

# Marco Barla

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4592419/publications.pdf>

Version: 2024-02-01

55  
papers

1,535  
citations

331670

21  
h-index

302126

39  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1266  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring of the Beauregard landslide (Aosta Valley, Italy) using advanced and conventional techniques. <i>Engineering Geology</i> , 2010, 116, 218-235.	6.3	217
2	Application of energy tunnels to an urban environment. <i>Geothermics</i> , 2016, 61, 104-113.	3.4	101
3	Early Warning Monitoring of Natural and Engineered Slopes with Ground-Based Synthetic-Aperture Radar. <i>Rock Mechanics and Rock Engineering</i> , 2015, 48, 235-246.	5.4	94
4	The Mechanical Behaviour of Clay Shales and Implications on the Design of Tunnels. <i>Rock Mechanics and Rock Engineering</i> , 2009, 42, 361-388.	5.4	87
5	Rock Slide Simulation with the Combined Finite-Discrete Element Method. <i>International Journal of Geomechanics</i> , 2012, 12, 711-721.	2.7	70
6	Analysis of jacking forces during microtunnelling in limestone. <i>Tunnelling and Underground Space Technology</i> , 2006, 21, 668-683.	6.2	66
7	A Robust Wireless Sensor Network for Landslide Risk Analysis: System Design, Deployment, and Field Testing. <i>IEEE Sensors Journal</i> , 2016, 16, 6374-6386.	4.7	65
8	The role of ground conditions on energy tunnels' heat exchange. <i>Environmental Geotechnics</i> , 2016, 3, 214-224.	2.3	58
9	Energy tunnels: concept and design aspects. <i>Underground Space (China)</i> , 2018, 3, 268-276.	7.5	51
10	A method to estimate the jacking force for pipe jacking in sandy soils. <i>Tunnelling and Underground Space Technology</i> , 2019, 90, 119-130.	6.2	49
11	A novel real-scale experimental prototype of energy tunnel. <i>Tunnelling and Underground Space Technology</i> , 2019, 87, 1-14.	6.2	49
12	Development of a New Direct Shear Testing Apparatus. <i>Rock Mechanics and Rock Engineering</i> , 2010, 43, 117-122.	5.4	44
13	Earth pressure on shield excavation face for pipe jacking considering arching effect. <i>Tunnelling and Underground Space Technology</i> , 2018, 72, 17-27.	6.2	44
14	Numerical simulation of the swelling behaviour around tunnels based on special triaxial tests. <i>Tunnelling and Underground Space Technology</i> , 2008, 23, 508-521.	6.2	42
15	Energy from geo-structures: a topic of growing interest. <i>Environmental Geotechnics</i> , 2015, 2, 3-7.	2.3	42
16	Energy performance of diaphragm walls used as heat exchangers. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2017, 170, 232-245.	1.6	41
17	Microparameters Calibration for Loose and Cemented Soil When Using Particle Methods. <i>International Journal of Geomechanics</i> , 2009, 9, 217-229.	2.7	39
18	New Triaxial Apparatus for Rocks. <i>Rock Mechanics and Rock Engineering</i> , 2010, 43, 225-230.	5.4	32

#	ARTICLE	IF	CITATIONS
19	Combined Finite-Discrete Numerical Modeling of Runout of the Torgiovannetto di Assisi Rockslide in Central Italy. <i>International Journal of Geomechanics</i> , 2016, 16, .	2.7	29
20	A method to design microtunnelling installations in randomly cemented Torino alluvial soil. <i>Tunnelling and Underground Space Technology</i> , 2013, 33, 73-81.	6.2	28
21	Energy and mechanical aspects on the thermal activation of diaphragm walls for heating and cooling. <i>Renewable Energy</i> , 2020, 147, 2654-2663.	8.9	25
22	Geothermal potential of tunnel infrastructures - development of tools at the city-scale of Basel, Switzerland. <i>Geothermics</i> , 2020, 83, 101734.	3.4	22
23	Torino subsoil characterization by combining site investigations and numerical modelling / Charakterisierung des Turiner Untergrunds mithilfe von Feldstudien und numerischer Modellierungen. <i>Geomechanik Und Tunnelbau</i> , 2012, 5, 214-232.	0.3	21
24	A multi-stage triaxial testing procedure for low permeable geomaterials applied to Opalinus Clay. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2017, 9, 519-530.	8.1	20
25	The role of ground conditions on the heat exchange potential of energy walls. <i>Geomechanics for Energy and the Environment</i> , 2021, 25, 100199.	2.5	20
26	Analysis of jacking forces during pipe jacking in granular materials using particle methods. <i>Underground Space (China)</i> , 2019, 4, 277-288.	7.5	18
27	Geotechnical risk management approach for TBM tunnelling in squeezing ground conditions. <i>Tunnelling and Underground Space Technology</i> , 2016, 57, 201-210.	6.2	17
28	Geothermal potential of the NE extension Warsaw (Poland) metro tunnels. <i>Environmental Geotechnics</i> , 2020, 7, 282-294.	2.3	17
29	Special Issue on Advances in Modeling Rock Engineering Problems. <i>International Journal of Geomechanics</i> , 2012, 12, 617-617.	2.7	15
30	A method for locating rockfall impacts using signals recorded by a microseismic network. <i>Geoenvironmental Disasters</i> , 2017, 4, .	3.6	14
31	Remote monitoring of the Comba Citrin landslide using discontinuous GBInSAR campaigns. <i>Engineering Geology</i> , 2017, 222, 111-123.	6.3	13
32	Slope stabilization in difficult conditions: the case study of a debris slide in NW Italian Alps. <i>Landslides</i> , 2013, 10, 343-355.	5.4	12
33	City-scale analysis of subsoil thermal conditions due to geothermal exploitation. <i>Environmental Geotechnics</i> , 2020, 7, 306-316.	2.3	12
34	Pipe Jacking in Sandy Soil Under a River in Shenyang, China. <i>Indian Geotechnical Journal</i> , 2017, 47, 246-260.	1.4	9
35	Energy tunnel linings thermo-mechanical performance: comparison between field observations and numerical modelling. <i>E3S Web of Conferences</i> , 2020, 205, 06008.	0.5	8
36	Characterisation of Italian clay shales for tunnel design. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2004, 41, 397.	5.8	6

#	ARTICLE	IF	CITATIONS
37	Multi Scale Numerical Modelling Related to Hydrofracking for Deep Geothermal Energy Exploitation. <i>Procedia Engineering</i> , 2016, 158, 314-319.	1.2	5
38	Climate Change Adaptation of Geo-Structures in Europe: Emerging Issues and Future Steps. <i>Geosciences (Switzerland)</i> , 2021, 11, 488.	2.2	5
39	Development and testing of a novel geothermal wall system. <i>International Journal of Energy and Environmental Engineering</i> , 2021, 12, 689-704.	2.5	4
40	Site characterization for the design of thermoactive geostructures. <i>Soils and Rocks</i> , 2022, 45, 1-15.	0.5	3
41	Characterisation of Italian clay shales for tunnel design. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2004, 41, 221-227.	5.8	2
42	Combining Finite-Discrete Numerical Modelling and Radar Interferometry for Rock Landslide Early Warning Systems. , 2015, , 705-708.		2
43	Complex Soilâ€“Pipe Interaction: Challenges in Geological Characterization and Construction. <i>Cities Research Series</i> , 2022, , 43-101.	0.5	2
44	Thermal performance assessment of an energy lining for the Lyon-Turin base tunnel. <i>Soils and Rocks</i> , 2022, 45, 1-12.	0.5	2
45	Torino Metro Line 1 south extension - modelling and settlement monitoring / SÄ¼derweiterung der Turiner Metro Linie 1 - Modellierung und Monitoring der Setzungen. <i>Geomechanik Und Tunnelbau</i> , 2012, 5, 233-242.	0.3	1
46	Editorial: Shallow geothermal energy for buildings and infrastructure. <i>Environmental Geotechnics</i> , 2020, 7, 223-224.	2.3	1
47	Passing the Baton. <i>International Journal of Geomechanics</i> , 2020, 20, 01820001.	2.7	1
48	Investigation Techniques: Pipe Jacking in Complex Geology. <i>Cities Research Series</i> , 2022, , 7-41.	0.5	1
49	Geotechnical monitoring of a subway tunnel in service below rail link under construction in Torino / Geotechnisches Monitoring des Tunnelvortriebs in NÄ¼he eines in Betrieb befindlichen UÄ€Bahntunnels in Turin. <i>Geomechanik Und Tunnelbau</i> , 2011, 4, 393-404.	0.3	0
50	Methodological approach for a sustainable management of water inflow and geothermal energy in tunnels. <i>Acque Sotteranee - Italian Journal of Groundwater</i> , 2015, 4, .	0.3	0
51	Thermal Activation of Tunnel Infrastructures: City-Scale Solutions for Basel, Switzerland. <i>Lecture Notes in Civil Engineering</i> , 2021, , 993-1001.	0.4	0
52	Numerical Simulation of Swelling in Tunnels. <i>Lecture Notes in Civil Engineering</i> , 2021, , 353-360.	0.4	0
53	3D Voronoi Tessellation for the Study of Mechanical Behavior of Rocks at Different Scales. <i>Lecture Notes in Civil Engineering</i> , 2021, , 1010-1017.	0.4	0
54	Linee guida per la gestione sostenibile delle venute dÄ™acqua e del calore geotermico nelle gallerie. <i>Acque Sotteranee - Italian Journal of Groundwater</i> , 2020, 9, .	0.3	0

#	ARTICLE	IF	CITATIONS
55	An Increasingly Open Journal. International Journal of Geomechanics, 2022, 22, .	2.7	0