publications in the last 5 years: 8 (Prof. Capra: 18)
- Number of citations in the last 10 years: 65 (Prof. Capra: 266)
- H-index calculated according the last 10 years: 4 (Prof. Capra: 11)

Mean values for Italian Ordinary Professors belonging to the same scientific field (Pedology, https://abilitazione.miur.it/public/documenti/2018/Tabelle_Valori_Soglia_ALLEGATI_DM_589_2018.pdf; Sector code: 07/E1-AGR/14):

- Number of publications in the last 10 years: 19 (Prof. Capra: 31)



- Number of citations in the last 15 years: 248 (Prof. Capra: 269)
- H-index calculated according the last 15 years: 8 (Prof. Capra: 11)

7) Additional information

Amount of:

1. books: 3;
2. book chapters: 22;
3. supervised and concluded Bachelor and Master's dissertations: 28;
4. supervised and concluded Doctoral theses: 7;
5. supervised Doctoral theses (still active): 2;

8) Links to the webpages

- ORCID: <https://orcid.org/0000-0001-9208-5061>
- Researchgate: https://www.researchgate.net/profile/Gian_Franco_Capra
- Publons: <https://publons.com/researcher/1385517/gian-franco-capra-phd/>
- UNISS: http://www.architettura.uniss.it/eng/People/Professors-researchers/Gian-Franco_Capra

Gian Franco Capra