## Assaf Klar

## List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Estimating the Effects of Tunneling on Existing Pipelines. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2005, 131, 1399-1410.	1.5	241
2	Soil—pipe interaction due to tunnelling: comparison between Winkler and elastic continuum solutions. Geotechnique, 2005, 55, 461-466.	2.2	184
3	Tunnels in sands: the effect of size, depth and volume loss on greenfield displacements. Geotechnique, 2012, 62, 385-399.	2.2	181
4	Coupled deformation–flow analysis for methane hydrate extraction. Geotechnique, 2010, 60, 765-776.	2.2	159
5	Sand production model in gas hydrate-bearing sediments. International Journal of Rock Mechanics and Minings Sciences, 2016, 86, 303-316.	2.6	134
6	Tunneling beneath Buried Pipes: View of Soil Strain and Its Effect on Pipeline Behavior. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 1664-1672.	1.5	116
7	Monitoring tunneling induced ground displacements using distributed fiber-optic sensing. Tunnelling and Underground Space Technology, 2014, 40, 141-150.	3.0	95
8	Tunneling effects on jointed pipelines. Canadian Geotechnical Journal, 2008, 45, 131-139.	1.4	91
9	2D and 3D upper bound solutions for tunnel excavation using â€~elastic' flow fields. International Journal for Numerical and Analytical Methods in Geomechanics, 2007, 31, 1367-1374.	1.7	90
10	Elastoplastic Solution for Soil-Pipe-Tunnel Interaction. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2007, 133, 782-792.	1.5	75
11	Theoretical Study on Pile Length Optimization of Pile Groups and Piled Rafts. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 319-330.	1.5	69
12	Explicitly Coupled Thermal Flow Mechanical Formulation for Gas-Hydrate Sediments. SPE Journal, 2013, 18, 196-206.	1.7	67
13	Feasibility study of automated detection of tunnel excavation by Brillouin optical time domain reflectometry. Tunnelling and Underground Space Technology, 2010, 25, 575-586.	3.0	63
14	Shell versus beam representation of pipes in the evaluation of tunneling effects on pipelines. Tunnelling and Underground Space Technology, 2008, 23, 431-437.	3.0	60
15	Progressive waves in a compressible-ocean with an elastic bottom. Wave Motion, 2013, 50, 929-939.	1.0	50
16	Energy-based volume loss prediction for tunnel face advancement in clays. Geotechnique, 2014, 64, 776-786.	2.2	44
17	On-specimen strain measurement with fiber optic distributed sensing. Measurement: Journal of the International Measurement Confederation, 2015, 60, 104-113.	2.5	41
18	Upper Bound for Cylinder Movement Using "Elastic―Fields and Its Possible Application to Pile Deformation Analysis. International Journal of Geomechanics, 2008, 8, 162-167.	1.3	39

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19	Linear elastic tunnel pipeline interaction: the existence and consequence of volume loss equality. Geotechnique, 2015, 65, 788-792.	2.2	38
20	Design Oriented Linear-Equivalent Approach for Evaluating the Effect of Tunneling on Pipelines. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	1.5	38
21	Role of Linear Elasticity in Pile Group Analysis and Load Test Interpretation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 1686-1694.	1.5	32
22	Upper-bound and load–displacement solutions for laterally loaded piles in clays based on energy minimisation. Geotechnique, 2008, 58, 815-820.	2.2	30
23	Damage Identification in Reinforced Concrete Beams Using Spatially Distributed Strain Measurements. Journal of Structural Engineering, 2013, 139, .	1.7	27
24	Superstructure–foundation interaction in multi-objective pile group optimization considering settlement response. Canadian Geotechnical Journal, 2017, 54, 1408-1420.	1.4	23
25	Nonlinear elastoplastic formulation for tunneling effects on superstructures. Canadian Geotechnical Journal, 2019, 56, 956-969.	1.4	23
26	Elastic Continuum Solution for Tunneling Effects on Buried Pipelines Using Fourier Expansion. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, 04018062.	1.5	21
27	Detection of Sinkhole Formation by Strain Profile Measurements Using BOTDR: Simulation Study. Journal of Engineering Mechanics - ASCE, 2017, 143, .	1.6	18
28	Distributed Optical Fiber Strain Sensing in a Secant Piled Wall. , 2007, , .		17
29	Continuous velocity fields for the Tâ€bar problem. International Journal for Numerical and Analytical Methods in Geomechanics, 2008, 32, 949-963.	1.7	17
30	Micromechanical Investigation of Stress Relaxation in Gas Hydrate-Bearing Sediments Due to Sand Production. Energies, 2019, 12, 2131.	1.6	17
31	Three-Dimensional Analysis of Lateral Pile Response using Two-Dimensional Explicit Numerical Scheme. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2002, 128, 775-784.	1.5	16
32	A cohesionless micromechanical model for gas hydrate-bearing sediments. Granular Matter, 2019, 21, 1.	1.1	16
33	Seismic soil–pile interaction in liquefiable soil. Soil Dynamics and Earthquake Engineering, 2004, 24, 551-564.	1.9	15
34	Underground solar energy storage via energy piles: An experimental study. Applied Energy, 2022, 306, 118042.	5.1	13
35	Simple Energy-Based Method for Nonlinear Analysis of Incompressible Pile Groups in Clays. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 960-965.	1.5	11
36	Rational approach for the analysis of segmental reinforced soil walls based on kinematic constraints. Geotextiles and Geomembranes, 2009, 27, 332-340.	2.3	8

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37	Feasibility study of the automated detection and localization of underground tunnel excavation using Brillouin optical time domain reflectometer. Proceedings of SPIE, 2009, , .	0.8	8
38	Enhanced Strain-Softening Model from Cyclic Full-Flow Penetration Tests. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	1.5	8
39	Upper bound of tunnel face stability using asymmetric yielding. Underground Space (China), 2018, 3, 288-296.	3.4	8
40	Measures for identifying cracks within reinforced concrete beams using BOTDR. Proceedings of SPIE, 2010, , .	0.8	7
41	In Situ Profiling of Soil Stiffness Parameters Using High-Resolution Fiber-Optic Distributed Sensing. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	1.5	7
42	Spatial distribution of yield accelerations and permanent displacements: A diagnostic tool for assessing seismic slope stability. Soil Dynamics and Earthquake Engineering, 2019, 126, 105811.	1.9	7
43	A Fourier-based elastic continuum solution for jointed pipeline response to tunneling. Tunnelling and Underground Space Technology, 2022, 119, 104237.	3.0	7
44	Detection of tunnel excavation using fiber optic reflectometry: experimental validation. , 2013, , .		5
45	Evaluation of Horizontal Stresses in Soil during Direct Simple Shear by High-Resolution Distributed Fiber Optic Sensing. Sensors, 2019, 19, 3684.	2.1	5
46	Load-Independent Characterization of Plate Foundation Support Using High-Resolution Distributed Fiber-Optic Sensing. Sensors, 2019, 19, 3518.	2.1	5
47	Micromechanical modeling of the effect of dissociation on the mechanical response of hydrate-bearing sediments. Granular Matter, 2022, 24, .	1.1	5
48	Seismic analysis of infinite pile groups in liquefiable soil. Soil Dynamics and Earthquake Engineering, 2004, 24, 565-575.	1.9	4
49	Steadyâ€state solution for cylindrical penetrometers. International Journal for Numerical and Analytical Methods in Geomechanics, 2010, 34, 645-659.	1.7	4
50	Benefits of Global Standards on the Use of Optical Fiber Sensing Systems for the Impact of Construction of New Utilities and Tunnels on Existing Utilities. , 2015, , .		4
51	Thermo-Hydro-Chemo-Mechanical Formulation for CH <sub>4</sub> -CO <sub>2</sub> Hydrate Conversion Based on Hydrate Formation and Dissociation in Hydrate-Bearing Sediments. , 2016, , .		4
52	Direct and relaxation methods for soil-structure interaction due to tunneling. Journal of Zhejiang University: Science A, 2010, 11, 9-17.	1.3	3
53	The KC method: Numerical investigation of a new analysis method for reinforced soil walls. Computers and Geotechnics, 2010, 37, 351-358.	2.3	3
54	Coupled Foundation-Superstructure Analysis and Influence of Building Stiffness on Foundation Response. , 2010, , .		3

4

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55	Discussion of "Evaluation of Undrained Shear Strength Using Full-Flow Penetrometers―by Jason T. DeJong, Nicholas J. Yafrate, and Don J. DeGroot. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 763-765.	1.5	3
56	DISCUSSION: Hypoplastic Cam-clay model. D. MAÅ¡ÃN (2012) <i>Géotechnique</i> <b>62</b> , No. 6, 549–553, http://dx.doi.org/10.1680/geot.11.T.019. Geotechnique, 2013, 63, 889-890.	2.2	2
57	Mitigation of Seismic Accelerations by Soft Caissons. International Journal of Geotechnical Earthquake Engineering, 2013, 4, 1-17.	0.3	2
58	Evaluation of a logarithmic-law strength rate parameter using full-flow penetrometers. Geotechnical Research, 2014, 1, 53-59.	0.8	2
59	Optical fiber measurement of local strains in a ribbed bar. Structural Concrete, 2022, 23, 3383-3396.	1.5	2
60	Title is missing!. Journal of Earthquake Engineering, 2005, 9, 855.	1.4	1
61	Validation of a BOTDR-based system for the detection of smuggling tunnels. Proceedings of SPIE, 2010,	0.8	1
62	Discussion of "Role of Shear Deformability on the Response of Tunnels and Pipelines to Single and Twin Tunneling―by Andrea Franza and Giulia M. B. Viggiani. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	1.5	1
63	Discussion of "Tunnel-Pile Interaction Analysis Using Cavity Expansion Methods―by Alec M. Marshall. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 2001-2002.	1.5	0