

PERSONAL INFORMATION

**Bruna Gumiero**



 Via D. Samoggia, 6, 40068 San Lazzaro di Savena (BO) (Italy)

 00390516251428  00393487093570

 [bruna.gumiero@unibo.it](mailto:bruna.gumiero@unibo.it)

 <http://www.unibo.it/docenti/bruna.gumiero>

Sex Female | Date of birth 19 Jul 60 | Nationality Italian

UTS - Lecturer in Freshwater Ecology,  
freelance river ecologist  
PhD in ecology.

POSITION

NATIONAL SCIENTIFIC QUALIFICATION  
SECTOR: 05/C1-ECOLOGY  
LEVEL: Associate Professor  
VALIDITY: August 31, 2017 - August 30, 2022

WORK EXPERIENCE  
TEACHING

2018 –2020

**Adjunct Professor**

University of Bologna - Sciences and Management of Nature (8209) , Bologna (Italy)  
<http://www.eng.unibo.it/PortaleEn/Academic+programmes/Courses/MathematicalSciences/manifesto.htm?AnnoAccademico=2012&CodCorso=8209>

Teaching: Ecology (in English); Highly Modified Water Bodies (in English);

Business or sector Education

02 –2018

**Adjunct Professor**

University of Bologna - Sciences and Management of Nature (8209) , Bologna (Italy)  
<http://www.eng.unibo.it/PortaleEn/Academic+programmes/Courses/MathematicalSciences/manifesto.htm?AnnoAccademico=2012&CodCorso=8209>

Teaching: Biomonitoring Laboratory (66500); Environmental Impact Assessment (66451); Freshwater ecology (66502)

Business or sector Education

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**Adjunct Professor**

University of Padua - Science and Technology for Environment LM75 , Padua (Italy)  
<http://didattica.unipd.it/offerta/2012/AG/IF0321/2008/000ZZ/1069532>

Teaching: Ecology

Business or sector Education

96 – 02

**Adjunct Professor**

University of Bologna - Faculty of Natural Sciences , Bologna (Italy)

<http://www.scienze.unibo.it/Scienze+Matematiche/Didattica/Insegnamenti/dettaglio.htm?AnnoAccademico=2004&IdComponenteAF=29758&CodDocente=032351&CodMateria=48752>

Teaching: Hydro-biology (48752) and Applied ecology

Business or sector Education

00 – 07 **Adjunct Professor**

University of Bologna - SISS , Bologna (Italy)

Teaching: Teaching of Sciences

Business or sector Education

94 – 96 **Teaching assistant**

Flaminia Foundation - Faculty of Environmental Sciences Ravenna, Ravenna (Italy)

Teaching: specific topics and laboratory for the courses of Ecology and Applied Ecology

Business or sector Education

94 – 2020 **Instructor**

Several seminars and technical courses for public authorities

Teaching: many different topics around ecology and hydrobiology

Business or sector Education

96 – 98 **Teaching Assistant**

Tridentine Museum of Natural History - (Museo Tridentino di Storia Naturale), Trento (Italy)

Teaching: specific topics and laboratory at international courses organized in collaboration with the University of Innsbruck (Prof. E. Rott) "Limnology of a large perialpine lake: Lago di Garda" and "Limnology of a subalpine lake: Lago di Tovel"

Business or sector Education

WORK EXPERIENCE  
PROFESSION

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- Jan 19-2020 **Hydro-biologist**  
**Eastern Alps River Basin District**  
<http://www.alpiorientali.it/>  
Scientific collaboration in scientific project “Basso Piave” Developing ECOSYSTEM SERVICES analyses and Citizen Science activities.  
**Business or sector** Professional, scientific, technical and educational activities
- Jan 19-2020 **Hydro-biologist**  
**Drainage Water Authority (Consorzio di Bonifica Acque Risorgive), Venice (Italy)**  
<http://www.acquerisorgive.it/>  
Research and Development project aimed at monitoring and testing buffer capacity of two small restored floodplain mainly focused on Nitrate remotion.  
**Business or sector** Professional, scientific and technical activities
- Oct 18-present **Hydro-biologist**  
**Eastern Alps River Basin District**  
<http://www.alpiorientali.it/>  
Scientific collaboration in the European project H2020 Swaft MICS (Developping metrics and instruments to evaluate **Citizen Science** impact) on the Environment and society.  
**Business or sector** Professional, scientific, technical and educational activities
- Jan 17 – present **Hydro-biologist**  
**CIFLA (innovation center of Flaminia Fondation)**  
<http://www.osservatoriocitizenscience.org>  
Leader of the Citizen Science observatory , main project on surface water quality in collaboration with the Freshwater watch platform, development of research and new tools.  
**Business or sector** scientific training, educational science
- Apr 16 – Dec 2017 **Hydro-biologist**  
**NBSI (Kenya onlus)**  
River Ecologist in the project Invertebrates of the Kenyan Rift Valley to which studies on riparian vegetation and benthic fluvial diatoms have been added.  
**Business or sector** Professional, scientific and technical activities
- Jun 13 – Jun 16 **Hydro-biologist**  
Regional Extension Service (Veneto Agricoltura), Padua (Italy)  
<http://www.venetoagricoltura.org/>  
Scientific supervision of a research and development project on phyto-depuration of biogas slurry though different forested fields . Project call “FLOROBASCO”  
**Business or sector** Professional, scientific and technical activities
- May 12 – Dec 15 **Hydro-biologist**  
Regional Extension Service (Veneto Agricoltura), Padua (Italy)  
<http://www.venetoagricoltura.org/>  
Scientific supervision of a research and development project on phyto-depuration of biogas slurry though different forested fields . Project call “REDAFI”  
**Business or sector** Professional, scientific and technical activities

- Jan 12 –dec 2014 **Hydro-biologist**  
Drainage Water Authority (Consorzio di Bonifica Acque Risorgive - former Cons. Bon. Dese-Sile), Venice (Italy)  
<http://www.acquerisorgive.it/>  
Research and development project on linear buffer strips aimed at achieving good water quality status in intensive animal production areas.  
**Business or sector** Professional, scientific and technical activities
- Oct 12 – april 2015 **Hydro-biologist**  
Agricultural Research Council of the Italian Ministry of Agriculture (Consiglio per la Ricerca e la Sperimentazione in Agricoltura - CRA), Roma (Italy)  
<http://sito.entecra.it/portale/index2.php>  
Planning and consulting for the design of buffer zones and monitoring the filtering capacity of different crop management in 5 different geographical locations. Project call MONACO  
**Business or sector** Professional, scientific and technical activities
- Nov 12 - Oct 13 **Hydro-biologist**  
Drainage Water Authority - Consorzio di Bonifica Acque Risorgive (former Cons. Bon. Dese-Sile) , Venice (Italy)  
<http://www.acquerisorgive.it/>  
Research and development project aimed at setting best practices for wetland plant and management to reduce nitrogen load in Venice Lagoon project call "CUCCOBELLO WETLAND".  
**Business or sector** Professional, scientific and technical activities
- Jun 11 – jen 2014 **Hydro-biologist**  
Drainage Water Authority (Consorzio di Bonifica Acque Risorgive - former Cons. Bon. Dese-Sile), Venice (Italy)  
<http://www.acquerisorgive.it/>  
Research and Development project aimed at monitoring and testing buffer capacity of short forestry rotation area aimed at achieving good water quality status in intensive animal production areas, within the LIFE European LIFE plus project call "LIFE AQUA".  
**Business or sector** Professional, scientific and technical activities
- Jul 10 - Mar 12 **Hydro-biologist**  
Drainage Water Authority (Consorzio di Bonifica Acque Risorgive - former Cons. Bon. Dese-Sile), Venice (Italy)  
<http://www.acquerisorgive.it/>  
Research and development project on linear buffer strips aimed at setting nitrogen filter capacity in two different soil types within the watershed of Venice Lagoon  
**Business or sector** Professional, scientific and technical activities
- Nov 09 - Mar 12 **Hydro-biologist**  
Regional Extension Service (Veneto Agricoltura), Padua (Italy)  
<http://www.venetoagricoltura.org/>  
Scientific supervision of a research and development project on phyto-depuration of biogas slurry through different forested fields project call RIDUCAREFLUI  
**Business or sector** Professional, scientific and technical activities
- 09 **Hydro-biologist**

University of Florence - Dep. of Civil Engineering and environment, Florence (Italy)  
<http://www.unifi.it/organizzazione/schedastruttura.php?codice=058506>

Development of innovative methodologies and criteria for sustainable vegetation management along artificial and natural water courses.

**Business or sector** Professional, scientific and technical activities

#### 08 Hydro-biologist

European Centre River Restoration, Utrecht (Netherland)  
<http://www.ecrr.org/>

President of the Scientific and steering Committee of the 4<sup>th</sup> International Conference on River Restoration on behalf of European Centre of River Restoration held in Venice with the participation of more than 320 delegates from around the world

**Business or sector** Professional, scientific and technical activities

#### 07 - 11 Hydro-biologist

Drainage Water Authority (Consorzio di Bonifica Dese Sile)  
<http://www.acquerisorgive.it/>

Scientific referee of the research and development project "Extension, on survey and evaluate the natural performances of experimental wooded riparian zones to sustainable buffer waterborne fluxes of diffused nitrogen pollution from agriculture to aquatic environments. The final aim was to control and reduce the nutrient (N & P) pollution in the Venice Lagoon.

**Business or sector** Professional, scientific and technical activities

#### Dec 06 - Jan 08 Hydro-biologist

University of Florence - Dep. of Civil engineering and Environment, Florence (Italy)  
<http://www.unifi.it/organizzazione/schedastruttura.php?codice=058506>

Study and research of ecological aspects within the research project: interdisciplinary study (Geomorphology and Ecology) of the River Panaro aimed to integrated river restoration proposal

**Business or sector** Professional, scientific and technical activities

#### Jun 06 - Jan 07 Hydro-biologist

University of Florence - Dep. of Civil Engineering and Environment , Florence (Italy)  
<http://www.unifi.it/organizzazione/schedastruttura.php?codice=058506>

Study and research about ecological aspects under the project of structural interventions on the shaft of the river Ombrone Pistoiese in a study of Environmental Impact

**Business or sector** Professional, scientific and technical activities

#### Mar 06 - Jun 06 Hydro-biologist

University of Florence - Dep. of Civil Engineering and Environment , Florence (Italy)  
<http://www.unifi.it/organizzazione/schedastruttura.php?codice=058506>

Coordination and scientific supervision of the ecological aspects of the applied research project for river restoration proposal along the river Pesa within the plan of the Arno River Basin

**Business or sector** Professional, scientific and technical activities

#### Feb 05 - Dec 05 Hydro-biologist

Tridentine Museum of Natural History (Museo Tridentino di Storia Naturale), Trento (Italy)  
<http://www.mtsn.tn.it/>

Professional advice in support of studies on the hydrographic system of the Noce River, within the program "long-term monitoring"

**Business or sector** Professional, scientific and technical activities

- Sep 03 - Dec 04 **Hydro-biologist**  
University of Florence - Dep. of Civil Engineering and Environment , Florence (Italy)  
<http://www.unifi.it/organizzazione/schedastruttura.php?codice=058506>  
Scientific coordination and supervision of the ecological aspects of the structural and functional characteristics of the river communities of the river Ombrone Pistoia within an interdisciplinary group aimed to integrated and sustainable river restoration proposals  
**Business or sector** Professional, scientific and technical activities
- Oct 03 - Oct 04 **Hydro-biologist**  
Basin Management Authority of Po River (Autorità di bacino del Fiume Po), Parma (Italy)  
<http://www.adbpo.it/on-multi/ADBPO/Home.html>  
Consulting assignment as a member of the technical and scientific buffer strips taskforce: a project for the protection of water quality through the implementation of buffer strips and other buffering ecosystems.  
**Business or sector** Professional, scientific and technical activities
- 03 **Hydro-biologist**  
University of Parma , Parma (Italy)  
<http://www.unipr.it/dipartimento/bioscienze>  
Collaboration in the preparation of the report on base naturalistic knowledge for the preparation of a National Plan for the Wetlands for the Italian Ministry of Environment  
**Business or sector** Professional, scientific and technical activities
- Nov 01 - Jan 04 **Hydro-biologist**  
Municipality of Dozza (Comune di Dozza), Bologna (Italy)  
Monitoring of water quality, assessment of the landscape and biodiversity value within the European project Sellustra LIFE: Planning and implementation of integrated methods for the recovery of the Val Sellustra area  
**Business or sector** Professional, scientific and technical activities
- Sep 00 - Jun 02 **Hydro-biologist**  
Drainage Water Authority (Consorzio di Bonifica Dese-Sile), Venice (Italy)  
<http://www.acquerisorgive.it/>  
Scientific collaboration in the European LIFE project on the use of forested buffer strips in agricultural areas  
**Business or sector** Professional, scientific and technical activities
- Jul 99 - Dec 02 **Hydro-biologist**  
Drainage Water Authority (Consorzio di Bonifica Acque Risorgive - former Cons. Bon. Dese-Sile), Venice (Italy)  
<http://www.acquerisorgive.it/>  
Scientific collaboration in the European project NICOLAS (ENV4-CT97-0395) "Interventions for environmental restoration along the lower course of the river Zero for the control and reduction of nutrients in the Lagoon of Venice"  
**Business or sector** Professional, scientific and technical activities
- Sep 98 - Mar 99 **Hydro-biologist**  
Municipality of Dozza (Comune di Dozza), Bologna, (Italy)

Scientific collaboration for the hydrobiological assessment of the stream Sellustra within the project of environmental recovery and restoration

**Business or sector** Professional, scientific and technical activities

Feb 96 - Jan 99

### Hydro-biologist

Tridentine Natural History Museum (Museo Tridentino di Storia Naturale), Trento, (Italy)

<http://www.mtsn.tn.it/>

Scientific collaboration in the European Union project ERMAS II (European River Margin Study) on the structure and function of riparian zones of rivers along a latitude gradient, in particular, the cycle of Nitrogen and Carbon in riparian zones and litter decomposition by macroinvertebrates

**Business or sector** Professional, scientific and technical activities

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### Hydro-biologist

Melbourne University - Dep. of Civil and Environmental Engineering, Melbourne (Australia)

<http://unimelb.edu.au/research/>

Scientific collaboration in a study on the environmental impact of some weirs for the collection of drinking water Melbourne supported by the Water Corporation

**Business or sector** Professional, scientific and technical activities

Nov 93 - Dec 95

### Hydro-biologist

Multi utility Consortium (CONAMI), Bologna, (Italy)

<http://www.con.ami.it/>

Research contract for the determination of the physical and chemical quality of the water, the phytoplankton primary production and the estimate of sestonic chlorophyll of Lake Bubano

**Business or sector** Professional, scientific and technical activities

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### Hydro-biologist

Reno River Basin Management Authority (Autorità di Bacino del Fiume Reno), Bologna, (Italy)

<http://ambiente.regione.emilia-romagna.it/suolo-bacino/chi-siamo/autorita-di-bacino/bacino-reno>

Scientific and technical activities related to bio-monitoring of water bodies

**Business or sector** Professional, scientific and technical activities

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### Hydro-biologist

Geological Assistance Service, Bologna (Italy)

<http://www.gas-survey.com/cms/>

Biological and Chemical Survey in the Adriatic Sea for the installation of a methane terminal

**Business or sector** Professional, scientific and technical activities

## EDUCATION AND TRAINING

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### Degree in Biological Sciences

EQF level 7

University of Bologna, Bologna (Italy)

Disertation: Hydrobiological investigations conducted on the Sieve river and streams Lora, Sura and Tavaiano in relation to the construction of the reservoir Bilancino in Tuscany Region

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### PhD in Ecology

EQF level 8

University of Parma, Parma (Italy)

Disertation: Analysis of the effects of the disorder of a dam on the community macrozoobentos in two water bodies Tuscan-Emilian Apennines

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
[Common European Framework of Reference for Languages](#)

Communication skills Good communication skills gained though long experience in teaching at the University and several seminars

Organisational / managerial skills In the last 25 years I have successfully managed several research projects, work packages, meeting and conferences, from small ones to those of international size, involving the partnership with different private / public institutions, the coordination of several collaborators, as well as, the related budgeting and reporting aspects. The leadership style that I am use to is "walk the talk". Set direction, share responsibilities, request individual accountability and support the team though best practices sharing in my consideration are the key success factor of a project.

Job-related skills As lecturer I always refer to the professional work as hydro-biologist. I am a very passionate teacher and very good in time and classroom management. I always request the involvement of the audience and promote the team work. I put particular attention on answering questions clearly. I have developed excellent IT skills and experienced e-learning environment, as well. The general attitude is to set tailored lessons and ask feed-back on regular basis. Another source of improvement of my job as a teacher is the meeting with ex trainees and hearing about impact of my workshops and lessons.

Computer skills Good in office package and in parametric and non-parametric open source statistics tools.

ADDITIONAL INFORMATION

Publications 60 publications see attached file

Memberships From 2018 Member of the European Citizen Science Association (ECSA)

Memberships From 2007 Member of the Board of the International Society of River Science (ISRS)

Memberships From 2005 to 2011 member of the Board of European Centre River Restoration (ECRR)

Memberships From 2004 to 2006 Member of the Experts Committee of the LIFE project "Forest for Water" - Swedish Forest Authority - In charge of setting guidelines for the implementation of the Ue Water Quality directive (2000/60)

Memberships From 2004 Member of the Italian Association of Environmental Analysts

Memberships From 1999 to 2009 Founding member of the Italian Centre River Restoration

Memberships From 1990 Member of the Italian Society of Ecology (S.It.E)

Memberships From 1990 Member of the Italian National Order of Biologists



- Seminars** (2009) "Long term experience (almost 10 years) with nitrogen removal in a wooded experimental" - Australian Rivers Institute - Seminar Series. 2009. Griffith University, Brisbane, Australia
- Seminars** (2007) "Integrated strategies for nitrate reduction within the Venice Lagoon Basin" - Australian Rivers Institute - Seminar Series. 15 March 2007. Griffith University, Brisbane, Australia.
- Seminars** (2004) Workshop on "Theoretical foundations of river ecology for the sustainable management of rivers" University of Florence - Faculty of Engineering, Master in flood risk
- Presentations** (2011) "Integrating riparian / floodplain wetland and river restoration in Europe" (Oral communication as invited speaker) IWA. 15th International Conference of IWA diffuse pollution specialist. "Diffuse pollution and eutrophication". Symposium. "Bringing Together Science and Policy to Protect and Enhance Wetland Ecosystem Services in Agricultural Landscapes". Symposium sponsored by the OECD Co-operative Research Programme. 18-23 September 2011. Rotorua, New Zealand.
- Presentations** (2011) "The efficiency in nitrogen removal of a irrigated buffer area" (Oral communication) HydroEco 2011 3rd International Multidisciplinary Conference on Hydrology and Ecology. "Ecosystems, groundwater and surface water-pressure and options". 2-5 May 2011. Vienna, Austria
- Presentations** (2010) "Nitrogen removal by a irrigated wooded buffer area" (Oral communication) 12th International Conference on Wetland Systems for Water Pollution Control. 4-9 October 2010. Venice, Italy
- Presentations** (2009) "Interactions between Riparian zones and channel adjustments in incised alluvial channels" (Oral communication) The First Triennial Symposium for the International Society for River Science, St Pete Beach, Florida from 12 to 17 July 2009
- Presentations** (2009) "Experience with nitrate removal by forest systems within Venice lagoon basin related with future needs and changes" (Oral communication) INTECOL 10th International Congress of Ecology, Brisbane Australia from 16 to 21st of August 2009
- Presentations** (2009) "River Restoration: a European picture" (Oral communication invited speaker) River symposium Brisbane Australia from 21st to 24th of September 2009
- Presentations** (2008) "Anthropogenic evolution of geomorphology in river valleys and its effect on floodplain vegetation communities" (Oral communication invited speaker) Eco-hydrological Processes and Sustainable Floodplain Management, (Poland) Lodz 19 – 23 May 2008
- Presentations** (2007) "Integrated strategies in Nitrate reductions within the Venice Lagoon Basin" FAO Roma, 25th April 2007, invited speaker.
- Presentations** (2006) "De-nitrification pattern in an experimental buffer area" (Oral communication) International Conference on "Riverine Hydro-ecology: Advances in Research and Applications" August 14-18 2006 - University of Stirling Scotland
- Presentations** (2005) "The downstream effect of hydropower release in an Alpine glacial stream" (Poster) 53<sup>rd</sup> Annual Meeting of the North American Benthological Society (NABS) May 23-27 2005 New Orleans LA (United States)

- Presentations** (2005) "De-nitrification as a challenge for agriculture, environment and basic research" (Oral communication) COST Action 856: "Ecological Aspects of De-nitrification, with Emphasis on Agriculture" 3rd Scientific Meeting - Padua, Italy, April 6-10, 2005
- Conferences** (2004) Poster COST Action 856. 'Ecological Aspects of De-nitrification, with Emphasis on Agriculture' 2nd Scientific Meeting -Marburg, Germany, March 25 – 28, 2004
- Conferences** (2003) Poster - International Conference: Southern European Coastal Lagoons: the influence of River Basin-coastal zone interactions 10/11/03 - 12/11/03 Castello Estense, Ferrara, Italy
- Conferences** (2003) Oral presentation - The 8th Symposium on Biogeochemistry of Wetlands. September 14-17, 2003 Het Pand, Gent, Belgium
- Conferences** (2001) Poster - Riverine, Landscape First International symposium, 26 – 31 Marzo 2001 - Ascona (Switzerland)
- Conferences** (2000) Poster - 48° Annual Meeting of the North American Benthological Society (NABS) May 29th - June 1st, 2000 - Keystone Resort – Colorado (United States)
- Conferences** (1999) Oral presentation - 2nd International Meeting on "Plant and Litter Processing in Freshwaters" Lunz (Austria) September 22-24, 1999
- Conferences** (1998) Oral presentation - XXVII SIL International Congress, August, 21-27, 1998 - Dublin (Ireland)
- Conferences** (1988) Oral presentation - VII International Congress of Ecology INTECOL Florence (Italy) 19-25 July 1998
- Conferences** (1996) Poster - International Conference on Buffer Zones: their processes and potential in water protection. 30 August - 2 September 1996 - Heythrop Park, Enstone Oxfordshire (Great Britain)
- Conferences** (1993) Oral presentation - Rehabilitation of Rivers. International workshop, 16-18 December 1993. International Centre of Landscape Ecology I.C.O.L.E, Loughborough University Great Britain
- Conferences** (1992) Oral presentation - XXV SIL International Congress, August, 21-27, 1992 - Barcelona (Spain)
- Honours and awards** (1997) "Marchetti Award" for the presentation "Study of the functional aspects of the riparian ecotones of the Po River: preliminary results of ERMAS II project at the VII Congress of the Italian Society of Ecology, Parma (1997
- Honours and awards** July 1989 Scholarship Aquaculture Project to evaluate the attributes of hydro-biological some fish farm ponds paying special attention to the study of phytoplankton communities and zoobenthos present in reservoirs used for fish farming, the determination of heavy metals in tissues of freshwater teleost

## LIST OF PUBLICATIONS

Impact factor journals

1. GUMIERO B., Candoni F. , Boz B. , da Borso F. , Colombani N., Mastrocicco M. (2019) Nitrogen Budget of Short Rotation Forests Amended with Digestate in Highly Permeable Soils. *Applied Sciences* 9(20):4326 DOI: 10.3390/app9204326 (2019)
2. Colombani N., Boz B., GUMIERO B. and Mastrocicco M. 2017. Monitoring nutrients fate after digestate spreading in a short rotation buffer area. *Environmental Science and Pollution Research* 24(29)
3. GUMIERO B. and B. Boz. **2016** - How to stop nitrogen leaking from a Cross compliant buffer strip?. *Ecological Engineering* DOI 10.1016/j.ecoleng.2016.05.031.
4. Boz B., G. Pipitone, GUMIERO B., P. Bazzoffi, L. Sansone – **2016** - Analysis of suspended solids and Glyphosate and efficacy of the cross-compliance standard 5.2 "buffer zones" in the protection of superficial water from suspended solids in runoff conveyed through a vineyard. **Ital. J. Agron. 2015;10(s1):701**
5. GUMIERO B., B. Boz, A. Lagomarsino , R. Napoli, F. Montemurro, L. Borrelli, R. Francaviglia, S. Carnevale, A. Rocchini, A. E. Agnelli , A. Fiore, G. Cabassi, B. Pennelli A. Gasparini, G. Moretti, P. Bazzoffi. **2015** - Effectiveness of cross-compliance standard 5.2 "buffer strips" protecting freshwater against diffuse nitrogen pollution. **Ital. J. Agron. 2015;10(s1):722**
6. Boz B. and GUMIERO B. **2015** – Denitrification activity in a wooded riparian area. **Hydrobiologia**, pp. 1-16. Article in Press. DOI: 10.1007/s10750-015-2609-2
7. GUMIERO B., M. Rinaldi, B. Belletti, D. Lenzi and G. Puppi. **2015**. Riparian vegetation as indicator of channel adjustments and environmental conditions: the case of the Panaro River (Northern Italy). **Aquatic Sciences: Volume 77, Issue 4 (2015), Page 563-582.**
8. Mastrocicco M., N. Colombani, E. Salemi, B. Boz and B. GUMIERO- **2015** Managed aquifer recharge via infiltration ditches in short rotation afforested areas. **Ecohydrology** DOI: 10.1002/eco.1622.
9. Mizanur Md. Rahman, M. Basaglia, L. Favaro, B. Boz, B. GUMIERO, S. Casella. **2014**. A wooded riparian strip set up for nitrogen removal can affect the water flux microbial composition **Italian Journal of Agronomy** vol 9:548 pg 33-37
10. Mastrocicco M., Boz B., Colombani N., Carrer G. M., Bonato M. and B. GUMIERO - **2014**. Modelling groundwater residence time in a sub-irrigated buffer zone. **Ecohydrology** 7: 1054–1063. doi: 10.1002/eco.1437. A.
11. Mizanur Md. Rahman, Marina Basaglia, Elena Vendramin, Bruno Boz, B. GUMIERO, Sergio Casella. - **2013** Bacterial diversity of a wooded riparian strip soil specifically designed for enhancing denitrification process. **Biology and Fertility of Soils** – vol 49 (4) DOI 10.1007/s00374-013-0828-0.
12. Boz, B., Rahman, M.M., Bottegal, M., Basaglia, M., Squartini, A., B. GUMIERO Casella, S. (**2013**). Vegetation, soil and hydrology management influence denitrification activity and the composition of nirK-type denitrifier communities in a newly afforested riparian buffer, **New Biotechnology**, <http://dx.doi.org/10.1016/j.nbt.2013.03.009>.
13. GUMIERO B., Mant J., Hein T., Elso J., Boz B. **2013** Linking the restoration of Rivers and Riparian zones/Wetlands in Europe: sharing knowledge through case studies. **Ecological Engineering** .
14. GUMIERO B., Boz B., Cornelio P., Casella S. (2011), Shallow groundwater nitrogen and denitrification in a newly afforested, subirrigated riparian buffer, **Journal of Applied Ecology**, 48: 1135-1144. doi: 10.1111/j.1365-2664.2011.02025.x-ISI listed Journal.
15. Rinaldi M., A. Gurnel, W. Bertoldi and B. Gumiero eds. 2009 special issue of **River research and application** special issue.
16. Pinay G.; B. GUMIERO B.; E. Tabacchi; A.M. Tabacchi-Planty ; M.M. Hefting ; T.P. Burt ; V.A. Black; C. Nilsson; V. Iordache ; F. Bureau ; L. Vought; H. Décamps **2007**. Patterns of denitrification rates under various hydrological regimes in European alluvial soils. In **FreshWater Biology** 52 (2)252-266.
17. Haycock N., B. GUMIERO, B. Boz, V. Vardiero, G. Baldo, P. Cornelio., 2005 - "Il progetto Fasce Tampone Boscate (FTB) del Consorzio di Bonifica Dese Sile: uno strumento utile al risanamento della Laguna di Venezia" - Atti dei

- convegni Lincei 216 - Giornata Mondiale dell'Acqua - Acqua e copertura vegetale (Roma, 22 marzo 2004) - **Accademia Nazionale dei Lincei** - Barbi Editore pp. 127-134.
18. Braioni M. G., GUMIERO B. Salmoiraghi P., 2001, Leafbags and Natural Leaf Packs: two approaches to evaluate river functional characteristics, *Internat. Rev. Hydrobiol.* 86 (4-5) : 439 – 451
  19. Salmoiraghi G., GUMIERO B., Pasteris A., Prato S., Bonaccina C. and Bonomi G., 2001, Breakdown rates and macroinvertebrate colonisation of alder (*Alnus glutinosa*) leaves in an acid lake (lake Orta, N Italy), before, during and after a liming intervention, *J. Limnol.* 60 (1) :127 - 133
  20. Pinay G., Black V. J., Planty-Tabacchi A. M., GUMIERO B., and Decamps H., 2000, Geomorphic control of denitrification in large river floodplain soils, *Biogeochemistry* 50 : 163-182
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