

# Leon A Van Paassen

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

3,612  
citations

471061

17  
h-index

433756

31  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1484  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Investigation of Microbial Induced Desaturation and Precipitation (MIDP) in a Layered Granular Soil System. , 2022, , .		1
2	Stabilization of Mine Tailings Using Microbiological Induced Carbonate Precipitation for Dust Mitigation: Treatment Optimization and Durability Assessment. , 2022, , .		1
3	Crystal Growth of MICP through Microfluidic Chip Tests. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	1.5	42
4	Recent Advances in Nature-Inspired Solutions for Ground Engineering (NiSE). International Journal of Geosynthetics and Ground Engineering, 2022, 8, 1.	0.9	25
5	Nanomechanical Characterization of Enzyme Induced Carbonate Precipitates. Crystals, 2022, 12, 995.	1.0	1
6	Variability in the Unconfined Compressive Strength of EICP-Treated "Standard" Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	1.5	15
7	Kinetic biomineralization through microfluidic chip tests. Acta Geotechnica, 2021, 16, 3229-3237.	2.9	37
8	Microbial-Induced Desaturation in Stratified Soil Conditions. International Journal of Geosynthetics and Ground Engineering, 2021, 7, 1.	0.9	8
9	Guest Editorial for the Special Issue on "Sustainable Ground Improvement Technologies" International Journal of Geosynthetics and Ground Engineering, 2021, 7, 1.	0.9	0
10	Pullout behavior of geosynthetic reinforcement in biocemented soils. Geotextiles and Geomembranes, 2021, 49, 646-656.	2.3	20
11	Experimental and Numerical Analysis of a Field Trial Application of Microbially Induced Calcite Precipitation for Ground Stabilization. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	1.5	31
12	Lateral Responses of a Model Pile in Biocemented Sand. International Journal of Geomechanics, 2021, 21, .	1.3	13
13	Laboratory Tests on Mitigation of Soil Liquefaction Using Microbial Induced Desaturation and Precipitation. Geotechnical Testing Journal, 2021, 44, 520-534.	0.5	15
14	Review and Recalculation of Growth and Nucleation Kinetics for Calcite, Vaterite and Amorphous Calcium Carbonate. Crystals, 2021, 11, 1318.	1.0	6
15	Toe-Bearing Capacity of Precast Concrete Piles through Biogrouting Improvement. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	1.5	47
16	Flocculation of Clay Suspensions by Anionic and Cationic Polyelectrolytes: A Systematic Analysis. Minerals (Basel, Switzerland), 2020, 10, 999.	0.8	22
17	The effect of solid phase composition on the drying behavior of Markermeer sediment. Vadose Zone Journal, 2020, 19, e20028.	1.3	5
18	Impact of Pore-Scale Characteristics on Immiscible Fluid Displacement. Geofluids, 2020, 2020, 1-10.	0.3	6

#	ARTICLE	IF	CITATIONS
19	Feasibility Study on Liquefaction Mitigation of Fraser River Sediments by Microbial Induced Desaturation and Precipitation (MIDP). , 2020, , .		7
20	Assessing the Kinetics and Poreâ€Scale Characteristics of Biological Calcium Carbonate Precipitation in Porous Media using a Microfluidic Chip Experiment. Water Resources Research, 2020, 56, e2019WR025420.	1.7	51
21	Effect of Particle Shape on Strength and Stiffness of Biocemented Glass Beads. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	1.5	112
22	Microbially induced calcite precipitation along a circular flow channel under a constant flow condition. Acta Geotechnica, 2019, 14, 673-683.	2.9	40
23	Gas Bubble Migration and Trapping in Porous Media: Poreâ€Scale Simulation. Journal of Geophysical Research: Solid Earth, 2018, 123, 1060-1071.	1.4	48
24	Applying MICP by denitrification in soils: a process analysis. Environmental Geotechnics, 2018, 5, 79-93.	1.3	58
25	Small-scale evaporation tests on clay: influence of drying rate on clayey soil layer. Canadian Geotechnical Journal, 2018, 55, 437-445.	1.4	13
26	Evaluating Strategies to Improve Process Efficiency of Denitrification-Based MICP. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	36
27	Desaturation via Biogenic Gas Formation as a Ground Improvement Technique. , 2018, , .		9
28	The Soil Water Characteristic Curve for 3D Printed Soil Samples. , 2018, , .		0
29	Centrifuge Model Testing of Liquefaction Mitigation via Denitrification-Induced Desaturation. , 2018, , .		5
30	Subsidence of organic dredged sediments in an upland deposit in Wormer- en Jisperveld: North Holland, the Netherlands. Environmental Earth Sciences, 2018, 77, 1.	1.3	2
31	Applications of Microbial Processes in Geotechnical Engineering. Advances in Applied Microbiology, 2018, 104, 39-91.	1.3	41
32	Functional properties of soils formed from biochemical ripening of dredged sedimentsâ€subsidence mitigation in delta areas. Journal of Soils and Sediments, 2017, 17, 286-298.	1.5	10
33	Bio-Grout Materials: A Review. , 2017, , .		27
34	Modelling desiccation cracking in a homogenous soil clay layer: comparison between different hypotheses on constitutive behaviour. E3S Web of Conferences, 2016, 9, 08006.	0.2	2
35	Using and Improving Neural Network Models for Ground Settlement Prediction. Geotechnical and Geological Engineering, 2014, 32, 687.	0.8	16
36	Investigating the Susceptibility of Iron Ore to Liquefaction. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
37	Fixation and distribution of bacterial activity in sand to induce carbonate precipitation for ground reinforcement. Ecological Engineering, 2010, 36, 112-117.	1.6	523
38	Potential soil reinforcement by biological denitrification. Ecological Engineering, 2010, 36, 168-175.	1.6	341
39	Quantifying Biomediated Ground Improvement by Ureolysis: Large-Scale Biogrout Experiment. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 1721-1728.	1.5	656
40	Use of Waste Streams and Microbes for in situ Transformation of Sand Into Sandstone. , 2009, , .		7
41	Microbial Carbonate Precipitation as a Soil Improvement Technique. Geomicrobiology Journal, 2007, 24, 417-423.	1.0	1,313