# George Gazetas

## List of Publications by Year in descending order

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|---|---|---|---|
| 114 papers | 6,700 citations | 53794 45 h-index | 66911 78 g-index |
| 115 all docs | 115 docs citations | 115 times ranked | 2365 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Formulas and Charts for Impedances of Surface and Embedded Foundations. Journal of Geotechcnical Engineering, 1991, 117, 1363-1381. | 0.4 | 443 |
| 2 | SEISMIC SOIL-STRUCTURE INTERACTION: BENEFICIAL OR DETRIMENTAL?. Journal of Earthquake Engineering, 2000, 4, 277-301. | 2.5 | 413 |
| 3 | Analysis of machine foundation vibrations: State of the art. International Journal of Soil Dynamics and Earthquake Engineering, 1983, 2, 2-42. | 0.2 | 319 |
| 4 | Dynamic pile-soil-pile interaction. Part II: Lateral and seismic response. Earthquake Engineering and Structural Dynamics, 1992, 21, 145-162. | 4.4 | 314 |
| 5 | Horizontal Response of Piles in Layered Soils. Journal of Geotechcnical Engineering, 1984, 110, 20-40. | 0.4 | 264 |
| 6 | Footings under seismic loading: Analysis and design issues with emphasis on bridge foundations. Soil Dynamics and Earthquake Engineering, 2006, 26, 824-853. | 3.8 | 250 |
| 7 | Foundation Vibrations. , 1991, , 553-593. | | 217 |
| 8 | Seismic response of earth dams: some recent developments. Soil Dynamics and Earthquake Engineering, 1987, 6, 2-47. | 3.8 | 184 |
| 9 | SOIL-PILE-BRIDGE SEISMIC INTERACTION: KINEMATIC AND INERTIAL EFFECTS. PART I: SOFT SOIL. Earthquake Engineering and Structural Dynamics, 1997, 26, 337-359. | 4.4 | 168 |
| 10 | Kinematic Seismic Response of Single Piles and Pile Groups. Journal of Geotechcnical Engineering, 1991, 117, 1860-1879. | 0.4 | 167 |
| 11 | Winkler model for lateral response of rigid caisson foundations in linear soil. Soil Dynamics and Earthquake Engineering, 2006, 26, 347-361. | 3.8 | 144 |
| 12 | Simple Radiation Damping Model for Piles and Footings. Journal of Engineering Mechanics - ASCE, 1984, 110, 937-956. | 2.9 | 141 |
| 13 | Dynamic pile-soil-pile interaction. Part I: Analysis of axial vibration. Earthquake Engineering and Structural Dynamics, 1991, 20, 115-132. | 4.4 | 128 |
| 14 | Vibrational characteristics of soil deposits with variable wave velocity. International Journal for Numerical and Analytical Methods in Geomechanics, 1982, 6, 1-20. | 3.3 | 125 |
| 15 | Nonlinear Response of Deep Immersed Tunnel to Strong Seismic Shaking. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2007, 133, 1067-1090. | 3.0 | 122 |
| 16 | Dynamic Response of Arbitrarily Shaped Foundations. Journal of Geotechcnical Engineering, 1986, 112, 109-135. | 0.4 | 110 |
| 17 | Behaviour of deep immersed tunnel under combined normal fault rupture deformation and subsequent seismic shaking. Bulletin of Earthquake Engineering, 2008, 6, 213-239. | 4.1 | 110 |
| 18 | Development of Winkler model for static and dynamic response of caisson foundations with soil and interface nonlinearities. Soil Dynamics and Earthquake Engineering, 2006, 26, 363-376. | 3.8 | 109 |

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|---|---|---|---|
| 19 | Lateral Vibration and Internal Forces of Grouped Piles in Layered Soil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 16-25. | 3.0 | 103 |
| 20 | Foundationâ€“structure systems over a rupturing normal fault: Part I. Observations after the Kocaeli 1999 earthquake. Bulletin of Earthquake Engineering, 2007, 5, 253-275. | 4.1 | 103 |
| 21 | Seismic response of end-bearing single piles. International Journal of Soil Dynamics and Earthquake Engineering, 1984, 3, 82-93. | 0.2 | 102 |
| 22 | Seismic response of slender rigid structures with foundation uplifting. Soil Dynamics and Earthquake Engineering, 2007, 27, 642-654. | 3.8 | 101 |
| 23 | International Benchmark on Numerical Simulations for 1D, Nonlinear Site Response (PRENOLIN): Verification Phase Based on Canonical Cases. Bulletin of the Seismological Society of America, 2016, 106, 2112-2135. | 2.3 | 91 |
| 24 | The role of soil in the collapse of 18 piers of Hanshin Expressway in the Kobe earthquake. Earthquake Engineering and Structural Dynamics, 2006, 35, 547-575. | 4.4 | 83 |
| 25 | Evidence of beneficial role of inclined piles: observations and summary of numerical analyses. Bulletin of Earthquake Engineering, 2008, 6, 705-722. | 4.1 | 83 |
| 26 | A simplified model for lateral response of large diameter caisson foundationsâ€”Linear elastic formulation. Soil Dynamics and Earthquake Engineering, 2009, 29, 268-291. | 3.8 | 83 |
| 27 | Foundationâ€“structure systems over a rupturing normal fault: Part II. Analysis of the Kocaeli case histories. Bulletin of Earthquake Engineering, 2007, 5, 277-301. | 4.1 | 80 |
| 28 | Cyclic lateral response of piles in dry sand: Finite element modeling and validation. Computers and Geotechnics, 2012, 44, 116-131. | 4.7 | 79 |
| 29 | Static and dynamic response of massive caisson foundations with soil and interface nonlinearitiesâ€”validation and results. Soil Dynamics and Earthquake Engineering, 2006, 26, 377-394. | 3.8 | 68 |
| 30 | CONSTITUTIVE MODEL FOR 1-D CYCLIC SOIL BEHAVIOUR APPLIED TO SEISMIC ANALYSIS OF LAYERED DEPOSITS. Soils and Foundations, 2005, 45, 147-159. | 0.7 | 67 |
| 31 | Dynamic response of pile groups with different configurations. Soil Dynamics and Earthquake Engineering, 1993, 12, 239-257. | 3.8 | 66 |
| 32 | PHENOMENOLOGICAL MODEL APPLIED TO INELASTIC RESPONSE OF SOIL-PILE INTERACTION SYSTEMS. Soils and Foundations, 2005, 45, 119-132. | 0.7 | 63 |
| 33 | 4th Ishihara lecture: Soilâ€“foundationâ€“structure systems beyond conventional seismic failure thresholds. Soil Dynamics and Earthquake Engineering, 2015, 68, 23-39. | 3.8 | 62 |
| 34 | Dynamic Interaction Factors for Floating Pile Groups. Journal of Geotechcnical Engineering, 1991, 117, 1531-1548. | 0.4 | 61 |
| 35 | Lateral Dynamic Response of Constrainedâ€Head Piles. Journal of Geotechcnical Engineering, 1983, 109, 1063-1081. | 0.4 | 60 |
| 36 | Dynamic Response of Concrete-Faced Rockfill Dams to Strong Seismic Excitation. Journal of Geotechcnical Engineering, 1995, 121, 185-197. | 0.4 | 60 |

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|---|---|---|---|
| 37 | Free Vibration of Embedded Foundations: Theory versus Experiment. Journal of Geotechcnical Engineering, 1991, 117, 1382-1401. | 0.4 | 59 |
| 38 | Stresses and Displacements in Cross-Anisotropic Soils. Journal of the Geotechnical Engineering Division, ASCE, 1982, 108, 532-553. | 0.2 | 59 |
| 39 | Horizontal Stiffness of Arbitrarily Shaped Embedded Foundations. Journal of Geotechcnical Engineering, 1987, 113, 440-457. | 0.4 | 57 |
| 40 | Soil-Dependent Topographic Effects: A Case Study from the 1999 Athens Earthquake. Earthquake Spectra, 2005, 21, 929-966. | 3.1 | 55 |
| 41 | Vertical Vibration and Additional Distress of Grouped Piles in Layered Soil. Soils and Foundations, 1998, 38, 1-14. | 3.1 | 52 |
| 42 | A class of inhomogeneous shear models for seismic response of dams and embankments. International Journal of Soil Dynamics and Earthquake Engineering, 1985, 4, 166-182. | 0.2 | 50 |
| 43 | Centrifuge modeling of rockingâ€isolated inelastic RC bridge piers. Earthquake Engineering and Structural Dynamics, 2014, 43, 2341-2359. | 4.4 | 50 |
| 44 | Damage potential of near-fault records: sliding displacement against conventional â€œIntensity Measuresâ€• Bulletin of Earthquake Engineering, 2013, 11, 455-480. | 4.1 | 48 |
| 45 | Vertical Response of Arbitrarily Shaped Embedded Foundations. Journal of Geotechcnical Engineering, 1985, 111, 750-771. | 0.4 | 47 |
| 46 | Kinematic Pile Response to Vertical P-wave Seismic Excitation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2002, 128, 860-867. | 3.0 | 47 |
| 47 | A model for grain-crushing-induced landslidesâ€”Application to Nikawa, Kobe 1995. Soil Dynamics and Earthquake Engineering, 2007, 27, 803-817. | 3.8 | 47 |
| 48 | Permanent Deformation on Preexisting Sliding Surfaces in Dams. Journal of Geotechcnical Engineering, 1994, 120, 2041-2061. | 0.4 | 46 |
| 49 | Dynamic Response of Arbitrarily Shaped Foundations: Experimental Verification. Journal of Geotechcnical Engineering, 1986, 112, 136-154. | 0.4 | 40 |
| 50 | Shear vibration of vertically inhomogeneous earth dams. International Journal for Numerical and Analytical Methods in Geomechanics, 1982, 6, 219-241. | 3.3 | 39 |
| 51 | Horizontal Damping of Arbitrarily Shaped Embedded Foundations. Journal of Geotechcnical Engineering, 1987, 113, 458-475. | 0.4 | 37 |
| 52 | Analysis of cut-and-cover tunnels against large tectonic deformation. Bulletin of Earthquake Engineering, 2010, 8, 283-307. | 4.1 | 37 |
| 53 | Numerical modeling of centrifuge cyclic lateral pile load experiments. Earthquake Engineering and Engineering Vibration, 2009, 8, 61-76. | 2.3 | 34 |
| 54 | Pushover and Seismic Response of Foundations on Stiff Clay: Analysis with P-Delta Effects. Earthquake Spectra, 2012, 28, 1589-1618. | 3.1 | 34 |

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|---|---|---|---|
| 55 | Pipeline in dense sand subjected to tectonic deformation from normal or reverse faulting. Soil Dynamics and Earthquake Engineering, 2019, 127, 105780. | 3.8 | 34 |
| 56 | Evaluation of seismic hazard for the assessment of historical elements at risk: description of input and selection of intensity measures. Bulletin of Earthquake Engineering, 2015, 13, 49-65. | 4.1 | 31 |
| 57 | Rocking Damping of Arbitrarily Shaped Embedded Foundations. Journal of Geotechcnical Engineering, 1989, 115, 473-490. | 0.4 | 30 |
| 58 | Rocking Stiffness of Arbitrarily Shaped Embedded Foundations. Journal of Geotechcnical Engineering, 1989, 115, 457-472. | 0.4 | 28 |
| 59 | Stochastic seismic sliding of rigid mass supported through non-symmetric friction. Earthquake Engineering and Structural Dynamics, 1984, 12, 777-794. | 4.4 | 27 |
| 60 | Shallow and Deep Foundations under Fault Rupture Or Strong Seismic Shaking. , 2007, , 185-215. | | 27 |
| 61 | Local-soil and source-mechanism effects in the 1986 kalamata (Greece) earthquake. Earthquake Engineering and Structural Dynamics, 1990, 19, 431-456. | 4.4 | 26 |
| 62 | Mitigation of reverse faulting deformation using a soil bentonite wall: Dimensional analysis, parametric study, design implications. Soil Dynamics and Earthquake Engineering, 2016, 89, 248-261. | 3.8 | 26 |
| 63 | PRENOLIN: International Benchmark on 1D Nonlinear Siteâ€Response Analysisâ€"Validation Phase Exercise. Bulletin of the Seismological Society of America, 2018, , . | 2.3 | 26 |
| 64 | Database of rocking shallow foundation performance: Dynamic shaking. Earthquake Spectra, 2020, 36, 960-982. | 3.1 | 24 |
| 65 | Seismic shear vibration of embankment dams in semi-cylindrical valleys. Earthquake Engineering and Structural Dynamics, 1986, 14, 19-40. | 4.4 | 22 |
| 66 | Numerical and Experimental Assessment of Advanced Concepts to Reduce Noise and Vibration on Urban Railway Turnouts. Journal of Transportation Engineering, 2009, 135, 279-287. | 0.9 | 22 |
| 67 | A New Dynamic Model for Earth Dams Evaluated Through Case Histories. Soils and Foundations, 1981, 21, 67-78. | 3.1 | 21 |
| 68 | Neural network analysis of overturning response under near-fault type excitation. Earthquake Engineering and Engineering Vibration, 2005, 4, 213-228. | 2.3 | 21 |
| 69 | Constitutive model for soil amplification of ground shaking: Parameter calibration, comparisons, validation. Soil Dynamics and Earthquake Engineering, 2012, 42, 255-274. | 3.8 | 20 |
| 70 | Sliding and overturning potential of Christchurch 2011 earthquake records. Earthquake Engineering and Structural Dynamics, 2012, 41, 1921-1944. | 4.4 | 20 |
| 71 | Vibration Characteristics of Dams in Narrow Canyons. Journal of Geotechcnical Engineering, 1987, 113, 899-904. | 0.4 | 19 |
| 72 | On the Linear Seismic Response of Soils With Modulus Varying as a Power of Depth-The Maliakos Marine Clay. Soils and Foundations, 2004, 44, 85-93. | 3.1 | 19 |

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| 73 | Physical and Numerical Modeling of Hybrid Foundations to Mitigate Seismic Fault Rupture Effects. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, . | 3.0 | 19 |
| 74 | Vertical Oscillation of Earth and Rockfill Dams: Analysis and Field Observation. Soils and Foundations, 1981, 21, 56-68. | 3.1 | 18 |
| 75 | Seismic shear strains and seismic coefficients in dams and embankments. Soil Dynamics and Earthquake Engineering, 1986, 5, 75-83. | 3.8 | 17 |
| 76 | A Thermo-Poro-Visco-Plastic Shear Band Model for Seismic Triggering and Evolution of Catastrophic Landslides. Soils and Foundations, 2007, 47, 11-25. | 3.1 | 17 |
| 77 | Vertical static and dynamic pile-to-pile interaction in non-linear soil. Geotechnique, 2020, 70, 432-447. | 4.0 | 17 |
| 78 | Train-Induced Vibrations on Urban Metro and Tram Turnouts. Journal of Transportation Engineering, 2009, 135, 397-405. | 0.9 | 14 |
| 79 | Database of rocking shallow foundation performance: Slow-cyclic and monotonic loading. Earthquake Spectra, 2020, 36, 1585-1606. | 3.1 | 14 |
| 80 | Elastic Stiffnesses of a Rigid Suction Caisson and Its Cylindrical Sidewall Shell. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, . | 3.0 | 13 |
| 81 | Elastic-Plastic Slabs on Elastic Foundation. Journal of the Structural Division, 1978, 104, 621-636. | 0.2 | 13 |
| 82 | Dynamic compliance matrix of rigid strip footing bonded to a viscoelastic cross anisotropic halfspace. International Journal of Mechanical Sciences, 1981, 23, 547-559. | 6.7 | 12 |
| 83 | Geotechnical design with apparent seismic safety factors well-bellow 1. Soil Dynamics and Earthquake Engineering, 2014, 57, 37-45. | 3.8 | 12 |
| 84 | Soil, basin and soilâ€“buildingâ€“soil interaction effects on motions of Mexico City during seven earthquakes. Geotechnique, 2020, 70, 581-607. | 4.0 | 12 |
| 85 | Longitudinal Vibrations of Embankment Dams. Journal of the Geotechnical Engineering Division, ASCE, 1981, 107, 21-40. | 0.2 | 12 |
| 86 | Torsional Vibration on Anisotropic Halfspace. Journal of Geotechcnical Engineering, 1984, 110, 1549-1558. | 0.4 | 9 |
| 87 | Nonlinear analysis of earthquake fault rupture interaction with historic masonry buildings. Bulletin of Earthquake Engineering, 2015, 13, 83-95. | 4.1 | 9 |
| 88 | Ultimate Behavior of Continuous Footings in Tensionless Contact with a Three-Parameter Soil. Journal of Structural Mechanics, 1981, 9, 339-362. | 0.6 | 8 |
| 89 | Static and dynamic lateral non-linear pileâ€“soilâ€“pile interaction. Geotechnique, 2022, 72, 642-657. | 4.0 | 8 |
| 90 | Discussion of â€œ Evaluation of In Situ Effective Shear Modulus from Dispersion Measurements â€• by Christos Vrettos and Bernd Prange (October, 1990, Vol. 116, No. 10). Journal of Geotechcnical Engineering, 1992, 118, 1120-1122. | 0.4 | 5 |

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| 91 | Analysis of failures of guardrail base-plates in scissors crossovers of the Athens Metro: The role of foundationâ€“structure interaction. Engineering Failure Analysis, 2007, 14, 765-782. | 4.0 | 5 |
| 92 | Effects of Near-Fault Ground Shaking on Sliding Systems. , 2008, , . | | 5 |
| 93 | Discussion of â€œIndentation of Anisotropic Halfspace by Yielding Circular Foundationâ€• Journal of the Engineering Mechanics Division, 1981, 107, 695-704. | 0.4 | 5 |
| 94 | The Collapse of the Hanshin Expressway (Fukae) Bridge, Kobe 1995: Soil-Foundation-Structure Interaction, Reconstruction, Seismic Isolation. , 2006, , 93-120. | | 4 |
| 95 | Inelastic soil amplification in three sites during the Tokachi-oki MJMA 8.0 earthquake. Soil Dynamics and Earthquake Engineering, 2018, 110, 300-317. | 3.8 | 4 |
| 96 | Progressive Collapse of Rigid-Plastic Circular Foundations. Journal of the Engineering Mechanics Division, 1982, 108, 493-508. | 0.4 | 4 |
| 97 | Simplified Approach for Pile and Foundation Interaction Analysis. Journal of Geotechcnical Engineering, 1995, 121, 228-230. | 0.4 | 3 |
| 98 | Designing inelastic geotechnical systems on the basis of single design elastic response spectrum. Earthquake Engineering and Structural Dynamics, 2021, 50, 3505-3531. | 4.4 | 3 |
| 99 | Loading of Anisotropic Quarter Plane. Journal of Engineering Mechanics - ASCE, 1986, 112, 1021-1040. | 2.9 | 2 |
| 100 | Torsional Stiffness of Arbitrarily Shaped Embedded Foundations. Journal of Geotechcnical Engineering, 1992, 118, 1168-1185. | 0.4 | 2 |
| 101 | ATC Mw7.1 Pueblaâ€“Morelos earthquake reconnaissance observations: Seismological, geotechnical, ground motions, site effects, and GIS mapping. Earthquake Spectra, 2020, 36, 5-30. | 3.1 | 2 |
| 102 | Soil, basin and soilâ€“buildingâ€“soil interaction effects on motions of Mexico City during seven earthquakes. Geotechnique, 2022, 72, 556-564. | 4.0 | 2 |
| 103 | Variational Estimation of The Settlement of A Circular Raft On Anisotropic Soil. Soils and Foundations, 1981, 21, 109-116. | 3.1 | 1 |
| 104 | Closure to â€œ Dynamic Response of Arbitrarily Shaped Foundations: Experimental Verification â€• by Ricardo Dobry, George Gazetas and Kenneth H. Stokoe, II (February, 1986, Vol. 112, No. 2). Journal of Geotechcnical Engineering, 1987, 113, 1412-1416. | 0.4 | 1 |
| 105 | Discussion of â€œ Seismic Analysis of Concrete Face Rockfill Dams â€•by Gilles Bureau, Richard L. Volpe, Wolfgang H. Roth, and Takekazu Udaka (pp. 479â€“508). Journal of Geotechcnical Engineering, 1987, 113, 1247-1251. | 0.4 | 1 |
| 106 | Torsional Radiation Damping of Arbitrarily Shaped Embedded Foundations. Journal of Geotechcnical Engineering, 1992, 118, 1186-1199. | 0.4 | 1 |
| 107 | Discussion of â€œImpedance Function of Piles in Inhomogeneous Mediaâ€•by Odysseus Michaelides and George Gazetas. Journal of Geotechcnical Engineering, 1995, 121, 235-236. | 0.4 | 1 |
| 108 | Caisson Foundations Subjected to Seismic Faulting: Reduced-Scale Physical Modeling. Geotechnical, Geological and Earthquake Engineering, 2015, , 405-421. | 0.2 | 1 |

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| 109 | Discussion of â€œ Rocking Vibrations of Footings â€•by H. R. Sreekantiah (July, 1982). Journal of Geotechcnical Engineering, 1984, 110, 128-131. | 0.4 | 0 |
| 110 | Discussion of â€œ Rigidâ€Plastic Analysis of Floating Plates â€•by Shankaranarayana U. Bhat and Paul C. Xirouchakis (June, 1985). Journal of Engineering Mechanics - ASCE, 1987, 113, 793-793. | 2.9 | 0 |
| 111 | Closure to â€œFree Vibration of Embedded Foundations: Theory versus Experimentâ€•by George Gazetas and Kenneth H. Stokoe II (September, 1991, Vol. 117, No. 9). Journal of Geotechcnical Engineering, 1992, 118, 1864-1867. | 0.4 | 0 |
| 112 | A Simplified Model for the Linear Elastic Analysis of Laterally Loaded Caissons. , 2008, , . | | 0 |
| 113 | Discussion on â€œOn the rocking complex response of ancient multispondyle columns: a genious and challenging structural system requiring reliable solutionâ€• Meccanica, 2015, 50, 293-294. | 2.0 | 0 |
| 114 | Experimental Testing Conducted in the Course of the GIPIPE Project and Their Numerical Simulation. , 2021, , 51-87. | | 0 |