

# Jacek Tejchman

## List of Publications by Year in descending order

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180  
papers

4,805  
citations

87888

38  
h-index

128289

60  
g-index

186  
all docs

186  
docs citations

186  
times ranked

2172  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative study of high-pressure fluid flow in densely packed granules using a 3D CFD model in a continuous medium and a simplified 2D DEM-CFD approach. <i>Granular Matter</i> , 2022, 24, 1.	2.2	10
2	Experimental and numerical investigations on RC beams with stirrups scaled along height or length. <i>Engineering Structures</i> , 2022, 252, 113621.	5.3	6
3	3D DEM simulations of monotonic interface behaviour between cohesionless sand and rigid wall of different roughness. <i>Acta Geotechnica</i> , 2021, 16, 1001-1026.	5.7	24
4	Effect of gas content in macropores on hydraulic fracturing in rocks using a fully coupled DEM/CFD approach. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2021, 45, 234-264.	3.3	18
5	Finite element analysis on failure of reinforced concrete corner in sewage tank under opening bending moment. <i>Engineering Structures</i> , 2021, 228, 111506.	5.3	4
6	Modelling of shear zones during quasi-static granular silo flow using material point method (MPM). <i>Powder Technology</i> , 2021, 378, 538-560.	4.2	6
7	Investigations on fracture in reinforced concrete beams in 3-point bending using continuous micro-CT scanning. <i>Construction and Building Materials</i> , 2021, 284, 122796.	7.2	10
8	Comparative 3D DEM simulations of sand-structure interfaces with similarly shaped clumps versus spheres with contact moments. <i>Acta Geotechnica</i> , 2021, 16, 3533-3554.	5.7	16
9	Micro-modelling of shear localization during quasi-static confined granular flow in silos using DEM. <i>Computers and Geotechnics</i> , 2021, 134, 104108.	4.7	9
10	Modelling of full-scale silo experiments with flow correcting inserts using material point method (MPM) based on hypoplasticity. <i>Powder Technology</i> , 2021, 392, 375-392.	4.2	5
11	Numerical analyses of novel prefabricated structural wall panels in residential buildings based on laboratory tests in scale 1:1. <i>European Journal of Environmental and Civil Engineering</i> , 2020, 24, 1450-1482.	2.1	5
12	Simulations of hydro-fracking in rock mass at meso-scale using fully coupled DEM/CFD approach. <i>Acta Geotechnica</i> , 2020, 15, 297-324.	5.7	39
13	Early prediction of macrocrack location in concrete, rocks and other granular composite materials. <i>Scientific Reports</i> , 2020, 10, 20268.	3.3	7
14	Contact force network evolution in active earth pressure state of granular materials: photo-elastic tests and DEM. <i>Granular Matter</i> , 2020, 22, 1.	2.2	14
15	Comparative DEM calculations of fracture process in concrete considering real angular and artificial spherical aggregates. <i>Engineering Fracture Mechanics</i> , 2020, 239, 107309.	4.3	35
16	Numerical modelling of shear localization in granular bodies using MPM and non-local hypoplasticity. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
17	Coupled Evolution of Preferential Paths for Force and Damage in the Pre-failure Regime in Disordered and Heterogeneous, Quasi-Brittle Granular Materials. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	12
18	Meso-mechanical modelling of damage in concrete using discrete element method with porous ITZs of defined width around aggregates. <i>Engineering Fracture Mechanics</i> , 2020, 231, 107029.	4.3	60

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19	Improved energy management technique in pipe-embedded wall heating/cooling system in residential buildings. <i>Applied Energy</i> , 2019, 254, 113711.	10.1	37
20	Fracture evolution in concrete compressive fatigue experiments based on X-ray micro-CT images. <i>International Journal of Fatigue</i> , 2019, 122, 256-272.	5.7	68
21	Experimental investigations of damage evolution in concrete during bending by continuous micro-CT scanning. <i>Materials Characterization</i> , 2019, 154, 40-52.	4.4	54
22	Numerical analysis of size effect in RC beams scaled along height or length using elasto-plastic-damage model enhanced by non-local softening. <i>Finite Elements in Analysis and Design</i> , 2019, 157, 1-20.	3.2	10
23	Meso-scale analyses of size effect in brittle materials using DEM. <i>Granular Matter</i> , 2019, 21, 1.	2.2	21
24	Determination of buckling strength of silos composed of corrugated walls and thin-walled columns using simplified wall segment models. <i>Thin-Walled Structures</i> , 2019, 135, 414-436.	5.3	8
25	Experimental study of shear strength and failure mechanisms in RC beams scaled along height or length. <i>Engineering Structures</i> , 2018, 157, 203-223.	5.3	11
26	A three-dimensional meso-scale approach to concrete fracture based on combined DEM with X-ray $\mu$ CT images. <i>Cement and Concrete Research</i> , 2018, 107, 11-29.	11.0	123
27	Discrete element method simulations of fracture in concrete under uniaxial compression based on its real internal structure. <i>International Journal of Damage Mechanics</i> , 2018, 27, 578-607.	4.2	98
28	A three-dimensional meso-scale modelling of concrete fracture, based on cohesive elements and X-ray $\mu$ CT images. <i>Engineering Fracture Mechanics</i> , 2018, 189, 27-50.	4.3	97
29	Experimental and numerical investigations of concrete behaviour at meso-level during quasi-static splitting tension. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 96, 720-739.	4.7	57
30	Relationship between vortex structures and shear localization in 3D granular specimens based on combined DEM and Helmholtz-Hodge decomposition. <i>Granular Matter</i> , 2018, 20, 1.	2.2	10
31	Investigations of local/global buckling of cylindrical metal silos with corrugated sheets and open-sectional column profiles. <i>Thin-Walled Structures</i> , 2018, 123, 341-350.	5.3	7
32	Full-scale experiments on wheat flow in steel silo composed of corrugated walls and columns. <i>Powder Technology</i> , 2017, 311, 537-555.	4.2	26
33	Investigations of Vortex-Structures in Granular Bodies Based on DEM and Helmholtz-Hodge Flow Field Decomposition. <i>Springer Series in Geomechanics and Geoengineering</i> , 2017, , 445-451.	0.1	0
34	Experimental and numerical assessment of size effect in geometrically similar slender concrete beams with basalt reinforcement. <i>Engineering Structures</i> , 2017, 141, 272-291.	5.3	20
35	Simplified numerical model for global stability of corrugated silos with vertical stiffeners. <i>Journal of Constructional Steel Research</i> , 2017, 138, 93-116.	3.9	9
36	Investigations of quasi-static vortex structures in 2D sand specimen under passive earth pressure conditions based on DEM and Helmholtz-Hodge vector field decomposition. <i>Granular Matter</i> , 2017, 19, 1.	2.2	7

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37	Influence of input data on airflow network accuracy in residential buildings with natural wind- and stack-driven ventilation. <i>Building Simulation</i> , 2017, 10, 229-238.	5.6	15
38	Investigation of micro-structural phenomena at aggregate level in concretes using DEM. <i>EPJ Web of Conferences</i> , 2017, 140, 12008.	0.3	1
39	Of cuts and cracks: data analytics on constrained graphs for early prediction of failure in cementitious materials. <i>EPJ Web of Conferences</i> , 2017, 140, 08012.	0.3	6
40	Investigations of formation of quasi-static vortex-structures in granular bodies using DEM. <i>EPJ Web of Conferences</i> , 2017, 140, 03006.	0.3	0
41	DEM investigations of two-dimensional granular vortex- and anti-vortex-structures during plane strain compression. <i>Granular Matter</i> , 2016, 18, 1.	2.2	6
42	Experimental Investigations of Fracture Process in Concrete by Means of X-ray Micro-computed Tomography. <i>Strain</i> , 2016, 52, 26-45.	2.4	97
43	Application of linear buckling sensitivity analysis to economic design of cylindrical steel silos composed of corrugated sheets and columns. <i>Engineering Failure Analysis</i> , 2016, 70, 105-121.	4.0	16
44	Two-dimensional simulations of concrete fracture at aggregate level with cohesive elements based on X-ray $\mu$ CT images. <i>Engineering Fracture Mechanics</i> , 2016, 168, 204-226.	4.3	88
45	Buckling analyses of metal cylindrical silos containing bulk solids during filling. <i>Particulate Science and Technology</i> , 2016, 34, 461-469.	2.1	2
46	Comparison of continuous and discontinuous constitutive models to simulate concrete behaviour under mixed-mode failure conditions. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2016, 40, 406-435.	3.3	26
47	A coupled constitutive model for fracture in plain concrete based on continuum theory with non-local softening and eXtended Finite Element Method. <i>Finite Elements in Analysis and Design</i> , 2016, 114, 1-21.	3.2	26
48	Stability analyses of a cylindrical steel silo with corrugated sheets and columns. <i>Steel and Composite Structures</i> , 2016, 20, 147-166.	1.3	11
49	Modelling of concrete behaviour in uniaxial compression and tension with DEM. <i>Granular Matter</i> , 2015, 17, 145-164.	2.2	132
50	Critical assessment of Eurocode approach to stability of metal cylindrical silos with corrugated walls and vertical stiffeners. <i>Thin-Walled Structures</i> , 2015, 95, 335-346.	5.3	19
51	Field investigations of stack ventilation in a residential building with multiple chimneys and tilted window in cold climate. <i>Energy and Buildings</i> , 2015, 103, 48-61.	6.7	18
52	DEM analysis of micro-structural events within granular shear zones under passive earth pressure conditions. <i>Granular Matter</i> , 2015, 17, 325-343.	2.2	32
53	Simulation of buckling process of cylindrical metal silos with flat sheets containing bulk solids. <i>Thin-Walled Structures</i> , 2015, 93, 122-136.	5.3	17
54	FE investigations of the effect of fluctuating local tensile strength on coupled energetic-statistical size effect in concrete beams. <i>Engineering Structures</i> , 2015, 103, 239-259.	5.3	30

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55	Modelling of concrete fracture at aggregate level using FEM and DEM based on X-ray $\hat{1}/4$ CT images of internal structure. <i>Engineering Fracture Mechanics</i> , 2015, 147, 13-35.	4.3	145
56	Stability of cylindrical steel silos composed of corrugated sheets and columns based on FE analyses versus Eurocode 3 approach. <i>Engineering Failure Analysis</i> , 2015, 57, 444-469.	4.0	20
57	Effect of bulk solid on strength of cylindrical corrugated silos during filling. <i>Journal of Constructional Steel Research</i> , 2015, 115, 1-17.	3.9	17
58	Computational simulations of concrete behaviour under dynamic conditions using elasto-visco-plastic model with non-local softening. <i>Computers and Concrete</i> , 2015, 15, 515-545.	0.7	15
59	Discrete Modelling of Micro-structural Phenomena in Granular Shear Zones. <i>Springer Series in Geomechanics and Geoengineering</i> , 2015, , 7-12.	0.1	1
60	Experimental investigations of size effect in reinforced concrete beams failing by shear. <i>Engineering Structures</i> , 2014, 58, 63-78.	5.3	77
61	Application of inserts for suppression of coupled dynamic acoustic effects during confined granular flow in silos. <i>Advanced Powder Technology</i> , 2014, 25, 398-407.	4.1	5
62	Dynamic FE simulations of buckling process in thin-walled cylindrical metal silos. <i>Thin-Walled Structures</i> , 2014, 84, 344-359.	5.3	32
63	Discrete simulations of a triaxial compression test for sand by DEM. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2014, 38, 1923-1952.	3.3	82
64	FE analysis of size effects in reinforced concrete beams without shear reinforcement based on stochastic elasto-plasticity with non-local softening. <i>Finite Elements in Analysis and Design</i> , 2014, 88, 25-41.	3.2	31
65	Evaluation of strength, deformability and failure mode of composite structural insulated panels. <i>Materials &amp; Design</i> , 2014, 54, 1068-1082.	5.1	39
66	An elasto-plastic constitutive model with non-local softening and viscosity to describe dynamic concrete behaviour. , 2014, , 127-137.		1
67	Discrete modeling of micro-structure evolution during concrete fracture using DEM. , 2014, , 345-354.		3
68	Discrete modelling results of a direct shear test for granular materials versus FE results. <i>Granular Matter</i> , 2013, 15, 607-627.	2.2	71
69	Application of DIC Technique to Concrete Study on Objectivity of Measured Surface Displacements. <i>Experimental Mechanics</i> , 2013, 53, 1545-1559.	2.0	72
70	Mesoscopic Modelling of Strain Localization in Plain Concrete. <i>Springer Series in Geomechanics and Geoengineering</i> , 2013, , 343-405.	0.1	1
71	FE calculations of a deterministic and statistical size effect in concrete under bending within stochastic elasto-plasticity and non-local softening. <i>Engineering Structures</i> , 2013, 48, 205-219.	5.3	41
72	Continuous Approach to Concrete. <i>Springer Series in Geomechanics and Geoengineering</i> , 2013, , 49-93.	0.1	0

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73	Modelling the effect of material composition on the tensile properties of concrete. , 2013, , 52-97.		4
74	FE Simulations Based on Enhanced Elasto-Plasticity. Springer Series in Geomechanics and Geoengineering, 2013, , 307-389.	0.1	0
75	Experimental Investigations of Fracture Process Using DIC in Plain and Reinforced Concrete Beams under Bending. Strain, 2013, 49, 521-543.	2.4	59
76	Comparative buckling analysis of cylindrical steel silos with flat or corrugated sheets. , 2013, , 235-238.		2
77	Computational modelling of concrete behaviour under static and dynamic conditions. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2013, 61, 85-96.	0.8	3
78	Study of some micro-structural phenomena in granular shear zones. , 2013, , .		1
79	Large Scale Silo Tests. Springer Series in Geomechanics and Geoengineering, 2013, , 255-306.	0.1	1
80	Simulations of Flow Pattern with Cellular Automaton. Springer Series in Geomechanics and Geoengineering, 2013, , 455-492.	0.1	3
81	Continuous and Discontinuous Modelling of Fracture in Concrete Using FEM. Springer Series in Geomechanics and Geoengineering, 2013, , .	0.1	24
82	Modelling reinforced concrete beams under mixed shear-tension failure with different continuous FE approaches. Computers and Concrete, 2013, 12, 585-612.	0.7	12
83	Modelling of Fracture in Reinforced Concrete under Monotonic Loading. Springer Series in Geomechanics and Geoengineering, 2013, , 183-296.	0.1	0
84	Literature Overview. Springer Series in Geomechanics and Geoengineering, 2013, , 5-23.	0.1	1
85	Deterministic and Statistical Size Effect in Plain Concrete. Springer Series in Geomechanics and Geoengineering, 2013, , 297-341.	0.1	0
86	Model Silo Tests. Springer Series in Geomechanics and Geoengineering, 2013, , 121-253.	0.1	0
87	Continuum Models to Bulks Solids. Springer Series in Geomechanics and Geoengineering, 2013, , 85-119.	0.1	0
88	FE Analyses Based on Enhanced Hypoplasticity. Springer Series in Geomechanics and Geoengineering, 2013, , 391-453.	0.1	0
89	Application of Extended Finite Element Method to Cracked Concrete Elements – Numerical Aspects. Archives of Civil Engineering, 2012, 58, 409-431.	0.7	3
90	Numerical Mesoscopic Analysis of Fracture in Fine-Grained Concrete. Archives of Civil Engineering, 2012, 58, 331-361.	0.7	1

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91	Experimental Study on Shear Localisation in Granular Materials Within Combined Strain and Stress Field. <i>Strain</i> , 2012, 48, 430-444.	2.4	11
92	Effect of grain roughness on strength, volume changes, elastic and dissipated energies during quasi-static homogeneous triaxial compression using DEM. <i>Granular Matter</i> , 2012, 14, 457-468.	2.2	66
93	Confined granular flow in silos with inserts – Full-scale experiments. <i>Powder Technology</i> , 2012, 222, 15-36.	4.2	44
94	Effect of grain crushing on shear localization in granular bodies during plane strain compression. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2012, 36, 1909-1931.	3.3	11
95	Determination of representative volume element in concrete under tensile deformation. <i>Computers and Concrete</i> , 2012, 9, 35-50.	0.7	16
96	A Two-Scale Numerical Approach to Granular Systems / Wybrane Problemy Szacowania Prawdopodobienstwa Zawodu W Sytuacji Pozaru. <i>Archives of Civil Engineering</i> , 2011, 57, 313-330.	0.7	4
97	Measurements and Calculations of the Width of the Fracture Process Zones on the Surface of Notched Concrete Beams. <i>Strain</i> , 2011, 47, e319.	2.4	83
98	Experimental Analysis of Shear Zone Patterns in Cohesionless for Earth Pressure Problems Using Particle Image Velocimetry. <i>Strain</i> , 2011, 47, 218-231.	2.4	54
99	Failure of cylindrical steel silos composed of corrugated sheets and columns and repair methods using a sensitivity analysis. <i>Engineering Failure Analysis</i> , 2011, 18, 2064-2083.	4.0	31
100	FE analysis of reinforced concrete corbels with enhanced continuum models. <i>Finite Elements in Analysis and Design</i> , 2011, 47, 1066-1078.	3.2	30
101	Modeling of bearing capacity of footings on sand within stochastic micro-polar hypoplasticity. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2011, 35, 226-243.	3.3	9
102	Discrete simulations of shear zone patterning in sand in earth pressure problems of a retaining wall. <i>International Journal of Solids and Structures</i> , 2011, 48, 1191-1209.	2.7	68
103	Quantitative estimation of volume changes of granular materials during silo flow using X-ray tomography. <i>Chemical Engineering and Processing: Process Intensification</i> , 2011, 50, 59-67.	3.6	33
104	3D buckling analysis of a cylindrical metal bin composed of corrugated sheets strengthened by vertical stiffeners. <i>Thin-Walled Structures</i> , 2011, 49, 947-963.	5.3	24
105	FE Investigations of Dynamic Shear Localization in Granular Bodies within Non-local Hypoplasticity Using ALE Formulation. <i>Springer Series in Geomechanics and Geoengineering</i> , 2011, , 229-250.	0.1	1
106	Application of ECT to solid concentration measurements during granular flow in a rectangular model silo. <i>Chemical Engineering Research and Design</i> , 2010, 88, 1037-1048.	5.6	19
107	Experimental and theoretical investigations of silo mixing. <i>Powder Technology</i> , 2010, 198, 38-48.	4.2	38
108	FE-investigations of micro-polar boundary conditions along interface between soil and structure. <i>Granular Matter</i> , 2010, 12, 399-410.	2.2	18

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109	Finite element study of patterns of shear zones in granular bodies during plane strain compression. <i>Acta Geotechnica</i> , 2010, 5, 95-112.	5.7	25
110	Boundary effects on behaviour of granular material during plane strain compression. <i>European Journal of Mechanics, A/Solids</i> , 2010, 29, 18-27.	3.7	12
111	Calculations of fracture process zones on meso-scale in notched concrete beams subjected to three-point bending. <i>European Journal of Mechanics, A/Solids</i> , 2010, 29, 746-760.	3.7	93
112	Comparative Modeling of Shear Localization in Granular Bodies with FEM and DEM. , 2010, , .		0
113	Finite element investigations of granular material behaviour during cyclic wall shearing under a constant normal stiffness condition. <i>Canadian Geotechnical Journal</i> , 2010, 47, 985-998.	2.8	2
114	Investigations of Shear Localization during Granular Silo Flow with Non-Local Hypoplastic Constitutive Model. , 2009, , .		0
115	FE-Studies of Different Aspects of Shear Localization in Granular Bodies within Micro-Polar Hypoplasticity. , 2009, , .		7
116	Non-coaxiality and stress-dilatancy rule in granular materials: FE investigation within micro-polar hypoplasticity. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2009, 33, 117-142.	3.3	41
117	FE-investigation of shear localization in granular bodies under high shear rate. <i>Granular Matter</i> , 2009, 11, 115-128.	2.2	21
118	Determination of bulk solid concentration changes during granular flow in a model silo with ECT sensors. <i>Chemical Engineering Science</i> , 2009, 64, 20-30.	3.8	45
119	Modeling of shear localization during confined granular flow in silos within non-local hypoplasticity. <i>Powder Technology</i> , 2009, 192, 298-310.	4.2	70
120	FE-modeling of shear resistance degradation in granular materials during cyclic shearing under CNS condition. <i>Computers and Geotechnics</i> , 2009, 36, 249-263.	4.7	7
121	Comparison of physical performances of the ventilation systems in low-energy residential houses. <i>Energy and Buildings</i> , 2009, 41, 337-353.	6.7	49
122	Dynamic and tomography analysis of granular flow in cylindrical shell. , 2009, , 203-206.		0
123	FE-calculations of stress distribution under prismatic and conical sandpiles within hypoplasticity. <i>Granular Matter</i> , 2008, 10, 399-405.	2.2	16
124	Modelling of fracture process in concrete using a novel lattice model. <i>Granular Matter</i> , 2008, 10, 377-388.	2.2	56
125	Deterministic and statistical size effect during shearing of granular layer within a micro-polar hypoplasticity. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2008, 32, 81-107.	3.3	22
126	Silo music – Mechanism of dynamic flow and structure interaction. <i>Powder Technology</i> , 2008, 186, 113-129.	4.2	46



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127	FE analysis of failure behaviour of reinforced concrete columns under eccentric compression. <i>Engineering Structures</i> , 2008, 30, 300-317.	5.3	64
128	Computations of size effects in granular bodies within micro-polar hypoplasticity during plane strain compression. <i>International Journal of Solids and Structures</i> , 2008, 45, 1546-1569.	2.7	36
129	Theoretical Model. <i>Springer Series in Geomechanics and Geoengineering</i> , 2008, , 47-85.	0.1	0
130	Finite Element Calculations: Advanced Results. <i>Springer Series in Geomechanics and Geoengineering</i> , 2008, , 213-311.	0.1	0
131	Literature Overview on Experiments. <i>Springer Series in Geomechanics and Geoengineering</i> , 2008, , 11-46.	0.1	0
132	Finite Element Calculations: Preliminary Results. <i>Springer Series in Geomechanics and Geoengineering</i> , 2008, , 87-211.	0.1	0
133	FE-investigations of granular flow in silos using an uncoupled ALE-formulation and a non-local hypoplastic model. , 2007, , .		0
134	Modeling of textural anisotropy in granular materials with stochastic micro-polar hypoplasticity. <i>International Journal of Non-Linear Mechanics</i> , 2007, 42, 882-894.	2.6	31
135	Effect of a characteristic length on crack spacing in a reinforced concrete bar under tension. <i>Mechanics Research Communications</i> , 2007, 34, 460-465.	1.8	14
136	Application of particle image velocimetry (PIV) for deformation measurement during granular silo flow. <i>Powder Technology</i> , 2007, 173, 1-18.	4.2	93
137	Investigations of Porosity Changes during Granular Silo Flow Using Electrical Capacitance Tomography (ECT) and Particle Image Velocimetry (PIV). <i>Particle and Particle Systems Characterization</i> , 2007, 24, 304-312.	2.3	7
138	Effect of fabric anisotropy on shear localization in sand during plane strain compression. <i>Acta Mechanica</i> , 2007, 189, 23-51.	2.1	32
139	FE-investigations of a deterministic and statistical size effect in granular bodies within a micro-polar hypoplasticity. <i>Granular Matter</i> , 2007, 9, 439-453.	2.2	2
140	Influence of initial density of cohesionless soil on evolution of passive earth pressure. <i>Acta Geotechnica</i> , 2007, 2, 53-63.	5.7	24
141	Investigations of size effects in granular bodies during plane strain compression. <i>World Scientific Lecture Notes in Complex Systems</i> , 2007, , 111-139.	0.1	1
142	Simulations of spacing of localized zones in reinforced concrete beams using elasto-plasticity and damage mechanics with non-local softening. <i>Computers and Concrete</i> , 2007, 4, 377-402.	0.7	29
143	A Rational Approach to Stress-Dilatancy Modelling Using an Explicit Micromechanical Formulation. , 2007, , 319-340.		0
144	Shear Zone Formation in 2D Random Granular Specimens within Enhanced Hypoplasticity. , 2007, , 173-199.		0

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145	Effect of fluctuation of current void ratio on the shear zone formation in granular bodies within micro-polar hypoplasticity. <i>Computers and Geotechnics</i> , 2006, 33, 29-46.	4.7	31
146	FE-studies on Shear Localization in an Anisotropic Micro-polar Hypoplastic Granular Material. <i>Granular Matter</i> , 2006, 8, 205-220.	2.2	38
147	FE Analysis of Contractant Shear Zones in Loose Granular Materials. <i>Granular Matter</i> , 2006, 9, 49-67.	2.2	9
148	Micro-Polar Effects under Monotonic and Cyclic Shearing. <i>Springer Proceedings in Physics</i> , 2006, , 193-207.	0.2	4
149	Fe-simulations of a direct and a true simple shear test within a polar hypoplasticity. <i>Computers and Geotechnics</i> , 2005, 32, 1-16.	4.7	36
150	Application of a cellular automaton to simulations of granular flow in silos. <i>Granular Matter</i> , 2005, 7, 45-54.	2.2	43
151	Modeling of a cyclic plane strain compression-extension test in granular bodies within a polar hypoplasticity. <i>Granular Matter</i> , 2005, 7, 227-242.	2.2	9
152	FE Analysis of Shearing of Granular Bodies in a Direct Shear Box. <i>Particulate Science and Technology</i> , 2005, 23, 229-248.	2.1	6
153	FE-Simulations of a Direct Wall Shear Box Test. <i>Soils and Foundations</i> , 2004, 44, 67-81.	3.1	15
154	Effect of cyclic shearing on shear localisation in granular bodies. <i>Granular Matter</i> , 2004, 5, 201-212.	2.2	23
155	Influence of a characteristic length on shear zone formation in hypoplasticity with different enhancements. <i>Computers and Geotechnics</i> , 2004, 31, 595-611.	4.7	67
156	Comparative FE-studies of shear localizations in granular bodies within a polar and non-local hypoplasticity. <i>Mechanics Research Communications</i> , 2004, 31, 341-354.	1.8	16
157	Numerical simulations of localization of deformation in quasi-brittle materials within non-local softening plasticity. <i>Computers and Concrete</i> , 2004, 1, 433-455.	0.7	32
158	Modelling of Shear Zones in Granular Materials within Hypoplasticity. <i>Lecture Notes in Computer Science</i> , 2004, , 340-347.	1.3	0
159	Effect of Heterogeneity on Formation of Shear Zones in Granular Bodies. <i>Lecture Notes in Computer Science</i> , 2004, , 626-629.	1.3	0
160	FE-studies on formation of shear zones in granular bodies within a polar hypoplasticity. , 2003, , .		1
161	Patterns of shear zones in granular bodies within a polar hypoplastic continuum. <i>Acta Mechanica</i> , 2002, 155, 71-94.	2.1	40
162	Effects of Wall Inclinations and Wall Imperfections on Pressures during Granular Flow in Silos. <i>KONA Powder and Particle Journal</i> , 2002, 20, 125-132.	1.7	6

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163	FE-studies on rapid flow of bulk solids in silos. Granular Matter, 2001, 3, 215-230.	2.2	17
164	Shearing of a narrow granular layer with polar quantities. International Journal for Numerical and Analytical Methods in Geomechanics, 2001, 25, 1-28.	3.3	92
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