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Particle Shape Effects on Packing Density, Stiffness, and Strength: Natural and Crushed Sands

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1001	Rheologie. 2004 , 1-26		1
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998	Micaceous Sands: Microscale Mechanisms and Macroscale Response. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2007 , 133, 1136-1143	3.4	33
997	Fundamental study of thermal conduction in dry soils. 2008 , 10, 197-207		154
996	Rheological and mechanical properties of mortars prepared with natural and manufactured sands. 2008 , 38, 1142-1147		87
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993	Dissociation behavior of CO2 hydrate in sediments during isochoric heating. 2008 , 42, 8571-7		17
992	Influence of Mineral Composition on the Simple Shear Response of Sands: Experimental Study. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2008 , 134, 1820-1824	3.4	1
991	Volumetric Strains of Clean Sands Subject to Cyclic Loads. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2008 , 134, 1073-1085	3.4	64
990	Influence of roundness on the void ratio and strength of uniform sand. 2008, 58, 227-231		97
989	Geological and Physical Factors Affecting the Friction Angle of Compacted Sands. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2008 , 134, 1476-1489	3.4	85
988	Instrumentation for bender element testing of soils. 2008 , 2, 395-405		10
987	A method of estimating the form of coarse particulates. 2009 , 59, 493-501		66
986	A recent debris flow event and implications for hazard management. 2009 , 42, 51-60		24
985	The H1 Nuclear Magnetic Resonance Spin-Lattice Relaxation Rate of Some Hydrated Synthetic and Natural Sands. 2009 , 14, 49-61		8

(2010-2009)

984	A correlation between friction angle and particle shape metrics in Quaternary coarse alluvia. 2009 , 42, 145-155	4
983	Normalized Resilient Modulus Model for Subbase and Subgrade Based on Stress-Dependent Modulus Degradation. 2009 , 135, 600-610	11
982	Development and evaluation of a model for soillir fluidized bed rheological behavior. 2009 , 61, 810-826	
981	Comparison of vibrocompaction methods by numerical simulations. 2009 , 33, 1823-1838	19
980	Numerical particle-scale study of swelling pressure in clays. 2009 , 13, 273-279	8
979	A study on the limit void ratio characteristics of medium to fine mixed graded sands. 2009, 104, 290-294	29
978	Fabric evolution in a numerical direct shear test. 2009 , 36, 597-603	57
977	A review of modern particle sizing methods. 2009 , 162, 193-201	23
976	Numerical study of the effects of particle shape and polydispersity on permeability. 2009, 80, 021304	76
975	Characterization of Liquefaction Susceptibility of Sands by Means of Extreme Void Ratios and/or Void Ratio Range. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009 , 135, 1986-1990 ⁴	28
974	Experimental study on the contact patch pressure and sinkage of a lightweight vehicle on sand. 2010 , 47, 343-359	8
973	Bio-mediated soil improvement. 2010 , 36, 197-210	838
972	The influence of particle characteristics on the behaviour of coarse grained soils. 2010 , 60, 413-423	263
971	Varying initial void ratios for DEM simulations. 2010 , 60, 497-502	30
970	Grain Shape Quantifications and Their Relationship to Dilatancy. 2010,	2
969	Verification of the Soil-Type Specific Correlation between Liquefaction Resistance and Shear-Wave Velocity of Sand by Dynamic Centrifuge Test. <i>Journal of Geotechnical and Geoenvironmental</i> 3.4 Engineering - ASCE, 2010 , 136, 165-177	29
968	Effect of grain shape and angularity on the undrained response of fine sands. 2010, 47, 539-551	78
967	Effect of particle shape on density and permeability of sands. 2010 , 163, 307-320	43

966	Maximum and minimum stable random packings of Platonic solids. 2010 , 82, 061304	84
965	Origin of basaltic soils at Gusev crater, Mars, by aeolian modification of impact-generated sediment. 2011 , 116,	39
964	P-wave monitoring of hydrate-bearing sand during CH4©O2 replacement. 2011 , 5, 1031-1038	64
963	Formation history and physical properties of sediments from the Mount Elbert Gas Hydrate Stratigraphic Test Well, Alaska North Slope. 2011 , 28, 427-438	48
962	Relationships between Shape Characteristics and Shear Strength of Sands. 2011 , 51, 857-871	21
961	Prediction of shear development in clean sands by use of particle shape information and artificial neural networks. 2011 , 38, 5603-5613	4
960	The relationship between the fractal dimension and shape properties of particles. 2011 , 15, 1219-1225	51
959	Dilatancy and rheology at 080% solid during equiaxed solidification. 2011, 59, 3091-3101	21
958	Effect of Particle Grading on the Response of an Idealized Granular Assemblage. 2011 , 11, 276-285	84
957	Estimating Hydraulic and Thermal Conductivities of Crushed Granite Using Porosity and Equivalent Particle Size. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2011 , 137, 834-842	22
956	Towards a sustainable concrete: BandlessItoncrete. 2011 , 18, 99-107	2
955	Methane Hydrate Distribution from Prolonged and Repeated Formation in Natural and Compacted Sand Samples: X-Ray CT Observations. 2011 , 2011, 1-15	11
954	Lateral soil stiffness adjacent to deep integral bridge abutments. 2011 , 61, 593-603	11
953	The mechanics of rigid irregular particles subject to uniaxial compression. 2012 , 62, 681-692	36
952	The influence of particle shape on the (centrifuge) cone penetration test (CPT) end resistance in uniformly graded granular soils. 2012 , 62, 973-984	26
951	Collapse of loose sand with the addition of fines: the role of particle shape. 2012 , 62, 1111-1125	172
950	Multiscale Eomography-to-simulation Framework for granular matter: the road ahead. 2012 , 2, 135-139	14
949	FourierWoronoi-based generation of realistic samples for discrete modelling of granular materials. 2012 , 14, 621-638	140

948	Centrifuge modelling of hillslope debris flow initiation. 2012 , 92, 162-171	16
947	Particle Shape Estimates of Uniform Sands: Visual and Automated Methods Comparison. 2012 , 24, 194-206	28
946	Hydromechanical triggering of landslides: From progressive local failures to mass release. 2012 , 48,	67
945	Granular element method for computational particle mechanics. 2012 , 241-244, 262-274	99
944	Advances in the simulation and automated measurement of well-sorted granular material: 1. Simulation. 2012 , 117, n/a-n/a	3
943	Critical length of force chains and shear band thickness in dense granular materials. 2012 , 7, 41-55	38
942	On the influence of inter-particle friction and dilatancy in granular materials: a numerical analysis. 2012 , 14, 433-447	56
941	Simulation of triaxial compression tests with polyhedral discrete elements. 2012 , 43, 92-100	66
940	Numerical simulation of 3D semi-real-shaped granular particle assembly. 2012 , 221, 431-446	41
939	Effects of particle shape on shear strength of clay-gravel mixture. 2013 , 17, 712-717	32
938	Breakage of an artificial crushable material under loading. 2013 , 15, 661-673	62
937	Effect of Aspect Ratio on the Monotonic Shear Behaviour: Micromechanical Interpretations. 2013 , 31, 1543-1553	4
936	Compressional behaviour of various size/shape sand@lay mixtures with different pore fluids. 2013 , 164, 36-49	72
935	Dependence of shape on particle size for a crushed rock railway ballast. 2013 , 15, 849-861	63
934	Shear zone structures and stress fluctuations in large ring shear tests. 2013 , 167, 6-13	13
933	Effects of mudstone particle content on compaction behavior and particle crushing of a crushed sandstone thudstone particle mixture. 2013 , 167, 1-5	26
932	Normalized shear modulus reduction and damping ratio curves of quartz sand and rhyolitic crushed rock. 2013 , 53, 879-893	61
931	Dynamic response of a rock fracture filled with viscoelastic materials. 2013 , 160, 1-7	51

930	The dynamics of a pumice granular soil in dry state under isotropic resonant column testing. 2013 , 45, 70-79		41
929	Effects of particle shape and size distribution on the shear strength behavior of composite soils. 2013 , 72, 371-381		59
928	Analysis of an Image-Based Method to Quantify the Size and Shape of Sand Particles. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013 , 139, 1290-1307	3.4	186
927	Quantitative Comparison of Two-Dimensional and Three-Dimensional Discrete-Element Simulations of Nominally Two-Dimensional Shear Flow. 2013 , 13, 205-212		18
926	Some studies on morphology of the coarse-grained soils. 2013 , 152, 48-55		17
925	Role of Particle Angularity on the Mechanical Behavior of Granular Mixtures. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013 , 139, 353-355	3.4	90
924	Simple models for the estimation of shearing resistance angle of uniform sands. 2013 , 22, 111-123		9
923	Measurement of Shearing Characteristics of Granular Materials at Low Stress Levels in a Shear Box. 2013 , 31, 329-336		27
922	Innovative Laboratory Assessment of the Resilient Behaviour of Materials (Rigid, Elastic and Particulates). 2013 , 53, 156-166		1
921	Analysis of conical spouted bed fluid dynamics using carton mixtures. 2013 , 70, 37-47		3
920	Gradation effects on the mechanical response of crushed stone aggregate. 2013 , 14, 231-241		31
919	Shear stiffness of granular material at small strains: does it depend on grain size?. 2013 , 63, 165-179		126
918	Ring shear tests on slip zone soils of three giant landslides in the Three Gorges Project area. 2013 , 154, 106-115		57
917	Strength of various sands in triaxial and cyclic direct shear tests. 2013 , 156, 92-102		45
916	Environmental interaction influences muscle activation strategy during sand-swimming in the sandfish lizard Scincus scincus. 2013 , 216, 260-74		27
915	Quasistatic rheology and microstructural description of sheared granular materials composed of platy particles. 2013 , 87,		46
914	A terradynamics of legged locomotion on granular media. 2013 , 339, 1408-12		233
913	Sandless concrete with fly ash as supplementary cementing material. 2013 , 2, 238-249		6

912	Robotic Granular Jamming: A New Variable Stiffness Mechanism. 2014 , 32, 333-338	5
911	Compaction behaviour and particle crushing of a crushed sandstone particle mixture. 2014 , 18, 567-583	10
910	Effect of Particle Morphology on the Monotonic Response of Gravel-Sized Soils through Large-Scale Simple Shear Testing. 2014 ,	6
909	Plasticity Behaviour of Sand Matrix Soils. 2014 , 695, 734-737	
908	Three-dimensional characterisation of particle size and shape for ballast. 2014 , 4, 197-202	53
907	Systematic Approach for Large-Scale, Rapid, Dilapidation Surveys of Historic Masonry Buildings. 2014 , 8, 290-310	5
906	Discrete-element method analysis of the state parameter. 2014 , 64, 954-965	67
905	The influence of morphology on the low- and high-strain-rate compaction response of CeO2 powders. 2014 , 115, 123511	11
904	Granular element method for three-dimensional discrete element calculations. 2014, 38, 167-188	52
903	Investigation of Cyclic Liquefaction with Discrete Element Simulations. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014 , 140, 04014075	55
902	Particle alignment and clustering in sheared granular materials composed of platy particles. 2014 , 37, 116	4
901	Torsional Shear Behavior of Anisotropically Consolidated Sands. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014 , 140, 04013017	13
900	Influence of Sand-Grain Morphology and Iron-Oxide Distribution Patterns on the Visible and Near-Infrared Reflectance of Sand-Textured Soils. 2014 , 7, 3755-3763	6
899	An experimental and numerical study of packing, compression, and caking behaviour of detergent powders. 2014 , 12, 2-12	55
898	Magnetic resonance imaging (MRI) of jet height hysteresis in packed beds. 2014 , 109, 276-283	14
897	A transparent aqueous-saturated sand surrogate for use in physical modeling. 2014 , 9, 187-206	60
896	Recommendations for extension and re-calibration of an existing sand constitutive model taking into account varying non-plastic fines content. 2014 , 61-62, 212-238	40
895	A critical state sand model with elasticplastic coupling. 2014 , 51, 2807-2825	22

894	Soil Stiffness Gauge (SSG) and Dynamic Cone Penetrometer (DCP) tests for estimating engineering properties of weathered sandy soils in Korea. 2014 , 169, 91-99	14
893	Examining the behavior and mechanisms of structuration in sand under the (hbox $\{K\}_{0}$) condition. 2014 , 16, 55-68	9
892	On the contact treatment of non-convex particles in the granular element method. 2014 , 1, 257-275	20
891	A comparative study of representative 2D microstructures in Shaly and Sandy facies of Opalinus Clay (Mont Terri, Switzerland) inferred form BIB-SEM and MIP methods. 2014 , 49, 143-161	96
890	A contact dynamics approach to the Granular Element Method. 2014 , 268, 557-573	22
889	Effects of grain shape on packing and dilatancy of sheared granular materials. 2014 , 10, 5157-67	45
888	Multiscale structure of calcium- and magnesium-silicate-hydrate gels. 2014 , 2, 12991	50
887	Strength and Deformation of Rockfill Material Based on Large-Scale Triaxial Compression Tests. I: Influences of Density and Pressure. <i>Journal of Geotechnical and Geoenvironmental Engineering - 3.4 ASCE</i> , 2014 , 140, 04014070	63
886	Recycling of Malaysia's electric arc furnace (EAF) slag waste into heavy-duty green ceramic tile. 2014 , 34, 2697-708	40
885	Effect of grain characteristics and cement content on the unconfined compressive strength of artificial sandstones. 2014 , 72, 109-116	7
884	Experimental study of cone penetration in silica sand using digital image correlation. 2014 , 64, 551-569	77
883	Effects of Particle Size Distribution on Compaction Behavior and Particle Crushing of a Mudstone Particle Mixture. 2014 , 32, 1159-1164	6
882	Combined FEM/DEM Modeling of Triaxial Compression Tests for Rockfills with Polyhedral Particles. 2014 , 14, 04014014	44
881	Pore orientation of granular materials during biaxial compression. 2014 , 59, 1-11	9
880	Effects of Compaction Effort on Compaction Behavior and Particle Crushing of a Crushed Sandstone-Mudstone Particle Mixture. 2014 , 51, 67-71	11
879	Influence of relative density, particle shape, and stress path on the plane strain compression behavior of granular materials. 2014 , 9, 241-255	25
878	Effects of fabric anisotropy on elastic shear modulus of granular soils. 2014 , 13, 269-278	15
877	Image analysis algorithm and verification for on-line molecular sieve size and shape inspection. 2014 , 25, 508-513	14

876	Influence of grading on the undrained behavior of granular materials. 2014 , 342, 85-95	43
875	Role of filling materials in a P-wave interaction with a rock fracture. 2014 , 172, 77-84	45
874	Evaluation of particle measures relevant for powder bed porosity study of spray dried dairy powders. 2014 , 253, 453-463	10
873	Improvement of peaty soils with municipal solid waste fly ash. 2014 , 1, 200-209	5
872	Discussion of R ole of Particle Angularity on the Mechanical Behavior of Granular Mixtures by H. Shin and J. C. Santamarina. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014 , 140, 07014009	
871	Impact of increasing freight loads on rail substructure from fracking sand transport. 2014 , 1, 241-256	5
870	High-speed X-ray imaging of a ball impacting on loose sand. 2015 , 777, 690-706	13
869	A new method for studying the evolution of particle breakage. 2015 , 65, 911-922	40
868	Modelling granular soil behaviour using a physics engine. 2015 , 5, 243-249	22
867	Validation of DEM prediction for granular avalanches on irregular terrain. 2015 , 120, 1724-1742	20
866	Limit of Anisotropic Hydraulic Conductivity Ratio of Homogeneous Granular Materials. 2015 , 14, vzj2015.07	.0015
865	Discrete modeling of rockfill materials considering the irregular shaped particles and their crushability. 2015 , 32, 1104-1120	13
864	Experimental characterization of the influence of fines on the stiffness of sand with inherent fabric anisotropy. 2015 , 55, 1148-1157	5
863	Dynamics of potential fillBackfill material at very small strains. 2015 , 55, 1196-1210	28
862	Oil Sand Characterization for Standalone Screen Design and Large-Scale Laboratory Testing for Thermal Operations. 2015 ,	17
861	Grading-Dependent Behavior of Granular Materials: From Discrete to Continuous Modeling. 2015 , 141, 04014172	42
860	Elastic properties of hydrate-bearing sandy sediment during CH4©O2 replacement. 2015 , 99, 274-281	35
859	Discrete element analysis of breakage of irregularly shaped railway ballast. 2015 , 10, 1-9	14

858	The impact of particle form on the packing and shear behaviour of some granular materials: an experimental study. 2015 , 17, 427-438	17
857	Stress fluctuations in granular material response during cyclic direct shear test. 2015 , 17, 439-446	12
856	An insight into the mechanical behavior of binary granular soils. 2015 , 21, 82-89	12
855	Cratering of a particle bed by a subsonic turbulent jet: Effect of particle shape, size and density. 2015 , 138, 432-445	13
854	Terradynamically streamlined shapes in animals and robots enhance traversability through densely cluttered terrain. 2015 , 10, 046003	53
853	A novel three-dimensional contact model for granulates incorporating rolling and twisting resistances. 2015 , 65, 147-163	124
852	Determination of the transitional fines content of sand-non plastic fines mixtures. 2015 , 55, 213-219	69
851	A micromechanical analysis of the effect of fabric on low-strain stiffness of granular soils. 2015 , 70, 153-165	9
850	Effect of lead (II) on the mechanical behavior and microstructure development of a Chinese clay. 2015 , 105-106, 192-199	25
849	Influence of Particle Size on the Friction and Interfacial Shear Strength of Sands of Similar Morphology. 2015 , 1, 1	62
848	Study of flow characteristics of biomass and biomassBoal blends. 2015 , 141, 207-213	17
847	Synergistic effects of soil microstructure and bacterial EPS on drying rate in emulated soil micromodels. 2015 , 83, 116-124	63
846	Effect of Particle Mixture on Seepage Properties of Crushed Mudstones. 2015 , 108, 257-277	31
845	Effects of particle size on compaction behavior and particle crushing of crushed sandstone hudstone particle mixture. 2015 , 73, 8053-8059	16
844	DEM simulations of shear modulus and damping ratio of sand with emphasis on the effects of particle number, particle shape, and aging. 2015 , 10, 117-130	34
843	Modeling of minimum void ratio for sandBilt mixtures. 2015 , 196, 293-304	51
842	An investigation of single sand particle fracture using X-ray micro-tomography. 2015 , 65, 625-641	178
841	Geotechnical Properties of Fresh and Aged Basic Oxygen Furnace Steel Slag. 2015 , 27, 04015046	44

(2016-2015)

840	Traditional soil particle sphericity, roundness and surface roughness by computational geometry. 2015 , 65, 494-506	183
839	A study on the influence of particle shape on the mechanical interactions of granular media in a hopper using the Discrete Element Method. 2015 , 278, 286-305	67
838	Clogging of Fine Sediment within Gravel Substrates: Dimensional Analysis and Macroanalysis of Experiments in Hydraulic Flumes. 2015 , 141, 04015015	26
837	Polygon-based contact description for modeling arbitrary polyhedra in the Discrete Element Method. 2015 , 290, 277-289	54
836	Fall cone tests on clayBand mixtures. 2015 , 192, 154-165	43
835	Experimental study of anisotropy and non-coaxiality of granular solids. 2015 , 17, 189-196	19
834	Effect of granular shape on angle of internal friction of binary granular system. 2015 , 150, 298-304	21
833	Discrete element method simulations of Mars Exploration Rover wheel performance. 2015 , 62, 31-40	57
832	Using a modified direct shear apparatus to explore gap and size effects on shear resistance of coarse-grained soil. 2015 , 23, 82-89	9
831	Experimental studies on the influence of intermediate principal stress and inclination on the mechanical behaviour of angular sands. 2015 , 17, 217-230	14
830	Discrete element simulations of direct shear tests with particle angularity effect. 2015 , 17, 793-806	64
829	Anisotropic responsive microgels with tuneable shape and interactions. 2015 , 7, 15971-82	52
828	Shear wave velocity of granular mixtures of silica particles as a function of finer fraction, size ratios and void ratios. 2015 , 17, 567-578	46
827	Dilatancy and Friction Angles Based on In Situ Soil Conditions. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015 , 141, 06014019	. 11
826	Capillary effect in salt-cemented media of particle sizes. 2015 , 112, 20-28	Ο
825	Damage Simulation of a Random Aggregate Model Induced by Microwave under Different Discontinuous Ratios and Exposure Times. 2016 , 2016, 1-11	2
824	Exploring the contact types within mixtures of different shapes at the steady state by DEM. 2016 , 301, 440-448	21
823	Effects of soil spatial variability at the hillslope and catchment scales on characteristics of rainfall-induced landslides. 2016 , 52, 1781-1799	37

822	Analysis of mechanical behaviour and internal stability of granular materials using discrete element method. 2016 , 40, 1712-1729		15
821	Particle Roundness and Sphericity from Images of Assemblies by Chart Estimates and Computer Methods. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016 , 142, 04016038	3.4	42
820	Entangled Granular Media. 2016 , 341-354		2
819	Maximum and minimum void ratios for sand-silt mixtures. 2016 , 211, 7-18		31
818	On the Importance of Displacement History in Soft-Body Contact Models. 2016 , 11,		13
817	Geotechnical and Geoacoustic Properties of Volcanic Soil in Ulleung Island, East Sea of Korea. 2016 , 34, 659-667		O
816	Frac sand crushing characteristics and morphology changes under high compressive stress and implications for sand pack permeability. 2016 , 53, 1412-1423		37
815	Shear behavior of sand-smooth geomembrane interfaces through micro-topographical analysis. 2016 , 44, 592-603		25
814	Impact of particle transfer on flow properties of crushed mudstones. 2016 , 75, 1		31
813	Influence of particle shape on small-strain damping ratio of dry sands. 2016, 66, 610-616		28
812	A study of wave velocities and poisson ratio of recycled concrete aggregate. 2016 , 56, 593-607		24
811	CFD modeling of conical spouted beds for processing LDPE/Al composite. 2016 , 108, 93-108		11
810	Sands subjected to repetitive vertical loading under zero lateral strain: accumulation models, terminal densities, and settlement. 2016 , 53, 2039-2046		15
809	Damage Analysis of Geomembranes through a 3D Optical Profilometer. 2016 ,		1
808	Sand infiltration into a gravel bed: A mathematical model. 2016 , 52, 8956-8969		6
807	Preparation of Uniform Sand Specimens Using Stationary Pluviation and Vibratory Methods. 2016 , 34, 1909-1922		17
806	An investigation of breakage behaviour of single sand particles using a high-speed microscope camera. 2016 , 66, 984-998		90
805	3D printable geomaterials. 2016 , 66, 323-332		36

(2016-2016)

804	A constitutive modelling framework predicting critical state in sand undergoing crushing and dilation. 2016 , 66, 695-710		53	
803	Constitutive modelling of sand: a progressive calibration procedure accounting for intrinsic and stress-induced anisotropy. 2016 , 66, 754-770		16	
802	Effect of Particle Shape on the Mechanical Behavior of Natural Sands. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016 , 142, 04016071	3.4	122	
801	The influence of fines content and size-ratio on the micro-scale properties of dense bimodal materials. 2016 , 18, 1		34	
800	Sea urchin-like NiCoO2@C nanocomposites for Li-ion batteries and supercapacitors. 2016 , 27, 457-465		103	
799	Index Void Ratios of Sands from Their Intrinsic Properties. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016 , 142, 06016019	3.4	41	
798	Characterisation of the Roughness of Sand Particles. 2016 , 158, 98-103		6	
797	Shear strength features of soils developed from purple clay rock and containing less than two-millimeter rock fragments. 2016 , 13, 1464-1480		7	
796	Geotechnical and Leaching Properties of Municipal Solid Waste Incineration Fly Ash for Use as Embankment Fill Material. 2016 , 2579, 70-78		6	
795	Evaluation of actual and estimated hydraulic conductivity of sands with different gradation and shape. 2016 , 5, 820		22	
794	Pebble and cobble transport on a steep, mega-tidal, mixed sand and gravel beach. 2016 , 382, 210-223		13	
793	Effect of Coarse Materials Percentage in the Shear Strength. 2016 , 136, 012017		5	
79 ²	An Update of Robert M. Koerner Models for the Packing Densities of Sands Using Image-Based Intrinsic Soil Properties. 2016 ,		2	
79 ¹	Effect of fines content on critical state parameters of sand matrix soils. 2016,		2	
79°	Sequential sphere packing by trilateration equations. 2016 , 18, 1		6	
789	Influence of Relative Density on Dilatancy of Clayey SandBouled Aggregates in Large-Scale Triaxial Tests. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016 , 142, 06016011	3.4	6	
788	Meso-scale framework for modeling granular material using computed tomography. 2016 , 76, 140-146		17	
787	Reprint of "Experiments and discrete element simulation of the dosing of cohesive powders in a simplified geometry". 2016 , 293, 69-81		6	

786	Advances in shape measurement in the digital world. 2016 , 26, 19-31	25
785	1st Proctor Lecture of ISSMGE:: Railroad performance with special reference to ballast and substructure characteristics. 2016 , 7, 74-114	28
784	Effect of Particle Shape on Dilative Behavior and Stress Path Characteristics of Chamkhaleh Sand in Undrained Triaxial Tests. 2016 , 14, 197-208	15
783	Development of global correlation models between in situ stress-normalized shear wave velocity and soil unit weight for plastic soils. 2016 , 53, 1600-1611	18
782	Roundness and Sphericity of Soil Particles in Assemblies by Computational Geometry. 2016 , 30, 04016021	51
781	Small-strain stiffness of sand subjected to stress anisotropy. 2016 , 88, 143-151	63
7 ⁸ 0	Determining Material Parameters for Critical State Plasticity Models Based on Multilevel Extended Digital Database. 2016 , 83,	24
779	Effects of grain morphology on critical state: a computational analysis. 2016 , 11, 493-503	47
778	Compaction and seepage properties of crushed limestone particle mixture: an experimental investigation for Ordovician karst collapse pillar groundwater inrush. 2016 , 75, 1	41
777	3D quantitative shape analysis on form, roundness, and compactness with © T. 2016 , 291, 262-275	139
776	Level set discrete element method for three-dimensional computations with triaxial case study. 2016 , 91, 1-13	118
775	The random packing density of nearly spherical particles. 2016 , 12, 4123-8	15
774	Effects of Mudstone Particle Content on Shear Strength of a Crushed Sandstone Mudstone Particle Mixture. 2016 , 34, 395-402	8
773	Quantified evaluation of particle shape effects from micro-to-macro scales for non-convex grains. 2016 , 25, 23-35	48
772	DEM simulation of bonded granular material. Part II: Extension to grain-coating type methane hydrate bearing sand. 2016 , 75, 225-243	36
771	The influence of undrained cyclic loading patterns and consolidation states on the deformation features of saturated fine sand over a wide strain range. 2016 , 204, 77-93	35
770	Laboratory Assessment of the Role of Particle Size Distribution on the Deformation and Degradation of Ballast under Cyclic Loading. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016 , 142, 04016016	4 50
769	Effect of particle size of sand and surface asperities of reinforcement on their interface shear behaviour. 2016 , 44, 254-268	60

768	Segmentation of contacting soil particles in images by modified watershed analysis. 2016 , 73, 142-152		29	
767	Fines Classification Based on Sensitivity to Pore-Fluid Chemistry. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016 , 142, 06015018	3.4	57	
766	Effect of sand grain shape on root and shoot growth of wheat seedlings. 2016 , 265, 1-5		13	
765	Effect of particle shape and validity ofGmaxmodels for sand: A critical review and a new expression. 2016 , 72, 28-41		91	
764	Physical Properties and Processes. 2016 , 175-283		4	
763	Experiments and discrete element simulation of the dosing of cohesive powders in a simplified geometry. 2016 , 287, 108-120		20	
762	Prediction of flow liquefaction instability of clean and silty sands. 2016 , 11, 987-1014		34	
761	Multiscale characterization and modeling of granular materials through a computational mechanics avatar: a case study with experiment. 2016 , 11, 243-253		25	
760	Wave Propagation Attenuation and Threshold Strains of Fully Saturated Soils with Intraparticle Voids. 2016 , 28, 04015108		17	
759	Influence of Dilation Angle on Drained Shallow Circular Anchor Uplift Capacity. 2017 , 17, 04016056		37	
75 ⁸	Combined spheropolyhedral discrete element (DE)finite element (FE) computational modeling of vertical plate loading on cohesionless soil. 2017 , 12, 593-603		4	
757	Dynamic Behavior Analysis of High-Speed Railway Ballast under Moving Vehicle Loads Using Discrete Element Method. 2017 , 17, 04016157		47	
756	Effect of surface properties on momentum transfer to targets impacted by high-velocity sand slugs. 2017 , 103, 90-106		10	
755	Critical State B ased Interpretation of the Monotonic Behavior of Hostun Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017 , 143, 04017004	3.4	22	
754	Experimental and Numerical Investigation of Mechanical Behaviors of Cemented Soil B ock Mixture. 2017 , 35, 337-354		9	
753	Compressive behavior of high viscosity granular systems: Effect of particle size distribution. 2017 , 311, 506-513		2	
75 ²	Light-induced dynamic shaping and self-division of multipodal polyelectrolyte-surfactant microarchitectures via azobenzene photomechanics. 2017 , 7, 41327		26	
751	Particle shape effect on thermal conductivity and shear wave velocity in sands. 2017 , 12, 615-625		28	

750	Influence of soil inherent anisotropy on behavior of crushed sand-steel interfaces. 2017 , 57, 111-125	46
749	Quantification of bulk form and angularity of particle with correlation of shear strength and packing density in sands. 2017 , 220, 256-265	33
748	Dynamic characterization of a biogenic sand with a resonant column of fixed-partly fixed boundary conditions. 2017 , 95, 180-187	16
747	Estimation of heavy metal-contaminated soils' mechanical characteristics using electrical resistivity. 2017 , 24, 13561-13575	19
746	How far are rheological parameters from amplitude sweep tests predictable using common physicochemical soil properties?. 2017 , 790, 012032	5
745	The influence of particle geometry and the intermediate stress ratio on the shear behavior of granular materials. 2017 , 19, 1	44
744	Numerical modelling of the NGI-DSS test and cyclic threshold shear strain for degradation in sand. 2017 , 19, 1	Ο
743	Revised Soil Classification System for Coarse-Fine Mixtures. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017 , 143, 04017039	51
742	Experimental investigation of primary-wave velocities and constrained moduli of quartz sand subjected to extender element tests and stress anisotropy. 2017 , 3, 211-219	6
741	A geometry-based algorithm for cloning real grains. 2017 , 19, 1	10
740	Experimental Investigation of InSight HP3 Mole Interaction with Martian Regolith Simulant. 2017 , 211, 239-258	8
739	NaNbO3-BaTiO3-NaSbO3 lead and potassium-free ceramics with thermally stable small-signal piezoelectric properties. 2017 , 100, 3990-3998	9
738	Effects of particle asphericity on the macro- and micro-mechanical behaviors of granular assemblies. 2017 , 19, 1	58
737	Crushing of non-cohesive Soil Grains Under Dynamic Loading. 2017 , 189, 80-85	4
736	Grain-scale modelling of swelling granular materials; application to super absorbent polymers. 2017 , 318, 411-422	22
735	Compressibility of Sands of Various Geologic Origins at Pre-crushing Stress Levels. 2017 , 35, 2037-2051	16
734	Dynamic properties of polypropylene fibre-reinforced silica quarry sand. 2017 , 100, 224-232	16
733	Particle shape quantification using rotation-invariant spherical harmonic analysis. 2017 , 7, 190-196	15

732	Implementation of rotational resistance models: A critical appraisal. 2017 , 34, 14-23	25
73 ¹	Dimensionless input parameters in discrete element modeling and assessment of scaling techniques. 2017 , 88, 164-173	6
730	Study of the Particle Shape Influence on Soil Erodibility Using Coupled CFD-DEM Modeling. 2017,	
729	An image based clump library for DEM simulations. 2017 , 19, 1	25
728	A novel non-overlapping approach to accurately represent 2D arbitrary particles for DEM modelling. 2017 , 24, 190-202	6
727	Modeling the fragmentation of rock grains using computed tomography and combined FDEM. 2017 , 308, 388-397	73
726	Particle shape effects on fabric of granular random packing. 2017 , 310, 175-186	114
725	Impact of particle shape on breakage of recycled construction and demolition aggregates. 2017 , 308, 1-12	66
724	Stress analysis of an agitated particle bed with different particle aspect ratios by the discrete element method. 2017 , 140, 06022	
723	Bibliography. 2017 , 233-253	
722	MIDP: Liquefaction Mitigation via Microbial Denitrification as a Two-Stage Process. I: Desaturation. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017 , 143, 04017094	44
721	It's just sand between the toes: how particle size and shape variation affect running performance and kinematics in a generalist lizard. 2017 , 220, 3706-3716	14
720	Hypergravity-induced multicellular spheroid generation with different morphological patterns precisely controlled on a centrifugal microfluidic platform. 2017 , 9, 045006	14
719	Characterization of coarse fraction of red mud as a civil engineering construction material. 2017 , 168, 679-691	32
718	Characterization of the small-strain dynamic behaviour of silty sands; contribution of silica non-plastic fines content. 2017 , 102, 232-240	43
717	Shear Strength of Assemblies of Frictionless Particles. 2017 , 17, 04017102	5
716	Experiments support an improved model for particle transport in fluidized beds. 2017 , 7, 10178	17
715	Numerical simulation of the influence of particle shape on the mechanical properties of rockfill materials. 2017 , 34, 2228-2241	8

714	Coupled influence of content, gradation and shape characteristics of silts on static liquefaction of loose silty sands. 2017 , 101, 12-26		25
713	Effect of Particle Shape on Monotonic Liquefaction: Natural and Crushed Sand. 2017 , 57, 1341-1348		19
712	Gyratory abrasion with 2D image analysis test method for evaluation of mechanical degradation and changes in morphology and shear strength of compacted granular materials. 2017 , 152, 547-557		6
711	Bonding effect on the evolution with curing time of compressive and tensile strength of sand-cement mixtures. 2017 , 57, 655-668		21
710	Discussion of Particle Roundness and Sphericity from Images of Assemblies by Chart Estimates and Computer Methods by Roman D. Hryciw, Junxing Zheng, and Kristen Shetler. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017 , 143, 07017024	3.4	1
709	Experimental assessment of continuum breakage models accounting for mechanical interactions at particle contacts. 2017 , 19, 1		15
708	Contour fractal analysis of grains. 2017 , 140, 05008		2
707	Small-strain shear modulus of calcareous sand and its dependence on particle characteristics and gradation. 2017 , 100, 371-379		38
706	Characterization of Small-Strain Shear Modulus of Sands Subjected to Anisotropic States of Stress. 2017 ,		4
705	A Comminution Model for Secondary Fragmentation Assessment for Block Caving. 2017 , 50, 3073-3084		8
704	Three-dimensional mesoscale modelling of concrete composites by using random walking algorithm. 2017 , 149, 235-245		43
703	Experimental investigation on the mechanical properties of methane hydrate-bearing sand formed with rounded particles. 2017 , 45, 96-107		43
702	Breakage and shape analysis of ballast aggregates with different size distributions. 2017 , 35, 84-92		19
701	Manifestation of particle morphology on the mechanical behaviour of granular ensembles. 2017 , 19, 1		20
700	Influence of particle shape on the shear strength and dilation of sand-woven geotextile interfaces. 2017 , 45, 54-66		67
699	Particle-scale effects on global axial and torsional interface shear behavior. 2017 , 41, 400-421		17
698	State-of-the-Art Review of Biocementation by Microbially Induced Calcite Precipitation (MICP) for Soil Stabilization. 2017 , 34, 524-537		186
697	Effect of Particle Shape on Durability and Performance of Unbound Aggregate Base. 2017 , 29, 04016221		11

696	Effect of Gradation and Particle Shape on Small-Strain Young Modulus and Poisson Ratio of Sands. 2017 , 17, 04016120	36
695	Investigation of influence of particle characteristics on the non-coaxiality of anisotropic granular materials using DEM. 2017 , 41, 198-222	9
694	Early detection of first-time slope failures using acoustic emission measurements: large-scale physical modelling. 2017 , 67, 138-152	34
693	Peak Shear Strength and Dilatancy of a Pleistocene Age Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017 , 143, 04016079	8
692	The relevance of roundness to the crushing strength of granular materials. 2017, 67, 301-312	31
691	Influence of stress anisotropy on small-strain stiffness of reinforced sand with polypropylene fibres. 2017 , 57, 1076-1082	6
690	A note on influence of stress anisotropy on the Poisson's ratio of dry sand. 2017 , 9, 1159-1164	4
689	Grain Size Distribution Effect on the Hydraulic Properties of Disintegrated Coal Mixtures. 2017 , 10, 612	24
688	An Experimental Investigation for Seepage-Induced Instability of Confined Broken Mudstones with Consideration of Mass Loss. 2017 , 2017, 1-12	13
687	A spheropolygonal-based DEM study into breakage under repetitive compression. 2017 , 140, 07007	
686	Application of spherical harmonics analysis on LBS particles and LBS fragments. 2017, 140, 05002	1
685	An efficient approach to generating DEM samples having coincident void ratios with actual sand. 2018 , 13, 159-167	
684	A review on the angle of repose of granular materials. 2018 , 330, 397-417	251
683	Particle mechanics modeling of the effect of aggregate shape on creep of durable rockfills. 2018 , 98, 114-131	7
682	Clusters of cataclastic deformation bands in porous sandstones. 2018 , 114, 235-250	22
681	A three-dimensional particle roundness evaluation method. 2018 , 20, 1	15
680	Depressurization-Induced Fines Migration in Sediments Containing Methane Hydrate: X-Ray Computed Tomography Imaging Experiments. 2018 , 123, 2539-2558	26
679	Influence of particle shape on the microstructure evolution and the mechanical properties of granular materials. 2018 , 346, 460-476	15

678	Effect of meso-structure on strength and size effect in concrete under compression. 2018 , 195, 162-185	21
677	A discrete element implementation for concrete: particle generation, contact calculations, packing under gravity and modeling material response. 2018 , 20, 1	6
676	Dynamic properties of calcareous and siliceous sands under isotropic and anisotropic stress conditions. 2018 , 58, 172-184	49
675	Frictional pressure drop of aqueous-organic two-phase flow through packed and unpacked rectangular serpentine millichannel. 2018 , 94, 215-230	5
674	An experimental investigation on stable arch formation in cohesionless granular materials using developed trapdoor test. 2018 , 330, 137-146	17
673	Effects of curvature-related DEM contact model on the macro- and micro-mechanical behaviours of granular soils. 2018 , 68, 1085-1098	59
672	A multi-variable equation for relationship between limiting void ratios of uniform sands and morphological characteristics of their particles. 2018 , 237, 21-31	15
671	A simple method for particle shape generation with spherical harmonics. 2018 , 330, 284-291	24
670	Modulus Reduction and Damping Increase of Two Sands Reinforced with Polypropylene Fibers. 2018 , 30, 04017299	8
669	Inferring 3D particle size and shape characteristics from projected 2D images: Lessons learned from ellipsoids. 2018 , 104, 281-287	8
668	A geometric potential-based contact detection algorithm for egg-shaped particles in discrete element modeling. 2018 , 327, 152-162	9
667	Advancements in Concrete Mix Designs: High-Performance and Ultrahigh-Performance Concretes from 1970 to 2016. 2018 , 30, 04017310	21
666	The influence of rolling resistance on the stress-dilatancy and fabric anisotropy of granular materials. 2018 , 20, 1	17
665	Particle shape factors and fractal dimension after large shear strains in carbonate sand. 2018 , 8, 73-79	20
664	Packing of discrete and irregular particles. 2018 , 100, 52-61	30
663	Stiffness of a recycled composite aggregate. 2018 , 110, 185-194	3
662	The influence of grain physicochemistry and biomass on hydraulic conductivity in sand-filled treatment wetlands. 2018 , 116, 21-30	5
661	Shear wave velocity in sand: effect of grain shape. 2018 , 68, 742-748	41

660	Crushing characteristics of four different proppants and implications for fracture conductivity. 2018 , 53, 125-138	35
659	Exploring the critical state properties and major principal stress rotation of sand in direct shear test using the distinct element method. 2018 , 20, 1	14
658	Influence of particle shape on the erodibility of non-cohesive soil: Insights from coupled CFD D EM simulations. 2018 , 39, 12-24	16
657	Identification and Characterization of Particle Shapes from Images of Sand Assemblies Using Pattern Recognition. 2018 , 32, 04018016	17
656	Evaluation of the performance of the cross-flow air classifier in manufactured sand processing via CFDDEM simulations. 2018 , 5, 87-102	8
655	Investigation of the change in soil fabric during cone penetration in silt using 2D measurements. 2018 , 13, 135-148	4
654	Quantification of the morphology of shelly carbonate sands using 3D images. 2018 , 68, 249-261	61
653	An investigation into the railway ballast dielectric properties using different GPR antennas and frequency systems. 2018 , 93, 131-140	23
652	Discussion of Description of Inherent and Induced Anisotropy in Granular Media with Particles of High Sphericitylby M. Oboudi, S. Pietruszczak, and A. G. Razaqpur. 2018 , 18, 07017014	1
651	3D characterization of general-shape sand particles using microfocus X-ray computed tomography and spherical harmonic functions, and particle regeneration using multivariate random vector. 2018 , 323, 8-23	48
650	Modification of capillary pressure by considering pore throat geometry with the effects of particle shape and packing features on water retention curves for uniformly graded sands. 2018 , 95, 129-136	8
649	Effects of particle breakage and stress reversal on the behaviour of sand around displacement piles. 2018 , 68, 546-555	18
648	Non-convex shape effects on the dense random packing properties of assembled rods. 2018 , 490, 212-221	8
647	Effect of meso-structure on strength and size effect in concrete under tension. 2018 , 42, 181-207	7
646	All you need is shape: Predicting shear banding in sand with LS-DEM. 2018, 111, 375-392	154
645	Post-breakage changes in particle properties using synchrotron tomography. 2018 , 325, 530-544	15
644	Evolution of Particle Breakage for Calcareous Sands during Ring Shear Tests. 2018 , 18, 04017153	50
643	Influence of Particle Morphology on the Friction and Dilatancy of Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018 , 144, 04017118	48

642	Soil porosity, permeability and static and dynamic strength parameters under native forest/grassland compared to no-tillage cropping. 2018 , 177, 113-124	45
641	Image based shape characterization of granular materials and its effect on kinematics of particle motion. 2018 , 20, 1	30
640	Macroscopic and microscopic behaviors of binary mixtures of different particle shapes and particle sizes. 2018 , 135, 74-84	30
639	The critical state friction angle of granular materials: does it depend on grading?. 2018 , 13, 535-547	41
638	An elastoplastic description of frictional destructuration in natural clays and shales. 2018 , 13, 911-924	4
637	The Paradox of the Aspect Ratio and Its Effect on Bulk Stress of a Granular Assembly. 2018 , 195-203	
636	Microstructural strength of tidal soils la rheometric approach to develop pedotransfer functions. 2018 , 66, 87-96	11
635	Pore pressure evolution and mass loss of broken gangue during the seepage. 2018 , 5, 180307	5
634	Contact stiffness parameters of soil particles model for discrete element modeling using static packing pressure test. 2018 ,	3
633	Triaxial compression tests of QH-E lunar soil simulant under constant mean principal stress path using discrete element method simulations. 2018 , 20, 1	10
632	The Influence of Convex Particles' Irregular Shape and Varying Size on Porosity, Permeability, and Elastic Bulk Modulus of Granular Porous Media: Insights From Numerical Simulations. 2018 , 123, 10,563-10,5	82 ²²
631	Evaluation of three-dimensional particle shape index from projected two-dimensional image. 2018 , 8, 336-343	6
630	Granular object morphological generation with genetic algorithms for discrete element simulations. 2018 , 20, 1	4
629	Effect of particle shape on micro- and mesostructure evolution of granular assemblies under biaxial loading conditions. 2018 , 346, 1233-1252	11
628	Short-Term Setup of Jacked Piles in a Calibration Chamber. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018 , 144, 04018092	2
627	Selection of material for X-ray tomography analysis and DEM simulations: comparison between granular materials of biological and non-biological origins. 2018 , 20, 1	21
626	Single and aqueous-organic two-phase frictional pressure drop and local entropy generation in rectangular millichannel: Experiment and its analysis. 2018 , 134, 72-85	3
625	A more efficient method for calibrating discrete element method parameters for simulations of metallic powder used in additive manufacturing. 2018 , 20, 1	15

(2018-2018)

624	The influence of particle-size distribution on critical state behavior of spherical and non-spherical particle assemblies. 2018 , 20, 1	34
623	Role of morphologic indices on the variation of limiting void ratios for uniform sands. 2018 , 8, 248-255	2
622	Hydrodynamic characteristics of sawdust in a pulsed slot-rectangular spouted bed. 2018, 339, 995-1004	8
621	Investigation of Particle Dynamics in a Disc Rotating Device by Means of Experiments and Numerical Simulations Using DEM. 2018 , 51, 631-640	2
620	Sand Ranking Method to Evaluate Beach Soccer Ground Coverage. 2018, 42, 439-449	1
619	The spatial distribution of critical wind erosion centers according to the dust event in Hormozgan province (south of Iran). 2018 , 167, 340-352	10
618	Influence of Particle Shape on the Mechanical Property of Granular Materials. 2018, 63-73	
617	Impact of grain morphology and the genotype by environment interactions on test weight of spring and winter wheat (Triticum aestivum L.). 2018 , 214, 1	6
616	Characteristics of Glass-Polyurethane Beads Mixtures as Function of Weight Ratios: Experimental Approaches. 2018 , 55-62	
615	A stochastic multiscale algorithm for modeling complex granular materials. 2018 , 20, 1	11
614	New Approach for Predicting Particle Breakage of Granular Material Using the Grey System Theory. 2018 , 30, 04018210	8
613	A new mixture design methodology based on the Packing Density Theory for high performance concrete in bridge engineering. 2018 , 182, 80-93	17
612	Resistance of Coarse-grained Particles against Raindrop Splash and Its Relation with Splash Erosion. 2018 , 184, 1-10	8
611	Hypoplastic model for crushable sand. 2018 , 58, 615-626	6
610	A Study of the Particle-Level Fabric and Morphology of Granular Soils under One-Dimensional Compression Using Insitu X-ray CT Imaging. 2018 , 11,	22
609	Laboratory Study of Sands Reinforced with Polypropylene Fibers. 2018,	
608	Grating-box test: A testing method for filling performance evaluation of self-compacting mortar in granular packs. 2018 , 181, 358-368	6
607	A 3-D mechanics-based particle shape index for granular materials. 2018 , 92, 67-73	2

606	Solids mixing in a shallow cross-flow bubbling fluidized bed. 2018 , 187, 213-222	16
605	Small strain damping ratio of sands and silty sands subjected to flexural and torsional resonant column excitation. 2018 , 114, 448-459	24
604	Bibliography. 2018 , 177-203	
603	Studies on the copper extraction in a channel-based packed extraction device. 2018 , 126, 194-206	4
602	Effects of Scalping on Direct Shear Strength of Crusher Run and Crusher Run/Geogrid Interface. 2018 , 30, 04018206	8
601	Mohrtoulomb plasticity for sands incorporating density effects without parameter calibration. 2018 , 42, 2193-2206	5
600	Impact of granular slugs on rigid targets: Effect of grain shape and fracture. 2018, 71, 64-76	4
599	Effects of Confining Pressure and Void Ratio on the Maximum Shear Modulus of Natural Pumiceous Soils. 2018 ,	1
598	Fractal crushing of carbonate and quartz sands along the specimen height under impact loading. 2018 , 182, 188-199	30
597	Near-surface soils: self-supported unconfined drained sand specimens. 2019 , 56, 307-319	8
596	Limit void ratios and steady-state line of non-plastic soils. 2019 , 172, 283-295	4
595	The behaviour of near-surface soils through ultrasonic near-surface inundation testing. 2019 , 17, 331-344	8
594	Two-dimensional and three-dimensional inherent fabric in cross-anisotropic granular soils. 2019 , 116, 103197	13
593	Critical State Lines of Portuguese liquefiable sands. 2019 , 92, 06003	4
592	Sustainable solidification of ferrochrome slag through geopolymerisation: a look at the effect of curing time, type of activator and liquid solid ratio. 2019 , 29,	8
591	An Experimental Study on Effect of Boundary Condition on Particle Damage in Shear Zone of Crushed Sand. 2019 , 124, 9546-9561	5
590	A micromechanical analysis of the effects of particle shape and contact law on the low-strain stiffness of granular soils. 2019 , 125, 105693	7
589	Evaluation of one- and two-parameter models for estimation of void ratio of binary sand mixtures deposited by dry pluviation. 2019 , 21, 1	2

588	Superellipsoid-based study on reproducing 3D particle geometry from 2D projections. 2019 , 114, 103131	10
587	Effect of micro and macro parameters in 3D modeling of grain crushing. 2019 , 14, 1669-1684	2
586	Finite element analyses of single particle crushing tests incorporating computed tomography imaging and damage mechanics. 2019 , 115, 103158	11
585	Effects of particle shape mixture on strength and structure of sheared granular materials. 2019 , 100, 012904	4
584	Numerical Investigation of Mineral Grain Shape Effects on Strength and Fracture Behaviors of Rock Material. 2019 , 9, 2855	4
583	Calibration of DEM material parameters to simulate stress-strain behaviour of unsaturated soils during uniaxial compression. 2019 , 194, 104303	12
582	Measurement and simulation of comminution rate in granular materials subjected to creep tests. 2019 , 21, 1	6
581	Small strain shear modulus of anisotropically loaded sands. 2019 , 125, 105726	24
580	Effect of Grain Size and Shape on Undrained Behaviour of Sands. 2019 , 5, 1	4
579	Grain shape effects on the mechanical behavior of compacted earth. 2019 , 11, e00303	1
578	Acoustic emission generated by glass beads in compression and shearing. 2019 , 21, 1	4
577	Effect of Particle Shape on Strength and Stiffness of Biocemented Glass Beads. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019 , 145, 06019016	62
576	Discussion of Liquefaction Resistance and Steady-State Characterization of Shallow Soils within the Christchurch Central Business DistrictLy Christopher S. Markham, Jonathan D. Bray, Misko Cubrinovski, and Michael F. Riemer. <i>Journal of Geotechnical and Geoenvironmental Engineering</i> -	
575	ASCE, 2019, 145, 07019015 Medium-strain dynamic behavior of fiber-reinforced sand subjected to stress anisotropy. 2019, 126, 105764	6
574	Swelling stress effects on shear strength resistance of subgrades. 2019 , 1-11	6
573	Quantifying the impact of rigid interparticle structures on heat transfer in granular materials using networks. 2019 , 143, 118514	14
572	An optimization-based approach for modeling of complex particles. 2019 , 356, 342-352	3
571	Modified Model for Hydraulic Conductivity of Clayey Soil under Shear. 2019 , 19, 06019015	6

570	Strength and Surviving Probability in Grain Crushing under Acidic Erosion and Compression. 2019 , 19, 04019123	18
569	DEM simulation of grain-coating type methane hydrate bearing sediments along various stress paths. 2019 , 261, 105280	13
568	Determining Aggregate Grain Size Using Discrete-Element Models of Sieve Analysis. 2019 , 19, 04019014	14
567	Enzyme Induced Biocementated Sand with High Strength at Low Carbonate Content. 2019 , 9, 1135	60
566	Soil Properties: Physics Inspired, Data Driven. 2019 , 67-91	7
565	Multiscale and Multiphysics Modeling of Soils. 2019 , 141-168	1
564	Structural degradation of sands during cyclic liquefaction: Insight from DEM simulations. 2019 , 114, 103139	18
563	MicroCT imaging to determine coordination number and contact area of biomass particles in densified assemblies. 2019 , 354, 466-475	3
562	Relationship between physical properties and particle-size distribution of geomaterials. 2019 , 222, 312-318	5
561	Application of continuum breakage mechanics to ice rubble modelling. 2019 , 165, 102797	1
560	Effect of particle shape of glass beads on the strength and deformation of cemented sands. 2019 , 14, 2123-2131	17
559	Influence of fines on the compression behaviour of decomposed volcanic rocks. 2019 , 10, 1	9
558	Coal combustion residue as structural fill material for reinforced soil structures. 2019 , 232, 417-426	19
557	Minimum image quality for reliable optical characterizations of soil particle shapes. 2019 , 114, 103110	13
556	An interpretation of the influence of particle shape on the mechanical behavior of granular material. 2019 , 21, 1	14
555	Effect of Particle Shape and Confining Pressure on Breakage and Deformation of Artificial Rockfill. 2019 , 5, 1	4
554	Predicting porosity of binary mixtures made out of irregular nonspherical particles: Application to natural sediments. 2019 , 30, 1558-1566	13
553	Experimental Study on the Effects of Initial Shear Stress and Vibration Frequency on Dynamic Strength of Saturated Sands. 2019 , 2019, 1-9	6

552	Capturing the inter-particle force distribution in granular material using LS-DEM. 2019 , 21, 1	16
551	Shear behaviors of granular mixtures of gravel-shaped coarse and spherical fine particles investigated via discrete element method. 2019 , 353, 178-194	30
550	Exploring the effect of 3D grain shape on the packing and mechanical behaviour of sands. 2019 , 9, 299-304	5
549	Rapid In Situ Characterization of Soil Erodibility With a Field Deployable Robot. 2019 , 124, 1261-1280	3
548	Microstructure and morphological characterization of lead-contaminated clay with nanoscale zero-valent iron (nZVI) treatment. 2019 , 256, 84-92	14
547	An Equivalent Spherical Particle System to Describe Characteristics of Flow in a Dense Packing of Non-spherical Particles. 2019 , 129, 253-280	3
546	X-Ray Computed Microtomography Imaging of Abiotic Carbonate Precipitation in Porous Media From a Supersaturated Solution: Insights Into Effect of CO2 Mineral Trapping on Permeability. 2019 , 55, 3835-3855	6
545	Micromechanical Particle Interactions in Railway Ballast through DEM Simulations of Direct Shear Tests. 2019 , 19, 04019031	24
544	Investigating the effects of Fourier-based particle shape on the shear behaviors of rockfill material via DEM. 2019 , 21, 1	29
543	Comparison of wastewater treatment efficiencies in packed bed bioreactors according to the nature of materials. 2019 , 29, 100790	O
542	Particle size ratio and distribution effects on packing behaviour of crushed GMZ bentonite pellets. 2019 , 351, 92-101	17
54 ¹	Re-recognizing the impact of particle shape on physical and mechanical properties of sandy soils: A numerical study. 2019 , 253, 36-46	17
540	Three-dimensional particle size and shape characterisation using structural light. 2019 , 9, 72-78	14
539	Sphericity measures of sand grains. 2019 , 254, 43-53	34
538	Effects of Particle Shapes and Sizes on the Minimum Void Ratios of Sand. 2019 , 2019, 1-12	5
537	The Effect of Shape on the Linear Relationship of Maximum and Minimum Void Ratios of Various Sand Types. 2019 , 37, 3701-3713	2
536	The influence of particle characteristics on the index void ratios in granular materials. 2019 , 46, 1-13	16
535	Working with broken agents: Exploring computational 2D morphometrics for studying the (post)depositional history of potsherds. 2019 , 104, 19-33	3

534	Importance of load frequency in applying cyclic loads to investigate ballast deformation under high-speed train loads. 2019 , 120, 28-38	25
533	Cyclic undrained behavior and post liquefaction settlement of a nonplastic silt. 2019 , 120, 214-227	12
532	Modeling continuous grain crushing in granular media: A hybrid peridynamics and physics engine approach. 2019 , 348, 334-355	28
531	Effects of particle sphericity and initial fabric on the shearing behavior of soilfough structural interface. 2019 , 14, 1699-1716	36
530	Effects of central symmetry and elongation on the dense disordered packings of entangled particles. 2019 , 523, 120-128	
529	Fall-cone testing of unsaturated sandflay mixtures. 2019 , 172, 432-441	8
528	Grain morphology and strength dilatancy of sands. 2019 , 9, 245-253	7
527	Evaluation of geometric properties of regular and irregular particles of chalcedonite enrichment products from pulsating laboratory jig by means of dynamic image analysis method (DIA). 2019 , 641, 012009	
526	Small strain dynamic behavior of two types of carbonate sands. 2019 , 59, 571-585	13
525	On the influence of grain shape on the cumulative deformations in sand under drained high-cyclic loading. 2019 , 59, 208-227	10
524	Compaction control of secondary materials used in earthworks. 2019 , 42, 199-211	1
523	Characterization of two- and three-dimensional morphological properties of fragmented sand grains. 2019 , 263, 105358	14
522	Strength of Laboratory Synthesized Hydrate-Bearing Sands and Their Relationship to Natural Hydrate-Bearing Sediments. 2019 , 124, 12556-12575	10
521	Stress-induced phase transformation in shape memory ceramic nanoparticles. 2019 , 126, 215109	3
520	Representativity of 2D Shape Parameters for Mineral Particles in Quantitative Petrography. 2019 , 9, 768	12
519	On the small-strain stiffness of polypropylene fibre-sand mixtures. 2019 , 26, 66-80	8
518	Compressibility and particle crushing of Krishna-Godavari Basin sediments from offshore India: Implications for gas production from deep-water gas hydrate deposits. 2019 , 108, 697-704	19
517	The experimental contact behaviour of natural sands: normal and tangential loading. 2019 , 69, 672-686	22

516	Effect of Anisotropic Stress State on Elastic Shear Stiffness of SandBilt Mixture. 2019, 37, 2237-2244		11
515	Comparative study on synthesis and properties of geopolymer fine aggregate from fly ashes. 2019 , 198, 359-367		22
514	Exploring the effects of particle shape and content of fines on the shear behavior of sand-fines mixtures via the DEM. 2019 , 106, 161-176		82
513	Reliability and applicability of the Krumbein-Sloss chart for estimating geomechanical properties in sands. 2019 , 248, 117-123		2
512	On the influence of platy shell particles on the cumulative deformations in sand under drained high-cyclic loading. 2019 , 117, 1-15		5
511	Physical and mechanical properties of Gravel-Tire Chips Mixture (GTCM). 2019 , 26, 92-110		19
510	Shear wave propagation in residual soil E igid inclusion mixtures. 2019 , 343, 595-598		1
509	Evaluation of dynamic properties of calcareous sands in Egypt at small and medium shear strain ranges. 2019 , 116, 692-708		20
508	A Sphere Filling Algorithm for Irregular Aggregate Particle Generation based on Nonlinear Optimization Method. 2019 , 23, 120-129		1
507	Effect of Particle Shape on Stress-Dilatancy Responses of Medium-Dense Sands. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019 , 145, 04018105	3.4	124
507 506		3.4	124
	Geotechnical and Geoenvironmental Engineering - ASCE, 2019 , 145, 04018105	3.4	
506	Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, 04018105 Acoustic emission behaviour of dense sands. 2019, 69, 1107-1122 Influence of geotextile type on strength and failure behavior of geotextiles reinforced desert sand	3.4	16
506 505	Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, 04018105 Acoustic emission behaviour of dense sands. 2019, 69, 1107-1122 Influence of geotextile type on strength and failure behavior of geotextiles reinforced desert sand based on Mohr-Coulomb criterion. 2019, 6, 015509	3.4	16
506 505 504	Acoustic emission behaviour of dense sands. 2019, 69, 1107-1122 Influence of geotextile type on strength and failure behavior of geotextiles reinforced desert sand based on Mohr-Coulomb criterion. 2019, 6, 015509 Discussion: Limit void ratios and steady-state line of non-plastic soils. 2019, 172, 296-297 Effects of grain-size distribution and shape on sediment bed stability, near-bed flow and bed	3.4	16 0
506 505 504 503	Acoustic emission behaviour of dense sands. 2019, 69, 1107-1122 Influence of geotextile type on strength and failure behavior of geotextiles reinforced desert sand based on Mohr-Coulomb criterion. 2019, 6, 015509 Discussion: Limit void ratios and steady-state line of non-plastic soils. 2019, 172, 296-297 Effects of grain-size distribution and shape on sediment bed stability, near-bed flow and bed microstructure. 2019, 44, 1100-1116	3.4	16 0 0
506 505 504 503 502	Acoustic emission behaviour of dense sands. 2019, 69, 1107-1122 Influence of geotextile type on strength and failure behavior of geotextiles reinforced desert sand based on Mohr-Coulomb criterion. 2019, 6, 015509 Discussion: Limit void ratios and steady-state line of non-plastic soils. 2019, 172, 296-297 Effects of grain-size distribution and shape on sediment bed stability, near-bed flow and bed microstructure. 2019, 44, 1100-1116 The use of ultrasound probes to monitor multi-phase behavior in opaque systems. 2019, 45, 91-97 Experimental insight into the particle morphology changes associated with landslide movement.	3.4	16 0 0

498	Non-associative Fractional-Order Bounding-Surface Model for Granular Soils Considering State Dependence. 2019 , 17, 171-179	1
497	Shear Modulus and Damping Ratio of Sand G ravel Mixtures Over a Wide Strain Range. 2019 , 23, 1407-1440	24
496	Geological parameters in relation to bedrock geology and shear strength of dry tills: samples from the southern half of Norway. 2019 , 78, 1359-1370	1
495	Inverted base pavements: construction and performance. 2019 , 20, 697-703	9
494	Linking micro grainsize polydispersity to macro porosity. 2020 , 187, 75-84	12
493	Framework to improve the correlation of SPT-N and geotechnical parameters in sand. 2020 , 15, 735-759	3
492	Evaluation of liquefaction potential of marine sandy soil with piles considering nonlinear seismic soilpile interaction; A simple predictive model. 2020 , 38, 1-22	8
491	Stick-slip behavior of dry fly ash. 2020 , 38, 605-616	5
490	Experimental Study of Strip Footings Rested on Kerosene Oil- and Gas Oil-Contaminated Sand Slopes. 2020 , 44, 209-217	2
489	Dynamic properties of a sandflanoclay composite. 2020 , 70, 210-225	8
488	Multi-scale morphological descriptors from the fractal analysis of particle contour. 2020 , 15, 1067-1080	18
487	Effects of Particle Grading and Stress State on Strain-Nonlinearity of Shear Modulus and Damping Ratio of Sand Evaluated by Resonant-Column Testing. 2020 , 24, 1886-1912	7
486	Experimental and numerical investigation of Weibullian behavior of grain crushing strength. 2020 , 11, 401-411	16
485	An in-depth comparative study of three-dimensional angularity indices of general-shape particles based on spherical harmonic reconstruction. 2020 , 364, 1009-1024	5
484	Experimental and numerical investigation on heap formation of granular soil sparsely cemented by bacterial calcification. 2020 , 360, 253-263	3
483	Morphology-based indices and recommended sampling sizes for using image-based methods to quantify degradations of compacted aggregate materials. 2020 , 230, 116970	17
482	Effects of particle sizes on compressive deformation and particle breakage of gangue used for coal mine goaf backfill. 2020 , 360, 493-502	42
481	Experimental study on the coefficient of lateral pressure at rest for calcareous soils. 2020 , 38, 989-1001	13

(2020-2020)

480	Prediction of 3D size and shape descriptors of irregular granular particles from projected 2D images. 2020 , 15, 1533-1555	18
479	Mechanisms beneath rectangular shallow foundations on sands: vertical loading. 2020 , 70, 1083-1093	O
478	Discrete element model (DEM) simulations of cone penetration test (CPT) measurements and soil classification. 2020 , 57, 1369-1387	14
477	Probabilistic characterization and simulation of realistic particle shape based on sphere harmonic representation and Nataf transformation. 2020 , 360, 209-220	22
476	A new approach to particle shape classification of granular materials. 2020 , 22, 100296	21
475	Density difference in pressure-filtrated wet cakes produced from spontaneous gelling slurries. 2020 , 103, 1396-1403	3
474	Elastic Dynamic Young Modulus and Poisson Ratio of Sand Bilt Mixtures. 2020 , 32, 04019314	15
473	A comparison between fly ash- and basic oxygen furnace slag-modified gold mine tailings geopolymers. 2020 , 11, 207-217	11
472	Influence of particle morphology simplification on the simulation of granular material behavior. 2020 , 22, 1	3
471	Shape Characterization of Fragmented Sand Grains via X-Ray Computed Tomography Imaging. 2020 , 20, 04020003	6
470	The critical state line of nonplastic tailings. 2020 , 57, 1508-1517	12
469	Reducing uncertainties and improving sand soil-water retention curve (SWRC) predictions for hazard screening analyses. 2020 , 57, 1518-1533	4
468	Microanisotropy and preferred orientation of grains and aggregates (POGA) of the Malan loess in Yan In, China: a profile study. 2020 , 79, 1893-1907	6
467	Evolution of particle damage of sand during axial compression via arrested tests. 2020 , 15, 95-112	15
466	Experiments support simulations by the NEPTUNE_CFD code in an Upflow Bubbling Fluidized Bed reactor. 2020 , 385, 123568	8
465	Linking shape and rotation of grains during triaxial compression of sand. 2020 , 22, 1	4
464	Analysis of calcareous sand particle shape using fourier descriptor analysis. 2020, 11, 1	1
463	Effect of particle morphology on mechanical behavior of rock mass. 2020 , 13, 1	3

462	A mechanistic model for the thermal conductivity of planetary regolith: 1. The effects of particle shape, composition, cohesion, and compression at depth. 2020 , 352, 113964	14
461	Laboratory and theoretical evaluation of impact of packing density, particle shape, and uniformity coefficient on erodibility of coarse-grained soil particles. 2020 , 45, 1499-1509	3
460	Effects of Clay Minerals on Small-Strain Shear Modulus and Damping Ratio of Saturated Clay. 2020 , 57, 105-109	2
459	A Numerical Study of Railway Ballast Subjected to Direct Shearing Using the Discrete Element Method. 2020 , 2020, 1-13	2
458	Particle Crushing and Morphology Evolution of Saturated Crushed Gangue under Compaction. 2020 , 2020, 1-10	
457	A Novel Multi-Scale Particle Morphology Descriptor with the Application of SPHERICAL Harmonics. 2020 , 13,	6
456	Inter-particle friction and particle sphericity effects on isotropic compression behavior in real-shaped sand assemblies. 2020 , 126, 103741	7
455	3D fractal analysis of multi-scale morphology of sand particles with 🗓 and interferometer. 2020 , 1-14	4
454	Effect of initial packing density, stress level and particle size ratio on the behavior of binary granular material: a micromechanical approach. 2020 , 22, 1	5
453	Effect of using different approximation models to the exact Mohr f Ioulomb material model in the FE simulation of Anchor Foundations in sand. 2020 , 11, 1	2
452	Directional strength and stiffness characteristics of inherently anisotropic sand: The influence of deposition inclination. 2020 , 137, 106304	14
451	Strength and dilatancy behaviors of deep sands in Shanghai with a focus on grain size and shape effect. 2020 , 12, 1214-1225	1
450	Liquefaction resistance of fibre-reinforced silty sands under cyclic loading. 2020, 48, 812-827	8
449	Evolution of shear wave velocity during triaxial compression. 2020 , 60, 1357-1370	7
448	FP-TES: Fluidization Based Particle Thermal Energy Storage, Part II: Experimental Investigations. 2020 , 13, 4302	1
447	Recovery of Biomass Fly Ash and HDPE in Innovative Synthetic Lightweight Aggregates for Sustainable Geotechnical Applications. 2020 , 12, 6552	2
446	Exploration of the Survival Probability and Shape Evolution of Crushable Particles during One-Dimensional Compression Using Dyed Gypsum Particles. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020 , 146, 04020121	6
445	Examination of particle shape on the shear behaviours of granules using 3D printed soil. 2020 , 1-20	1

(2020-2020)

444	Exploring the relationship between particle shape and critical state parameters for granular materials using DEM. 2020 , 2, 1	2
443	Mechanical characteristics of soil-rock mixtures containing macropore structure based on 3D modeling technology. 2020 , 17, 2224-2240	2
442	Shape Characteristics of Coral Sand from the South China Sea. 2020 , 8, 803	17
441	Random generation of 2D geometry-controlled particles via the epicycle series. 2020 , 22, 1	2
440	3D Printed Soil Analogs for Modeling of Coarse-Grained Soil Behavior. 2020 ,	
439	The effects of particle shape on the yielding behaviour of crushable sand. 2020 , 60, 520-532	1
438	Effects of the ratio between body forces and inter-particle forces on maximum void ratio. 2020 , 60, 1-12	2
437	Effect of Particle Size and Morphology on Laboratory Maximum Density Determination of Sands. 2020 ,	
436	Sustainable rubber recycling from waste tyres by waterjet: A novel mechanistic and practical analysis. 2020 , 25, e00173	9
435	Three-Dimensional Evaluation of Sand Particle Fracture Using Discrete-Element Method and Synchrotron Microcomputed Tomography Images. <i>Journal of Geotechnical and Geoenvironmental</i> 3.4 Engineering - ASCE, 2020 , 146, 06020007	8
434	Effect of Particle Shape on Constitutive Relation: DEM Study. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020 , 146, 04020058	15
433	Exploring the effect of particle shape caused by erosion on the shear behaviour of granular materials via the DEM. 2020 , 202, 1-11	12
432	Soil solution composition affects microstructure of tropical saline alluvial soils in semi-arid environment. 2020 , 203, 104662	3
431	Micromechanical Exploration of the LadeDuncan Yield Surface by the Discrete Element Method. 2020 , 38, 5409-5431	1
430	Influence of particle shape and size on the threshold fines content and the limit index void ratios of sands containing non-plastic fines. 2020 , 60, 621-633	12
429	The role of particle shape on hydraulic conductivity of granular soils captured through Kozenyllarman approach. 2020 , 10, 398-403	9
428	Thermal Conductivity of Granular Soil Mixtures with Contrasting Particle Shapes. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020 , 146, 06020004	10
427	Mechanical response of saturated and unsaturated gravels of different sizes in drained triaxial testing. 2020 , 15, 3075-3093	10

426	Small-Strain Stiffness of Natural Pumiceous Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020 , 146, 06020006	6
425	Application of Dynamic Analysis Methods into Assessment of Geometric Properties of Chalcedonite Aggregates Obtained by Means of Gravitational Upgrading Operations. 2020 , 10, 180	9
424	Instability of loose sand in constant volume direct simple shear tests in relation to particle shape. 2020 , 15, 2507-2527	19
423	Modeling the mechanical behavior of coarse-grained soil using additive manufactured particle analogs. 2020 , 15, 2829-2847	2
422	Macroscopic properties and particle characterization. 2020 , 17-35	
421	Prediction Model of Minimum Void Ratio for Various Sizes/Shapes of Sandy Binary Mixture. 2020 , 2020, 1-19	1
420	Evaluation of mechanical properties of mica-mixed sand considering inherent anisotropy. 2020 , 60, 533-550	4
419	ILS-MPM: An implicit level-set-based material point method for frictional particulate contact mechanics of deformable particles. 2020 , 369, 113168	11
418	Prediction of the shear strength parameters from easily-available soil properties by means of multivariate regression and artificial neural network methods. 2020 , 1-13	3
417	Prediction and Evaluation of Grain Size-Dependent Maximum Dry Density for Gravelly Soil. 2020 , 20, 04020153	Ο
416	Evolution of particle morphology and mode of fracture during the oedometric compression of sand. 2020 , 1-13	8
415	Field performance monitoring of waste tire-based permeable pavements. 2020 , 24, 100384	7
414	Bibliography. 2020 , 227-286	
413	Effect of particle characteristics stress on the mechanical properties of cement mortar with coral sand. 2020 , 260, 119836	17
412	Comprehensive assessment of cleaner, sustainable and cost-effective use of coal combustion residue (CCR) in geotechnical applications. 2020 , 271, 122570	3
411	Characterization of mechanical behavior of binary granular assemblies through the equivalent void ratio and equivalent state parameter. 2020 , 1-29	8
410	Numerical Investigation of the Elastic Properties of Binary Mixtures as a Function of the Size Ratio and Fines Content. 2020 , 20, 04020155	4
409	The influence of particle shape and mineralogy on the particle strength, breakage and compressibility. 2020 , 11, 1	13

408	Heat transport based on hydrodynamics and the local entropy generation rate in straight and serpentine rectangular packed narrow channels. 2020 , 171, 115057	3
407	A Critical Review of Void Ratio Relationships for Granular Soils. 2020 ,	
406	A new interpretation of three-dimensional particle geometry: M-A-V-L. 2020 , 23, 100328	7
405	Effects of particle sizeEtrength and sizeEhape correlations on parallel grading scaling. 2020, 10, 191-197	7
404	Particle breakage of uniformly graded carbonate sands in dry/wet condition subjected to compression/shear tests. 2020 , 15, 2379-2394	14
403	Influence of Initial Void Ratio on Critical State Behaviour of Poorly Graded Fine Sands. 2020 , 50, 689-699	3
402	Resilience and microstructural resistance of Archaeological Dark Earths with different soil organic carbon contents in Western Amazonia, Brazil. 2020 , 363, 114130	7
401	Impact of the coarse aggregate shape parameters on compaction characteristics of asphalt mixtures. 2020 , 363, 369-386	20
400	Small-strain dynamic properties of siliceous-carbonate sand under stress anisotropy. 2020 , 131, 106045	13
399	DEM study on the effect of roundness on the shear behaviour of granular materials. 2020 , 121, 103457	18
398	Effect of local non-convexity on the critical shear strength of granular materials determined via the discrete element method. 2020 , 52, 105-112	5
397	The structure degradation of a silty loess induced by long-term water seepage. 2020 , 272, 105634	14
396	Soil Response to Repetitive Changes in Pore-Water Pressure under Deviatoric Loading. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020 , 146, 04020023	4
395	Reducing the density deviation in alumina by pressure-vacuum hybrid slip casting by employing powders with different particle sizes. 2020 , 8, 407-415	3
394	Interrelation of morphological indices and 2-D generalized regularity for coarse aggregate in cement-based materials. 2020 , 251, 118984	2
393	How particle shape affects the critical state, triggering of instability and dilatancy of granular materials I results from a DEM study. 2020 , 1-16	9
392	Clone granular soils with mixed particle morphological characteristics by integrating spherical harmonics with Gaussian mixture model, expectation haximization, and Dirichlet process. 2020 , 15, 2779-2796	3
391	Estimation of 3D Sphericity by Volume Measurement [Application to Coarse Aggregates. 2020 , 23, 100344	3

390	Effect of particle shape on the progressive failure of shield tunnel face in granular soils by coupled FDM-DEM method. 2020 , 100, 103394	46
389	Investigation of small- to large-strain moduli correlations of normally consolidated granular soils. 2021 , 58, 1-22	2
388	Realistic soil particle generation based on limited morphological information by probability-based spherical harmonics. 2021 , 8, 215-235	7
387	A discrete element study of the effect of particle shape on packing density of fine and cohesive powders. 2021 , 8, 183-200	3
386	Influence of surface footing loading on soil arching above multiple buried structures in transparent sand. 2021 , 48, 124-133	3
385	Mechanical behaviour of granular media in flexible boundary plane strain conditions: experiment and level-set discrete element modelling. 2021 , 16, 113-132	3
384	Structural Characteristics of Natural Loess in Northwest China and its Effect on Shear Behavior. 2021 , 39, 65-78	2
383	Statistical analysis and comparative study of multi-scale 2D and 3D shape features for unbound granular geomaterials. 2021 , 26, 100377	2
382	Global and local sandgeosynthetic interface behaviour. 2021 , 71, 346-367	19
381	Critical state elastoplastic constitutive model of angular-shaped and fragile granular materials. 2021 , 39, 937-950	
380	Cyclic Behaviors of Saturated Sand-Gravel Mixtures under Undrained Cyclic Triaxial Loading. 2021 , 25, 756-789	10
379	The behaviour of a recycled road base aggregate and quartz sand with bender/extender element tests under variable stress states. 2021 , 25, 152-169	9
378	Artificial neural network (ANN) approach for modelling of pile settlement of open-ended steel piles subjected to compression load. 2021 , 25, 429-451	7
377	Classification of granular materials via flowability-based clustering with application to bulk feeding. 2021 , 378, 288-302	2
376	Characterization of Granular Materials Treated with Fly Ash for Road Infrastructure Applications. 2021 , 8, 228-253	6
375	Shear behaviours of cohesionless mixed soils using the DEM: The influence of coarse particle shape. 2021 , 55, 151-165	4
374	Scale and water effects on the friction angles of two granular soils with different roughness. 2021 , 377, 813-826	10
373	The effect of hemicellulose on the interparticle frictional behavior of lignocellulosic biomass particulates. 2021 , 55, 16-22	3

372	Interplays between particle shape and particle breakage in confined continuous crushing of granular media. 2021 , 378, 455-467		13
371	Geotechnical properties of 3D-printed transparent granular soil. 2021 , 16, 1789-1800		1
370	Large Scale Direct Shear Experiments to Study Monotonic and Cyclic Behavior of Sand Treated By Polyethylene Terephthalate Strips. 2021 , 19, 533-548		O
369	Discrete element modelling of strength and critical state characteristics of granular materials under axial compression and axial extension stress path tests. 2021 , 56, 152-162		O
368	Physical, chemical and mineralogical characterization of Dutch fine recycled concrete aggregates: A comparative study. 2021 , 270, 121475		9
367	Thermal Conductivity of SandBilt Mixtures. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021 , 147, 06020031	3.4	5
366	Granulometry of Two Marine Calcareous Sands. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021 , 147, 04020171	3.4	3
365	Examination of Interface Asperity and Particle Shape on the Mechanical Behavior of Soil-Structure Interfaces Using 3D Printed Models. 2021 , 25, 386-397		1
364	Quantification of Railway Ballast Degradation by Abrasion Testing and Computer-Aided Morphology Analysis. 2021 , 33, 04020411		4
363	A surface mesh represented discrete element method (SMR-DEM) for particles of arbitrary shape. 2021 , 377, 760-779		5
362	Effects of size and shape on the crushing strength of coral sand particles under diametral compression test. 2021 , 80, 1829-1839		2
361	The potential use of crushed waste glass as a sustainable alternative to natural and manufactured sand in geotechnical applications. 2021 , 284, 124762		7
360	Depth-Dependent Seabed Properties: Geoacoustic Assessment. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021 , 147, 04020151	3.4	6
359	Influence of flocculant on flow behavior and undrained shear strength of fine coal refuse. 2021 , 287, 119456		O
358	Quantification of Shape Properties and Their Effects on Particle Packing of Coarse-Grain Soil. 2021 , 51, 405-413		
357	Assessment of the correlation between grain angularity parameter and friction index of sand containing low plastic fines. 2021 , 16, 133-149		9
356	Warsaw Glacial Quartz Sand with Different Grain-Size Characteristics and Its Shear Wave Velocity from Various Interpretation Methods of BET. 2021 , 14,		1
355	Packing density of bi-disperse mixtures under one-dimensional compression. 2021 , 249, 07012		

354	Near-surface soils: discrete element modeling of self-supported unconfined drained sand specimens. 2021 , 13, 98-113	1
353	Soil cracking propagation due to dryness and its relation to suction. 2021 , 337, 01021	
352	Effects of grain morphology on suffusion susceptibility of cohesionless soils. 2021, 23, 1	6
351	Effect of particle rolling resistance on drained and undrained behaviour of silty sand. 2021, 16, 2657-2682	7
350	Mine Tailing Particles: Roundness and Sphericity Assessment by an Image-Based Program. 2021, 23-32	
349	DispersiRai armuoto apdailinio betono technologini🛭 reksploatacini 🖟 avybi 🗓 tyrimai. 2021 ,	
348	Experimental Estimation of Fabric in Granular Materials Using Shear Wave Velocity Measurements. 2021 , 311-323	1
347	Computationally efficient approach to quantify 2D particle morphological descriptors. 2021 , 249, 05002	1
346	Using geophysical data to quantify stress transmission in gap-graded granular materials. 1-18	4
345	Influence of natural coating type on the frictional and abrasion behaviour of siliciclastic-coated sedimentary sand grains. 2021 , 281, 105983	12
344	The effect of particle shape on discharge and clogging. 2021 , 11, 3309	12
343	Effect of loess particle shape on its performance under biaxial compression. 2021 , 68, 899-912	O
342	Particle shape effects on the shear behaviors of granular assemblies: irregularity and elongation. 2021 , 23, 1	4
341	Towards realistic simulations of the impact dynamics of boulders on rock-filled gabion: Combined effects of rock shapes and their crushing strength. 2021 , 283, 106026	5
340	Probabilistic assessments of void ratio limits and their range for cohesionless soils. 2021 , 142, 106481	O
339	Effects of Camera Lens Distortion on Particle Size and Shape Characterizations. 2021 , 44, 20200104	
338	Coupling effects of particle shape and cyclic shear history on shear properties of coarse-grained soilgeogrid interface. 2021 , 27, 100504	4
337	Numerical exploration of the behavior of coal-fouled ballast subjected to direct shear test. 2021 , 273, 121927	2

(2021-2021)

336	Influence of Particle Size Distribution on the Proportion of Stress-Transmitting Particles and Implications for Measures of Soil State. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021 , 147, 04020182	3.4	11
335	ParticLS: Object-oriented software for discrete element methods and peridynamics. 1		О
334	Identifying Changes in Sediment Texture along an Ephemeral Gravel-Bed Stream Using Electrical Resistivity Tomography 2D and 3D. 2021 , 11, 3030		1
333	Image-based calibration of rolling resistance in discrete element models of sand. 2021 , 131, 103929		14
332	Numerical Investigation of Particle Shape Effect on Sand Shear Strength. 2021 , 46, 10585		1
331	Influence of grain shape on stress-dilatancy parameters. 2021 , 23, 1		2
330	Fourier series-based discrete element method for two-dimensional concave irregular particles. 2021 , 132, 103991		4
329	Evolution of Small Strain Soil Stiffness during Freeze-Thaw Cycle: Transition from Capillarity to Cementation Examined Using Magnetic and Piezo Crystal Sensors. 2021 , 21,		1
328	DEM study on effect of particle roundness on biaxial shearing of sand. 2021 , 6, 678-678		2
327	Stress wave transmission and frequency-domain responses of gap-graded cohesionless soils. 2021 , 61, 857-857		1
326	Response of Transitional Mixtures Retaining Memory of In-Situ Overburden Pressure Monitored Using Electromagnetic and Piezo Crystal Sensors. 2021 , 21,		0
325	Key geomechanical properties of the historically liquefiable TP-Lisbon sand. 2021, 61, 836-836		1
324	Embankment breaching at Indian Sundarban lan assessment on altered primary sediment index properties and fluvial flow parameters. 1-12		2
323	Experimental study on grain failure of lightweight expanded clay aggregate under uniaxial and biaxial load conditions. 2021 , 383, 542-553		1
322	Simulating Subgrade Soil Fluidization Using LBM-DEM Coupling. 2021 , 21, 04021039		3
321	DEM analysis on the stress wave response of spherical particle assemblies under triaxial compression. 2021 , 133, 104043		3
320	Assessing the Extent of Pavement Deterioration Caused by Subgrade Volumetric Movement Through Moisture Infiltration. 1		3
319	Analysis of the stress distribution in a laminar direct simple shear device and implications for test data interpretation. 2021 , 23, 1		O

318	Simulating shearing behavior of realistic granular soils using physics engine. 2021 , 23, 1	0
317	Quantitative analysis of shapes and specific surface area of blasted fragments using image analysis and three-dimensional laser scanning. 2021 , 141, 104710	1
316	Investigation of liquefaction-induced lateral spreading of gently sloping grounds using a variable permeability model. 2021 , 45, 1809-1832	0
315	Effects of internal pores on the mechanical properties of marine calcareous sand particles. 2021 , 16, 3209-3228	11
314	Characterisation of Industrial Side Streams and Their Application for the Production of Geopolymer Composites. 2021 , 11, 593	2
313	Bayesian Network Prediction of Stiffness and Shear Strength of Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021 , 147, 04021020	O
312	Shear wave velocity in granular soil considering effects of inherent and stress-induced anisotropy. 2021 , 28, 1476-1492	
311	A gradation-dependent particle shape factor for characterizing small-strain shear modulus of sand-gravel mixtures. 2021 , 28, 100548	5
310	The mechanics of brittle granular materials with coevolving grain size and shape 2021 , 477, 20201005	5
309	Effect of Particle Morphology on Stiffness, Strength and Volumetric Behavior of Rounded and Angular Natural Sand. 2021 , 14,	1
308	Influence of anisotropic stress path and stress history on stiffness of calcareous sands from Western Australia and the Philippines. 2021 ,	6
307	Precision and computational costs of Level Set-Discrete Element Method (LS-DEM) with respect to DEM. 2021 , 134, 104033	4
306	A polybEier-based particle model for the DEM modeling of granular media. 2021 , 134, 104052	4
305	Correlation of Critical State Strength Properties with Particle Shape and Surface Fractal Dimension of Clinker Ash. 2021 , 21, 04021071	30
304	How head shape and substrate particle size affect fossorial locomotion in lizards. 2021, 224,	2
303	Liquefaction Resistance of Silty Sand with Ground Rubber Additive. 2021 , 21, 04021076	5
302	Machine learning reveals the influences of grain morphology on grain crushing strength. 1	0
301	Discrete element model for general polyhedra. 1	O

(2021-2021)

300	Experimental investigation on the stress-dilatancy response of aggregate-geogrid interface using parameterized shapes. 2021 , 289, 123170		4
299	Evaluation of Flow Liquefaction and Liquefied Strength Using the Cone Penetration Test: an update.		2
298	Use of fine recycled concrete aggregates in concrete: A critical review. 2021 , 38, 102196		53
297	Micro-mechanical analysis of caisson foundation in sand using DEM: Particle shape effect. 2021 , 111, 102630		6
296	Analyzing grain size distributions with the modal decomposition method: literature review and procedures. 2021 , 80, 6649-6666		3
295	How to classify sand types: A deep learning approach. 2021 , 288, 106142		3
294	Effect of Gradation and Particle Shape on the Limiting Compression Curves of Sand-Sized Siliceous Materials. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021 , 147,	3.4	
293	Recommended Procedures to Assess Critical State Locus from Triaxial Tests in Cohesionless Remoulded Samples. 2021 , 1, 95-127		4
292	Properties of Mine Tailings for Static Liquefaction Assessment.		3
291	A spherical-harmonic-based approach to discrete element modeling of 3D irregular particles. 2021 , 122, 5626-5655		9
2 90	Gene mutation of particle morphology through spherical harmonic-based principal component analysis. 2021 , 386, 176-192		3
289	Plastic viscosity of cement mortar with manufactured sand as influenced by geometric features and particle size. 2021 , 104163		7
288	Multi-Scale Study of the Small-Strain Damping Ratio of Fiber-Sand Composites. 2021, 13,		О
287	Experiments and Dimensional Analysis of Waste Tire-Based Permeable Pavements. 1-34		2
286	Quantifying the influence of grain morphology on sand hydraulic conductivity: A detailed pore-scale study. 2021 , 135, 104147		7
285	Experimental and Numerical Analysis of a Field Trial Application of Microbially Induced Calcite Precipitation for Ground Stabilization. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021 , 147, 05021003	3.4	5
284	Evolution of Dynamic Properties of Cross-Anisotropic Sand Subjected to Stress Anisotropy. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021 , 147,	3.4	7
283	Structure and Strength of Artificial Soils Containing Monomineral Clay Fractions. 2021 , 14,		O

282	Effect of Packing Density According to CPM on the Rheology of Cement E ly Ash B lag Paste. 2021 , 33, 04021209		2
281	Relaxation behavior in low-frequency complex conductivity of sands caused by bacterial growth and biofilm formation by Shewanella oneidensis under a high-salinity condition. 1-51		2
2 80	A novel deep learning-based modelling strategy from image of particles to mechanical properties for granular materials with CNN and BiLSTM. 2021 , 382, 113858		20
279	Shear and Hydraulic Properties of Compost-Amended Topsoils for Use on Highway Slopes. 2021 , 33, 04021192		3
278	Effect of particle shape on shear behaviour of aggregate-geogrid interface under different aperture ratios. 1-11		O
277	Stabilizing the clayey sand contaminated with heavy metals by zeolite and rice husk ash absorbents. 2021 , 14, 1		O
276	Dense upflow fluidized bed (DUFB) solar receivers of high aspect ratio: Different fluidization modes through inserting bubble rupture promoters. 2021 , 418, 129376		8
275	Three-dimensional particle size, shape, and internal porosity characterization: Application to five similar titanium alloy (TiBALBV) powders and comparison to two-dimensional measurements. 2021 , 44, 102060		
274	A new design approach for the established flow region of vertical, dilute-phase pneumatic conveyors. 2021 , 66, 10-10		1
273	In-Service Response of Shallow On-Shore Wind Turbine Generator Foundation. 1		
272	Particle shape effects on the cyclic shear behaviour of the soilgeogrid interface. 2021 , 49, 991-1003		12
271	Lower bound analysis of modified pseudo-dynamic lateral earth pressures for retaining wall-backfill system with depth-varying damping using FEM-Second order cone programming. 2021 , 45, 2371		11
270	New Approach to Concurrent VS and VP Measurements Using Bender Elements. 2021 , 44, 20200207		2
269	Study of the influence of shape, orientation, and size of AlN in the E-free zone of nickel-based superalloys by microstructure-based numerical models. 2021 , 197, 110657		2
268	Evaluation of Roundness Parameters in Use for Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021 , 147, 04021081	3.4	4
267	Impact of particle shape on networks in sands. 2021 , 137, 104258		1
266	Multiscale Three-Dimensional Morphological Characterization of Calcareous Sand Particles Using Spherical Harmonic Analysis. 2021 , 9,		0
265	Compressibility, stiffness and electrical resistivity characteristics of sanddiatom mixtures. 1-14		1

264	An experimental investigation into the use of mica as a material for the stabilisation of marginal clays in construction. 2021 , 299, 123971	Ο
263	Influence of particle shape on the shear behavior of superellipsoids by discrete element method in 3D. 2021 ,	О
262	Triaxial compression behavior of 3D printed and natural sands. 2021 , 23, 1	3
261	Comparison of 2D and 3D dynamic image analysis for characterization of natural sands. 2021 , 290, 106052	3
260	Incorporating shear stress ratio and load cycle number in a simple permanent deformation model for unbound material. 2021 , 30, 100598	Ο
259	Multi-scale investigation of active failure for various modes of wall movement. 2021 , 15, 961	О
258	Minimum Void Ratio Model Established from Tailings and Determination of Optimal Void Ratio. 2021 , 2021, 1-15	2
257	Bidirectional Shear Wave Velocity Measurements to Track Fabric Anisotropy Evolution of a Crushed Silica Sand during Shearing. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021 , 3.4 147, 04021104	2
256	Subglacial sediment deformation in the Ross Sea, Antarctica. 2021 , 4, 100029	О
255	A combination of density-based clustering method and DEM to numerically investigate the breakage of bonded pharmaceutical granules in the ball milling process. 2021 , 58, 153-168	Ο
254	Isotropic compression behavior of granular assembly with non-spherical particles by X-ray micro-computed tomography and discrete element modeling. 2021 , 13, 972-984	1
253	Influence of Sand Morphology on Interparticle Force and Stress Transmission Using Three-Dimensional Discrete- and Finite-Element Methods. 2021 , 147, 04021081	1
252	Nonlinear stiffness and damping characteristics of gravelly crushed rock: Developing generic curves and attempting multi-scale insights. 2021 , 31, 100668	3
251	Manipulation of the granular fluid-structure interaction via sliding coating layers. 2021 , 157, 104005	
250	Prediction of random packing density and flowability for non-spherical particles by deep convolutional neural networks and Discrete Element Method simulations. 2021 , 393, 559-581	1
249	Thermal conductivity of dry fly ashes with various carbon and biomass contents. 2021 , 135, 122-129	2
248	A study of ellipsoidal and spherical particle flow, clogging and unclogging dynamics. 2021 , 392, 424-437	Ο
247	Influence of Friction and Particle Morphology on Triaxial Shearing of Granular Materials. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021 , 147, 04021118	1

246	Impact of bedding plane direction and type of plastic microparticles on stiffness of inherently anisotropic gap-graded soils: Index, wave propagation and micromechanical-based interpretations. 2021 , 150, 106924	2
245	New method to predict porosity loss during sandstone compaction based on packing texture. 2021 , 133, 105228	2
244	Wave propagation in granular material: What is the role of particle shape?. 2021, 157, 104605	1
243	Particle morphology control of metal powder with various experimental conditions using ball milling. 2021 , 394, 181-190	4
242	A Level Set-Discrete Element Method in YADE for numerical, micro-scale, geomechanics with refined grain shapes. 2021 , 157, 104936	1
241	Flexible polyhedra modeled by the virtual element method in a discrete element context. 2021 , 387, 114163	O
240	A novel Arcs-based discrete element modeling of arbitrary convex and concave 2D particles. 2021 , 386, 114071	5
239	Rheological evaluation of soil aggregate microstructure and stability across a forested catena. 2021 , 403, 115196	1
238	Applicability of automatic image analysis in quartz-grain shape discrimination for sedimentary setting reconstruction. 2021 , 207, 105602	3
237	Advances in the Study of Micromechanical Behaviour for Granular Materials Using Micro-CT Scanner and 3D Printing. 2021 , 911-918	3
236	Influence of particle size on the drained shear behavior of a dense fluvial sand. 2021, 16, 2071-2088	6
235	Experimental and numerical study on the fragmentation mechanism of a single calcareous sand particle under normal compression. 2021 , 80, 2875-2888	5
234	Simulations of realistic granular soils in oedometer tests using physics engine. 2020 , 44, 983-1002	10
233	Predicting Terrain Traversability from Thermal Diffusivity. 2015 , 61-74	5
232	The Effect of Overconsolidation and Particle Shape on the CPT End Resistance of Granular Soils. 2015 , 229-238	1
231	Repetitive Compression Tests on a Carbonate Sand. 2015 , 369-374	1
230	Evaluation of Grain Shape Parameters of Fujian Standard Sand. 2018 , 186-190	1
229	Physikalische Eigenschaften und Prozesse. 2010 , 171-271	1

228	Influence of Particle Shape on Mechanical Behavior of Granular Materials. 2017, 245-252	4
227	The Influence of Particles[Aspect Ratio on the Shear Behaviour of Granular Materials. 2017, 253-264	1
226	A comparative study on the undrained shear strength results of fall cone and vane shear tests in sandflay mixtures. 2020 , 13, 1	1
225	Fourier series-based discrete element method for computational mechanics of irregular-shaped particles. 2020 , 362, 112873	23
224	Numerical investigation on the flow behavior of a novel fluidization based particle thermal energy storage (FP-TES). 2020 , 200, 117528	5
223	A comparative study of UDEC simulations of an unsupported rock tunnel. 2018 , 72, 242-249	20
222	Ceramic Binder Jetting Additive Manufacturing: A Literature Review on Density. 2020, 142,	23
221	Friction in granular media. 2009 , 159-190	6
220	Localized deformation in sands and glass beads subjected to plane strain compressions. 2013 , 5, 499-517	2
219	Cyclic behavior of various sands and structural materials interfaces. 2016 , 10, 1-19	8
218	An Empirical Relationship for Determining Shear Wave Velocity in Granular Materials Accounting for Grain Morphology. 2009 , 32, 100796	6
217	Development of a Modified in situ Direct Shear Test Technique to Determine Shear Strength Parameters of Mine Rock Piles. 2008 , 31, 101152	2
216	Effects of Particle Shape and Gradation on the Results of Miniature DCP Tests in Sand. 2008, 31, 101575	2
215	Particle Elongation and Deposition Effect to Macroscopic and Microscopic Responses of Numerical Direct Shear Tests. 2011 , 34, 102785	2
214	The Small-Strain Shear Modulus and Damping Ratio of Quartz and Volcanic Sands. 2012, 35, 20120073	73
213	Evaluation of Soil State Variation using Bender Elements Within Centrifuge Models. 2017 , 40, 20150139	1
212	Strength and Deformation Characteristics of Degradable Granular Soils. 2016 , 39, 20150209	1
211	Protocol for Cohesionless Sample Preparation for Physical Experimentation. 2017 , 40, 20150220	10

210	Factors Affecting Steady State Locus in Triaxial Tests. 2016 , 39, 20150228	11
209	Influence of Particle Gradation and Shape on the Performance of Stone Columns in Soft Clay. 2018 , 41, 20160234	5
208	Experimental Investigation into the Influence of Roundness and Sphericity on the Undrained Shear Response of Silty Sand Soils. 2018 , 41, 20170118	13
207	Laboratory Simulator for Geotechnical Penetration Tests. 2020 , 43, 20170413	3
206	Evaluation of Dynamic Image Analysis for Characterizing Granular Soils. 2020, 43, 20190137	10
205	Previbration Signature on Dynamic Properties of Dry Sand. 2019 , 47, 20180037	4
204	Liquefaction Resistance of Different Size/Shape Sand-Clay Mixtures Using a Pair of Bender Element Mounted Molds. 2021 , 49, 20180677	9
203	Two Decades of Advancement in Process Simulation Testing of Ballast Strength, Deformation, and Degradation. 2018 , 11-38	6
202	Kohezyonsuz Zeminlerin Tane Da⊞n ve Bkil Belliklerinin Aktif GEne YBeyi Geometrisine Etkileri.	1
201	Performance optimization of banana vibrating screens based on PSO-SVR under DEM simulations. 2019 , 21, 28-39	2
200	Improved Packing Model for Functionally Graded Sand-Fines MixturesIncorporation of Fines Cohesive Packing Behavior. 2020 , 10, 562	7
199	Advanced Statistical Analysis for Relationships between Particle Morphology (Size and Shape) and Shear (Static and Dynamic) Characteristics of Sands. 2013 , 04, 27-36	2
198	Evaluating the Subgrade Reaction Modulus Variations with Soil Grains Shape in Coarse-Grained Soils Using Genetic Algorithm. 2020 , 10, 111-123	2
197	Testing and numerical simulation of Holocene marine sand uniaxial compression along the Lithuanian coast. 2014 , 27, 33-44	4
196	Estimation of the Relative Density and Internal Friction Angle for Sand using Cone-tip Resistance of the PCPT. 2012 , 54, 137-145	1
195	Dynamic Deformation Properties of Coarse Granular Materials with Respect to Gradation Characteristics. 2013 , 29, 5-14	2
194	Geotechnical properties of some kaolinite-rich Brazilian Vertisols. 2021, 45,	
193	Porosity of bimodal and trimodal sediment mixtures. 2021 , 37, 258-258	1

(2020-)

192	Correlation between grain shape and critical state characteristics of uniformly graded sands: A 3D DEM study. 1	1
191	Compressibility and crushing of coral sands under one-dimensional dynamic compaction. 2021 , 23, 1	1
190	Characterising the effect of particle size disparity on liquefaction resistance of non-plastic silty sands from a critical state perspective. 1-40	1
189	MSW incineration bottom ash (MIBA) as a substitute to conventional materials in geotechnical applications: A characterization study from India and comparison with literature. 2021 , 308, 124925	1
188	The NMR Spin Lattice Relaxation Rate of Hydrated Sands as a Function of Magnetic Field. 2008,	
187	Physikalische Eigenschaften und Prozesse. 2010 , 171-271	
186	Geotechnical Characteristics of an Aerated Soil-Stabilizer Mixture as Backfill Material. 2012, 35, 103990	
185	Effect of Fabric on Low-Strain Stiffness Properties of Granular Soils. 2014 ,	
184	Smllo daleli[morfologini[þarametrækos grunto mechaninhs savybhs eksperimentiniai ir skaitiniai tyrimai. 2015 ,	1
183	Liquefaction Modelling of Granular Soils using Discrete Element Method. 2016 , 381-441	
182	Effect of Ambient Temperature Variation on Triaxial Shear Testing of Sands. 2016 , 39, 20150160	
181	Shear Resistance of Sandy Soils Depending on Particle Shape. 2016 , 32, 41-48	
180	A Study on Geotechnical Centrifuge Testing Method for Seismic Performance Evaluation of Large Embankment Dams. 2016 , 20, 201-209	1
179	References. 2016 , 119-130	
178	Surface Smoothness Evaluation of Etched and Unaltered Sand Specimens with Mechanical Behavior Assessment. 2019 , 42, 20170261	
177	Interfacial Mechanical Effect and Micro-mechanism of PbBoil Interaction. 2019, 25-54	
176	Characterization and regeneration of 2D general-shape particles by a Fourier series-based approach. 2020 , 250, 118806	5
175	Liquefaction Characteristics of Sands Based on Cyclic Direct Simple Shear Test. 2020 , 20, 239-249	

174	The critical state parameters of sands from their image-based intrinsic properties. 2021 , 16, 4081	
173	Stress propagation in locally loaded packings of disks and pentagons. 2021 , 17, 10120-10127	2
172	DEM analysis of small and small-to-medium strain shear modulus of sands. 2022 , 141, 104518	6
171	Simulation of ductile grain deformation and the porosity loss predicted model of sandstone during compaction based on grain packing texture. 2022 , 208, 109583	О
170	Finite element analyses of a granular assembly under projectile loading incorporating computed tomography imaging and damage mechanics. 2020 ,	
169	Microscopic origin of shape-dependent shear strength of granular materials: a granular dynamics perspective. 1	1
168	Surface reconstruction with spherical harmonics and its application for single particle crushing simulations. 2021 ,	
167	Internal rolling method for particle shape evaluation and reconstruction. 2020 , 15, e0242162	1
166	Stress distribution around the conduit buried within a soil slope [An experimental investigation. 2022 , 32, 100687	1
165	Elongation, flatness and compactness indices to characterise particle form. 2022 , 396, 689-695	5
164	A modified method for morphology quantification and generation of 2D granular particles. 2022 , 24, 1	2
163	Shock-induced interfacial instabilities of granular media. 2022 , 930,	1
162	Three-dimensional quantitative analysis on granular particle shape using convolutional neural network. 2022 , 46, 187	1
161	Influence of Soil Particle Size on the Engineering Properties and Microstructure of a Red Clay. 2021 , 11, 10887	O
160	Inspection of various grain morphology parameters based on wave velocity measurements on three different granular materials. 2021 , 153, 107071	О
159	Pore-network model to quantify internal structure and hydraulic characteristics of randomly packed grains with different morphologies. 2022 , 24, 1	О
158	Efficacy of 3D Dynamic Image Analysis for Characterizing the Morphology of Natural Sands. 1-40	О
157	An extension of the Fourier series-based particle model to the GJK-based contact detection and resolution framework for DEM. 1	1

156	Fine material migration modelled by cellular automata. 2022 , 24, 1	3
155	Effect of artificial aggregate shapes on the porosity, tortuosity and permeability of their packings. 2021 , 397, 117019	O
154	Shape quantification of volcanic cinders and the influence of particle shape indexes on accumulation characteristics. 1-12	О
153	To fall or not to fall: the physics of sandcastles. 2022 , 24, 1	
152	Lightweight expanded clay aggregate properties based on laboratory testing. 2021, 313, 125486	1
151	Predicting the crystalline phase generation effectively in monosized granular matter using machine learning. 2022 , 24, 1	1
150	Optimization of Aggregate Production Circuit through Modeling of Crusher Operation. 2022 , 12, 78	1
149	Experimental Quantification of Granular Material Fragmentation Due to Travel Distance. 2022 , 39, 615	
148	DEM models using direct and indirect shape descriptions for Toyoura sand along monotonous loading paths. 2022 , 142, 104551	О
147	Research on the Mechanical Properties of Mojave Mars Simulant-1 (MMS-1) Soil. 2022 , 71, 41-46	
146	Effects of particle size-shape correlations on steady shear strength of granular materials: The case of particle elongation.	0
145	Influence of small particle surface asperities on macro and micro mechanical behavior of granular material.	O
144	Effects of particle morphology on the minimum and maximum void ratios of granular materials. 2022 , 24, 1	1
143	Fragmentation and granular transition of ceramics for high rate loading.	О
142	Visualization of Interstitial Pore Fluid Flow 2022 , 8,	О
141	Cyclic Liquefaction Resistance of an Alluvial Natural Sand: A Comparison between Fully and Partially Saturated Conditions. 2022 , 2, 1-13	Ο
140	Coal mining wastes valorization as raw geomaterials in construction: A review with new perspectives. 2022 , 336, 130213	2
139	Anisotropy in small-strain shear modulus of granular materials: Effects of particle properties and experimental conditions. 2022 , 62, 101105	1

138	Coupling irregular particles and fluid: Complex dynamics of granular flows. 2022, 143, 104624	О
137	Quantifying fines migration in block caving through 3D experiments. 2022 , 151, 105033	O
136	Effect of Particle Shape on Soil Arching in the Pile-Supported Embankment by 3D Discrete-Element Method Simulation. 2022 , 22,	
135	Role of particle shape on the shear strength of sand-GCL interfaces under dry and wet conditions. 2022 , 50, 262-281	3
134	Morphology Characteristics of the Fragments Produced by Rock Grain Crushing. 2022 , 22,	0
133	Investigating physical and mechanical properties of nest soils used by mud dauber wasps from a geotechnical engineering perspective 2022 , 12, 2192	O
132	A strategic review on enhanced DEM simulation and advanced 3-D particle printing techniques to improve pipe-jacking force prediction. 2022 , 123, 104415	0
131	Filling Process of HSCC and Compactness of RFC. 2022 , 39-78	
130	Impact of the overall regularity and related granulometric characteristics on the critical state soil mechanics of natural sands: a state-of-the-art review. 1-10	3
129	Mechanical-Based Properties of Mine Tailings for Static Liquefaction. 2022,	
129	Mechanical-Based Properties of Mine Tailings for Static Liquefaction. 2022, Laboratory investigation and constitutive modeling of the mechanical behavior of sandCRP interfaces. 1	O
	Laboratory investigation and constitutive modeling of the mechanical behavior of sand@RP	0 2
128	Laboratory investigation and constitutive modeling of the mechanical behavior of sand GRP interfaces. 1 Effects of particle shape on dynamic mechanical behaviours of coral sand under one-dimensional	
128	Laboratory investigation and constitutive modeling of the mechanical behavior of sand CRP interfaces. 1 Effects of particle shape on dynamic mechanical behaviours of coral sand under one-dimensional compression. 2022, 106624	2
128 127 126	Laboratory investigation and constitutive modeling of the mechanical behavior of sand@RP interfaces. 1 Effects of particle shape on dynamic mechanical behaviours of coral sand under one-dimensional compression. 2022, 106624 Effect of fractal dimension on sand-geosynthetic interface shear strength. 2022, 401, 117349	2
128 127 126	Laboratory investigation and constitutive modeling of the mechanical behavior of sand@RP interfaces. 1 Effects of particle shape on dynamic mechanical behaviours of coral sand under one-dimensional compression. 2022, 106624 Effect of fractal dimension on sand-geosynthetic interface shear strength. 2022, 401, 117349 Investigating Geotechnical Properties of Nest Soils Used by Mud Dauber Wasps. 2022,	2
128 127 126 125	Laboratory investigation and constitutive modeling of the mechanical behavior of sand@RP interfaces. 1 Effects of particle shape on dynamic mechanical behaviours of coral sand under one-dimensional compression. 2022, 106624 Effect of fractal dimension on sand-geosynthetic interface shear strength. 2022, 401, 117349 Investigating Geotechnical Properties of Nest Soils Used by Mud Dauber Wasps. 2022, Interpretation of centrifuge CPT data in normally consolidated silica and carbonate sands. 1-35	2

120	Behaviour of a Clay and Gravel Mixture. 2022 , 17, 98-116	1
119	Effects of Particle Shape on the Shear Wave Velocity and Shear Modulus of 3D Printed Sand Analogs. 3, 1-18	Ο
118	A shape parameter for soil particles using a computational method. 2022 , 15, 1	О
117	Numerical evaluation of particle shape effect on small strain properties of granular soils. 2022, 106652	Ο
116	Mortar I rheological property and workability investigation based on morphology impact factor for graded sand particles. 2022 , 328, 126987	0
115	Evaluating the applicability of conventional CPT-based liquefaction assessment procedures to reclaimed gravelly soils. 2022 , 155, 107176	1
114	Influence of fines on the monotonic and cyclic shear behaviour of volcanic soil Bhirasu[12022, 301, 106591	O
113	Image-Based 3D Reconstruction of Granular Grains via Hybrid Algorithm and Level Set with Convolution Kernel. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2022 , 148,	O
112	Characterization of variability in 2-dimensional particle geometry via 3D structured light scanning. 2022 , 34, 100760	Ο
111	Vibro-induced weakening of interface friction between granular materials and textured surfaces: An experimental study with a modified direct shear apparatus. 2022 , 158, 107289	Ο
110	Correlation of Roundness and Sphericity with Complex Fourier Descriptors of 2-Dimensional Projected Images of Soil Particles. 2022 , 26, 1089-1094	
109	Coupled effects of particle overall regularity and sliding friction on the shear behavior of uniformly graded dense sands. 2021 ,	Ο
108	A random algorithm for 3D modeling of solid particles considering elongation, flatness, sphericity, and convexity. 1	
107	Use of machine learning for classification of sand particles.	O
106	Multi-scale particle morphology evolution in rotating drum tests: Role of particle shape and pore fluid. 2022 , 106669	О
105	Pore space evolution of granular assemblies under shear: an experimental study using X-ray tomography. 2022 , 24, 1	O
104	Comparison of Geometric Properties of Regular and Irregular Mineral Grains by Dynamic Image Analysis (2D) and Optoelectronic Analysis (3D) Methods. 2022 , 12, 540	1
103	Geotechnical properties of a bentonite treated with waste glass grains. 2022 , 15, 1	О

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84 Effects of Shell Hash on Friction Angles of Surficial Seafloor Sediments near Oysters. **2022**, 148,

83	Undrained shearing behaviour of oil sands tailings. 2022 , 161, 107410	O
82	Critical appraisal of pore network models to simulate fluid flow through assemblies of spherical particles. 2022 , 150, 104900	O
81	An Image-Based Gradation Calculation Method considering Crushed Stone Morphology. 2022 , 2022, 1-17	O
80	UNetGE: A U-Net-Based Software at Automatic Grain Extraction for Image Analysis of the Grain Size and Shape Characteristics. 2022 , 22, 5565	0
79	Flowability of multi-sized mixed particles based on shotcrete aggregates. 2022 , 408, 117760	
78	Morphological Perspectives to Quantify and Mitigate Liquefaction in Sands.	O
77	Research into compaction characteristics of large-size coarse-grained soil and application. 1-24	
76	Influences of Particle Sphericity and Fabric on the Soil-Structure Interface. 2023, 135-162	
75	Influence of particle size on the small-strain stiffness in granular soils: experimental observations and micromechanical interpretation. 1-43	
74	A generalized 3DLS-DEM scheme for grain breakage. 2022 , 399, 115383	
73	Studying effects of interface surface roughness, mean particle size, and particle shape on the shear behavior of sand-coated CFRP interface. 2022 , 37, 100841	O
72	Discrete element analysis of the influence of compaction quality on mechanical properties of rockfill materials. 2022 , 151, 104958	1
71	A five-parameter hydrodynamic-plastic model for crushable sand. 2022 , 254-255, 111914	
70	Comparison of clumps and rigid blocks in three-dimensional DEM simulations: curvature-based shape characterization. 2022 , 151, 104991	O
69	Contact Overlap Calculation Algorithms and Benchmarks Based on Blocky Discrete-Element Method. 2022 , 22,	O
68	Limit face pressure analysis of an EPB shield under suffusion conditions. 2022 , 130, 104733	О
67	Small-Strain Shear Modulus of Coral Sand with Various Particle Size Distribution Curves. 2022 , 2054-2072	O

66	Deep-learning-enhanced model reconstruction of realistic 3D rock particles by intelligent video tracking of 2D random particle projections.	O
65	Effect of sediment form and form distribution on porosity: a simulation study based on the discrete element method. 2022 , 24,	O
64	Influence of particle size and packing on the thermal conductivity of carbonate sand. 2022, 24,	O
63	Impact of Particle Shape, Size, and Size Distribution on Gravity Flow Behaviour of Broken Ore in Sublevel Caving. 2022 , 12, 1183	O
62	Effect of morphological gene mutation and decay on energy dissipation behaviour of granular soils.	O
61	Analysis of the breakage parameters of railway ballast based on the discrete element method.	O
60	Experimental investigation on dynamic properties of muddy sand from Pearl River Delta of China. 2022 , 106881	О
59	Features of Manufactured Sand. 2023 , 47-101	O
58	Role of Particle Shape on Ground Responses to a Circular Tunnel Excavation in Sandy Soil: Consequences from DEM Simulations. 2022 , 15, 7088	О
57	Effect of particle size and shape on shear strength of sandfubber granule mixtures. 2022 , 24,	O
56	Vibroflotation method to improve silt interlayers of dredged coral sand ground case study. 2022 , 81,	O
55	Implementation of real contact behaviour in the DEM modelling of triaxial tests on railway ballast. 2022 , 412, 118021	O
54	Discussion: Cherif Taiba et al. (2022), Impact of the overall regularity and related granulometric characteristics on the critical state soil mechanics of natural sands: a state-of-the art review Geomechanics and Geoengineering, doi: 10.1080/17486025.2022.2044076. 1-4	О
53	Influence of fine aggregate's morphology on mortars' rheology. 2023 , 63, 105450	O
52	Effect of particle regularity on the shear response of geogrid-granular material interface under cyclic normal loading. 2023 , 38, 100890	O
51	Mesoscale Mechanism of Asphalt Track Bed in Reducing Cyclic Settlement of Ballast Layer under High-Speed Train Traffic Loads. 2023 , 149,	O
50	Reusing Life-Expired Railway Ballast: Laboratory Testing, Shape Analysis, and Petrographic Evaluation. 2023 , 149,	О
49	What is shape? Characterizing particle morphology with genetic algorithms and deep generative models. 2023 , 25,	O

48	The use of tactile pressure sensors for horizontal stress measurements on a large flexible Calibration Chamber. 1-49	О
47	Shape characteristics and particle size distribution: Effects on flowability and floodability of select grain dust types. 2023 , 225, 13-24	O
46	A Unified Formula for Small-Strain Shear Modulus of Sandy Soils Based on Extreme Void Ratios. 2023 , 149,	3
45	Investigation of the compaction behaviour of sand-gravel mixtures via DEM: Effect of the sand particle shape under vibration loading. 2023 , 154, 105153	O
44	DEM-FEM combination for modeling and simulation of fractal metallic foams. 2023, 34, 105054	0
43	Machine learning models to estimate stress wave velocities of cohesionless soils during triaxial compression influenced by particle characteristics. 2023 , 165, 107649	O
42	Reply to the Discussion: Cherif Taiba et al. (2022), Impact of the overall regularity and related granulometric characteristics on the critical state soil mechanics of natural sands: a state-of-the art review [Geomechanics and Geoengineering, doi: 10.1080/17486025.2022.2044076. 1-4	Ο
41	Experimental study on deformation and strength characteristics of granular soil-structure interface under coupled monotonic shear and vibration using a modified direct shear apparatus.	O
40	Effects of the Particle Shape and Size on the Single-Particle Breakage Strength. 2022, 2022, 1-10	О
39	Impact of Particle Morphology on the Friction Angle of Firoozkouh Sand.	O
38	Mixed-mode fracture of compacted tailing soils. I: Fracture toughness. 2022 , 103670	О
37	Effect of quantitative textural specifications on Vickers hardness of limestones. 2023 , 82,	Ο
36	A Review of Particle Shape Effects on Material Properties for Various Engineering Applications: From Macro to Nanoscale. 2023 , 13, 91	2
35	Shear behaviors of recycled aggregate sand in constant volume simple shear tests interrelated with particle shape. 10,	O
34	Influences of cyclic stress paths on deformation behavior of saturated marine coral sand: An experimental study. 2023 , 270, 113626	0
33	Effect of morphological characteristics of aggregate on the performance of pervious concrete. 2023 , 367, 130219	O
32	Cyclic failure mechanisms of saturated marine coral sand under various consolidations. 2023, 131, 103450	1
31	Drafting, Kissing and Tumbling Process of Two Particles: The Effect of Morphology. 2023 , 160, 104379	Ο

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