

# Priyanka Ghosh

## List of Publications by Year in descending order

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66  
papers

1,125  
citations

430874

18  
h-index

454955

30  
g-index

69  
all docs

69  
docs citations

69  
times ranked

386  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Ultimate Bearing Capacity of Two Interfering Rough Strip Footings. International Journal of Geomechanics, 2007, 7, 53-62.  | 2.7 | 96        |
| 2  | Bearing capacity factor $N_f^3$ for ring footings using the method of characteristics. Canadian Geotechnical Journal, 2005, 42, 1474-1484.   | 2.8 | 73        |
| 3  | Seismic bearing capacity for embedded footings on sloping ground. Geotechnique, 2006, 56, 133-140.   | 4.0 | 69        |
| 4  | Seismic active earth pressure behind a nonvertical retaining wall using pseudo-dynamic analysis. Canadian Geotechnical Journal, 2008, 45, 117-123.   | 2.8 | 69        |
| 5  | Upper bound solutions of bearing capacity of strip footing by pseudo-dynamic approach. Acta Geotechnica, 2008, 3, 115-123.   | 5.7 | 59        |
| 6  | Upper bound limit analysis for finding interference effect of two nearby strip footings on sand. Geotechnical and Geological Engineering, 2007, 25, 499-507.                                 | 1.7 | 48        |
| 7  | Seismic Passive Earth Pressure Behind Non-vertical Retaining Wall Using Pseudo-dynamic Analysis. Geotechnical and Geological Engineering, 2007, 25, 693-703.                                 | 1.7 | 46        |
| 8  | Seismic Passive Earth Pressure Behind Non Vertical Wall with Composite Failure Mechanism: Pseudo-Dynamic Approach. Geotechnical and Geological Engineering, 2011, 29, 363-373.               | 1.7 | 34        |
| 9  | Experimental investigation on interaction problem of two nearby circular footings on layered cohesionless soil. Geomechanics and Geoengineering, 2013, 8, 97-106.                            | 1.8 | 34        |
| 10 | Interference of Two Asymmetric Closely Spaced Strip Footings Resting on Nonhomogeneous and Linearly Elastic Soil Bed. International Journal of Geomechanics, 2013, 13, 840-851.              | 2.7 | 34        |
| 11 | Interference effect of two nearby strip footings on layered soil: theory of elasticity approach. Acta Geotechnica, 2010, 5, 189-198.   | 5.7 | 31        |
| 12 | Experimental studies on interference of two angular footings resting on surface of two-layer cohesionless soil deposit. International Journal of Geotechnical Engineering, 2015, 9, 422-433. | 2.0 | 29        |
| 13 | Seismic active earth pressure on walls with bilinear backface using pseudo-dynamic approach. Computers and Geotechnics, 2009, 36, 1229-1236.   | 4.7 | 26        |
| 14 | Interference effect of two nearby strip surface footings on cohesionless layered soil. International Journal of Geotechnical Engineering, 2011, 5, 87-94.                                    | 2.0 | 26        |
| 15 | Seismic vertical uplift capacity of horizontal strip anchors using pseudo-dynamic approach. Computers and Geotechnics, 2009, 36, 342-351.  | 4.7 | 23        |
| 16 | FLAC Based Numerical Studies on Dynamic Interference of Two Nearby Embedded Machine Foundations. Geotechnical and Geological Engineering, 2012, 30, 1161-1181.                               | 1.7 | 23        |
| 17 | Experimental study on dynamic interference effect of two closely spaced machine foundations. Canadian Geotechnical Journal, 2016, 53, 196-209.   | 2.8 | 22        |
| 18 | Fly ash and kaolinite-based geopolymers: processing and assessment of some geotechnical properties. International Journal of Geotechnical Engineering, 2016, 10, 377-386.                    | 2.0 | 20        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Interaction of adjacent strip footings on reinforced soil using upper-bound limit analysis. Geosynthetics International, 2018, 25, 599-611.   | 2.9 | 20        |
| 20 | Linear and nonlinear elastic analysis of closely spaced strip foundations using Pasternak model. Frontiers of Structural and Civil Engineering, 2017, 11, 228-243.  | 2.9 | 16        |
| 21 | Seismic Active Resistance of a Tilted Cantilever Retaining Wall considering Adaptive Failure Mechanism. International Journal of Geomechanics, 2019, 19, .  | 2.7 | 16        |
| 22 | Seismic stability analysis of a hunchbacked retaining wall under passive state using method of stress characteristics. Acta Geotechnica, 2020, 15, 2969-2982.   | 5.7 | 16        |
| 23 | Seismic interference of two nearby horizontal strip anchors in layered soil. Natural Hazards, 2012, 63, 789-804.  | 3.4 | 15        |
| 24 | Closed-Form Solution for Seismic Earth Pressure on Bilinear Retaining Wall Using Method of Characteristics. Journal of Earthquake Engineering, 2021, 25, 1171-1190.   | 2.5 | 15        |
| 25 | Interaction Effect of Two Closely Spaced Skirted Strip Foundations in Cohesionless Soil Using Upper-Bound Limit Analysis. International Journal of Geomechanics, 2017, 17, .                                    | 2.7 | 14        |
| 26 | Seismic passive earth pressure on an inclined cantilever retaining wall using method of stress characteristics – A new approach. Soil Dynamics and Earthquake Engineering, 2018, 107, 77-82.                    | 3.8 | 14        |
| 27 | Seismic analysis of nailed vertical excavation using pseudo-dynamic approach. Earthquake Engineering and Engineering Vibration, 2016, 15, 621-631.  | 2.3 | 13        |
| 28 | Determination of Viscoelastic Properties of Soil and Prediction of Static and Dynamic Response. International Journal of Geomechanics, 2019, 19, 04019072.  | 2.7 | 13        |
| 29 | Bearing Capacity Factors for Isolated Surface Strip Footing Resting on Multi-layered Reinforced Soil Bed. Indian Geotechnical Journal, 2019, 49, 37-49.   | 1.4 | 13        |
| 30 | Ultimate bearing capacity of skirted foundation on cohesionless soil using slip line theory. Computers and Geotechnics, 2020, 123, 103573.  | 4.7 | 13        |
| 31 | Optimization and Parametrical Investigation to Assess the Reconstitution of Different Types of Indian Sand Using Portable Travelling Pluviator. Geotechnical and Geological Engineering, 2016, 34, 59-73.       | 1.7 | 12        |
| 32 | Intermittent geofoam in-filled trench for vibration screening considering soil non-linearity. KSCE Journal of Civil Engineering, 2016, 20, 2308-2318.   | 1.9 | 12        |
| 33 | Dynamic Interaction of Two Nearby Machine Foundations on Homogeneous Soil. , 2012, , .  |     | 10        |
| 34 | Seismic Behaviour of Retaining Structures, Design Issues and Requalification Techniques. Indian Geotechnical Journal, 2014, 44, 167-182.  | 1.4 | 10        |
| 35 | Numerical study on intermittent geofoam in-filled trench as vibration barrier considering soil non-linearity and circular dynamic source. International Journal of Geotechnical Engineering, 2017, 11, 278-288. | 2.0 | 10        |
| 36 | Interference of Strip Footings Resting on Nonlinearly Elastic Foundation Bed: A Finite Element Analysis. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2018, 42, 199-206.      | 1.9 | 10        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Interference of proposed footing with an existing footing resting on non-linearly elastic dense and loose cohesionless soil bed. <i>European Journal of Environmental and Civil Engineering</i> , 2021, 25, 2574-2591.  | 2.1 | 9         |
| 38 | Determination of Critical Slope Face in c- $\phi$ Soil under Seismic Condition Using Method of Stress Characteristics. <i>International Journal of Geomechanics</i> , 2021, 21, 04021031.   | 2.7 | 9         |
| 39 | Seismic uplift capacity of inclined strip anchors in sand using upper bound limit analysis. <i>Geomechanics and Geoengineering</i> , 2010, 5, 267-275.  | 1.8 | 8         |
| 40 | Seismic Interference Effect of Two Nearby Square Footings. , 2011, , .  |     | 8         |
| 41 | A novel vibration screening technique using bamboo: a numerical study. <i>Journal of Natural Fibers</i> , 2020, 17, 258-270.  | 3.1 | 8         |
| 42 | Experimental and numerical investigations on attenuation response of machine foundations under vertical excitation. <i>Geomechanics and Geoengineering</i> , 2022, 17, 1865-1886.   | 1.8 | 8         |
| 43 | Interaction Effect of Group of Helical Anchors in Cohesive Soil Using Finite Element Analysis. <i>Geotechnical and Geological Engineering</i> , 2017, 35, 1475-1490.  | 1.7 | 7         |
| 44 | Vertical Uplift Capacity of Two Nearby Horizontal Strip Anchors Using the Method of Stress Characteristics. <i>International Journal of Geomechanics</i> , 2016, 16, .  | 2.7 | 6         |
| 45 | Upper-bound limit load of rigid pavements resting on reinforced soil embankments – Kinematic approach. <i>Transportation Geotechnics</i> , 2021, 30, 100611.  | 4.5 | 6         |
| 46 | Experimental and Numerical Analysis of Interacting Circular Plate Anchors Embedded in Homogeneous and Layered Cohesionless Soil. <i>International Journal of Civil Engineering</i> , 2020, 18, 231-244.   | 2.0 | 5         |
| 47 | Seismic Stability of a Broken-Back Retaining Wall Using Adaptive Collapse Mechanism. <i>International Journal of Geomechanics</i> , 2020, 20, .   | 2.7 | 5         |
| 48 | Development of limiting soil slope profile under seismic condition using slip line theory. <i>Acta Geotechnica</i> , 2021, 16, 3517-3531.   | 5.7 | 5         |
| 49 | Seismic Passive Earth Pressure on Walls with Bilinear Backface Using Pseudo-Dynamic Approach. <i>Geotechnical and Geological Engineering</i> , 2011, 29, 307-317.   | 1.7 | 4         |
| 50 | Active screening for axi-symmetric machine loading using EPS geof foam. <i>Japanese Geotechnical Society Special Publication</i> , 2016, 2, 2238-2243.  | 0.2 | 4         |
| 51 | A Systematic Approach towards the Assessment of Sand Bed Preparation Using the Air Pluviation Technique. , 2016, , .  |     | 4         |
| 52 | Plasticity-Based Estimation of Active Earth Pressure Exerted by Layered Cohesionless Backfill. <i>International Journal of Geomechanics</i> , 2021, 21, .   | 2.7 | 4         |
| 53 | Reply to the discussion by Greco on “Seismic active earth pressure behind a nonvertical retaining wall using pseudo-dynamic analysis” Appears in <i>Canadian Geotechnical Journal</i> , 45(12): 1795-1797.. <i>Canadian Geotechnical Journal</i> , 2008, 45, 1798-1798. | 2.8 | 3         |
| 54 | Passive Resistance of Retaining Walls Supporting Layered Cohesionless Backfill: A Plasticity Approach. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .  | 3.0 | 3         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Numerical Study on Static Interaction of Closely Spaced Horizontal Square or Rectangular Ground Anchors in c- $\phi$ Soil. International Journal of Geosynthetics and Ground Engineering, 2015, 1, 1. | 2.0 | 2         |
| 56 | Seismic interaction of two closely spaced horizontal square and rectangular ground anchors in layered soil. International Journal of Geotechnical Engineering, 2017, 11, 80-89.                       | 2.0 | 2         |
| 57 | Undrained bearing capacity of a skirted strip foundation using upper-bound limit analysis. Acta Geotechnica Slovenica, 2019, 16, 2-11.  | 0.3 | 2         |
| 58 | Impact of Footing Shape on Dynamic Properties and Vibration Transmission Characteristics of Machine Foundations. International Journal of Geosynthetics and Ground Engineering, 2022, 8, 1.           | 2.0 | 2         |
| 59 | Large-scale testing and finite-element simulation of twin square anchor plates embedded at shallow depth in layered soil media. Sadhana - Academy Proceedings in Engineering Sciences, 2020, 45, 1.   | 1.3 | 1         |
| 60 | Modelling Linear Viscoelastic Behaviour of Kanpur Local Soil Using Prony Series, Parameter Fitting. Sustainable Civil Infrastructures, 2019, , 114-126.   | 0.2 | 1         |
| 61 | Seismic Interference Effect of Two Nearby Horizontal Strip Anchors. , 2012, , .   |     | 0         |
| 62 | Interaction of two closely spaced circular ground anchors embedded in homogeneous soil deposit. Japanese Geotechnical Society Special Publication, 2015, 3, 76-79.                                    | 0.2 | 0         |
| 63 | Analysis of Ring Foundation Systems Resting on an Anisotropic Elastic Soil Medium Subjected to Working Compressive and Tensile Loads. , 2016, , .   |     | 0         |
| 64 | Pond ashâ€“kaoliniteâ€“fibre-based geopolymers: processing and strength assessment. Proceedings of Institution of Civil Engineers: Waste and Resource Management, 2018, 171, 62-70.                   | 0.8 | 0         |
| 65 | Geotechnical stability assessment of a railway arch bridge more than 100-year old: a case study. Sadhana - Academy Proceedings in Engineering Sciences, 2019, 44, 1.                                  | 1.3 | 0         |
| 66 | Ultimate Bearing Capacity of Strip Footing on Reinforced Embankment Using Upper Bound Limit Analysis. Lecture Notes in Civil Engineering, 2022, , 543-551.  | 0.4 | 0         |