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Strength characteristics of crushable volcanic soils at various degrees of saturation
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Particle-scale classification and identification of the structure of processed municipal solid waste by CT scanning
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DEM simulation of ring shearing test on granular material
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Influence of particle form on initial packing and dilation of particulate materials – a numerical study
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Micromechanical influence of grain properties on deformation – failure behaviours of granular media by DEM
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A unified two-dimensional contact model to capture the roughness of granular materials by rolling resistance
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DEM simulation of static behavior of granular media and micromechanical analysis under different stress paths
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Micro mechanical interpretation of liquefaction resistance of over-consolidated granular assemblies
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A micro-mechanical study of granular soil liquefaction during dynamic excitations
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A discrete element approach to slope failure
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An analysis of the micro-mechanical response of unsaturated granular soil deposits subjected to a dynamic excitation
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A statistical investigation of particle crushing in sand
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Parametric study on push-up loading of sand plug in open-ended pipe pile using DEM
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DEM loading simulation of a crushable grain sediment
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Micromechanical analysis of the particulate nature of sturzstroms
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Seepage failure of granular ground accounting for soil-water-gas interaction
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Macroscopic balance equations for granular materials
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A new model accounting for non-coaxial flow of sand
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An elasto-plastic constitutive model of granular materials based on contact force distribution
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Micro and macro effects of particle rotation on shear strength of idealized granular materials
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Extension of subloading $t_{ij}$ model to structured soils
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Geomaterials with changing grading: a route towards modelling
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Application of particle discretization technique for failure analysis of stabilized geomaterial
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**Engineering applications**

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Application of digital image analysis to displacement measurements of sand particles near steel surface in friction tests
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Visualization of soil behavior due to lateral pile loadings using X-ray CT scanner
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Sand-steel interface friction over a wide shear deformation concerning soil crushability
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Evolution of local soil – structure interface response using Particle Image Velocimetry
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Pile bearing capacity in crushable soils
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Point resistance of sheet shaped foundations in sands with consideration of skin friction
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A study of geotechnical characteristics of particulate media in rail track substructures
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Effect evaluation of particle shape on mechanical behavior of railroad ballast with discontinuous analysis
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A laboratory study of large displacement failure mechanisms for vertical and inclined anchors in sand
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Deformation behavior and bearing capacity of sand slope due to surface loading and their FEM simulation by MMX-model
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A note on the micromechanics of long runout rock avalanches
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Upward movement of fines in sand under one-dimensional water pressure change
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Macro and micro behaviour of soil fracturing
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Micro and macroscopic processes on the collapse and growth of cavity regions in a granular material due to viscous flow
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Analysis of the compressibility of soil mixed with crushed EPS by DEM
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Fibre-reinforced granular soils behaviour: numerical approach
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Finite element analysis of ground improved by sand compaction pile method
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Characteristics of granular filling materials as sand compaction pile
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Effect of particle crushing on the geotechnical properties of granulated blast furnace slag
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Frictional characteristics of tire-derived granular materials
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Effects of tire-chips on cement-treated clay behaviour and its modeling
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Mechanical behavior of biodegradable granular material of recycled wooden scrap
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Engineering properties of stabilized dewatered sludge from crushed sand production as a recycled material
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Physical and mechanical properties of dewatered clay lump and their aggregate
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Effects of gypsum veins on the seepage pattern of upper Gotvand Dam  
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Homogeneity and zoning of Pusan clays across the Nakdong River Estuary  
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Laboratory tests of buried plastic pipes in sand under repeated-load  
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