

David Mañá-n

List of Publications by Year in descending order

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98
papers

3,007
citations

147801

31
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175258

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docs citations

104
times ranked

1318
citing authors

#	ARTICLE	IF	CITATIONS
1	Compression Behaviour of Chlef Sand and Transition of Fines Content Using Pressure-Dependent Maximum Void Ratios of Sand. <i>Geotechnical and Geological Engineering</i> , 2022, 40, 1675-1692.	1.7	3
2	An experimental investigation on the swelling behavior of compacted B75 bentonite. <i>Engineering Geology</i> , 2022, 296, 106452.	6.3	3
3	Aspects of soft clay behaviour important for correct prediction of spudcan foundation penetration. <i>Computers and Geotechnics</i> , 2022, 142, 104552.	4.7	0
4	Characteristic limitations of advanced plasticity and hypoplasticity models for cyclic loading of sands. <i>Acta Geotechnica</i> , 2022, 17, 2235-2257.	5.7	23
5	Automated calibration of advanced soil constitutive models. Part I: hypoplastic sand. <i>Acta Geotechnica</i> , 2022, 17, 3421-3438.	5.7	13
6	Automated calibration of advanced soil constitutive models. Part II: hypoplastic clay and modified Cam-Clay. <i>Acta Geotechnica</i> , 2022, 17, 3439-3462.	5.7	11
7	Inspection of four advanced constitutive models for fine-grained soils under monotonic and cyclic loading. <i>Acta Geotechnica</i> , 2022, 17, 4395-4418.	5.7	13
8	Constitutive model for monotonic and cyclic loading on anisotropic clays. <i>Geotechnique</i> , 2021, , 1-17.	4.0	23
9	The Strength Reduction Method in Clay Hypoplasticity. <i>Lecture Notes in Civil Engineering</i> , 2021, , 456-464.	0.4	0
10	Hypoplastic Model for Clays with Stiffness Anisotropy. <i>Lecture Notes in Civil Engineering</i> , 2021, , 414-421.	0.4	5
11	A Procedure for 3D Modelling of Very Large Geotechnical Structures: Open Cast Coal Mine Case. <i>Lecture Notes in Civil Engineering</i> , 2021, , 36-43.	0.4	0
12	Small-strain behaviour of unsaturated silty clay: experiments and model interpretation. <i>Acta Geotechnica</i> , 2021, 16, 2837-2849.	5.7	5
13	On the behavior of monopiles subjected to multiple episodes of cyclic loading and reconsolidation in cohesive soils. <i>Computers and Geotechnics</i> , 2021, 134, 104049.	4.7	17
14	Evaluation of hypoplastic model for soft clays by modelling of Nicoll highway case history. <i>Computers and Geotechnics</i> , 2021, 134, 104053.	4.7	9
15	Mineralogical, Geochemical and Geotechnical Study of BCV 2017 Bentoniteâ€”The Initial State and the State following Thermal Treatment at 200 Â°C. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 871.	2.0	8
16	Performance of tripod foundations for offshore wind turbines: a numerical study. <i>Geotechnique Letters</i> , 2021, 11, 230-238.	1.2	12
17	Fractal characteristics of pore structure of compacted bentonite studied by ESEM and MIP methods. <i>Acta Geotechnica</i> , 2020, 15, 1655-1671.	5.7	41
18	Improvement to the intergranular strain model for larger numbers of repetitive cycles. <i>Acta Geotechnica</i> , 2020, 15, 3593-3604.	5.7	16

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19	Hypoplastic and viscohypoplastic models for soft clays with strength anisotropy. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 1396-1416.	3.3	18
20	The strength reduction method in clay hypoplasticity. Computers and Geotechnics, 2020, 126, 103687.	4.7	12
21	A unified lateral soil reaction model for monopiles in soft clay considering various length-to-diameter (L/D) ratios. Ocean Engineering, 2020, 212, 107492.	4.3	50
22	An intergranular strain concept for material models formulated as rate equations. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 1003-1018.	3.3	20
23	Water retention of a bentonite for deep geological radioactive waste repositories: High-temperature experiments and thermodynamic modeling. Engineering Geology, 2020, 269, 105549.	6.3	30
24	Numerical modeling of the evolution of arcades and rock pillars. Geomorphology, 2020, 365, 107260.	2.6	9
25	Modelling of Bentonite for Nuclear Waste Disposal Facilities with Hypoplasticity. Springer Series in Geomechanics and Geoengineering, 2019, , 93-98.	0.1	0
26	Bentonite microstructure and saturation evolution in wetting“drying cycles evaluated using ESEM, MIP and WRC measurements. Geotechnique, 2019, 69, 713-726.	4.0	41
27	Modelling of Soil Behaviour with Hypoplasticity. Springer Series in Geomechanics and Geoengineering, 2019, , .	0.1	29
28	Soil Mechanical Behaviour and Its Modelling. Springer Series in Geomechanics and Geoengineering, 2019, , 13-42.	0.1	1
29	Simple Scalar and Vectorial Hypoplastic Models. Springer Series in Geomechanics and Geoengineering, 2019, , 43-72.	0.1	0
30	Hypoplastic Model for Sand. Springer Series in Geomechanics and Geoengineering, 2019, , 89-101.	0.1	0
31	Hypoplastic Model for Clay. Springer Series in Geomechanics and Geoengineering, 2019, , 103-117.	0.1	0
32	Advanced Modelling Approaches. Springer Series in Geomechanics and Geoengineering, 2019, , 119-189.	0.1	0
33	Thermal Water Retention Characteristics of Compacted Bentonite. , 2018, , 71-78.		1
34	Arcades: Products of stress-controlled and discontinuity-related weathering. Earth-Science Reviews, 2018, 180, 159-184.	9.1	30
35	Applicability of hypoplasticity to reconstituted peat from drained triaxial tests. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 2049-2064.	3.3	2
36	Modelling of Deep Excavation Collapse Using Hypoplastic Model for Soft Clays. Springer Series in Geomechanics and Geoengineering, 2018, , 344-349.	0.1	1

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37	Modelling of Spudcan Foundation Penetrations Using an Improved Hypoplastic Model for Soft Clays. , 2018, , 749-756.		1
38	Experimental Study on Highly Compacted Bentonite Aggregates Subjected to Wetting and Drying. Springer Series in Geomechanics and Geoengineering, 2018, , 1632-1635.	0.1	0
39	Numerical modelling of the effects of consolidation on the undrained spudcan capacity under combined loading in silty clay. Computers and Geotechnics, 2017, 86, 33-51.	4.7	20
40	An approach for modelling volume change of fine-grained soil subjected to thermal cycles. Canadian Geotechnical Journal, 2017, 54, 896-901.	2.8	22
41	Cyclic lateral response and failure mechanisms of semi-rigid pile in soft clay: centrifuge tests and numerical modelling. Canadian Geotechnical Journal, 2017, 54, 806-824.	2.8	135
42	A general approach to model interfaces using existing soil constitutive models application to hypoplasticity. Computers and Geotechnics, 2017, 87, 115-127.	4.7	24
43	Coupled Thermohydromechanical Double-Structure Model for Expansive Soils. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	37
44	General method for simulating laboratory tests with constitutive models for geomechanics. International Journal for Numerical and Analytical Methods in Geomechanics, 2017, 41, 304-312.	3.3	5
45	Hypoplastic interface models for fine-grained soils. International Journal for Numerical and Analytical Methods in Geomechanics, 2017, 41, 284-303.	3.3	22
46	Dynamical In Situ Study of Morphological Changes of Bentonite in ESEM. Microscopy and Microanalysis, 2017, 23, 2196-2197.	0.4	1
47	SHEAR STRENGTH OF SOILS FROM THE DOBKOVICKY LANDSLIDE IN THE CENTRAL BOHEMIAN UPLANDS DETERMINATED BY LABORATORY TESTS. Acta Polytechnica CTU Proceedings, 2017, 10, 48-51.	0.3	2
48	Development of a coupled thermo-hydro-mechanical double structure model for expansive soils. E3S Web of Conferences, 2016, 9, 17002.	0.5	0
49	Numerical modelling of the effects of consolidation on jack-up spudcan penetration. Computers and Geotechnics, 2016, 78, 25-37.	4.7	31
50	Enhancement of a hypoplastic model for granular soil-structure interface behaviour. Acta Geotechnica, 2016, 11, 1249-1261.	5.7	46
51	Determination of erosion thickness by numerical back analysis: The case study of Badenian clays in the Carpathian Foredeep, Czech Republic. Engineering Geology, 2016, 214, 50-59.	6.3	2
52	Implications of the atmosphere-soil interaction for the design of earth retaining structures. E3S Web of Conferences, 2016, 9, 12002.	0.5	2
53	Gravity-induced stress as a factor reducing decay of sandstone monuments in Petra, Jordan. Journal of Cultural Heritage, 2016, 19, 415-425.	3.3	18
54	Swelling phenomena and effective stress in compacted expansive clays. Canadian Geotechnical Journal, 2016, 53, 134-147.	2.8	59

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55	Thermo-mechanical hypoplastic interface model for fine-grained soils. , 2016, , 351-357.		4
56	The influence of experimental and sampling uncertainties on the probability of unsatisfactory performance in geotechnical applications. Geotechnique, 2015, 65, 897-910.	4.0	25
57	Evaluation of K ₀ in stiff clay by back-analysis of convergence measurements from unsupported cylindrical cavity. Acta Geotechnica, 2015, 10, 719-733.	5.7	12
58	Effects of Pillar Depth and Shielding on the Interaction of Crossing Multitunnels. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	3.0	32
59	Influence of sand density and retaining wall stiffness on three-dimensional responses of tunnel to basement excavation. Canadian Geotechnical Journal, 2015, 52, 1811-1829.	2.8	69
60	Ability of three different soil constitutive models to predict a tunnel's response to basement excavation. Canadian Geotechnical Journal, 2015, 52, 1685-1698.	2.8	46
61	Small strain stiffness anisotropy of natural sedimentary clays: review and a model. Acta Geotechnica, 2014, 9, 299-312.	5.7	50
62	Modelling of shear stiffness of unsaturated fine grained soils at very small strains. Computers and Geotechnics, 2014, 56, 28-39.	4.7	27
63	Clay hypoplasticity model including stiffness anisotropy. Geotechnique, 2014, 64, 232-238.	4.0	97
64	Sandstone landforms shaped by negative feedback between stress and erosion. Nature Geoscience, 2014, 7, 597-601.	12.9	77
65	Coupled hydro-mechanical model for partially saturated soils predicting small strain stiffness. Computers and Geotechnics, 2014, 61, 355-369.	4.7	19
66	Constitutive model for unsaturated fine-grained soils incorporating small strain stiffness. , 2014, , 761-767.		0
67	The FEM back-analysis of earth pressure coefficient at rest in Brno clay K ₀ with the homogenization of steel/shotcrete lining. , 2014, , 113-124.		0
68	Double structure hydromechanical coupling formalism and a model for unsaturated expansive clays. Engineering Geology, 2013, 165, 73-88.	6.3	89
69	Clay hypoplasticity with explicitly defined asymptotic states. Acta Geotechnica, 2013, 8, 481-496.	5.7	94
70	Three-dimensional centrifuge and numerical modeling of the interaction between perpendicularly crossing tunnels. Canadian Geotechnical Journal, 2013, 50, 935-946.	2.8	118
71	Observed and calculated gravity anomalies above a tunnel driven in clays – implication for errors in gravity interpretation. Near Surface Geophysics, 2013, 11, 569-578.	1.2	3
72	Explicit Incorporation of Asymptotic States into Hypoplasticity. Springer Series in Geomechanics and Geoengineering, 2013, , 609-616.	0.1	0

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73	Discrete Element Investigation of the Asymptotic Behaviour of Granular Materials. Springer Series in Geomechanics and Geoengineering, 2013, , 423-430.	0.1	0
74	Small-strain behaviour of cemented soils. Geotechnique, 2012, 62, 943-947.	4.0	34
75	Hypoplastic Cam-clay model. Geotechnique, 2012, 62, 549-553.	4.0	68
76	Asymptotic behaviour of granular materials. Granular Matter, 2012, 14, 759-774.	2.2	50
77	A thermo-mechanical model for variably saturated soils based on hypoplasticity. International Journal for Numerical and Analytical Methods in Geomechanics, 2012, 36, 1461-1485.	3.3	52
78	Numerical modelling of lumpy clay landfill. International Journal for Numerical and Analytical Methods in Geomechanics, 2012, 36, 17-35.	3.3	22
79	Comparison of displacement field predicted by 2D and 3D finite element modelling of shallow NATM tunnels in clays. Geotechnik, 2011, 34, 115-126.	0.2	21
80	Probabilistic analyses of a strip footing on horizontally stratified sandy deposit using advanced constitutive model. Computers and Geotechnics, 2011, 38, 363-374.	4.7	39
81	Benchmark of constitutive models for unsaturated soils. Geotechnique, 2011, 61, 283-302.	4.0	68
82	Class A predictions of a NATM tunnel in stiff clay. Computers and Geotechnics, 2010, 37, 817-825.	4.7	24
83	Predicting the dependency of a degree of saturation on void ratio and suction using effective stress principle for unsaturated soils. International Journal for Numerical and Analytical Methods in Geomechanics, 2010, 34, 73-90.	3.3	132
84	Comparison of different probabilistic methods for predicting stability of a slope in spatially variable soil. Computers and Geotechnics, 2010, 37, 132-140.	4.7	106
85	Comparison of Predictive Capabilities of Selected Elasto-Plastic and Hypoplastic Models for Structured Clays. Soils and Foundations, 2009, 49, 381-390.	3.1	11
86	3D Modeling of an NATM Tunnel in High KO Clay Using Two Different Constitutive Models. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 1326-1335.	3.0	56
87	Capability of constitutive models to simulate soils with different OCR using a single set of parameters. Computers and Geotechnics, 2009, 36, 655-664.	4.7	19
88	Graphical representation of constitutive equations. Geotechnique, 2009, 59, 147-151.	4.0	57
89	The soilmodels.info project. International Journal for Numerical and Analytical Methods in Geomechanics, 2008, 32, 1571-1572.	3.3	107
90	A hypoplastic model for mechanical response of unsaturated soils. International Journal for Numerical and Analytical Methods in Geomechanics, 2008, 32, 1903-1926.	3.3	57

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91	Manufacture of samples of overconsolidated clay by laboratory sedimentation. <i>Geotechnique</i> , 2007, 57, 249-253.	4.0	8
92	A hypoplastic constitutive model for clays with meta-stable structure. <i>Canadian Geotechnical Journal</i> , 2007, 44, 363-375.	2.8	52
93	Improvement of a hypoplastic model to predict clay behaviour under undrained conditions. <i>Acta Geotechnica</i> , 2007, 2, 261-268.	5.7	41
94	Gravity Effects of Deformation Zones Induced by Tunnelling in Soft and Stiff Clays. , 2007, , .		1
95	Directional response of a reconstituted fine-grained soil Part II: performance of different constitutive models. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2006, 30, 1303-1336.	3.3	48
96	An Evaluation of Different Constitutive Models to Predict the Directional Response of a Reconstituted Fine-Grained Soil. <i>Springer Proceedings in Physics</i> , 2006, , 143-157.	0.2	4
97	A hypoplastic constitutive model for clays. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2005, 29, 311-336.	3.3	235
98	State boundary surface of a hypoplastic model for clays. <i>Computers and Geotechnics</i> , 2005, 32, 400-410.	4.7	54