

Giovanni Spagnoli

List of Publications by Year in descending order

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85
papers

1,086
citations

430754

18
h-index

552653

26
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87
all docs

87
docs citations

87
times ranked

719
citing authors

#	ARTICLE	IF	CITATIONS
1	Utilization of waste products as alternative landfill liner and cover materials – A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2018, 48, 376-438.	6.6	56
2	Strength of soil reinforced with fiber materials (Papyrus). <i>Soil Mechanics and Foundation Engineering</i> , 2012, 48, 241-247.	0.2	53
3	Undrained shear strength of clays as modified by pH variations. <i>Bulletin of Engineering Geology and the Environment</i> , 2012, 71, 135-148.	1.6	45
4	A review on the behavior of helical piles as a potential offshore foundation system. <i>Marine Georesources and Geotechnology</i> , 2020, 38, 1013-1036.	1.2	43
5	Assessment of red mud as sorptive landfill liner for the retention of arsenic (V). <i>Journal of Environmental Management</i> , 2019, 232, 271-285.	3.8	36
6	Comparison between Casagrande and drop-cone methods to calculate liquid limit for pure clay. <i>Canadian Journal of Soil Science</i> , 2012, 92, 859-864.	0.5	33
7	Geophysical Signatures of Shear-Induced Damage and Frictional Processes on Rock Joints. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 1143-1160.	1.4	32
8	Electrical properties of seafloor massive sulfides. <i>Geo-Marine Letters</i> , 2016, 36, 235-245.	0.5	27
9	The Influence of the Dielectric Constant and Electrolyte Concentration of the Pore Fluids on the Undrained Shear Strength of Smectite. <i>Soils and Foundations</i> , 2010, 50, 757-763.	1.3	26
10	A review of soil improvement with non-conventional grouts. <i>International Journal of Geotechnical Engineering</i> , 2021, 15, 273-287.	1.1	26
11	Statistical variability of the correlation plasticity index versus liquid limit for smectite and kaolinite. <i>Applied Clay Science</i> , 2018, 156, 152-159.	2.6	24
12	Experimental Evidence of the Effectiveness and Applicability of Colloidal Nanosilica Grouting for Liquefaction Mitigation. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020, 146, .	1.5	24
13	Preliminary Design of a Trench Cutter System for Deep-Sea Mining Applications Under Hyperbaric Conditions. <i>IEEE Journal of Oceanic Engineering</i> , 2016, 41, 930-943.	2.1	23
14	The influence of the two-component grout on the behaviour of a segmental lining in tunnelling. <i>Tunnelling and Underground Space Technology</i> , 2021, 109, 103750.	3.0	23
15	Influence of ethanol/water mixture on the undrained shear strength of pure clays. <i>Bulletin of Engineering Geology and the Environment</i> , 2012, 71, 389-398.	1.6	22
16	An overview on the compaction characteristics of soils by laboratory tests. <i>Engineering Geology</i> , 2020, 278, 105830.	2.9	22
17	New Equations for Estimating Radial Loads on Deep Shaft Linings in Weak Rocks. <i>International Journal of Geomechanics</i> , 2016, 16, .	1.3	21
18	Relationship between measured plastic limit and plastic limit estimated from undrained shear strength, water content ratio and liquidity index. <i>Clay Minerals</i> , 2017, 52, 509-519.	0.2	20

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19	A global database considering Atterberg limits with the Casagrande and fall-cone tests. <i>Engineering Geology</i> , 2019, 260, 105201.	2.9	20
20	The Flow Index of Clays and Its Relationship with Some Basic Geotechnical Properties. <i>Geotechnical Testing Journal</i> , 2019, 42, 20180110.	0.5	20
21	A CPT-based model to predict the installation torque of helical piles in sand. <i>Marine Georesources and Geotechnology</i> , 2017, 35, 578-585.	1.2	19
22	A statistical reappraisal of the relationship between liquid limit and specific surface area, cation exchange capacity and activity of clays. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2019, 11, 874-881.	3.7	19
23	Some relations among fall cone penetration, liquidity index and undrained shear strength of clays considering the sensitivity ratio. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 5029-5038.	1.6	19
24	A probabilistic approach for the assessment of the influence of the dielectric constant of pore fluids on the liquid limit of smectite and kaolinite. <i>Applied Clay Science</i> , 2017, 145, 37-43.	2.6	17
25	Estimation of Shaft Radial Displacement beyond the Excavation Bottom before Installation of Permanent Lining in Nondilatant Weak Rocks with a Novel Formulation. <i>International Journal of Geomechanics</i> , 2017, 17, 04017051.	1.3	17
26	The effect of curing conditions on the hydromechanical properties of a metakaolin-based soilcrete. <i>Geotechnique</i> , 2022, 72, 455-469.	2.2	17
27	Some generic trends on the basic engineering properties of fine-grained soils. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	1.3	16
28	Creep behaviour of two-component grout and interaction with segmental lining in tunnelling. <i>Tunnelling and Underground Space Technology</i> , 2022, 119, 104216.	3.0	16
29	A Combined Analytical and Numerical Approach for the Evaluation of Radial Loads on the Lining of Vertical Shafts. <i>Geotechnical and Geological Engineering</i> , 2016, 34, 1057-1065.	0.8	15
30	Analysis of the behavior of the two-component grout around a tunnel segmental lining on the basis of experimental results and analytical approaches. <i>Transportation Geotechnics</i> , 2021, 29, 100570.	2.0	15
31	The Hyperstatic Reaction Method for the Analysis of the Sprayed Concrete Linings Behavior in Tunneling. <i>Geotechnical and Geological Engineering</i> , 2018, 36, 2143-2169.	0.8	14
32	Estimation of Uplift Capacity and Installation Power of Helical Piles in Sand for Offshore Structures. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2018, 144, .	0.5	14
33	First results regarding the influence of mineralogy on the mechanical properties of seafloor massive sulfide samples. <i>Engineering Geology</i> , 2016, 214, 127-135.	2.9	13
34	Relationships between undrained shear strength, liquidity index, and water content ratio of clays. <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 4817-4828.	1.6	13
35	Permeation grouting of silt-sand mixtures. <i>Transportation Geotechnics</i> , 2022, 35, 100800.	2.0	12
36	Modification of clay adhesion to improve tunnelling excavation. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2013, 166, 21-31.	0.7	11

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37	Engineering and environmental aspects of offshore soil mixing. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2015, 168, 267-278.	0.9	10
38	Mixed-in-place response of two carbonate sands. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2016, 169, 153-163.	0.9	10
39	Trench Cutter Case Histories and Their Possible Application for Offshore Piles as Relieve Drilling. Geotechnical and Geological Engineering, 2014, 32, 713-724.	0.8	9
40	The Elastic Modulus Variation During the Shotcrete Curing Jointly Investigated by the Convergence-Confinement and the Hyperstatic Reaction Methods. Geotechnical and Geological Engineering, 2019, 37, 1435-1452.	0.8	9
41	Statistical analysis of some correlations between compression index and Atterberg limits. Environmental Earth Sciences, 2020, 79, 1.	1.3	9
42	Exploring the mechanical response of low-carbon soil improvement mixtures. Canadian Geotechnical Journal, 2022, 59, 726-742.	1.4	9
43	In situ and laboratory tests on a novel offshore mixed-in-place pile for oil and gas platforms. Journal of Petroleum Science and Engineering, 2016, 145, 502-509.	2.1	8
44	Some observations considering undrained shear strength, liquidity index, and fluid/solid ratio of mono-mineralic clays with water-ethanol mixtures. Canadian Geotechnical Journal, 2018, 55, 1048-1053.	1.4	8
45	Effect of Gravity of the Plastic Zones on the Behavior of Supports in Very Deep Tunnels Excavated in Rock Masses. International Journal of Geomechanics, 2019, 19, .	1.3	8
46	Relation water content ratio-to-liquidity index versus the Atterberg limits ratio evaluated with the Kaniadakis exponential law. Geomechanics and Geoengineering, 2019, 14, 148-153.	0.9	8
47	Parametric analysis for the estimation of the installation power for large helical piles in dry cohesionless soils. International Journal of Geotechnical Engineering, 2020, 14, 569-579.	1.1	8
48	Improving the Hydrodynamic Performance of Jet Grouting with Chemical Additives. International Journal of Geosynthetics and Ground Engineering, 2022, 8, 1.	0.9	8
49	Liquid limit of mixtures of smectite, kaolinite and quartz powder with water and NaCl solution. International Journal of Geotechnical Engineering, 2012, 6, 117-123.	1.1	7
50	Latest Technological Developments in Offshore Deep Mixing for Piled Oil and Gas Platforms. , 2014, , .		7
51	P-wave velocity measurements for preliminary assessments of the mineralization in seafloor massive sulfide mini-cores during drilling operations. Engineering Geology, 2017, 226, 316-325.	2.9	7
52	Fall cone tests considering water content, cone penetration index, and plasticity angle of fine-grained soils. Journal of Rock Mechanics and Geotechnical Engineering, 2020, 12, 1347-1355.	3.7	7
53	Geotechnical and machinery properties influencing the offshore pile drillability. Marine Georesources and Geotechnology, 2017, 35, 266-274.	1.2	6
54	A sensitivity analysis on the parameters affecting large diameter helical pile installation torque, depth and installation power for offshore applications. DFI Journal, 2018, 12, 171-185.	0.2	6

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55	Assessment of the Safety Factor Evolution of the Shotcrete Lining for Different Curing Ages. <i>Geotechnical and Geological Engineering</i> , 2019, 37, 5555-5563.	0.8	6
56	A numerical model to assess the creep of shotcrete linings. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2019, 172, 344-354.	0.9	6
57	A novel approach to evaluating the compaction control of soils. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2020, 53, 452-459.	0.8	6
58	A General Overview on the Correlation of Compression Index of Clays with Some Geotechnical Index Properties. <i>Geotechnical and Geological Engineering</i> , 2022, 40, 311-324.	0.8	6
59	Microstructural Characterization of Red Mud as Affected by Inorganic and Organic Chemicals Permeation. <i>Jom</i> , 2017, 69, 1607-1612.	0.9	5
60	Statistical analysis of some main geomechanical formulations evaluated with the Kaniadakis exponential law. <i>Geomechanics and Geoengineering</i> , 2018, 13, 139-145.	0.9	5
61	Probabilistic estimation of specific surface area and cation exchange capacity: a global multivariate distribution. <i>Canadian Geotechnical Journal</i> , 2021, 58, 1077-1094.	1.4	5
62	Conditioning clayey soils with a dispersant agent for Deep Soil Mixing application: laboratory experiments and artificial neural network interpretation. <i>Acta Geotechnica</i> , 2022, 17, 5073-5087.	2.9	5
63	Theoretical Estimation of the Drilling Rates Comparing the Evans and Nishimatsu Models in Relation to the Offshore Piles. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2017, 143, 06016005.	0.5	4
64	Mineralogical and mechanical analysis of cement-stabilised sands. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2020, 173, 51-60.	0.7	4
65	A simplified mathematical approach for the evaluation of the stabilizing forces applied by a passive cemented bolt to a sliding rock block. <i>Tunnelling and Underground Space Technology</i> , 2020, 103, 103459.	3.0	4
66	Evaluation of the safety factors of shotcrete linings during the creep stage. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2020, 173, 274-282.	0.9	4
67	Laboratory Tests of Fully Grouted Bolts with a Pumpable Thixotropic Resin. <i>Lecture Notes in Civil Engineering</i> , 2021, , 867-874.	0.3	4
68	Magnetic susceptibility measurements of seafloor massive sulphide mini-core samples for deep-sea mining applications. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2017, 50, 88-93.	0.8	3
69	Analysis of the effects of blast-induced damage zone with attenuating disturbance factor on the ground support interaction. <i>Geomechanics and Geoengineering</i> , 2019, , 1-11.	0.9	3
70	Relationship between dielectric constant of soils with clay content and dry unit weight. <i>Environmental Geotechnics</i> , 2021, 8, 134-147.	1.3	3
71	A Parametric Analysis on the Influence of the Binder Characteristics on the Behaviour of Passive Rock Bolts with the Block Reinforcement Procedure. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 4159-4168.	0.8	2
72	Predicting compaction properties of soils at different compaction efforts. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2023, 176, 146-156.	0.9	2

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73	Review of torque models for offshore helical piles. E3S Web of Conferences, 2020, 205, 12007.	0.2	2
74	Plug excavation from the conductor pipes by assessing the specific energy. Journal of Petroleum Science and Engineering, 2016, 147, 851-856.	2.1	1
75	Estimation of net theoretical excavation rates in concrete and sandstone. Marine Georesources and Geotechnology, 2019, 37, 739-745.	1.2	1
76	A probabilistic approach for the evaluation of the stabilizing forces of fully grouted bolts. Transportation Geotechnics, 2021, 28, 100516.	2.0	1
77	Relationships between strength properties and Atterberg limits of fine-grained soils. Geomechanics and Geoen지니어ing, 0, , 1-15.	0.9	1
78	Improving the Performance of Deep Soil Mixing in Clay with Chemical Additives. , 2022, , .		1
79	Probabilistic estimation of the advancement rate of the Tunnel Boring Machines on the basis of rock mass characteristics. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2022, 8, 1.	1.3	1
80	Statistics of Atterberg limit values of some pure kaolinitic clays. Geomechanics and Geoen지니어ing, 2023, 18, 105-120.	0.9	1
81	Assessment of the Theoretical Net Relief Drilling Rate for Conductor Pipes. Geotechnical and Geological Engineering, 2017, 35, 1249-1259.	0.8	0
82	Closure to discussion "A review on the behavior of helical piles as a potential offshore foundation system". Marine Georesources and Geotechnology, 2020, 38, 1118-1120.	1.2	0
83	An Overview on Some Engineering Properties of Fine-Grained Soils. , 2022, , .		0
84	Impact of Colloidal Silica Treatment on an Earthfill Dam. , 2022, , .		0
85	Injection of Non-Conventional Binders to Improve Geomechanical Properties of Cataclasite. , 2022, , .		0