

Curriculum Vitae

Rudy Rossetto

**ASSISTANT PROFESSOR**

Pisa, 14/07/2020



## **Rudy Rossetto**

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*Affiliation*

Institute of Life Sciences, Scuola Superiore Sant'Anna

### ***Personal Information***

*Birthdate:* 13/04/1972

*Born in:* Pisa –Italy

*Citizenship:* Italian

*Languages:* Italian, English, German

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Cover picture: The LIFE REWAT two-stage infiltration basin in full operation

Photo © Rudy Rossetto

## INDEX

<b>Education</b>	4
<b>Research areas</b>	4
Research experience	5
<b>Research projects</b>	
International	6
National	7
Technological transfer projects	8
Set-up of research infrastructures	9
<b>Academic teaching</b>	9
Membership of PhD programme board	10
Supervision of PhD students	10
Tutorship of PhD students	10
Past academic teaching	11
Capacity building activities	11
<b>Research products</b>	
Software	12
Scientific publications	
Author's output	13
Scientific Publications indexed in SCOPUS/WoS core collection	13
Peer- reviewed (not indexed) scientific publications	16
Conference abstracts	
International conferences	17
National conferences	22
Other publications	26
<b>Invited talks</b>	
International events	27
National events	27
<b>Organisation of International and National workshops</b>	29
<b>Scientific committee of conferences and chaired sessions</b>	29
<b>Editorship, memberships and networking</b>	31
<b>Prize and honors</b>	31
<b>Research Outreach</b>	
Science Communication Books	32
Press mentions and TV	32

**EDUCATION**

**PhD in Engineering Geology** (2001-2005), University of Siena -Italy

**MSc in Geoenvironmental Engineering** (2005), School of Civil Engineering, Cardiff University - UK

**Specialization in Geological and Geoenvironmental Risk Assessment and Mitigation** (2001), University of Florence - Italy

**MSc in Earth Science** (1999), University of Pisa - Italy

**RESEARCH AREAS**

I run interdisciplinary hydrological research at the boundary of agronomy, engineering, geoscience and informatics, focusing on the water-food-energy nexus in the framework of climate change.

My research mission is to devise innovative ways to sustainable water resources management developing theoretical and applied approaches bringing them to the real world. To achieve the research goals I carry out experimental field activities and data analysis using statistical and numerical methods, linking the digital to the physical world of water and climate.

Main research areas and related publications :

i) improvement of water quality in agricultural areas. Specific research has been focused on the pollution of rural drainage water caused by nitrates and phosphates and remedial methods sustainable for the agro-environment (Pistocchi et al. 2012), and the vulnerability of shallow aquifers to pesticide pollution (Rossetto et al. 2020). Recently, studies have been addressed towards emerging contaminants exploring the soil-water plant continuum properties for removal/degradation of pharmaceuticals (Barbagli et al. 2019);

ii) development and applications of spatially distributed physically-based modelling tools for water resources management and supply. This research line started in 2010 resulting in the outcome of the SID&GRID platform (Borsi et al., 2013). In this context, the FREEWAT platform, integrating in the QGIS desktop application several modules for surface- and ground-water modelling has been conceived (Rossetto et al. 2018; Cannata et al. 2018; Criollo et al. 2019; Perdikaki et al 2020; Joodavi et al. submitted). Agricultural water management was dealt in order to improve rural water supply by means of optimised conjunctive use of surface- and ground-water (Rossetto et al. 2019). Further on, specific efforts to couple in a single modelling environment the hydrological and the nitrate cycles processes are in progress (De Filippis et al. submitted);

iii) investigation of the efficiency and impact of water-related nature-based solutions for adapting to climate change. Research focused on the use of non-conventional waters (such as treated wastewater reuse) and on Managed Aquifer Recharge (an innovative solution for water supply to face water scarcity conditions; Rodríguez-Escales et al. 2018; Dillon et al. 2019). Moreover, the role of sustainable drainage systems in urban and peri-rurban areas for adaptation has been investigated (Piacentini and Rossetto 2020).

The table below presents a sample of published papers/ quality of the journals. A complete list of papers may be found in the Research Output section under Scientific publications in this CV.

All the research activities provided outcomes for high-standing scientific publications and outreach. To date, I am consolidating and innovating these research areas developing science-and data-based methods to evaluate the interplay of water food and energy production cycles within changing climate, and I am setting up a watershed observatory to gather data and analyse the impact of climate change in the last 120 years. To this aim I have been/I am part of the leading group in large scientific Consortia (with well recognised scientific partners at international level). For 2020, I have submitted/ I am submitting proposals under the PRIMA programme (proposal 3rd ranked not-financed last year, reworked and submitted this year), and H2020 programme (proposal passed at 2nd stage).

<b>Paper title</b>	<b>Authors</b>	<b>Journal</b>	<b>SJR quartile/Scopus perc.</b>
A risk assessment methodology ...	Rodriguez-Escales et al. 2018	Hydrol Earth Syst Sc	96 <sup>TH</sup> Wat. Sc. & Tech.
Integrating free and open source tools ...	Rossetto et al. 2018	Environ Modell Softw	96 <sup>TH</sup> Environ.Engineering
Modeling unsaturated zone flow and runoff ...	Borsi et al. 2013	J Hydrol	95 <sup>TH</sup> Wat. Sc. & Tech.
Software tools for management of conjunctive	Rossetto et al. 2019	Agr Water Manage	94 <sup>TH</sup> Earth Surface Proc.
A simple model to assess nitrogen and ...	Pistocchi et al. 2012	J Environ Qua	85 <sup>TH</sup> Wat. Sc. & Tech.
AkvaGIS: An open source tool for water ...	Criollo et a. 2019	Comp Geosciences	83 <sup>rd</sup> Comp. in Earth Sc.
Spatial Data Management and Numerical ...	De Filippis et al. 2020	Water	78 <sup>TH</sup> Geog. Plan. & Devel.
FREEWAT, a Free and Open Source, GIS ...	Foglia et al. 2018	Ground Water	77 <sup>TH</sup> Wat. Sc. & Tech.
Sixty years of global progress in ...	Dillon et al. 2019	Hydrogeol J	75 <sup>TH</sup> Wat. Sc. & Tech.

### **Research experience**

<b>Period</b>	<b>Role</b>	<b>Institution</b>
<i>May 2016 – present</i>	<b>Ricercatore TDA</b>	Institute of Life Sciences – Scuola Superiore Sant’Anna (AGR02)
<i>April 2013 – April 2016</i>	<b>Assegnista di ricerca</b>	Institute of Life Sciences – Scuola Superiore Sant’Anna (AGR02)
<i>April 2010 – March 2013</i>	<b>Borsista di ricerca</b>	Scuola Superiore Sant’Anna
<i>May 2008 – March 2010</i>	<b>Assegnista di ricerca</b>	Scuola Superiore Sant’Anna (AGR02)
<i>January 2006 – April 2008</i>	<b>Assegnista di ricerca</b>	Centre of Getechnologies (Università degli Studi di Siena)
<i>November 2005 – December 2005</i>	<b>CoCoCo</b>	Centre of Getechnologies (Università degli Studi di Siena)
<i>November 2001 – October 2005</i>	<b>PhD student</b>	Earth Science Department (Università degli Studi di Siena)
<i>January 2001 – October 2001</i>	<b>Borsa di studio</b>	Earth Science Department (Università degli Studi di Siena)

**RESEARCH PROJECTS****International**

<b>Project title</b>	<b>Funding scheme</b>	<b>Duration</b>	<b>Role</b>	<b>Website</b>
<b>MARSolut - Managed Aquifer Recharge Solutions Training Network</b>	EU HORIZON 2020 Marie Sklodowska-Curie Innovative Training Networ	March 2019 – 2023	PI for SSSA <sup>1</sup> (WP 4 leader)	<a href="https://www.marsolut-itn.eu/">https://www.marsolut-itn.eu/</a>
<b>T.R.I.G - Eau - Transfrontalierità, Resilienza, Innovazione &amp; Governance per la prevenzione del Rischio Idrogeologico</b>	EU Interreg Marittimo Italia-Francia	March 2017 – October 2020	PI	<a href="http://interreg-maritime.eu/web/t.r.i.g-eau">http://interreg-maritime.eu/web/t.r.i.g-eau</a>
<b>LIFE REWAT - sustainable WATER management in the lower Cornia valley through demand REDuction, aquifer Recharge and river Restoration</b>	EU LIFE Programme	September 2015 - 2021	Technical and Scientific Coordinator (PI for SSSA)	<a href="http://www.liferewat.eu">www.liferewat.eu</a>
<b>Technische Universitaet Muenchen (TUM) incentive funds</b> Collaboration with TUM and USGS California for two workshops: a) INTEGRATED HYDROLOGICAL MODELING (October 2019, Munich, Germany) b) Hydrologic Modeling Information Science Nexus (13 <sup>th</sup> - 16 <sup>th</sup> January 2020, USGS California, San Diego, California, US)	The cooperation was entirely funded by the TUM International Center and the International Graduate School for Science and Engineering (IGSSE)– Germany)	October 2019 – Jan 2020	Member of the cooperation group	-
<b>PHARM-SWAP MED - removal of PHARMaceuticals from the Soil-Water-Plant continuum in the Mediterranean</b>	Bilateral joint Italy-Israel programme – funded by Ministero degli Affari Esteri	December 2015 – June 2018	Italian unit coordinator and	-
<b>FREWAT - FREE and open source software tools for WATER resource management</b>	HORIZON 2020	April 2015 – September 2017	Project Coordinator	<a href="http://www.freewat.eu">www.freewat.eu</a>
<b>MARSOL - Managed Aquifer Recharge as a Solution to Water Scarcity and Drought</b>	FP7	December 2013 – November 2016	WP8 leader, Member of the Core Group, PI for SSSA	<a href="http://www.marsolut-itn.eu/">www.marsolut-itn.eu/</a>
<b>Transatlantic Diffusion of Sustainability Through Environmental Sciences and Engineering</b>	EU/CANADA Programme Cooperation in Higher Educ.	2009 – 2013	PI for Scuola Superiore Sant'Anna	-

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<sup>1</sup> Scuola Superiore Sant'Anna

**National**

<i>Project title</i>	<i>Funding scheme</i>	<i>Duration</i>	<i>Role</i>
<b>Sviluppo di un modello con metodi numerici integrati in software per la gestione dei dati spaziali (GIS) che descriva i meccanismi di trasporto, abbattimento e circolazione in acque superficiali di fitofarmaci e composti azotati.</b>	Direct contract - Distretto Idrografico Alpi Orientali	July 2019 – 2021	Scientific coordinator
<b>SMAQua - SMart ICT tools per l'utilizzo efficiente dell'AcQua</b>	POR FSE 2014-2020 -Regione Toscana, 50%, and industrial fundings, 50%	March 2018 – March 2021	Project Coordinator
<b>Phyto-treatment &amp; paludiculture in Mediterranean drained land</b>	Scuola Superiore Sant'Anna	2012-2016	Responsible for hydrological issues
<b>Pianificazione e gestione della risorsa idrica nella pianura di Lucca attraverso strumenti di modellazione numerica idrologica –idrogeologica</b>	Direct contract Provincia di Lucca	September 2015 - 2021	
<b>SID&amp;GRID Simulazione e sistemi IDroinformatici per la Gestione delle Risorse Idriche</b>	Regione Toscana POR FSE 2007-2013	April 2010 – March 2013	PI for SSSA
<b>Studio dell'eutrofizzazione del Lago di Massaciuccoli (Pisa-Lucca)</b>	-	May 2008 – 2012	Responsible for hydrological issues
<b>Cartografia idrogeologica del versante in sinistra orografica del Fiume Serchio a integrazione del CISS delle Alpi Apuane e finalizzata alla redazione del bilancio idrologico del Fiume Serchio</b>	-	December 2007- April 2008	PI for Centro di GeoTecnologie
<b>Studio Idrogeologico Prototipale del Corpo Idrico Significativo dell'Acquifero Carbonatico delle Alpi Apuane, Monti d'Oltre Serchio e Santa Maria del Giudice</b>	-	January 2006 – August 2007	PI for Centro di GeoTecnologie

\*I had an active role in fund acquisition where the funding scheme is specified

Curriculum Vitae Dr. Rudy Rossetto  
**Technological Transfer projects**

<i>Project title</i>	<i>Funding scheme</i>	<i>Duration</i>	<i>Role</i>
<b>Framing the state-of-the-art on the use of software and digital tools for subsurface hydrology and hydrochemistry in the African continent</b>	Direct contract - Joint Research Centre of the European Union	December 2019 – September 2020	Scientific coordinator-
<b>Studio idrologico/idrogeologico ed idrochimico finalizzato alla valutazione della sostenibilità di un aumento dei prelievi di acqua sotterranea dal campo pozzi “Cugna”, a servizio dell’acquedotto pubblico di Forte dei Marmi, e nella definizione della zona di rispetto del campo pozzi stesso, attraverso strumenti di modellazione numerica idrologica-idrogeologica.</b>	Direct contract – GAIA spa	Jan 2017 –present	Scientific coordination
<b>Integrating QGIS and SID&amp;GRID</b>	Direct contract – Regione Toscana	2015- 2016	PI for SSSA
<b>Programma di ricerche sui metodi e interventi innovativi finalizzati alla valutazione, e monitoraggio di uso, consumo e trattamento delle risorse idriche</b>	Direct contract - CURSA within the EU project IMPROWARE	2015-2016	PI for SSSA
<b>Application of the E<sup>2</sup>STORMED software- Improvement of energy efficiency in the water cycle by the use of innovative storm water management in smart Mediterranean cities, <a href="http://www.e2stormed.eu">www.e2stormed.eu</a> (EU MED-programme)</b>	-	2014-2015	PI for SSSA
<b>Studio per il disinquinamento delle acque sotterranee del sito industriale di Pianvallico (Comuni di Scarperia e San Piero a Sieve-Firenze)</b>	-	December 2007- May 2008	PI for Centro di GeoTecnologie
<b>Studio di modellistica idrogeologica per la valutazione dell’impatto di un’opera in sotterraneo sul livello piezometrico nel sottosuolo di Firenze</b>	-	April 2007 - July 2008	PI for Centro di GeoTecnologie
<b>Completamento della cartografia della franosità del Bacino Sperimentale del Fiume Serchio,</b>	-	September 2005 –July 2006	Responsible for geomorphology, ICT and data distribution

\*I had an active role in fund acquisition where the funding scheme is specified



### ***Set-up of research infrastructures***

I coordinated the set-up of two research infrastructures:

a) 2014 – 2016

**The Sant'Alessio Induced Riverbank Filtration experimental area** (Lucca, Italy), within the framework of the MARSOL EU FPVII-ENV-2013 project, was instrumented to demonstrate the sustainability, by a scientific point of view, of the most common MAR techniques, versus the unmanaged option. Along with a detailed hydrogeological and hydrogeochemical site characterization a pilot Wireless Sensor Network to monitor quantitatively and qualitatively the hydrologic variables in the river water, in the aquifer and in the well field was designed and set in operation.

This site on March 16<sup>th</sup> 2019 was selected as Outstanding examples of successful and sustainable managed aquifer recharge for UNESCO Publication.

b) 2015 – present

A **pilot MAR two-stages infiltration basin** for harvesting flood-water from the Cornia River was set in operation in Suvereto (Italy). The MAR scheme fulfils all of the requirements of the new-issued Italian regulation on artificial recharge of aquifers (DM 100/2016), and as such a central element consists in the hi-tech automated and remotely controlled system for operating the plant and monitoring water quantity and quality. The MAR scheme diverts excess surface water from River Cornia by means of a pumping system first into a settling pond and then into a larger fine sands and gravel basin. The automated operating system allows diversion from the Cornia River using: i) the data acquired by a level sensor at a Cornia River hydrometer - this to avoid that diversion takes place at flow conditions lower than the minimum ecological flow; ii) the data acquired from a S::CAN Spectrolyser probe providing the spectral signature of the surface water and parameters of interest, such as turbidity, nitrates, TOC, DOC, UV254 and color, so to guarantee that good quality water (on legal basis) is used for recharge. A head sensor in the infiltration basin regulates the basin filling in order to avoid overflow. The effectiveness and impact of the intentional recharge process on the aquifer is then monitored using: i) a multi-parameter probe placed in a piezometer downstream - whose role is to highlight any negative change in the aquifer system, and ii) a further series of sensors gathering T, h and EC positioned in piezometers downstream the MAR scheme for recording the variations induced in the aquifer by the recharge process. Thresholds are set and alarm messages are sent to the managing technical staff in order to inform and to allow timely reaction to inconveniences. The control unit hosting the database and recording the gathered data may be accessed from everywhere with basically any kind of device. The implemented MAR scheme is working at about 5000 m<sup>3</sup>/day recharging rate and is a classic example of Smart Infrastructure for the management of water resources.

I also cooperated in 2012 in the set-up of a research infrastructure for studying the effectiveness of **large scale phyto-treatment schemes** (Vecchiano, Italy). A pilot experimental field of 15 ha using three different phyto-treatment schemes has been set up: constructed wetland (A), vegetation filters (B) and natural wetland (C). The (A) system is internally and externally banked (0.5 m) in order to force water flow to a convoluted pattern which results in a travel time lengthening. *Phragmites australis* L. and *Thypha angustifolia* L. constitute the natural succession vegetation. The (B) system is based on the plantation of seven different no-food crops managed according to a periodic cutting and biomass harvesting. The system is crossed by a dense network of ditches supplying water to the crops through lateral infiltration and partial submersion. The (C) system consists in a rewetted area where the re-colonization of spontaneous vegetation takes place.

## ACADEMIC TEACHING

Academic Year	Institution	Degree	Course	Hours
Since 2004/05	University of Siena	Master in Geotechnologies	Geoenvironmental/Groundwater modelling	48 <sup>a, b</sup> to 24 <sup>c</sup>
Since 2018/19	Scuola Sup. Sant'Anna	PhD in Agrobiosciences and Agrobiodiversity	Geographic Information Systems (GIS) Theory and applications	20 <sup>d</sup> to 24 <sup>e</sup>
2019/2020	Scuola Sup. Sant'Anna	Corso di laurea in Scienze agrarie e biotecnologie vegetali	Fundamentals and application of GIS	20 – 2 CFU
Since 2018/19	Polytechnic Institute LaSalle Beauvais	International Spring Water Semester	Surface- and Ground-water modelling <sup>f</sup>	Coordination 7 to 5
Since 2018/19	Scuola Sup. Sant'Anna	Summer School <sup>g</sup>	Digital Water and Agroecosystem services	Coordination 12 hours

<sup>a</sup> From a.y. 2004/05 up to 2014/15: Geoenvironmental modelling (48 hours)

<sup>b</sup> 2019/2020 Groundwater Modelling (48 hours)

<sup>c</sup> From 2015/16 up to 2018/19: Groundwater Modelling (24 hours)

<sup>d</sup> In 2018/19 20 hours (2CFU)

<sup>e</sup> In 2019/20 24 hours (2 CFU)

<sup>f</sup> I coordinated the whole module and taught 7 hours in 2019 and 5 hours in 2020

<sup>g</sup> I am Coordinator and scientific responsible of the International Summer School (80 hours- 4 CFU, Scuola Superiore Sant'Anna) – there I give 12 hours of lectures each year

### Membership of PhD programme board

Since 2017, I am member of the Teaching Board of the Ph.D. programmes (Scuola Superiore Sant'Anna):

#### Ph.D. in Agrobiosciences

#### Ph.D. in Agrobiodiversity

I am also member of the **ITN MARSolut H2020 MSCA International Training Network Supervisory Board**, supervising the career of the 12 PhD students enrolled in the MARSOLUT project.

### Supervision of PhD students

In the framework of the **ITN MARSolut H2020 MSCA** since a.y. 2019-2020 I am supervising the PhD research activities of Esteban Caligaris, and co-supervising those of Rebecca Sultana (UFZ – Germany) and Rodrigo Pérez Illanes (Polytechnic University of Catalonia).

### Tutoring of PhD students

#### PhD programme in Agrobiosciences (Scuola Superiore Sant'Anna)

- Alessio Barbagli: completed in September 2017
- Margherita De Peppo: (November 2017 – November 2018)

#### PhD programme in Scienze e Tecnologie Applicate all'Ambiente (University of Siena)

- Andrea Gigliuto: completed in 2010
- Enzo De Carlo: completed in 2007
- Andrea Morelli: completed in 2007

### ***Past academic teaching***

*From 2013 to 2019*

Master Universitario di II livello in “Gestione e controllo dell’Ambiente: economia circolare e management efficiente delle risorse” (Scuola Superiore Sant’Anna)

**Protezione della risorsa idrica** (from 10 to 2 hours)

*A.y. 2010 - 2011- 2012*

Master ambiente Scuola Superiore Sant’Anna

Various lectures on water resources management

*A.y. 2010-2011*

Master in Engineering Geology University of Siena –Italy

**Applied hydrogeology to engineering construction** (24 hours)

*A.y. 2008/09*

Corso di Laurea in Geotecnologie University of Siena –Italy

**Hydrogeology** (72 hours -9 CFU)

*A.y. 2006 – 2008*

**International course Advanced Numerical Modeling of Flow and Transport in Soils and Aquifers** University of Siena –Italy

2007

International Workshop **Calibration of groundwater models using inverse codes** - University of Siena -Italy

*From a.y. 2004/05 to 2007/08*

Tutor of the **Master di II livello in Geotecnologie Ambientali** - Centro di GeoTecnologie Università degli Studi di Siena

### ***Capacity building activities***

I coordinated and run several courses within the H2020 FREEWAT and LIFE REWAT projects in Italy and abroad in cooperation also with other Institutions such as: UNESCO-IHP, Technische Universitaet Dresden (Germany), Technische Universitaet Munchen (Germany), LNEC (Portugal), University of Milan, University of Rome, and University of Naples.

I am also part of the OPEN WATER initiative promoted by UNESCO –IHP with the main goal of spreading the use of free and open source software for water resource management.

## RESEARCH PRODUCTS

### Software

#### *Active software*

**FREEWAT:** QGIS integrated modelling platform for water resource management with special focus on groundwater management

[www.freewat.eu](http://www.freewat.eu)

FREEWAT is an open-source and public-domain, GIS-integrated simulation platform for planning and management of ground- and surface-water resources. The FREEWAT platform allows to simulate the whole hydrological cycle, coupling the power of GIS geo-processing and post-processing tools in spatial data analysis with that of process-based simulation models.

This results in a modeling environment where large spatial datasets can be stored, managed and visualized and where several simulation codes (mainly belonging to the USGS MODFLOW family) are integrated to simulate multiple hydrological, hydrochemical. Among the capabilities included in the FREEWAT platform (e.g., groundwater flow, interaction with surface-water bodies, solute transport, sensitivity analysis and parameter estimation), particular attention is paid to sustainable management of combined use of ground- and surface-water resources in rural environments.

The software is an open source and public domain one and it is distributed along with:

- 6 USER MANUAL v. 1.1 (Nov. 2018)
- 10 tutorials completed with data.

The software has been downloaded from the website about 3000 unique times. About ten MSc thesis were discussed worldwide using the FREEWAT platform. I am the manager of a LINKEDIN **EU H2020**

**FREEWAT** group (about 800 persons taking part)

#### *Superseded software*

**SID&GRID:** GIS integrated hydrological modelling environment

The SID&GRID solution implemented a hydrological model integrated in a GIS interface, applications and library, where all the input and output data are managed by means of DataBase Management System (DBMS) to allow the quantitative assessment of water availability in space and time and to support the planning decision processes.

The software is an open source and public domain one and it is distributed along with:

- USER MANUAL v. 1.02 (July 2013)
- 4 tutorials completed with data.

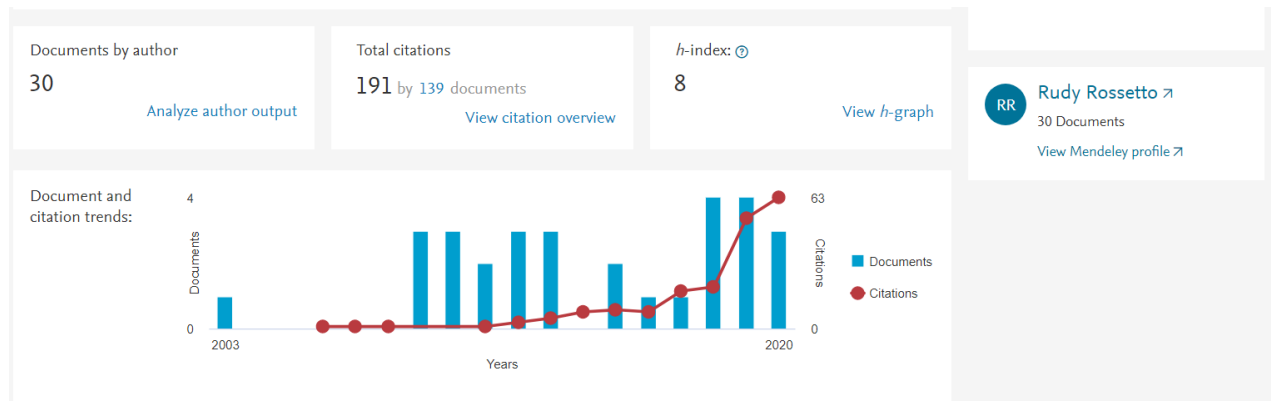
The SID&GRID software was superseded by the FREEWAT platform.

## Scientific publications

### Author's output

My Scopus id reports 30 publications from 2003 (20 articles, 7 conference papers, 2 short survey and 1 note). From 2010 they are 26 (19 articles, 4 conference papers, 2 short survey and 1 note). The 2010-2020 HI is 8. SCOPUS total number of citations is 191, while from 2010 is 175.

My Google Scholar HI is 11 and a total of 359 citations is reported (300 since 2015).



### Scientific Publications indexed in SCOPUS/WoS core collection

1. **Rossetto, R.**, Sabbatini, T., Silvestri, N. Assessing Specific Vulnerability of Shallow Aquifers to Pesticide Using GIS Tools. Data Needs and Reliability of Index-Overlay Methods: An Application to the San Giuliano Terme Agricultural Area (Pisa, Italy) *Agronomy* 2020, 10(7), 985;  
<https://doi.org/10.3390/agronomy10070985>
2. Piacentini, S. M.; **Rossetto, R.** Attitude and actual behaviour towards water-related green infrastructures and sustainable drainage systems in four north-western mediterranean regions of Italy and France. *WATER* (2020), 12,5  
DOI: 1474 10.3390/w12051474
3. De Filippis, G, Pouliaris, C., Kahuda, D., Vasile, T.A., Manea, V.A., Zaun, F., Panteleit, B., Dadaser-Celik, F., Positano, P., Nannucci, M.S., Grodzynskyi, M., Marandi, A., Sapiano, M., Kopač, I., Kallioras, A., Cannata, M., Filiali-Meknassi, Y., Foglia, L., Borsi, I., **Rossetto, R.** 2020. Spatial Data Management and Numerical Modelling: Demonstrating the Application of the QGIS-Integrated FREEWAT Platform at 13 Case Studies for Tackling Groundwater Resource Management. *2020 Water*, 12, 41  
doi:10.3390/w12010041
4. **Rossetto, R.**, De Filippis, G., Triana, F., Ghetta, M., Borsi, I., Schmid, W. Software tools for management of conjunctive use of surface- and ground-water in the rural environment: integration of the Farm Process and the Crop Growth Module in the FREEWAT platform. *Agricultural Water Management*, Volume 223, 20 August 2019, Article number 105717  
<https://doi.org/10.1016/j.agwat.2019.105717>
5. Rotman Criollo, Violeta Velasco, Albert Nardi, Luis Manuel Vries, Celia Riera, Laura Scheiber, Anna Jurado, Serge Brouyère, Estanislao Pujades, Rudy **Rossetto**, Enric Vázquez-Suñé. AkvaGIS: An open source tool for water quantity and quality management. *Computers & Geosciences*. June 2019 Volume 127 Pages 123-132  
<https://doi.org/10.1016/j.cageo.2018.10.012>
6. P. Dillon & P. Stuyfzand & T. Grischek & M. Lluria & R. D. G. Pyne & R. C. Jain & J. Bear & J. Schwarz & W. Wang & E. Fernandez & C. Stefan & M. Pettenati & J. van der Gun & C. Sprenger & G. Massmann & B. R. Scanlon & J. Xanke & P. Jokela & Y. Zheng & R. **Rossetto** & M. Shamrukh & P. Pavelic

& E. Murray & A. Ross & J. P. Bonilla Valverde & A. Palma Nava & N. Ansems & K. Posavec & K. Ha & R. Martin & M. Sapiano. Sixty years of global progress in managed aquifer recharge. *HYDROGEOLOGY JOURNAL* Volume: 27 Issue: 1 Pages: 1-30 Published: FEB 2019

DOI: 10.1007/s10040-018-1841-z

7. Barbagli, Alessio; Jensen, Benjamin Niklas; Raza, Muhammad; Schueth C. & **Rossetto R.** Assessment of soil buffer capacity on nutrients and pharmaceuticals in nature-based solution applications. *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH* Volume: 26 Issue: 1 Special Issue: SI Pages: 759-774 Published: JAN 2019

DOI: 10.1007/s11356-018-3515-8

8. Febo, Simone; Petrolo, Francesco; Cureda, Francesco; Zirulia, Andrea; Vacca, Matteo; Trotta, Marilena; Guastaldi, Enrico; De Filippis, Giovanna; **Rossetto**, Rudy; Benucci, Claudio. Probabilistic 3D reconstruction of the alluvial aquifer of the Val di Cornia (Province of Livorno). *RENDICONTI ONLINE SOCIETA GEOLOGICA ITALIANA* Volume: 46 Pages: 23-28 NOV 2018

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### *Conference abstracts*

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### **National conferences**

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 Carta geologica e geomorfologica - Sezione 260040 Scala 1:10000  
 Carta geologica e geomorfologica - Sezione 260070 Scala 1:10000  
 Carta geologica e geomorfologica - Sezione 260080 Scala 1:10000  
 Carta geologica e geomorfologica - Sezione 260110 Scala 1:10000  
 Carta geologica e geomorfologica - Sezione 260150 Scala 1:10000  
 Carta geologica e geomorfologica - Sezione 260160 Scala 1:10000  
 Accessibili sul sito della Regione Toscana all'indirizzo web:  
<http://web.rete.toscana.it/pta/servlet/Scheda?foglio=260>  
 [ultimo accesso 4/03/2008]

**INVITED TALKS****International events**

1. **Rudy Rossetto**, Simone Maria Piacentini. **MANAGED AQUIFER RECHARGE IN ITALY: PRESENT AND PROSPECTS**. Convegno: Groundwater Dependant Ecosystems. New research horizons and management implications. L'Aquila 4-6 Luglio 2018 (LIFE AQUALIFE project)
2. **Rudy Rossetto**. **Reconciling agriculture with the environment : a tale of nature-based solutions, ICT and participatory approach**. Multi-actor participatory water management for climate change adaptation at the farm level. Czech Liaison Office for Research, Development and Innovation in Brussels and Czech University of Life Sciences Prague. May 23<sup>rd</sup> 2018. KoWI meeting room – Brussels (Belgium)
3. **Rudy Rossetto**. **An innovation lab for water management in coastal Tuscany (Italy): the LIFE REWAT**. Optimising the implementation of the 2nd RBMP in the Malta River Basin District. Official Launch Conference. Wednesday 9th May 2018 - Seashells Resort, Qawra, Malta (RBMP LIFE project)
4. **Rudy Rossetto**. **Going digital in GroundWater Resource Management: the H2020 FREEWAT project results**. EU-Gulf Water Innovation Knowledge Exchange. International Water Summit, Abu Dhabi, UAE, 15-18 January 2018
5. **Rudy Rossetto**. **The H2020 FREEWAT project: results and future prospects**. Seminar: Smart water monitoring for river and lake basin management, ECOMONDO – Rimini (Italy) 8 November 2017
6. **Rudy Rossetto**. **An innovation lab for water management in coastal Tuscany: the REWAT LIFE project**. EIP Water Conference. Porto, 28<sup>th</sup> September 2017
7. **Rudy Rossetto**. **Uniting the research world, local government and the private sector in the Italian Network on Managed Aquifer Recharge (INMAR)** Developing water innovation: How R&D centres, innovation hubs and accelerators help solve European water sector challenges. EIP Water Conference. Porto, 27<sup>th</sup> September 2017
8. **Rudy Rossetto**. **Open source and free software for water resource management: the H2020 FREEWAT platform**. Event WSSTP: Water Innovation Europe, Bruxelles, 14<sup>th</sup> June 2017
9. **Rudy Rossetto**. **Open source and free software for water resource management: the H2020 FREEWAT platform**. 32nd EU CIS-GROUNDWATER Working Group Meeting San Lawrenz, Malta, 25-26 April 2017
10. **Rudy Rossetto**. **REWAT Life Project**. TERRITORIAL CIRCULAR BIOECONOMY Alma Mater Studiorum – University of Bologna, Piazza S.Giovanni in Monte, 2 May 16<sup>th</sup>, 2017
11. **Rudy Rossetto**. **FREE and open source tools for WATER resource management (FREEWAT)**. COP 22 UN Climate Change Conference Marrakech (Morocco) 9<sup>th</sup> November 2016

**National events**

1. **Rudy Rossetto**. **La piattaforma H2020 FREEWAT. Software libero e open source per migliorare la capacità di enti pubblici e società private nella gestione della risorsa idrica**. Kick-off Meeting della Linea di intervento “LQS - Piattaforma delle Conoscenze – Capitalizzazione delle esperienze e disseminazione dei risultati per la replicabilità di buone pratiche per l’ambiente e il clima” Roma, 31 Gennaio 2019. Auditorium MATTM (Via Capitan Bavastro, 180)
2. **Rudy Rossetto**. **La ricarica in condizioni controllate degli acquiferi: esperienze in Italia e nel mondo**. 1° Workshop su: Uso delle risorse idriche sotterranee in periodi siccitosi. Esperienze dalla Toscana al resto del mondo. IAH Italy, Firenze, Palazzo Vecchio, 10 Dicembre 2018.
3. **Rudy Rossetto**. **ICT e soluzioni basate sui sistemi naturali: innovazione nella gestione della risorsa acqua per l’adattamento ai cambiamenti climatici**. Il Futuro dell’acqua. Ricercatori e gestori a confronto nella realtà toscana. FAI Delegazione di Pisa. 30 Novembre 2018. Pisa

4. **Rudy Rossetto. La ricarica delle falda in condizione controllate: esperienze applicative e limiti normativi.** Il percorso di riforma del settore idrico. Gli interventi del regolatore, gli impatti sulle aziende e le prospettive di int.. Livorno 16/07/2018
5. **Rudy Rossetto e Simone Maria Piacentini. Esperienze internazionali nelle tecniche di gestione della ricarica delle falde acquifere.** L'AGRICOLTURA PER L'ACQUA – Dieci anni di Aree Forestali di Infiltrazione. Veneto Agricoltura, Cittadella (Padova) 11 giugno 2018
6. **Rudy ROSSETTO. La ricarica delle falde in condizioni controllate nel mondo ed in Italia: 60 anni di ricerca e applicazioni.** Convegno: LA PREVISIONE IDROGEOLOGICA SULLA RISORSA ACQUA. ACCADEMIA NAZIONALE DEI LINCEI, XVIII GIORNATA MONDIALE DELL'ACQUA. Roma 22 Marzo 2018
7. **Rudy Rossetto. Free and Open Source Software Tools for Water Resource Management: FREEWAT.** WORKSHOP Il Ruolo della Modellazione Numerica Idrogeologica nel Processo Decisionale. Dip. di Scienze Ecologiche e Biologiche (DEB). Università degli Studi della Tuscia 11 Settembre 2017
8. **Rudy ROSSETTO. GIS & modelling open source: la piattaforma H2020 FREEWAT per la gestione della risorsa idrica.** WORKSHOP: **Rendere visibile l'acqua sotterranea: strategie ed esperienze a scala europea.** Roma 20 Ottobre 2016
9. **Rudy Rossetto. La piattaforma modellistica FREEWAT per la gestione delle risorse idriche. SFIDE E PROSPETTIVE DELLA GESTIONE DELLE RISORSE IDRICHE E GEOTERMICHE NEI SISTEMI CARBONATICI E TORBIDITICI.** ESEMPI E CASI DI STUDIO Perugia Villa Colombella, sede Segretariato UN WWAP UNESCO, 6 ottobre 2016

## **ORGANISATION of NATIONAL and INTERNATIONAL WORKSHOPS**

- **2<sup>nd</sup> FREEWAT International Workshop** 17<sup>th</sup> September 2019 Scuola Superiore Sant'Anna (Pisa) – organiser
- **Digital water and nature based solutions: innovative tools for sustainable water management** – Scuola Superiore Sant'Anna (Pisa) 10<sup>th</sup> September 2018 – organiser
- **ICT tools for innovating Groundwater Management in a changing world** – CSIC IDAEA (Barcelona, Spain) 22<sup>nd</sup> September 2018 – co-organiser
- **1<sup>st</sup> FREEWAT USER AND DEVELOPERS INTERNATIONAL WORKSHOP**– CSIC IDAEA (Barcelona, Spain) 21<sup>st</sup> September 2018 – co-organiser
- **Fostering inclusive and sustainable economic growth, employment and decent work (SDG#8) through ICT job creation tools for ensuring water security (SDG#6)** – UNESCO (Paris, France) 30<sup>th</sup> September 2016– co-organiser
- **Advantages of using Numerical Modeling in Water Resources Management and Managed Aquifer Recharge schemes** 21<sup>st</sup> April 2015 Scuola Superiore Sant'Anna (Pisa) – organiser
- **Acqua e adattamento ai cambiamenti climatici. L'esperienza del progetto LIFE REWAT in Val di Cornia** 28<sup>th</sup> June 2019 Scuola Superiore Sant'Anna – co-organiser
- **Composti farmaceutici e contaminanti emergenti nell'ambiente: degradazione nei sistemi di fitodepurazione attraverso il continuum acqua-suolo-pianta** 13<sup>th</sup> June 2018 Scuola Superiore Sant'Anna (Pisa) – organiser

## **SCIENTIFIC COMMITTEE of NATIONAL/INTERNATIONAL CONFERENCES and CHAIRED SESSIONS**

1. Geo-IT and Water Resources 2020 4<sup>th</sup> Edition of International Conference on Geo-IT and Water Resources 2020 in Mediterranean region", March 11 & 12, 2020, ENSAH, Al Hoceima, Morocco (**Member of the Scientific Committee**)
2. 4<sup>th</sup> FLOWPATH, the Italian National Meeting on Hydrogeology, Milan June 12-14 2019 (**Member of the Scientific Committee**)
3. 10<sup>th</sup> INTERNATIONAL SYMPOSIUM ON MANAGED AQUIFER RECHARGE (ISMAR10), Madrid May 20-24 2019 (**Member of the scientific/Technical Committee**)
4. 2<sup>nd</sup> International Conference Citizen Observatories for natural hazards and Water Management (COWM), 27-30 November 2018, Venice, Italy (**Member of the Scientific Committee**)

### **Chaired sessions at conferences**

1. **Urban Hydrogeology.** Conveners: **Dr. Rudy Rossetto** (Scuola Superiore Sant'Anna Pisa), Dr. Massimo Marchesi (IT2Europe S.r.l.), Dr. Stefania Stevenazzi (Università degli Studi di Milano). 4th FLOWPATH, the Italian National Meeting on Hydrogeology, Milan June 12-14 2019
2. **MAR and modeling.** CONVENERS: Dr. Shakeel Ahmed. CSIR-Nat. Geophysical Res. Inst. Saphpani. India. **Dr. Rudy Rossetto.** Scuola Superiore Santa Anna, Pisa. Italy. 10<sup>th</sup> INTERNATIONAL SYMPOSIUM ON MANAGED AQUIFER RECHARGE (ISMAR10), Madrid May 20-24 2019
3. **SC1.5 FREEWAT: an open source and QGIS-based platform for water management** Convener: Rotman Criollo | Co-conveners: Iacopo Borsi, Massimiliano Cannata, **Rudy Rossetto**, Giovanna De Filippis Tue, 09 Apr, 16:15–18:00 Room -2.31 EGU 2019 Vienna

4. **New challenges for integrated water cycle management.** Convener: **Rudy Rossetto** 2nd International Conference Citizen Observatories for natural hazards and Water Management (COWM), 27-30 November 2018, Venice, Italy
5. **Sessione Plenaria "Geoscienze e ICT: strumenti per un pianeta che cambia".** Conveners: C. D'Ambrogi, **R. Rossetto**. GIT XIII Convegno Nazionale 11-13 giugno 2018 Fortezza Firmafede, Sarzana (Sp)
6. **Session 4-Groundwater management in arid and semi-arid region (dedicated to Prof. Zuppi)** Conveners: G. Ghiglieri, M. Polemio, **R. Rossetto**. 3rd FLOWPATH, the Italian National Meeting on Hydrogeology, Cagliari June 14-16 (Member of the Scientific Committee)
7. **SC71 Introducing groundwater management using FREEWAT** Convener: Giovanna De Filippis | Co-Conveners: **Rudy Rossetto** , Massimiliano Cannata , Rotman Criollo Fri, 28 Apr, 10:30–13:15 / Room - 2.85 EGU Vienna 2017
8. **Session 6.02: Treated Waste water REUSE for groundwater recharge: addressing the challenge.** Conveners: Manuel Sapiano, **Rudy Rossetto**, Nicholas Condom 43rd IAH CONGRESS. September 2016 Montpellier
9. **PC3 FREEWAT: open source groundwater modelling integrated in GIS environment** Conveners: Iacopo Borsi, Laura Foglia, **Rudy Rossetto** IAH Rome September 2015
10. Session S3.3 - Aquifer recharge assessment and storage management: quantity and quality issues. Conveners: Rudy **Rossetto** & Peter Dillon IAH Rome September 2015
11. Sessione 32, WATER, I 1. Quantitative and qualitative assessment of groundwater resources: standard methods, new developments and open problems. Conveners: Giovanni Pietro Beretta, Daniela Ducci, **Rudy Rossetto**, Marco Doveri. FIST GEOITALIA 2013 – IX Forum di Scienze della Terra, Pisa, 16-18 Settembre 2013

## **EDITORSHIP, MEMBERSHIP and NETWORKING**

From June 2012 I am Co-Editor in Chief of **Acque Sotteranee – Italian Journal of Groundwater**, a peer-reviewed publication, the oldest European journal dealing with groundwater. My main tasks are those of following the scientific accuracy of the published papers (based on the peer-review process) and the process of indexing the journal in SCOPUS and the main scientific databases. The journal is within the WoS core collection in the Emerging Source Citation Index.

I am reviewer for several academic and interdisciplinary journals such as: Land Use Policy, Environmental Earth Sciences, Chemosphere, Ecological Engineering, Hydrogeology Journal, Catena, Journal of Hydrology, Journal of Hydroinformatics, Water, etc.

### **Memberships**

**I.A.H.S.**, International Association of Hydrological Sciences

**E.G.U.**, European Geoscience Union – member of the Hydrology Division

**I.A.H.**, International Association of Hydrogeologist, member of the MAR Commission

**A.I.G.A.**, Associazione Italiana Geologia Applicata

### **Cluster and network participation**

I am member of relevant EU scale networks such as:

- i) the **EU ICT4Water cluster**,
- ii) the **European Innovation Partnership** (active in the action groups **MARtoMarket** and **WIRE, Water Irrigation Resilient Europe**),
- iii) **Water Europe**, the European Technology Platform for water.

I also established cooperation with the **UNESCO - International Hydrological Programme**, as a member of the **OPEN WATER network**, and the **Water and Fishery Unit** of the **Joint Research Centre of the European Union** on framing the–state-of-the-art on using digital tools for groundwater resources management in Africa. Finally, I promoted a MoU with the **Land and Water Unit** of Australian **CSIRO**, and cooperation with several **EU universities** and **research centres for promoting excellent research and teaching**. In the extended CV the entire track of record may be found.

Taking part to these societies, clusters and networks allowed me in getting in contact with large and important academic and non-academic Institutions at both EU and non-EU scale.

## **PRIZE and HONORS**

- The research run during the FP7 MARSOL project where judged excellent by an UNESCO advisory board and worth publication in the volume **Outstanding examples of successful and sustainable managed aquifer recharge at global scale** that will be released in August 2020 by UNESCO.
- In February 2020, the paper “Spatial data management and numerical modelling ...” (De Filippis et al. 2020) was **Editor’s choice at the journal Water MDPI** (Q1/78<sup>th</sup> Geography planning and Development)
- In 2019, the paper “Sixty years of global progress on Managed Aquifer Recharge” (Dillon et al. 2019) was mentioned as **n. 1 Springer Nature 2019 highlights**.
- On 9 July 2014 the **project SID&GRID** has been awarded the prize **Premio Ambasciatori d'Europa** at SMAU in Florence by Regione Toscana within the initiative Toscana Technologica

## **RESEARCH OUTREACH**

### **Science Communication Books**

- Rudy **Rossetto** e Simone Maria Piacentini. **Infrastrutture Blu/Verdi e Misure non Strutturali per la mitigazione del rischio idraulico in ambiente urbano e peri-urbano**. Esempi di buone pratiche. 2018 Iniziativa finanziata con il contributo dello strumento INTERREG-MARITTIMO ITALIA FRANCIA – CUP G96J16001250005
- Rudy **Rossetto** e Chiara Marchina. **INTERVENTI INNOVATIVI PER LA GESTIONE DELLA RISORSA IDRICA NELLA BASSA VAL DI CORNIA. Linee guida tecnico-operative**. 2017 Con il contributo dello strumento LIFE dell'Unione Europea (LIFE 14 ENV/ET/001290 REWAT)
- Simone Maria Piacentini and Rudy **Rossetto**. **INNOVATION IN WATER RESOURCE MANAGEMENT FOR THE VAL DI CORNIA AREA (ITALY). Examples of best practices**. 2017 Co-financed by the EU LIFE instrument (LIFE 14 ENV/ET/001290 REWAT)
- Nicola Silvestri, L Ercoli, C Pistocchi, R Risaliti, R **Rossetto**, T Sabbatini, P Basile, E Bonari. **Agricoltura e tutela delle acque nel bacino del lago di Massaciuccoli. Ricerca e sperimentazione di sistemi colturali alternativi**. 2013 Pacini Editore Pisa

### **Press mentions and TV**

Press interview:

<http://www.pdc.minambiente.it/it/newsletter-n10-intervista>

Baldi, B., Disperati, L., Gruppioni, G., **Rossetto, R.**, Salvini, R., 2007. Il Centro di GeoTecnologie: dove la geomatica è di casa. Geomedia, n.3, 2007.

A whole set of video interviews can be visualised at:

<http://www.liferewat.eu/about-us/video-e-videointerviste.html>

<http://www.freewat.eu/videos>

Radio interview at RADIO TRE SCIENZA (21st March 2018)

<https://www.raipplayradio.it/audio/2018/03/RADIO3-SCIENZA-Laposultima-goccia-e7e92c2d-049d-4b86-af2d-a5872c22fba9.html>

Video interview and cooperation to the video making. RAI TRE REPORT PUNTATA DEL 18/12/2017 GOCCIA A GOCCIA <http://www.report.rai.it/dl/Report/puntata/ContentItem-7cea4b5b-a975-4bf5-8a98-7cf66d69404a.html>

July 14<sup>th</sup> 2020

Rudy Rossetto

