

Dichuan Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

614
citations

623574

14
h-index

677027

22
g-index

65
all docs

65
docs citations

65
times ranked

422
citing authors

#	ARTICLE	IF	CITATIONS
1	Preliminary results of the shake-table testing for the development of a diaphragm seismic design methodology. <i>PCI Journal</i> , 2009, 54, 100-124.	0.4	58
2	Can Common Reed Fiber Become an Effective Construction Material? Physical, Mechanical, and Thermal Properties of Mortar Mixture Containing Common Reed Fiber. <i>Sustainability</i> , 2019, 11, 903.	1.6	39
3	Development of lightweight strain hardening cementitious composite for structural retrofit and energy efficiency improvement of unreinforced masonry housings. <i>Construction and Building Materials</i> , 2018, 167, 791-812.	3.2	32
4	Sudden Event Monitoring of Civil Infrastructure Using Demand-Based Wireless Smart Sensors. <i>Sensors</i> , 2018, 18, 4480.	2.1	32
5	Development of deformable connection for earthquake-resistant buildings to reduce floor accelerations and force responses. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 1473-1494.	2.5	30
6	Integrated Analytical and Experimental Research to Develop a New Seismic Design Methodology for Precast Concrete Diaphragms. <i>Journal of Structural Engineering</i> , 2013, 139, 1192-1204.	1.7	27
7	Dual potential capacity model for reinforced concrete short and deep beams subjected to shear. <i>Structural Concrete</i> , 2018, 19, 76-85.	1.5	26
8	Shake-table test performance of an inertial force-limiting floor anchorage system. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 1987-2011.	2.5	22
9	Evaluating feasibility of modified drilling waste materials in flexible base course construction. <i>Construction and Building Materials</i> , 2016, 116, 79-86.	3.2	21
10	Performance-based model to predict thermal conductivity of non-autoclaved aerated concrete through linearization approach. <i>Construction and Building Materials</i> , 2019, 196, 555-563.	3.2	21
11	Extension of a basic hypoplastic model for overconsolidated clays. <i>Computers and Geotechnics</i> , 2020, 123, 103486.	2.3	21
12	A coupled connector element for nonlinear static pushover analysis of precast concrete diaphragms. <i>Engineering Structures</i> , 2015, 86, 58-71.	2.6	20
13	Establishment of performance-based seismic design factors for precast concrete floor diaphragms. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 675-698.	2.5	18
14	Emerging trends in the growth of structural systems for tall buildings. <i>Journal of Structural Integrity and Maintenance</i> , 2020, 5, 155-170.	0.7	17
15	Experimental Evaluation of Pretopped Precast Diaphragm Critical Flexure Joint under Seismic Demands. <i>Journal of Structural Engineering</i> , 2011, 137, 1063-1074.	1.7	14
16	Autonomous end-to-end wireless monitoring system for railroad bridges. <i>Advances in Bridge Engineering</i> , 2020, 1, .	0.8	14
17	Work-energy analysis of granular assemblies validates and calibrates a constitutive model. <i>Granular Matter</i> , 2020, 22, 1.	1.1	14
18	Assessment of Reactive powder concrete subjected to three different sodium sulfate Concentrations: Compressive Strength, Absorption, Porosity, Microstructure, and durability. <i>Construction and Building Materials</i> , 2022, 325, 126804.	3.2	14

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19	Optimization of Polymer Extrusion Die Based on Response Surface Method. <i>Processes</i> , 2020, 8, 1043.	1.3	13
20	Effect of Spandrel Beam to Double Tee Connection Characteristic on Flexure-Controlled Precast Diaphragms. <i>Journal of Structural Engineering</i> , 2012, 138, 247-257.	1.7	10
21	Development of diaphragm connector elements for three-dimensional nonlinear dynamic analysis of precast concrete structures. <i>Advances in Structural Engineering</i> , 2016, 19, 187-202.	1.2	10
22	Precast Diaphragm Response in Half-Scale Shake Table Test. <i>Journal of Structural Engineering</i> , 2019, 145, .	1.7	10
23	Frost Resistance Number to Assess Freeze and Thaw Resistance of Non-Autoclaved Aerated Concretes Containing Ground Granulated Blast-Furnace Slag and Micro-Silica. <i>Materials</i> , 2019, 12, 4151.	1.3	8
24	Proportioning and Characterization of Reactive Powder Concrete for an Energy Storage Pile Application. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2507.	1.3	7
25	Structural Responses of Reinforced Concrete Pile Foundations Subjected to Pressures from Compressed Air for Renewable Energy Storage. <i>International Journal of Concrete Structures and Materials</i> , 2018, 12, .	1.4	7
26	Shear strength model of reinforced concrete beams without stirrup used in the CIS countries. <i>Journal of Structural Integrity and Maintenance</i> , 2019, 4, 15-25.	0.7	7
27	Shear Rate Coat-Hanger Die Using Casson Viscosity Model. <i>Processes</i> , 2020, 8, 1524.	1.3	7
28	Use of Off-ASTM Class F Fly Ash and Waste Limestone Powder in Mortar Mixtures Containing Waste Glass Sand. <i>Sustainability</i> , 2022, 14, 75.	1.6	7
29	Shear crack concentration in reinforced concrete beams subjected to shear and flexure. <i>Advances in Structural Engineering</i> , 2020, 23, 2305-2317.	1.2	6
30	A Multi-Rheology Design Method of Sheeting Polymer Extrusion Dies Based on Flow Network and the Winter's-Fritz Design Equation. <i>Polymers</i> , 2021, 13, 1924.	2.0	6
31	Evaluation of Non-Autoclaved Aerated Concrete for Energy Behaviors of a Residential House in Nur-Sultan, Kazakhstan. <i>Buildings</i> , 2021, 11, 610.	1.4	6
32	Inertial Force-Limiting Anchorage System for Seismic Resistant Building Structures. , 2015, , .		5
33	Estimation of Minimum Torsional Reinforcement of Reinforced Concrete and Steel Fiber-Reinforced Concrete Members. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-10.	1.0	5
34	Preliminary analytical study on the feasibility of using reinforced concrete pile foundations for renewable energy storage by compressed air energy storage technology. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 271, 012023.	0.3	4
35	Soil Responses to Monotonic and Cyclic Lateral Displacement of a Buried Pipe. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2019, 10, .	0.9	4
36	Shear strength model for prestressed concrete beams with steel fibres failed in shear. <i>Magazine of Concrete Research</i> , 2021, 73, 731-742.	0.9	4

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37	Potential of limestone powder to improve the stabilization of sulfate-contained saline soil. IOP Conference Series: Materials Science and Engineering, 2021, 1040, 012016.	0.3	4
38	An Iterative Approach for the Parameter Estimation of Shear-Rate and Temperature-Dependent Rheological Models for Polymeric Liquids. Polymers, 2021, 13, 4185.	2.0	4
39	Cyclic LN2 Treatment of Coal Samples from Coal Basin in Kazakhstan. , 2022, , .		4
40	Numerical Simulation of a CAES Pile with Hypoplasticity. Springer Series in Geomechanics and Geoengineering, 2019, , 242-249.	0.0	3
41	Temperature Distributions inside Concrete Sections of Renewable Energy Storage Pile Foundations. Applied Sciences (Switzerland), 2019, 9, 4776.	1.3	3
42	Numerical Modeling of Thermal Flows in Entrance Channels for Polymer Extrusion: A Parametric Study. Processes, 2020, 8, 1256.	1.3	3
43	Structural responses of energy storage pile foundations under thermal-mechanical loadings. Journal of Building Engineering, 2022, 45, 103539.	1.6	3
44	Preliminary analytical study on seismic ductility demand of wood diaphragms. Advances in Structural Engineering, 2016, 19, 104-115.	1.2	2
45	Preliminary Experimental Investigation on the Strength and Air Permeability of Reactive Powder Concrete. Materials Science Forum, 0, 917, 321-328.	0.3	2
46	Group Pile Effect on Temperature Distributions inside Energy Storage Pile Foundations. Applied Sciences (Switzerland), 2020, 10, 6597.	1.3	2
47	Design and Optimization of Die Body for Polymer Extrusion. Key Engineering Materials, 0, 841, 387-392.	0.4	2
48	3D FEM Study of the Flow Uniformity of Flat Polypropylene Film/Sheet Extrusion Dies. Key Engineering Materials, 0, 841, 375-380.	0.4	2
49	Effect of Aggregate Packing on Strength of Reactive Powder Concrete: Modeling and Experimental Evaluation. Materials Science Forum, 2020, 998, 299-304.	0.3	2
50	Nonlinear dynamical analysis of some microelectromechanical resonators with internal damping. Acta Mechanica Sinica/Lixue Xuebao, 2021, 37, 1457-1466.	1.5	2
51	Characterization of Mellowing Process to Control Expansion in High-Sulfate-Bearing Soil. Transportation Research Record, 2022, 2676, 355-364.	1.0	2
52	Torsional design method used in Eurasia region: A comparative study. Structural Concrete, 0, , .	1.5	2
53	Experimental evaluation of seismic response for reinforced concrete beam-column knee joints with irregular geometries. Advances in Structural Engineering, 2016, 19, 1889-1901.	1.2	1
54	Properties of Non-Autoclaved Aerated Concrete with Quadruple Cementitious Mixture Using Response Surface Method. Materials Science Forum, 2018, 917, 337-341.	0.3	1

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55	Optimization of Compressive Strength of Reactive Powder Concrete for an Energy Storage Pile Application Using Response Surface Method. Materials Science Forum, 0, 950, 117-122.	0.3	1
56	Lumped-parameter model for dynamic monolayer graphene sheets. Journal of Sound and Vibration, 2022, 534, 117062.	2.1	1
57	Structural Analyses to Replicate the Observed Damage to Engineered Buildings from the January 2010 Haiti Earthquake. , 2011, , .		0
58	The Hypoplastic Model Expressed by Mean Stress and Deviatoric Stress Ratio. Springer Series in Geomechanics and Geoengineering, 2018, , 17-20.	0.0	0
59	Fluid flow in the coat-hanger die: Validation of the fluid velocity at the die outlet. Materials Today: Proceedings, 2020, 33, 1963-1966.	0.9	0
60	ANALYTICAL INVESTIGATION OF SEISMIC PERFORMANCE OF MASONRY WALLS STRENGTHENED WITH STRAIN HARDENING FIBER REINFORCED GEOPOLYMER MATRIX. , 2018, , .		0