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Decreto Rettore Università di Roma "La Sapienza" n 203 del 17/1/2019 Codice concorso 2018POR042

GIUSEPPE SAPPA Curriculum Vitae ai fini della pubblicazione

Place Rome Date 14th February, 2019

Part I – General Information

i art i – General information	
Full Name	Giuseppe Sappa
Spoken Languages	Italian, English, French

Part II – Education

Туре	Year	Institution	Notes (Degree, Experience,)
University graduation	1987	Sapienza University of Rome	Degree in Civil Hydraulic Engineering, completed with a grade of 110/110 cum Laude. Thesis discussed "Characterizing unstable systems via inclinometer measurements"
Licensure 01	1987	Sapienza University of Rome	Licensure exam for admission to the Order of Engineers
Licensure 02	1989	Order of Engineers of the Province of Rome	Admission in Register A
Licensure 03	1998	Sapienza University of Rome	Certificate of attendance of course prescribed in Art. 10 of the D.Lgs. 494/96 confirmed in 2013 and in May 2018
Licensure 04	2011	Order of Geologists of Lazio	Admission in the Special Register

Part III – Appointments

IIIA – Academic Appointments

	IIIA – Academic Appointments		
Start	End	Institution	Position
02/01/1991	17/12/1996	Department of Hydraulics, Transportation and Roads, Faculty of Engineering - Sapienza University of Rome	Technical Collaborator in Applied Geology
18/12/1996	31/10/2006	Department of Hydraulics, Transportation and Roads, Faculty of Engineering - Sapienza University of Rome	University Researcher, scientific disciplinary section GEO05 "Applied Geology and Hydrogeology", confirmed from 18/12/1999
01/11/1999	31/10/2001	Sapienza University Faculty of Engineering	Member of the Faculty Board for Quality Engineering Enhancement
01/11/2002	31/10/2009	Department of Hydraulics, Transportation and Roads, Faculty of Engineering - Sapienza University of Rome, now DICEA Department	Member of PhD Board, Hydraulic and Environmental Engineering
01/11/2002	present	Department of Hydraulics, Transportation and Roads, Faculty of Engineering - Sapienza University of Rome, now DICEA Department	Member of the Curriculum Committee, Engineering Faculty, Rieti

AY 2002/2003	AY 2005/2006	Faculty of Engineering - Sapienza University of Rome	Tutor and PhD thesis supervisor (18 th cycle) in Environmental Engineering
01/11/2003	31/10/2012	Faculty of Engineering - Sapienza University of Rome	Council Member and Manager of the Technical Secretariat for the Construction Site Safety Course
AY 2003/2004	AY 2006/2007	Faculty of Engineering - Sapienza University of Rome	Tutor and PhD thesis supervisor (19 th cycle) in Environmental Engineering
01/11/2004	31/10/2012	Faculty of Engineering - Sapienza University of Rome	Coordinator of the Construction Site Safety Course
01/11/2006	present	Department of Hydraulics, Transportation and Roads, Faculty of Engineering - Sapienza University of Rome, now DICEA Department	Associate Professor, scientific disciplinary section GEO05 "Applied Geology and Hydrogeology", confirmed from 2/11/2009
01/11/2006	present	Department of Hydraulics, Transportation and Roads, Faculty of Engineering - Sapienza University of Rome, now DICEA Department	Scientific Head of the Laboratory of Applied Geology and Geotechnics
AY 2006/2007	AY 2009/2010	Faculty of Engineering - Sapienza University of Rome	Tutor and PhD thesis supervisor (22 th cycle) in Chemical Engineering
01/11/2008	30/10/2017	Faculty of Engineering - Sapienza University of Rome	Substitute Vice-Director of the Workplace Safety Enhancement Course
2008	present	CRITEVAT, Reatin Research Center of Engineering for the Protection and Enhancement of the Environment and Territory	Member for DICEA, which is part of the CRITEVAT
AY 201	10/2011	PhD School - Politecnico di Torino	Member of the Final Exam Committees of the PhD Board in Civil and Environmental Engineering (23 th cycle)
01/11/2011	present	Department of Hydraulics, Transportation and Roads, Faculty of Engineering - Sapienza University of Rome, now DICEA Department	Member of PhD Board in Hydraulic and Environmental Engineering
AY 201	1/2012	PhD School - Politecnico di Torino	Member of the Final Exam Committees of the PhD Board in Civil and Environmental Engineering (24 th cycle)
AY 2013/2014	AY 2017/2018	Faculty of Engineering - Sapienza University of Rome	Tutor and PhD thesis supervisor (29 th cycle) in Environmental Engineering
AY 2013/2014		PhD School – Politecnico di Torino	Member of the Final Exam Committee of the PhD Council in Civil and Environmental Engineering (26 th cycle)
2014		Faculty of Engineering - Sapienza University of Rome	President of the Licensure Exam Committee for admission to the Order of Engineers
AY 2014/2015	AY 2017/2018	Faculty of Engineering - Sapienza University of Rome	Tutor and PhD thesis supervisor (30 th cycle) in Environmental Engineering
11/09/2015	present	Department of Hydraulics, Transportation and Roads, Faculty of Engineering - Sapienza University of Rome, now DICEA Department	Chair of the Curriculum Committee for the Sustainable Building and Environmental Engineering Course
01/11/2017	present	Department of Hydraulics, Transportation and Roads, Faculty of Engineering - Sapienza University of Rome, now DICEA Department	Chair of the Sustainable Building Engineering Degree Course Start up Project – First Engineering Degree Course of Sapienza offered in English
AY	present	Faculty of Engineering - Sapienza	Tutor and PhD thesis supervisor (33 th

2017/2018		University of Rome	cycle) in Environmental Engineering
28/11/2017	28/11/2023	Italian Ministry of Education, Universities and Research (MIUR)	Award of the National Scientific Qualification as Full Professor for the SC 04/A3, SSD GEO/05 in 2017
AY 2018/2019	present	Faculty of Engineering - Sapienza University of Rome	Tutor and PhD thesis supervisor (34 th cycle) in Environmental Engineering

IIIB – Other Appointments

Start	End	Institution	Position
July 1998	present	Superior Council on Public Works	Invited as an expert attendee to the II, III, and IV sessions
1999	2000	EAAP – Apulia Network Company	Member of the Investigation Commission activated by the Special Commissioner to verify second tunnel feasibility between Caposele and Conza
October 1999	May 2003	Special Scientific Commission jointly established by the Ministry of the Environment and the Ministry of Internal Affairs	Member of the Scientific Commission for the waste emergency in the Roma Metropolitan Area
October 1999	2012	Lazio Regional Basin Authority	Member of the Technical Scientific Committee for the Lazio Regional Basin Authority ex lege 183/89 and subsequent modifications
20	001	Presidency of the Council of Ministers	Consultant for a pro-veritate opinion on the feasibility of an urban garbage dump in an alluvial plain of the Mate River in Albania within the framework of the ARCOBALENO MISSION
June 2003	June 2008	Special Scientific External Committee, jointly established by the Ministry of Environment and the Ministry of Internal Affairs	Member of the Special Scientific External Committee for the waste emergency in the Lazio Region
June 2007	December 2007	Italian Foreign Affairs Ministry	Hydrogeology Expert in the Hydraulic Commission, established during the V meeting of the Monitoring Committee for the South Sahara Programme, for the land reclamation and date tree planting project in Rjim Matoug (Tunisia)
December 2007	April 2008	Lazio Region – Water Resources Area	Lazio Region Representative on the Committee to assess the effects of the ENEL Inc. hydroelectric power stations on the flow regimes of the High Aniene Valley
July 2014	December 2018	Superior Health Council	Permanent expert for Mineral Waters release inside the III Section
January 2017	present	International Association of Hydrogeologists (IAH)	Director of IAH Coastal Aquifers Management and Coastal Zone Dynamics Network
2018	present	Leonardo Global Solutions S.p.A.	High Scientific Consultant for Management and Remediation of contaminated sites

Part IV – Teaching experienceYearInstitutio

from AY 2016/2017 to present	Faculty of Engineering, Sapienza University of Rome (Rieti Campus)	Contaminated Site Management
from AY 2012/2013 to present	Faculty of Engineering, Sapienza University of Rome (Rome Campus)	Applied Hydrogeology, 2 nd cycle Master Program in Environmental and Territorial Engineering
from AY 2009/2010 to present	Faculty of Engineering, Sapienza University of Rome (Rieti Campus)	Applied Geology, 1 st cycle, Degree Course of Construction and Territorial Engineering
from AY 2006/2007 to present	Faculty of Engineering, Sapienza University of Rome (Rome Campus)	General and Applied Geology, 1 st cycle, Degree Course of Environmental and Territorial Engineering
from AY 2006/2007 to AY 2008/2009	Faculty of Engineering, Sapienza University of Rome (Civitavecchia Campus)	Applied Geology in the Degree Course, 1 st cycle, Safety and Protection Engineering
from AY 2006/2007 to AY 2008/2009	Faculty of Engineering, Sapienza University of Rome (Rieti Campus)	Applied Geology, 1 st cycle, Degree Course in Environmental and Territorial Engineering
from AY 2002/2003 to AY 2008/2009	Faculty of Engineering, Sapienza University of Rome (Rieti Campus)	Applied Hydrogeology, 1 st cycle Degree Course in Environmental and Territorial Engineering
from AY 2002/2003 to AY 2005/2006	Faculty of Engineering, Sapienza University of Rome (Rieti Campus)	Applied Geology, 1 st cycle, Degree Course of Environmental and Territorial Engineering
from AY 2001/2002 to AY 2009/2010	Faculty of Engineering, Sapienza University of Rome	Module "Risks and remediation for groundwater", Master of Emergency Management"
from AY 2001/2002 to AY 2002/2003	Faculty of Engineering, Sapienza University of Rome (Rome Campus)	Excavation Engineering, 1 st cycle, Degree Course in Environmental and Territorial Engineering
AY 2000/2001	Faculty of Engineering, Sapienza University of Rome	Module "Hydrogeological Risks", specialization course "Evaluating the Environmental Impact of Civil Infrastructure"
AY 1999/2000	Faculty of Engineering, Sapienza University of Rome (Latina Campus)	Aquifers Engineering, 1 st cycle, Degree Course in Environmental and Territorial Engineering
from AY 1998/1999 to AY 2001/2002	Faculty of Engineering, Sapienza University of Rome (Rome Campus)	Excavation Engineering in Diploma Course in Environmental and Natural Resources Engineering

Part V – Advanced teaching experience

Year	Institution	Lecture/Course
from 25/02/2018 to 11/03/2018	Italian Environmental Ministry with Sapienza University and Politecnico di Milano	SICAB (Sino Italian Capacity Building for Environmental Protection) - Training Italy-China Module 1 "Environmental pollution control" – 24 hours
17/02/2018	INTEMA Engineering Association	Professor of the seminar "Environmental monitoring in the design and execution of civil engineering works"
13/01/2018	INTEMA Engineering Association	Professor of the seminar "Danger and seismic prevention"
18/11/2017	INTEMA Engineering Association	Professor of the seminar "Origin and

Codice Concorso 2018POR042 – Settore Concorsuale 04/A3 – SSD GEO/05 – Candidato Giuseppe Sappa

		characterization of natural materials in buildings"
11/11/2017	INTEMA Engineering Association	Professor of the seminar "Environmental characterization of soils and groundwater"
22/06/2017	Eduardo Mondlane University, Maputo	"Geochemical and Hydrogeological monitoring and assessment of the buffer zone of Limpopo National Park" in the framework of SECOSUD Phase II project
AY 2014/2015	Faculty of Engineering, Sapienza University of Rome	Processor for the "Groundwater Protection" module in the Second Level University Master in Management and Maintenance of Ecological Plants
10 June 2014	Ardhi University of Dar es Salaam (Tanzania)	"Groundwater management in Dar Es Salaam coastal aquifer under climate change pressure" in the framework of ACC-DAR project
AY 2013/2014	University of Rome "Tor Vergata"	Professor of the "Field tests for hydrogeology" course for the M007-F module (Recall of Applied Geology) of the second level University Master in Environmental techniques and controls (MUTECA)
19 September 2013	Ardhi University of Dar Es Salaam (Tanzania)	"Seawater intrusion monitoring" in the framework of ACC-DAR project
from AY 2001/2002 to AY 2009/2010	Faculty of Engineering, Sapienza University of Rome	Professor of the module "Risks and interventions on groundwater" in the Emergency Master
November 1997	620 COST ACTION Vulnerability and risk mapping in carbonatic karst aquifers-DG XII, European Commission	"Application of geochemical and isotopic method ⁸⁷ Sr/ ⁸⁶ Sr in hydrogeological characterization of carbonatic aquifers" - Invited Speaker

Part VI - Society memberberships, Awards and Honors

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Year	Title
2019 - current	Member of the National Association of Mining Engineers
1999 current	Member of the Italian Association of Applied Geology
1999 current	Member of the International Association of Hydrogeologists, and served as a member of the Advisory Board for the Italian Committee (from 1999 to 2011)
1998- current	Member of the International Association of Environmental Geology
1996 current	Member of the Italian Tunnel Association
1995-current	Member of the Association for Earth Resources and the Environment – Groundwater Section
1985-current	Member of the Executive Committee for Central Italy of the Hydrotechnical Association of Italy

Part VII – Main Editorial Activities

Year	Journal
Since 2018	Reviewer for Science of the Total Environment (Q1), Elsevier
Since 2018	Reviewer for Desalination and Water Treatment (Q2)
Since 2017	Reviewer for Groundwater for Sustainable Development (Q2), Elsevier
Since 2017	Reviewer for Arabian Journal of Geosciences (Q3), Springer

Since 2017	Reviewer for Ecohydrology and Hydrobiology (Q2), Elsevier
Since 2017	Reviewer for Journal of Hydrology (Q1), Elsevier
Since 2016	Reviewer for Environmental Earth Sciences (Q2), Springer
Since 2016	Reviewer for Geosciences (Switzerland) (Q2), MDPI
Since 2015	Reviewer for Water (Switzerland) (Q1), MDPI
Since 2013	Reviewer for Italian Journal of Groundwater
Since 2013	Member of the Editorial Board of the Italian Journal of Groundwater
2011 and 2015	Author of 2 editions of "Geologia Applicata", CittaStudi Editor- De Agostini Group ¹
2011	Author with M.T. Coviello of "Processi di salinizzazione degli Acquiferi Costieri della
2011	Pianura Pontina", Pitagora Editor
2007	Author with M. Rossi of "Idrogeologia del Sistema Acquifero della Pianura Pontina"
	S.E.L.C.A.

Part VIII - Collaboration with Universities and Research Institutions

Institut fur Hydrogeologie u. Geothermie, Joanneum Research (Graz, Austria) Institute of Geology (Zagreb, Croazia) Institute of Nuclear Research of the Hungarian Academy of Sciences (Debrecen, Ungheria) Department of Applied Geology, University of Karlsruhe (Karlsruhe, Germania) Faculty of Geology, University of Athens (Atene, Grecia) Ardhi University (Dar es Salaam, Tanzania) Universidade Edouarde Modlane (Maputo, Mozambico) Hellenic Society for the Protection of Nature (Atene, Grecia) Institute of Mediterranean Forest Ecosystems, Hellenic Agricultural Organization (DEMETER) (Atene,

Grecia

University of Navrongo (Ghana)

Part IX – Patents and Technological Transfer

Year	Title
2018	No. Patent 102016000046289 "Hybrid seismic response mapping system"
	Deposit Date 05/05/2016. Publication Date 23/11/2018 (Attachment 1)
2017	Guidelines for technical and environmental tests for ceramic tile production with the addition
	of MSWBA (Municipal Solid Waste Bottom Ash), approved by the Lazio Region, the
	Government of the Waste Cycle Management, with Determination no. G13381 of 11 th
	November 2016 (Attachment 2)

¹ Up today they have been sold about 2.000 copies. *Codice Concorso 2018POR042 – Settore Concorsuale 04/A3 – SSD GEO/05 – Candidato Giuseppe Sappa* 6/14

Fart A - Fun	Fart X - Funding Information [grants as F1-principal investigator or 1-investigator]			
Year	Program Title	Institution	Position	Grant value (€ excluding VAT)
1997-2002	COST ACTION 620 Vulnerability and risk mapping in carbonatic karstic aquifers	DG XII, European Commission	Ι	۲ ₂
1999-2002	COST ACTION 621 Groundwater management of coastal karstic aquifers	DG XII, European Commission	Ι	א ^י
2001	Data management model based on the continuous and discontinuous monitoring of chemical and physical parameters in the Cotilia Plain (Castel Sant'Angelo, Rieti)	Lazio Region	PI	25,822.84
2002	Definition of the Minimum Vital Outflow in the Peschiera River inside the Tiber River Basin, in the San Vittorino Plain (RI)	Lazio Region	PI	20,000.00
2002-2003	Analysis model for "risk sinkholes" in the San Vittorino Plain (RI)	Lazio Region	ΡI	15,000.00
2002-2004	Definition of the tools for drafting Sustainable Water Use Plans with respect to the hydrogeological structures of the Lepini, Ausoni, Aurunci, and Grande Mountains and the groundwater systems of the Pontina and Fondi plains in the Lazio Region	Lazio Regional Basin Authority	PI	206,583.00
2002-2004	Verification, updating, and final drafting of the proposal to update the General Regulatory Plan for the Water network in the Lazio Region ³	Lazio Region	PI	240,000.00
2003	Hydrogeological studies for the definition of operating tools of the Compatible Water Use Plan in the Southern Lazio Region	Lazio Region ABR2	PI	80,000.00
2003	Hydrogeological and Hydraulic assessment of the Forme d'Aquino basin, feeding Capo d'Acqua spring, in Castrocielo (FR), in the aim of its exploitation	Lazio Region	PI	109,000.00
2003-2004	Set up a data acquisition system for monitoring the hydrogeological budget of South Latium regional aquifers	Lazio Region Basins Authority	PI	80,000.00
2003-2009	Classification methodology for hydrogeological risk assessment and its application referred to Tiber River Valley inside the metropolitan area of Rome	Tiber River Basin Authority	PI	91,000.00
2004-2009	Study of flooding areas of the minor network and start-up of the revision of the hydrogeological risk assessment plan PS1 in the Middle Tiber Valley ⁴	Lazio Region and Tiber River Basin Authority	PI	252,315.42
2005	Hydrogeological assessment of the urban solid wastes landfill in Borgo Montello area (LT)	Ind.Eco. Srl	PI	30,000.00
2005	Hydraulic and geotechnical research aimed to ensure the environmental safety of dams	Regione Lazio DRAPC	PI	70,000.00
2006	Hydrogeological study for the protection of the Mazzoccolo Spring	Municipality of Formia (LT)	PI	10,000.00

Part X - Funding Information [grants as PI-principal investigator or I-investigator]

COST ACTION had no grant, ma only the budget for supporting meetings and short missions
 Adopted by Latium Government on the 27/08/2006
 Approved by the Scientific and technical Committee of Tiber River Basin Authority in December 2009
 Codice Concorso 2018POR042 – Settore Concorsuale 04/A3 – SSD GEO/05 – Candidato Giuseppe Sappa

	2012	2012	2011-2013	2011	2011	2011	2011	2011	2010	2009-2010	2009	2008-2009	2008-2009	2008	2008	2007-2008	2007
Coding Converses 2018000012 - Settory Concession/2 01/12 - SSD GEO/05 -	Study aimed at identifying the methods of treatment and/or the methodologies for laying material in the Fiumicino reclaimed crate	Hydrogeological aspects relating to the supply of drinking water for the Preliminary Project of interventions for water purification in the Optimal Territorial Area 1 Lotto II, Viterbo	Adapting to Climate Change in coastal Dar Es Salaam – DEVCO Project – European Commission	Hydrogeological aspects relating to the supply of drinking water for the Preliminary Project of interventions for water purification in the Optimal Territorial Area 1 Lotto I, Viterbo	Geological characterization of the excavation site involved in dredging sediments destined to complete the extension works of Molo 26 in Civitavecchia	Mathematical model of the Tiber river from Castel Giubileo to the mouth	Hydraulic risk assessment of the Municipality of the Monterotondo Scalo	Elaboration of hydrogeological reports with flow measurements and pluviometric assessments as per the requirements of the Province of Rome	Overall assessment of the current status of the hydraulic risk zones in the metropolitan section of the Tiber river from Castel Giubileo to the mouth	Coordination and drafting of procedures for the Environmental and Strategic Evaluation of the Land Reclamation and Irrigation Plan	Hydrogeological risk assessment and safety intervention design of Interporto area	Interventions for the hydraulic safety of the transom on the Marta River in Lake Bolsena	Coordination and drafting of the procedure for the Environmental and Strategic Evaluation of the Three-year Plan for the Coast	Soil threshold values for some metals in the excavation area of the S8 basin of the urban wastesolid landfill in Borgo Montello area (LT)	Feasibility study of a project for a waste-recycling plant containing gypsum in the field of gypsum-based building materials produced at the Casola Valsenio plant (RA)	Technical support to Latium Region in the application of DLgs. 112/1998, referred to dams and barrages, under its Administration and set up of a webgis aimed to their management.	Hydrogeological risk assessment of a small river inside the municipal area
Candidato Cinconno Sanna	Roman Ports Authority	Lazio Region- Extraordinary Emergency Commissioner for drinking water contaminated from Arsenico	European Union – DG DevCo	Lazio Region- Extraordinary Emergency Commissioner for drinking water contaminated from Arsenico	Roman Ports Authority	ARDIS Lazio	Romana Calcestruzzi SpA	ACEA Ato 2 S.p.A.	Tiber River Basin Authority	Lazio Region	Interporto Centro Italia S.p.A.	Lazio Region	Lazio Region	Ind.Eco. Srl	BPB S.p.A.	Lazio Region	Municipality of Alatri
	PI	PI	PI after PI death	PI	PI	PI	ΡI	PI	PI	PI	PI	ΡI	PI	PI	PI	PI	PI
0/1/	140,000.00	98,000.00	800,000.00	00.00,80	160,000.00	30,000.00	18,000.00	70,000.00	45,000.00	55,000.00	30,000.00	310,000.00	131,145.00	30,000.00	15,000.00	201,145.00	8,000.00

Codice Concorso 2018POR042 – Settore Concorsuale 04/A3 – SSD GEO/05 – Candidato Giuseppe Sappa

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Codice Concorso 2018POR042 – Settore Concorsuale 04/A3 – SSD GEO/05 – Candidato Giuseppe Sc	pproved by waste solid Cycle Area of Lanum Kegion with n. 013381 Act 11/08/2017

Codice Concorso 2018POR042 – Settore Concorsuale 04/A3 – SSD GEO/05 – Candidato Giuseppe Sappa	⁵ Approved by Waste solid Cycle Area of Latium Region with n. G13381 Act 11/08/2017	
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2018-present	2018	2018	2017- present	2017	2017	2016- present	2016	2016	2016	2015	2015	2014-present	2013
High Scientific Consultant for Remediation of contaminated sites	Hydrogeological and geochemical study of the results of the groundwater monitoring in the area involved in the construction of the Arcisate - Stabio railway line	Final report on the application of the Protocol for technical and environmental tests for ceramic tile production with the addition of MSWBA(Municipal Solid Waste Bottom Ash), and approved by the Lazio Region (Determination n. G13381), on three cycles of experimentation to be carried out at a distance of one week from each other	Lake Bracciano as a drinking water resource: ecological and hydrogeological aspects - environmental consequences due to the maintenance of withdrawals from the Lake	Environmental characterization of the site for the location of the landfill for non-hazardous waste in the Casoni area in the municipality of Chieti	Studies and research for the development of assessment methods and mitigation of seismic risk of buildings	SECOSUD Phase II project, called "Conservation and equitable use of biological diversity in the SADC region (Southern African Development Community)	New treatment technologies for natural arsenic enriched groundwater	Preliminary planning of the hydrogeological safety of Fosso la Valle in the Municipality of Catalice (RI)	Protocol for technical and environmental tests for ceramic tiles production with addition of MSWBA (Municipal Solid Waste Bottom Ash) ⁵	Improving Water Cycle Management in Temeke, Dar es Salaam (Tanzania)	Definition of the reference chemical values for some analytes in subterranean groundwater the area of insertion of the landfill for non-hazardous waste in Cerreto in the municipality of Roccasecca (FR)	Environmental Monitoring Plan in ante-operam phase related to the realization of the catchment project from the Pertuso Spring to the Ceraso booster plant	Hydrogeological model set up of the area Monti dell'Ortaccio, in Rome, with the aim of evaluating the environmental impact of the project for the new urban solid wastes landfill of Rome.
Leonardo Global Solutions	RFI S.p.A.	SaxaGres S.p.A.	ACEA Ato 2 S.p.A	Ind. Eco.S.p.A.	Municipality of Rieti	Department of Envrironmental Biology (DBA) – Sapienza University of Rome	Sapienza University of Rome	Municipality of Cantalice (RI)	SaxaGres S.p.A.	Sapienza University of Rome	MAD Mediterranea S.r.l.	ACEA Ato 2 S.p.A.	Co.La.Ri. S.p.A. su Ordinanza del Commissario Straordinario per l'Emergenza dei Rifiuti nella Provincia di Roma
PI	PI	PI	Ι	ΡI	ΡI	Ι	ΡI	ΡI	ΡI	PI	PI	Ι	PI
20,000.00	38,000.00	20,000.00	180,000.00	13,000.00	132,960.00	60,000.00	10,000.00	14,000.00	8,000.00	8,500.00	13,000.00	720,000.00	80,000.00

Scientific and technical support activities aimed at defining a methodology to	2018- present Scientific and technical support activities aimed at a designing a saltwater Acqualatina S.p.A. intrusion monitoring system in the 25 Ponti area (Formia, LT)	2018- presentCoReIIV Project: Remote control for the security of water infrastructure in vulnerable areasLazio Region (K Technologies – KE	2018- presentLIFE17 NAT/GR/000511 "Restoration, management and valorization of PRIorityDepartment of En Biology (DBA)abitats of MEDiterranean coastal areas"University of Rom	S.p.A.
Scientific and technical support activities aimed at defining a methodology to estimate and measure the flow rates supplied by the Canodacqua di Spigno Spring Acqualatina S.p.A.		in Lazio Region (Key Enabling Technologies – KETs)	YDepartment of EnvrironmentalBiology (DBA) – SapienzaUniversity of Rome	S.p.A.
ΡI	PI	I	I	
35,000.00	35,000.00	749,063.34	307,000.00	

Part XI – Thesis advisor

Year	1 st cycle	Degree	2 nd cycle Degree			
1 cai	Supervisor	Advisor	Supervisor	Advisor		
from A.Y. 1995/1996 to present	37	2	79	73		

Part XII– Research Activities

Author of 160 papers on international and Italian journals and proceedings (Attachment 3).

Product type	Number
Indexed National Journal	9
Indexed International Journal	17
Indexed Conference Proceedings	13
Indexed Books [scientific]	4
Non Indexed National Conference Proceedings	14
Non Indexed International Conference Proceedings	53
Non Indexed National Journal	25
Non Indexed International Journal	13
Books [scientific]	10
Other Type	2

Aquifers research on different geological scenarios In the last twenty years, I have studied aquifers in different geological sce and in different climatic conditions. I started dealing with karst aquifers, al aquifers and coastal aquifers, outcropping in central and south Italy, to better their exploitation, according to Law 183/89, referring to groundwater sustal exploitation as for the Latium Waterworks Regional Plan drafting. Among activities, I addressed my attention to the characterization of coastal aquif South Italy and the South Latium Region, gaining much experien investigating and managing these typical aquifers (50 ⁶ , 53, 55, 56, 58, 60, 6 80, 82, 101 , 119, 131, 151). I was a permanent member of the Working Gro "Aquifers engineering" of the COST ACTION 621 <i>Groundwater managem</i>	
<i>coastal karstic aquifers</i> (48). Within the framework of the CNR-GNDCI acti I cooperate with Research line 4, dealing with the characterization of the M Aquifer, a strategic groundwater resource (36, 37, 38, 39). From 2007 to 200 experience has been applied to aquifers in desert scenarios, such as the S South Sahara Aquifer System. In cooperation with Tunis University, Engineering Faculty, we created a numerical model to forecast artesian releas recharging in the Tunisian part. It involved the study of a very large fra aquifer, with a focus on the section underlying the area of Rijm Matoug (6 70, 81). From 2011 to 2014, due to the experience gained working on c aquifers in the South Latium Region I have been involved in the ACC project, during which I dealt with groundwater management in the coastal a of Dar Es Salaam Coastal plan, which is an alluvial coastal aquifer, with issues regarding overexploitation and, consequently, seawater intrusion (7 88 , 100, 107, 113 , 114 , 123, 134, 137, 143, 146). Recently I have been invol SECOSUD activities, as Senior Hydrogeologist, with the task of contribut better understanding hydrogeological assessment in the Limpopo National aimed at biodiversity conservation (140, 147, 149, 152, 160). All these act	rs, alluvial better plan iustainable nong these quifers of crience in 50, 65 , 71, Group IV <i>gement of</i> activities, ne Maiella b 2008 my the SSAS, sity, Civil elease and b fractured ig (63, 67, on coastal ACC-DAR tal aquifer vith major n (79, 87, nvolved in tibuting to onal Park,

⁶ Number is referred to list of publications, included in *Attachment 3*. In block letters publications selected for evaluation, included in Part XVI– Selected Publications, with a different numeration.

	involved testing different and innovative methods for aquifer recharge estimation, also in comparison with water demand, and quality assessment of groundwater related to the geological features of aquifers, and their exploitation for different purposes.
Groundwater flow	My role in groundwater flow research has mostly been addressed to the application of environmental tracers, referred especially to karst and/or coastal aquifers. I started with karst aquifers of Apulia, where the 87 Sr/ 86 Sr ratio has been tested to better understand groundwater flow inside these aquifers (20, 21, 22, 25, 28, 29). Then I applied the 87 Sr/ 86 Sr ratio in some karst aquifers of the Latium Region, where, more recently, I created an Mg based model to estimate Pertuso spring discharge (127, 130, 141, 145) and a model 18 O/ 16 O and 2 H/H ratios have been tested for groundwater recharge areas identification (57, 76, 94, 157). In some case histories, I experimented temperature, coupled with electric conductivity (30, 39), as environmental tracers of groundwater flow with particular attention to fractured and karst aquifers.
Aquifers vulnerability and Risk assessment	This theme has been part of my research activity since 1995, and am the invited permanent expert in Working Group III of 620 COST ACTION " <i>Vulnerability and risk mapping in carbonatic karstic aquifers</i> " (46). I tested different vulnerability assessment methods to almost every aquifer I have investigated in my research project, usually supported by GIS, sometimes introducing and experimenting innovative solutions (27, 34, 37, 42, 49, 51, 62, 95, 115, 116, 135, 148).
Management and protection of aquifers from contamination	This subject has been the main focus of my last fifteen years' of research activity, when I tested the experience gained in environmental tracing of aquifers to environmental characterization of potentially contaminated aquifers, but also investigating techniques. In this field, I focused my attention on the application of isotopes and geochemical elements, such as Boron isotopes and rare earth elements as tools to distinguish groundwater contamination from their natural enrichment. Finally, part of my interest has been devoted to contaminant diffusion in eterogeneous porous media (90, 91, 98, 105, 111, 120, 121, 128, 129, 136, 138, 139, 144, 154, 155, 158, 159).

Part XIII - Summary	of Scientific	Achievements

Product type	Number	Data Base	Start	End
Papers [international]	17	Scopus	2009	present
Papers [national]	9	Scopus	2007	2018
Books [scientific]	17	Scopus	1995	2018
Total	43	Scopus	1995	present

Total Impact Factor	32.842		
	(IF relative to the publication year, from InCites Journal Citation Reports)		
Average Impact Factor per Product	32.842/17=1.93		
	(IF relative to the publication year, from InCites Journal Citation Reports)		
Total Citations	160 (Scopus)		
Average Citations per Product	3.72		
Hirsch (H) index	7 (Scopus)		
Normalized H index*	0,304		
Number of publications as first or last author <= 3 authors	24		

*H index divided by the academic seniority.

Part XIV- Selected Publications

List of the publications selected for the evaluation. For each publication report title, authors, reference data, journal IF (if applicable), citations, press/media release (if any) (*Attachment 4*).

List of 16 publications selected for the evaluation in the last 10 years, included se	e in the last 5 years
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N°	Selected Publication	Year	IF (2017)	IF (publication year)	Citations (according to Scopus)
1	M. Barbieri, G. Sappa , A. Nigro - <i>Soil pollution:</i> <i>Anthropogenic versus geogenic contributions over</i> <i>large areas of the Lazio region.</i> Journal of Geochemical Exploration, 195, pp. 78-86. ISSN:03756742, doi: 10.1016/j.gexplo.2017.11.014	2018	2.858	2.858	0
2	A. Nigro, G. Sappa , M. Barbieri - <i>Boron isotopes</i> <i>in groundwater: Evidence from contamination and</i> <i>interaction with terrigenous–evaporitic sequence,</i> <i>east-central Italy.</i> Geochemistry: Exploration, Environment, Analysis, 18(4), pp. 343-350, ISSN:14677873, doi: 10.1144/geochem2017-065	2018	1.191	1.191	1
3	G. Sappa , S. Vitale, F. Ferranti - <i>Identifying Karst</i> <i>Aquifer Recharge Areas using Environmental</i> <i>Isotopes: A Case Study in Central Italy.</i> Geosciences, 8(9), 351, ISSN:20763263, doi: 10.3390/geosciences8090351	2018	-	-	0
4	A. Nigro, G. Sappa , M. Barbieri - <i>Boron isotopes</i> and rare earth elements in the groundwater of a landfill site. Journal of Geochemical Exploration, 190, pp. 200-206, ISSN:03756742, doi:0.1016/j.gexplo.2018.02.019	2018	2.858	2.858	1
5	F. Tatti, M.P. Papini, G. Sappa , M. Raboni, F. Arjmand, P. Viotti - <i>Contaminant back-diffusion</i> from low-permeability layers as affected by groundwater velocity: A laboratory investigation by box model and image analysis. Science of the Total Environment, 622-623, pp. 164-171, ISSN:00489697, doi:10.1016/j.scitotenv.2017.11.347	2018	4.610	4.610	1
6	 G. Grelle, C. Wood, L. Bonito, G. Sappa, P. Revellino, S. Rahimi, F.M. Guadagno - A reliable computerized litho-morphometric model for development of 3D maps of Topographic Aggravation Factor (TAF): the cases of East Mountain (Utah, USA) and Port au Prince (Haiti). Bulletin of Earthquake Engineering, 16(5), pp. 1725-1750, ISSN:1570761X, doi:10.1007/s10518-017-0272-x 	2018	2.303	2.303	0
7	G. Sappa , F. Ferranti, F.M. De Filippi, G. Cardillo - Mg ²⁺ based method for Pertuso Spring discharge evaluation. Water (Switzerland), 9(1), 67; ISSN:20734441, doi:10.3390/w9010067	2017	2.069	2.069	4
8	 A. Nigro, G. Sappa, M. Barbieri - Application of boron and tritium isotopes for tracing landfill contamination in groundwater. Journal of Geochemical Exploration, 172, pp. 101-108, ISSN:03756742, doi:10.1016/j.gexplo.2016.10.011 	2017	2.858	2.858	12
9	G. Grelle, L. Bonito, A. Lampasi, P. Revellino, L. Guerriero, G. Sappa, F. M. Guadagno - SiSeRHMap v1.0: a simulator for mapped seismic	2016	4.252	3.458	2

	<i>response using a hybrid model</i> . Geoscientific Model Development, 9(4), pp 1567-1596, ISSN:1991959X, doi: 10.5194/gmd-9-1567-2016				
10	G. Sappa , S. Ergul, F. Ferranti, L. Ngalya Sweya, G. Luciani - <i>Effects of seasonal change and</i> <i>seawater intrusion on water quality for drinking</i> <i>and irrigation purposes, in coastal aquifers of Dar</i> <i>es Salaam, Tanzania.</i> Journal of African Earth Science, 105, pp. 64-84, ISSN:1464343X, doi: 10.1016/j.jafrearsci.2015.02.007	2015	1.532	1.326	22
11	 G. Sappa, A. Trotta, S. Vitale - Climate Change Impacts on Groundwater Active Recharge in Coastal Plain of Dar es Salaam (Tanzania). Engineering Geology for Society and Territory - Volume 1: Climate Change and Engineering Geology, pp. 177-180, ISBN:978-331909300-0;978-331909299-7, doi: 0.1007/978-3-319-09300-0_34 	2015	-	-	4
12	G. Sappa, S. Ergul, F. Ferranti - Geochemical modeling and multivariate statistical evaluation of trace elements in arsenic contaminated groundwater systems of Viterbo Area, (Central Italy). SpringerPlus, 3(1), pp. 1-19, ISSN:21931801, doi:10.1186/2193-1801-3-237	2014	1.130 ⁷	-	24
13	G. Sappa , S. Ergul, F. Ferranti - <i>Distribution of Ca</i> and Mg in groundwater flow systems in carbonate aquifers from Southern Latium Region (Italy): its implications on drinking water quality. Calcium and Magnesium in Groundwater: Occurrence and Significance for Human Health, pp. 93-106, ISBN:978-131576416-0;978-113800032-2, doi:10.1201/b17085	2014	-	-	1
14	M. Barbieri, G. Sappa , S. Vitale, B. Parisse, M. Battistel - Soil control of trace metals concentrations in landfills: A case study of the largest landfill in Europe, Malagrotta, Rome. Journal of Geochemical Exploration, 143, pp. 146-154, ISSN:03756742, doi: 10.1016/j.gexpl0.2014.04.001	2014	2.858	2.747	22
15	G. Sappa , F. Ferranti, S. Ergul, G. Ioanni - <i>Evaluation of the groundwater active recharge</i> <i>trend in the coastal plain of Dar es Salaam</i> <i>(Tanzania)</i> . Journal of Chemical and Pharmaceutical Research, 5(12), pp. 548-552, ISSN:09757384	2013	0.75 ⁸	-	10
16	 R. Casa, M. Rossi, G. Sappa, A. Trotta - Assessing Crop Water Demand by Remote Sensing and GIS for the Pontina Plain, Central Italy. Water Resources Management, 23(9), pp. 1685-1712, ISSN:09204741, doi: 10.1007/s11269-008-9347-4 	2009	2.644	2.013	24

Roma, 14/02/2019

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae.

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