



Università degli Studi di Perugia
Dipartimento di Fisica e Geologia
04/A3 - Geologia Applicata, Geografia Fisica e Geomorfologia (SSD GEO/05)
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EDUCATION AND TITLES

- 1999: Master degree in Geology at the University of Perugia (110/110 with honours). Contribution to the knowledge of springs of the Umbria-Marche Apennines: the Alzabove spring (Central Italy). Tutor: Prof. W. Dragoni.
- 2003: PhD at the University of Perugia. Well pumping near rivers: a contribute to estimate the stream depletion. Tutor: Prof. W. Dragoni.
- 2003-2004: Post-Doc research at the Department of Earth Science of Perugia University. Impact of climate change on water cycle in Italy and strategies to mitigate the negative effects.
- 2004-2007: Post-Doc research at the Department of Earth Science of Perugia University. Impact of anthropic pressure and climate change on Trasimeno and Bolsena lakes: modelling processes and possible management strategies.
- since November 2007: Researcher at the University of Perugia GEO/05).
- since December 2018: Associate Professor at the University of Perugia (GEO/05)
- since November 2020: Qualified for the position of Full Professor (ASN 2018 – 04/A3, GEO/05).

INSTITUTIONAL ACTIVITIES

- since November 2022: Manager of Quality Assurance of the Department of Physics and Geology (Perugia University).
- since March 2021: Member of the PhD Course in Earth System and Global change (Perugia University).
- since January 2020: Member of the "Giunta" of the Department of Physics and Geology (Perugia University).
- since June 2017: Member of the PhD Course in Physics and Geology (Perugia University).
- 2014-2018: Member of CCCS (Committee Coordination of Courses of Study) in Geology of Physics and Geology Department (Perugia University).
- 2014-2016: Member of the Quality Assurance Committee (QA) of teaching of Physics and Geology Department (Perugia University).
- 2014-2016: Member of "Commissione Paritetica", Commission for evaluating and improving teaching activities of Degree courses in Geology of the Physics and Geology Department (Perugia University).
- since 2012: Scientific manager of the laboratory of Applied Geology (Department of Physics and Geology, Perugia University).

RESEARCH LINES

The main research lines concern hydrogeology, applied geology, and environmental geology. In detail, the specific research topics are:

- analysis of the effects of climatic variation and anthropogenic pressure on hydrogeological systems in central Italy.
- analysis of the effects of earthquakes on hydrogeological systems' water circulation and rivers and springs' flow rates.
- investigation of the interaction between groundwater and surface water.

- analysis of infiltration/runoff processes in soils.
- study of the reliability analysis of satellite data (rainfall and soil moisture) and their application for the definition of runoff trigger thresholds.
- study landslide phenomena in the different climatic contexts of the mountainous regions of southern Europe.

EXPERIENCE ABROAD AND COURSES

2001-2002: Visiting student at the Environmental Science Department of Lancaster University (UK). Attended courses with final examination:

- Modelling Flow and Pollutant Transport (Prof. A Binley);
- Advanced Hydrological Modelling (Prof. K. Beven);
- Computer Modelling and Forecasting of Environmental Systems (Prof. Tich).

1999: 8th Summer School on hydro-geological hazard studies (CNR-WARREDOC). Attended courses:

- Modelling hydrological extremes for water resources management (Prof. I. Zuffa);
- Flood management decision-making systems (Prof. I. Ijjas);
- Landslide monitoring and mitigation (Prof. S. Novosad);

PARTICIPATION TO RESEARCH PROJECTS (title and PI)

- PRIN 2022. Title: Hydrological Controls on Carbonate-mediated CO₂ Consumption (Hydro4C). CNR-IRPI: Dr. Iva Marchesini (P.I.), FISGEO-UNIPG: Prof. Lucio Di Matteo (responsabile U.O), DAGRI-UNIFI: Prof. Daniele Penna (responsabile U.O).
- Since June 2023, TECHFEM S.p.a. project agreement. Title: Scientific supervision of in-depth hydrogeological studies along the route corridor of the Sulmona - Foligno and Foligno - Sestino pipelines. FISGEO-UNIPG: Prof. Lucio Di Matteo and Prof.ssa Daniela Valigi.
- since 2021: Coordination of the activities in the framework of the Project "Revision of high and very high landslide hazard areas of Tiber River Authority: focus on areas affected by the seismic events occurred since 24 August 2016" - AGREEMENT BETWEEN PUBLIC ADMINISTRATIONS (Autorità di Bacino Distrettuale dell'Appennino Centrale, CERI Research Centre "Previsione, Prevenzione e Controllo dei Rischi Geologici" of the University of Rome "La Sapienza", University of Chieti-Pescara "G. D'Annunzio", University of Camerino, University of Perugia and the University of Urbino "Carlo Bo". D'Annunzio", University of Camerino, University of Perugia and University of Urbino "Carlo Bo"). Prof. C. Corrado (Perugia University).
- since 2020: Technical and scientific support to the working group of FITS 2020 (International Festival of Sustainable Tourism), including the Municipalities of Acquasparta, Avigliano Umbro and Montecastrilli territories.
- 2017-19: Research Project funded by ERG Hydro Company. Evaluation of effects of 2016 earthquake on Nera River discharge (Central Italy). Prof. L. Di Matteo (Perugia University).
- 2018-2019: Scientific partner to the VISTA Project, PSR Umbria 2014-2020. L. Di Matteo (monitoring and optimising groundwater in the San Gemini basin, Central Italy).
- 2015-17: ATENEO project: Development of integrated methodologies for estimating compaction properties of fine-grained soils. Prof. L. Di Matteo (Perugia University).
- 2013-15: Research Project funded by "Provincia di Perugia", Parts I-II: Practical application of seismic protection regulations on the construction characteristics of the Umbria Region. L. Di Matteo, Dr.ssa C. Pauselli.
- 2013: POR-FESR 2007/2013 - Asse II, Part 2: Drought and Climatic Change (SECLI). Dr. T. Moramarco (IRPI-CNR, Perugia).
- 2009: POR-FESR 2007/2013 - Asse II, Part 1: Drought and Climatic Change (SECLI). Dr. T. Moramarco (IRPI-CNR).
- PRIN2008: Climatic change and water resources of fractured and karst systems: open problems, possible solutions and application to some system of the Umbria-Marche Apennines. Prof. W. Dragoni (Perugia University).
- 2008: Project "Fondazione Cassa di Risparmio di Perugia": Risorse geotermiche nell'alta valle del Tevere. Prof. M.R Barchi. (Perugia University).

- PRIN2003: Impact of human activities and of climatic variations on the hydrogeological budget of the most important lakes in Central Italy: modelling of the processes taking place and possible management strategies. Prof. W. Dragoni (Perugia University).
- 2001: ATENEO project: Mesozoic carbonate sequences of the Centre - North Apennines: estimation of permeability and storage capacity from test models, hydrogeological information and lito-genetic features. Prof. W. Dragoni, Prof.ssa S. Cirilli (Perugia University).
- 2001: CNR Strategic "Project Environment and land". Effects of climatic variations on water resources in the inner regions of Italy. Prof. W. Dragoni (Perugia University).

PARTNERSHIP TO START UP COMPANY ACTIVITIES

2017: Scientific partner to the Startup GEO-SURVEYS, POR FESR 2014-2020. Azione 1.3.1, "Sostegno delle nuove PMI innovative 2016". L. Di Matteo, C. Pauselli (Perugia University).

PARTICIPATION TO PROJECT AGREEMENTS WITH PUBLIC BODIES

2004-06: Co-head of the "WATER CRISIS" Project: Hydrogeological study of South-West Umbria. Prof. W. Dragoni (Perugia University).

RESEARCH GRANTS

2009 and 2015: Donations granted by Istituto Sperimentale per l'Edilizia to support the research activities in applied geology and hydrogeology.

SCIENTIFIC PANELS AND PARTECIPATION TO THE EDITORIAL BOARD OF JOURNALS

- 2021: Member of the scientific panel of Flowpath 2021 Congress, National Meeting of Hydrogeologists (Italian Chapter of International Association of Hydrogeologists, IAH).
- since April 2020: Member of the Editorial Board of Geotechnical and Geological Engineering (ISSN 0960-3182).
- since March 2020: Member of the Editorial Board of Sustainability (ISSN 2071-1050).
- 2017: Member of scientific panels on hydrogeological problems induced by 2016 seismic sequence in the Norcia area (Central Italy). Regione Umbria, Protezione Civile.
- February-April 2017: Member of technical panel for seismic microzonation of Norcia area (Central Italy).

REFEREE'S ACTIVITY

- Science of the Total Environment (ISSN: 0048-9697)
- Water Management (ISSN: 1741-7589)
- Water (ISSN: 2073-4441)
- Environmental Earth Sciences (ISSN: 1866-6280)
- Geotechnical and Geological Engineering (ISSN: 0960-3182)
- Probabilistic Engineering Mechanics (ISSN: 0266-8920)
- Géotechnique (ISSN: 0016-8505)
- Engineering Geology (ISSN: 0013-7952)
- Geotechnical Testing Journal (ISSN: 0149-6115)
- Canadian Geotechnical Journal (ISSN: 0008-3674)
- Construction and Building Materials (ISSN: 0950-0618)
- Transportation Geotechnics (ISSN: 2214-3912)
- Proceedings of the ICE - Geotechnical Engineering (ISSN: 1353-2618)
- Journal of the Institution of Engineers (India): Serie A (ISSN: 2250-2149)
- Geosciences (ISSN: 2076-3263)
- Civil Engineering Infrastructures Journal (ISSN: 2322-2093)
- Arabian Journal of Geosciences (ISSN: 1866-7511)
- Italian Journal of Engineering Geology and Environment (ISSN: 1825-6635)

- o Italian Journal of Groundwater (ISSN: 1828-454X)
- o Giornale di Geologia Applicata (ISSN: 1826-1256)

SCIENTIFIC SESSIONS

IAH 2015 Congress, Rome. S2.7 - Discharge area: a fingerprint of groundwater flow conditions (Convenors: J. Mádl-Szonyi, L. Di Matteo).

SCIENTIFIC AFFILIATIONS

- o IAH (International Association of Hydrogeologists).
- o IAEG (International Association for Engineering Geology and the Environment).
- o IAHS (International Association of Hydrological Sciences).
- o INQUA "Palaeogroundwater Project" (International Union for Quaternary Research).
- o AIGAA (Associazione Italiana di Geologia Applicata ed Ambientale).

TEACHING ACTIVITIES

- o Since 2021: Lecturer of the course "Hydraulic properties of soils, 2 hours" and "Geotechnical investigations, 2 hours" at the SYMPLE Hydrogeological Modelling School (Vetralla - VT).
- o Since 2020: Rischio Idrogeologico (6CFU). MSc in "Ingegneria della sicurezza per il territorio e il costruito", Perugia University.
- o Since 2020: Environmental Geology (6CFU). MSc in "Scienze della Terra per la Gestione dei Rischi e dell'Ambiente", Perugia University.
- o since 2014: Geologia Ambientale (6CFU). MSc in "Science e Tecnologie Geologiche", Perugia University.
- o since 2010: Rilevamento Geologico Tecnico e Monitoraggio (6CFU). BSc in Geologia, Perugia University.
- o 2012-2015: Rischio Idrogeologico (12CFU). BSc in "Attività di Protezione Civile", Perugia University.
- o 2010: Rischio Idrogeologico (8 hours). Master on Information processing and management aspects in the Civil Protection, Perugia University.
- o 2008-2010: Rischio Idrogeologico (6CFU). BSc in "Coordinamento delle Attività di Protezione Civile", Perugia University. Module of the "Rischio Geologico" course (15CFU).
- o 2004: Hydrogeological Modeling (12 hours). Master on Disaster Risk Management Expert on Environmental and Geological Risk, Sannio University.
- o 2003-2009: Geologia Tecnica (6CFU). BSc in Geologia, Perugia University.

PARTICIPATION IN PROJECT AGREEMENTS WITH PUBLIC BODIES

- o 2019: Technical verifier on behalf of the Administrative Court of Marche Region (Proc. n. 00575/2017).
- o 2012: Technical verifier on behalf of the Administrative Court of Umbria Region (Proc. n. 447/2010).
- o 2003: Evaluation of Fabia well field water resources (San Gemini, Terni - Italy): geological and hydrogeological study. ARPA Umbria. Dr. L. Di Matteo (Perugia University).
- o 2002: Member of the working group on the "Evaluation of the physical, geological and topographic characteristics of areas selected by ENEA for the permanent storage of low activity radioactive waste". Prof. Dragoni W. (Perugia University).
- o 2002: Agreement with Provincia di Terni: Water resources management and use of ATO2 area (Umbria). Dr. L. Di Matteo (Perugia University).

OTHER RESEARCH AND PROFESSIONAL EXPERIENCES

- o Since October 2021: Tutor of the PhD student Sofia Ortenzi (XXXVII cycle in Earth System and Global Change). Research title: Analysis of infiltration and runoff processes in small hill basins: from laboratory to site scale.
- o May 2021: External Review of a PhD thesis of "Earth, Environment and Resources Science" dell'Università Federico II di Napoli (XXXIIIth Cycle).

- 2015-17: Tutor of the PhD student Saverio Romeo. Science and Technology for Physics and Geology Doctoral degree (XXXth Cycle). Thesis: Understanding landslide processes in mountain areas by integrating conventional and innovative approaches.
- March 2014: Member of the examining board of the PhD Course in Scienze della Terra e Geotecnologie dell'Università degli Studi di Perugia (XXVIth Cycle).
- December 2013: External Review of a PhD thesis "Scuola Dottorale in Geologia dell'Ambiente e delle Risorse dell'Università degli Studi di Roma Tre (XXVIth Cycle)".
- February 2010: Member of the examining board of the PhD Course in Ambiente e Territorio dell'Università degli Studi del Molise (XXIIth Cycle).
- 1999: Habilitation to Professional Geologist (Università G.d'Annunzio Chieti-Pescara). Ordine dei Geologi dell'Umbria, Elenco spec. n. 97.

PUBLICATIONS

1. Ortenzi S., Cencetti C., Stelluti M., Marchesini M., **Di Matteo L.** (2023). Performance of rainfall and soil moisture satellite products on a small catchment in Central Italy. Submitted to ITALIAN JOURNAL OF ENGINEERING GEOLOGY AND ENVIRONMENT, SU1: 99-111.
2. Nicolini R., **Di Matteo L.**, Galdenzi S., Baldoni F., Frondini F., Valigi D. (2022). Study of dilution processes of sulfidic aquifer hosted by the Fiume-Vento karstic complex, Frasassi (Central Italy). ITALIAN JOURNAL OF GROUNDWATER, 11(3), 7-17.
3. Cencetti C., **Di Matteo L.** (2022). Mitigation measures preventing floods from landslide dams: analysis of pre-and post-hydrologic conditions upstream a seismic-induced landslide dam in Central Italy. ENVIRONMENTAL EARTH SCIENCES, 81(15), 1-12.
4. Todisco F., Vergni L., Ortenzi S., **Di Matteo L.** (2022). Soil Loss Estimation Coupling a Modified USLE Model with a Runoff Correction Factor Based on Rainfall and Satellite Soil Moisture Data. WATER, 14(13), 2081.
5. Ortenzi S., Mangoni M., **Di Matteo L.** (2022). Estimating moisture content and hydraulic properties of unsaturated sandy soils of Tiber River (Central Italy): integrating data from calibrated PR2/6 probe and hydraulic property estimator. ITALIAN JOURNAL OF GROUNDWATER, 11(1), 17-25.
6. **Di Matteo L.**, Capoccioni A., Porreca, Massimiliano, Pauselli, Cristina (2021). Groundwater-Surface Water Interaction in the Nera River Basin (Central Italy): New Insights after the 2016 Seismic Sequence. HYDROLOGY, vol. 8, p. 1-18.
7. **Di Matteo L.**, Spagnoli G. (2021). Predicting compaction properties of soils at different compaction efforts. PROCEEDINGS OF ICE. GEOTECHNICAL ENGINEERING, ISSN: 1751-8563, doi: 10.1680/jgeen.21.00017.
8. **Di Matteo L.**, Spigarelli A., Ortenzi S. (2021). Processes in the Unsaturated Zone by Reliable Soil Water Content Estimation: Indications for Soil Water Management from a Sandy Soil Experimental Field in Central Italy. SUSTAINABILITY, vol. 13, p. 1-15
9. Valigi D., Cambi C., Checcucci R., **Di Matteo L.** (2021). Transmissivity Estimates by Specific Capacity Data of Some Fractured Italian Carbonate Aquifers. WATER, vol. 13, p. 1-14.
10. Spagnoli G., Feinendegen M., **Di Matteo L.**, Rubinos D. (2020). Closure to Discussion of 'The Flow Index of Clays and Its Relationship with Some Basic Geotechnical Properties'. GEOTECHNICAL TESTING JOURNAL, vol. 44, p. 1-2.
11. Baldanza A., Bizzarri R., **Di Matteo L.**, Lezzerini M., Mencaroni L., Pagnotta S., Raneri S., Vinti G. (2018). New integrated data from clay lacustrine deposits of the Dunarobba Area (Umbria, Central Italy). ALPINE AND MEDITERRANEAN QUATERNARY, vol. 31, p. 87-104.
12. Ercoli M., **Di Matteo L.**, Pauselli C. (2018). Comparison of GPR and Capacitance Probe laboratory experiments in sandy soils. In: 2018 17th International Conference on Ground Penetrating Radar, GPR 2018. p. 1-5, IEEE, ISBN: 978-1-5386-5777-5, Rapperswil, Switzerland, 18-21.
13. Spagnoli G., Sridharan A., Oreste P., Bellato D., **Di Matteo L.** (2018). Statistical variability of the correlation plasticity index versus liquid limit for smectite and kaolinite. APPLIED CLAY SCIENCE, vol. 156, 152-159.

14. **Di Matteo L.**, Pauselli C., Valigi D., Ercoli M., Rossi M., Guerra G., Cambi C., Ricco R., Vinti G. (2018). Reliability of water content estimation by profile probe and its effect on slope stability. *LANDSLIDES*, vol. 15, Issue 1, 173-180.
15. Spagnoli G., Sridharan A., Oreste P., Bellato D., **Di Matteo L.** (2018). Statistical variability of the correlation plasticity index versus liquid limit for smectite and kaolinite. *APPLIED CLAY SCIENCE*, vol. 156, 152-159.
16. Ercoli M., **Di Matteo L.**, Pauselli C., Mancinelli P., Frapiccini S., Talegalli L., Cannata A. (2018). Integrated GPR and laboratory water content measures of sandy soils: From laboratory to field scale. *CONSTRUCTION AND BUILDING MATERIALS*, 159, 734-744.
17. Spagnoli G., Sridharan A., Oreste P., **Di Matteo L.** (2017). A probabilistic approach for the assessment of the influence of the dielectric constant of pore fluids on the liquid limit of smectite and kaolinite. *APPLIED CLAY SCIENCE*, vol. 145, 37-43.
18. Cencetti C., **Di Matteo L.**, Romeo S. (2017). Analysis of Costantino Landslide Dam Evolution (Southern Italy) by Means of Satellite Images, Aerial Photos, and Climate Data. *GEOSCIENCES*, vol. 7.
19. **Di Matteo L.**, Dragoni W., Maccari D., Piacentini S.M. (2017). Climate change, water supply and environmental problems of headwaters: The paradigmatic case of the Tiber, Savio and Marecchia rivers (Central Italy). *SCIENCE OF THE TOTAL ENVIRONMENT*, vol. 598, p. 733-748.
20. **Di Matteo L.**, Romeo S., Kieffer D.S. (2017). Rock fall analysis in an Alpine area by using a reliable integrated monitoring system: results from the Ingelsberg slope (Salzburg Land, Austria). *BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT*, vol. 76, p. 413-420.
21. Romeo S., **Di Matteo L.**, Melelli L., Cencetti C., Dragoni W., Fredduzzi A. (2017). Seismic-induced rockfalls and landslide dam following the October 30, 2016 earthquake in Central Italy. *LANDSLIDES*, vol. 14, p. 1457-1465.
22. Valigi D., Luque-Espinar J.A., **Di Matteo L.**, Cambi C., Pardo-Igúzquiza E., Rossi M. (2016). Analysis of drought conditions and their effects on Lake Trasimeno (Central Italy) levels. *ITALIAN JOURNAL OF GROUNDWATER*, vol. 5.
23. **Di Matteo L.**, Menegon S., Rossi A., Liti S. (2016). Understanding karst environments by thermo-hygrometric monitoring: preliminary results from the Cesi Mountain karst system (Central Italy). *ITALIAN JOURNAL OF GROUNDWATER*, 5: 1-15.
24. **Di Matteo L.**, Dragoni W., Maccari D., Piacentini S.M. (2016). A contribution to the definition of the ongoing climate change and its impacts on the water resources: the case of Monte Fumaiolo (Central Italy). *RENDICONTI ONLINE DELLA SOCIETÀ GEOLOGICA ITALIANA*, 41: 46-49.
25. Romeo S., **Di Matteo L.**, Kieffer D.S. (2016). Rock fall analysis in an Alpine area by using a reliable integrated monitoring system: results from the Ingelsberg slope (Salzburg Land, Austria). *RENDICONTI ONLINE DELLA SOCIETÀ GEOLOGICA ITALIANA*, 41: 191-194.
26. **Di Matteo L.**, Dragoni W., Cencetti C., Ricco R., Fucsina A. (2016). Effects of fall-cone test on classification of soils: some considerations from study of two engineering earthworks in Central Italy. *BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT*, 75(4): 1629–1637.
27. **Di Matteo L.**, Ricco R., Filippini L., Vinti G. (2016). Permeability of remoulded low-plasticity clay contaminated by bioethanol-based fluids. *BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT*, 75(1): 293-300.
28. Taramelli A., **Di Matteo L.**, Ciavola P., Guadagnano F., Tolomei C. (2015). Temporal evolution of patterns and processes related to subsidence of the coastal area surrounding the Bevano River Mouth (Northern Adriatic) – Italy. *OCEAN & COASTAL MANAGEMENT*, 108: 74–88.
29. Romeo S., D.S. Kieffer, **Di Matteo L.** (2014). The Ingelsberg landslide (Bad Hofgastein, Austria): description and first results of monitoring system (GBInSAR technique). *RENDICONTI ONLINE DELLA SOCIETÀ GEOLOGICA ITALIANA*, 32: 24-27.
30. **Di Matteo L.**, Faralli L., Gasparri N., Piccioni R., Valigi D., Venanti L.D. (2013). Efficiency of stabilization techniques In Acqualoreto landslide area (Umbria, Italy). *ITALIAN JOURNAL OF ENGINEERING GEOLOGY AND ENVIRONMENT*, 6: 331-338.

31. **Di Matteo L.**, Valigi D., Cambi C. (2013). Climatic characterization and response of water resources to climate change in limestone areas: some considerations on the importance of geological setting. *JOURNAL OF HYDROLOGIC ENGINEERING*, 18 (7): 773-779.
32. **Di Matteo L.**, Valigi D., Ricco R. (2013). Laboratory shear strength parameters of cohesive soils: variability and potential effects on slope stability. *BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT*, 72(1): 101-106.
33. **Di Matteo L.** (2012). Liquid limit of low- to medium-plasticity soils: comparison between Casagrande cup and cone penetrometer test. *BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT*, 71(1): 79-85.
34. Ercoli M., Pauselli C., Forte E., **Di Matteo L.**, Mazzocca M., Frigeri A., Federico C. (2012). A multidisciplinary geological and geophysical approach to define structural and hydrogeological implications of the Molinaccio spring (Spello, Italy). *JOURNAL OF APPLIED GEOPHYSICS*, 77: 72-82.
35. **Di Matteo L.**, Bigotti F., Ricco R. (2011). Compressibility of Kaolinitic Clay Contaminated by Ethanol-Gasoline Blends. *JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING*, 137(9): 846-849.
36. Cambi C., Valigi D., **Di Matteo L.** (2010). Hydrogeological study of data-scarce limestone massifs: the case of Gualdo Tadino and Monte Cucco structures (Central Apennines, Italy). *BOLLETTINO DI GEOFISICA TEORICA ED APPLICATA*, 51(4): 345-360.
37. **Di Matteo L.**, Dragoni W., Giontella C., Melillo M. (2010). Impact of climatic change on the management of complex systems: the case of the Bolsena Lake and its aquifer (Central Italy). In: *Global Groundwater Resources and Management* (Chapter 5). Paliwal B.S. ed., Scientific Publishers (Jodhpur, India), ISBN – 978-81-7233-619-6, pp. 91–106.
38. **Di Matteo L.**, Dragoni W., Valigi D. (2009). Update on knowledge of water resources of Amelia Mountains (Central Italy). *ITALIAN JOURNAL OF ENGINEERING GEOLOGY AND ENVIRONMENT*, 1: 83–96.
39. **Di Matteo L.**, Bigotti F., Ricco R. (2009). Best-fit models to estimate modified Proctor properties of compacted soil. *JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING*, 7 (135): 992–996.
40. **Di Matteo L.**, Dragoni W., Bonavenia C. (2008). Pumping water wells near large surface water bodies. *GIORNALE DI GEOLOGIA APPLICATA*, 10: 51–57.
41. **Di Matteo L.**, Brunelli S., Capponi E. (2008). Strength parameters of compacted cohesive soils: analysis of sandy-clayey soils of the “Lisciani di Pantalla” (Todi – Central Italy). *ITALIAN JOURNAL OF ENGINEERING GEOLOGY AND ENVIRONMENT*, 1: 25–32.
42. **Di Matteo L.**, Dragoni W. (2006). Climate Change and Water Resources in Limestone and Mountain Areas: the case of Firenzuola Lake (Umbria, Italy). *Proc. of 8th Conference on Limestone Hydrogeology*, Neuchâtel, Switzerland, 21-23 September 2006, Presses universitaires de Franche-Comté, ISBN/ISSN: 2-84867-143-2, pp. 83–88.
43. Dragoni W., Piscopo V., **Di Matteo L.**, Gnucci L., Leone A., Lotti F., Melillo M., Petitta M. (2006). Risultati del Progetto di Ricerca PRIN “Laghi 2003-2005”. *GIORNALE DI GEOLOGIA APPLICATA*, 3: 39–46.
44. **Di Matteo L.**, Dragoni W., Pierucci L. Valigi D. (2006). Studio idrogeologico ed analisi climatica del lago della diga di Montedoglio (Arezzo – Italia Centrale). *GIORNALE DI GEOLOGIA APPLICATA*, 3: 32–38.
45. **Di Matteo L.**, Gnucci L., Lotti F. (2006). Problemi ambientali ed idrogeologici dei principali laghi dell'Italia centrale. *ATTI DEI CONVEGNI LINCEI*, 122: 247–259.
46. **Di Matteo L.**, Dragoni W. (2005). Empirical relationships for estimating stream depletion by a well pumping near a gaining stream. *GROUND WATER*, 2 (43): 242–249.
47. **Di Matteo L.**, Dragoni W., Latini M., Spinsanti R. (2005). Risorse idriche sotterranee e loro gestione: il caso dell'ATO2 Umbria (Umbria meridionale). *ACQUE SOTTERRANEE*, 96: 9–21.
48. Bazzurri A., **Di Matteo L.**, Dragoni W., Manconi D. (2003). La sorgente Il Molinaccio ed il suo antico acquedotto (Spello – Italia centrale): idrogeologia ed impatto delle variazioni climatiche sulle portate. *QUADERNI DI GEOLOGIA APPLICATA*, 2(1): 23–34.

Perugia

October 4, 2021

