Zhenhua Duan

List of Publications by Year
in descending order

212 papers	12,683 citations	22153 59 h-index	27406 106 g-index
213 all docs	213 docs citations	213 times ranked	4526 citing authors

#	Article	IF	Citations
1	Dynamic Damage Analysis of Recycled Aggregate Concrete Structures. Journal of Earthquake Engineering, 2022, 26, 6063-6081.	2.5	5
2	Earlyâ€age behavior and mechanical properties of cementâ€based materials with various types and fineness of recycled powder. Structural Concrete, 2022, 23, 1253-1272.	3.1	28
3	Strength index analysis of concrete with large size recycled aggregate based on back propagation neural network. Advances in Structural Engineering, 2022, 25, 133-145.	2.4	2
4	Mechanical behavior of seawater sea-sand recycled concrete columns confined by engineered cementitious composite under eccentric compression. Journal of Building Engineering, 2022, 45, 103497.	3.4	7
5	Bending behaviour of steel cable reinforced 3D printed concrete in the direction perpendicular to the interfaces. Cement and Concrete Composites, 2022, 125, 104313.	10.7	27
6	Rate sensitivity analysis of structural behaviors of recycled aggregate concrete frame. Journal of Building Engineering, 2022, 45, 103634.	3.4	11
7	Strategies to accelerate CO2 sequestration of cement-based materials and their application prospects. Construction and Building Materials, 2022, 314, 125646.	7.2	59
8	Behaviour and Strength Prediction of Reinforced Recycled Aggregate Concrete Columns Confined with CFRP Wraps. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2022, 46, 2777-2789.	1.9	4
9	Shear behavior of steel reinforced recycled aggregate concrete beams after exposure to elevated temperatures. Journal of Building Engineering, 2022, 48, 103953.	3.4	4
10	M&S highlight: Limbachiya, et al. (2000), Use of recycled aggregate in high-strength concrete. Materials and Structures/Materiaux Et Constructions, 2022, 55, 1.	3.1	17
11	Utilization of recycled powder from construction and demolition waste. , 2022, , 291-301.		1
12	Mechanical and macrostructural properties of 3D printed concrete dosed with steel fibers under different loading direction. Construction and Building Materials, 2022, 323, 126616.	7.2	47
13	Strength and microstructure of seawater and sea sand mortar after exposure to elevated temperatures. Construction and Building Materials, 2022, 322, 126451.	7.2	6
14	Influence of carbonation treatment on the properties of multiple interface transition zones and recycled aggregate concrete. Cement and Concrete Composites, 2022, 127, 104402.	10.7	41
15	Mechanical properties and uniaxial compressive stress-strain behavior of fully recycled aggregate concrete. Construction and Building Materials, 2022, 323, 126546.	7.2	94
16	Experimental study on the bond behaviour between steel bars and 3D printed concrete. Journal of Building Engineering, 2022, 49, 104105.	3.4	5
17	Effects of extrusion parameters on properties of 3D printing concrete with coarse aggregates. Construction and Building Materials, 2022, 325, 126740.	7.2	39
18	Experimental study on carbonation behavior of seawater sea sand recycled aggregate concrete. Advances in Structural Engineering, 2022, 25, 927-938.	2.4	12

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19	Fundamental behaviour of recycled aggregate concrete â€“ overview I: strength and deformation. Magazine of Concrete Research, 2022, 74, 999-1010.	2.0	16
20	Prospects for low-carbon design theory of concrete structures. Chinese Science Bulletin, 2022, 67, 3425-3438.	0.7	5
21	Accelerated Curing for Glass-Based Mortars Using Water at 80 Â°C. Materials, 2022, 15, 2109.	2.9	0
22	Automatic Ceiling Damage Detection in Large-Span Structures Based on Computer Vision and Deep Learning. Sustainability, 2022, 14, 3275.	3.2	11
23	Experimental and analytical studies of the dynamic behavior of particle dampers prepared with waste cementâ€based materials. Structural Concrete, 2022, 23, 4038-4057.	3.1	3
24	Mechanical Behavior of Concrete Prepared with Waste Marble Powder. Sustainability, 2022, 14, 4170.	3.2	4
25	Long-term shrinkage and mechanical properties of fully recycled aggregate concrete: Testing and modelling. Cement and Concrete Composites, 2022, 130, 104527.	10.7	81
26	Geopolymers made of recycled brick and concrete powder â€“ A critical review. Construction and Building Materials, 2022, 330, 127232.	7.2	49
27	The state-of-the-art study on durability of FRP reinforced concrete with seawater and sea sand. Journal of Building Engineering, 2022, 51, 104294.	3.4	12
28	Study on preparation and mechanical properties of 3D printed concrete with different aggregate combinations. Journal of Building Engineering, 2022, 51, 104282.	3.4	16
29	Effects of eco powders from solid waste on freeze-thaw resistance of mortar. Construction and Building Materials, 2022, 333, 127405.	7.2	13
30	Buildability prediction of 3Dâ€“printed concrete at early-ages: A numerical study with Druckerâ€“Prager model. Additive Manufacturing, 2022, 55, 102821.	3.0	6
31	Quantification of the Hardened Cement Paste Content in Fine Recycled Concrete Aggregates by Means of Salicylic Acid Dissolution. Materials, 2022, 15, 3384.	2.9	5
32	Developing recycled foamed concrete for engineered material arresting system. Journal of Building Engineering, 2022, 53, 104555.	3.4	6
33	Unloading and reloading stress-strain relationship of recycled aggregate concrete reinforced with steel/polypropylene fibers under uniaxial low-cycle loadings. Cement and Concrete Composites, 2022, 131, 104597.	10.7	65
34	Effects of printing paths and recycled fines on drying shrinkage of 3D printed mortar. Construction and Building Materials, 2022, 342, 128007.	7.2	11
35	Combined use of recycled concrete aggregate and glass cullet in mortar: Strength, alkali expansion and chemical compositions. Journal of Building Engineering, 2022, 55, 104721.	3.4	5
36	Effects of recycled aggregate combinations and recycled powder contents on fracture behavior of fully recycled aggregate concrete. Journal of Cleaner Production, 2022, 366, 132895.	9.3	48

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37	Performance and durability of self-compacting mortar with recycled sand from crushed brick. Journal of Building Engineering, 2022, 57, 104867.	3.4	4
38	Carbon emission analyses of concretes made with recycled materials considering <scp>CO₂</scp> uptake through carbonation absorption. Structural Concrete, 2021, 22, E58.	3.1	31
39	Optimizing mix proportion of recycled aggregate concrete by readjusting the aggregate gradation. Structural Concrete, 2021, 22, E22.	3.1	11
40	Investigation on the Seismic Damage of Recycled Aggregate Concrete Frame Structure. Journal of Earthquake Engineering, 2021, 25, 791-815.	2.5	16
41	Environmental and economic assessment on 3D printed buildings with recycled concrete. Journal of Cleaner Production, 2021, 278, 123884.	9.3	136
42	Experimental study on stress-strain curves of seawater sea-sand concrete under uniaxial compression with different strain rates. Advances in Structural Engineering, 2021, 24, 1124-1137.	2.4	10
43	Printability and advantages of 3D printing mortar with 100% recycled sand. Construction and Building Materials, 2021, 273, 121699.	7.2	55
44	Effect of moisture condition and brick content in recycled coarse aggregate on rheological properties of fresh concrete. Journal of Building Engineering, 2021, 35, 102075.	3.4	8
45	Finite element analysis on the anisotropic behavior of 3D printed concrete under compression and flexure. Additive Manufacturing, 2021, 39, 101712.	3.0	24
46	A review of 3D printed concrete: Performance requirements, testing measurements and mix design. Construction and Building Materials, 2021, 273, 121745.	7.2	122
47	Mechanical behaviors of GFRP tube confined recycled aggregate concrete with sea sand. Advances in Structural Engineering, 2021, 24, 1196-1207.	2.4	11
48	Reliability analysis of the residual moment capacity of highâ€strength concrete beams after elevated temperatures. Structural Concrete, 2021, 22, 1586-1599.	3.1	5
49	Rheological behavior and compressive strength of concrete made with recycled fine aggregate of different size range. Construction and Building Materials, 2021, 268, 121172.	7.2	49
50	Review of recent developments in cement composites reinforced with fibers and nanomaterials. Frontiers of Structural and Civil Engineering, 2021, 15, 1-19.	2.9	33
51	Study on nonlinear damping behavior of damaged recycled aggregate concrete beams. Structural Concrete, 2021, 22, 1429-1444.	3.1	4
52	Properties of Cementitious Materials with Recycled Aggregate and Powder Both from Clay Brick Waste. Buildings, 2021, 11, 119.	3.1	27
53	The damping property of damaged recycled aggregate concrete after loading. Journal of Building Engineering, 2021, 35, 102096.	3.4	3
54	Relationship between internal viscous damping and stiffness of concrete material and structure. Structural Concrete, 2021, 22, 1410-1428.	3.1	7

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55	Chloride transport and induced steel corrosion in recycled aggregate concrete: A review. Construction and Building Materials, 2021, 282, 122547.	7.2	78
56	Review of Optimization Dynamically Applied in the Construction and the Application Potential of ICT. Sustainability, 2021, 13, 5478.	3.2	6
57	Experimental study on the thermal performance of a 3D printed concrete prototype building. Energy and Buildings, 2021, 241, 110965.	6.7	30
58	Flexural properties of 3D printed fibre-reinforced concrete with recycled sand. Construction and Building Materials, 2021, 288, 123077.	7.2	51
59	Frequency-Dependent Damping Properties of Recycled Aggregate Concrete. Journal of Materials in Civil Engineering, 2021, 33, .	2.9	10
60	Quantification of plastic shrinkage and cracking in mortars containing different recycled powders using digital image correlation technique. Construction and Building Materials, 2021, 293, 123509.	7.2	17
61	Study on aggregate interlock behavior of pre-cracked recycled aggregate concrete without stirrups. Journal of Building Engineering, 2021, 39, 102257.	3.4	6
62	Time-dependent reliability analysis of recycled aggregate concrete cover cracking induced by reinforcement corrosion. Journal of Building Engineering, 2021, 39, 102320.	3.4	7
63	Compound utilization of construction and industrial waste as cementitious recycled powder in mortar. Resources, Conservation and Recycling, 2021, 170, 105561.	10.8	57
64	Strain rate effect on compressive stressâ€“strain curves of recycled aggregate concrete with seawater and sea sand. Construction and Building Materials, 2021, 300, 124014.	7.2	21
65	Large-scale 3D printing concrete technology: Current status and future opportunities. Cement and Concrete Composites, 2021, 122, 104115.	10.7	157
66	Influence of newâ€toâ€old concrete interface on the damping behavior of recycled aggregate concrete. Structural Concrete, 2021, 22, 3109-3122.	3.1	10
67	Fiber-reinforced mortar with 100% recycled fine aggregates: A cleaner perspective on 3D printing. Journal of Cleaner Production, 2021, 319, 128720.	9.3	42
68	Plastic shrinkage and cracking of 3D printed mortar with recycled sand. Construction and Building Materials, 2021, 302, 124405.	7.2	55
69	Time-dependent reliability analysis of recycled aggregate concrete beams. Journal of Building Engineering, 2021, 43, 102659.	3.4	7
70	Hysteretic energy and damping variation of recycled aggregate concrete with different cyclic compression loading levels. Journal of Building Engineering, 2021, 44, 102936.	3.4	3
71	Microstructural characterization of 3D printed concrete. Journal of Building Engineering, 2021, 44, 102948.	3.4	31
72	Properties and CO2-curing enhancement of cement-based materials containing various sources of waste hardened cement paste powder. Journal of Building Engineering, 2021, 44, 102677.	3.4	12

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73	Effect of recycled aggregate concrete on the seismic behavior of DfD beam-column joints under cyclic loading. Advances in Structural Engineering, 2021, 24, 1709-1723.	2.4	10
74	Fresh properties of 3D printed mortar with recycled powder. Construction and Building Materials, 2021, 309, 125186.	7.2	31
75	On rheology of mortar with recycled fine aggregate for 3D printing. Construction and Building Materials, 2021, 311, 125312.	7.2	31
76	Compressive behavior and microstructure of concrete mixed with natural seawater and sea sand. Frontiers of Structural and Civil Engineering, 2021, 15, 1347-1357.	2.9	8
77	Low-Carbon and Fundamental Properties of Eco-Efficient Mortar with Recycled Powders. Materials, 2021, 14, 7503.	2.9	9
78	A Conceptual Framework for Estimating Building Embodied Carbon Based on Digital Twin Technology and Life Cycle Assessment. Sustainability, 2021, 13, 13875.	3.2	25
79	Utilization of CO2 curing to enhance the properties of recycled aggregate and prepared concrete: A review. Cement and Concrete Composites, 2020, 105, 103446.	10.7	241
80	Structural health monitoring and performance analysis of a 12-story recycled aggregate concrete structure. Engineering Structures, 2020, 205, 110102.	5.3	39
81	Study on the essential properties of recycled powders from construction and demolition waste. Journal of Cleaner Production, 2020, 253, 119865.	9.3	121
82	Incorporating recycled aggregates in self-compacting concrete: a review. Journal of Sustainable Cement-Based Materials, 2020, 9, 165-189.	3.1	22
83	Utilization potential of aerated concrete block powder and clay brick powder from C&D waste. Construction and Building Materials, 2020, 238, 117721.	7.2	96
84	Rheological properties of mortar containing recycled powders from construction and demolition wastes. Construction and Building Materials, 2020, 237, 117622.	7.2	100
85	Chloride permeability of recycled aggregate concrete under the coupling effect of freezing-thawing, elevated temperature or mechanical damage. Construction and Building Materials, 2020, 237, 117648.	7.2	69
86	3D recycled mortar printing: System development, process design, material properties and on-site printing. Journal of Building Engineering, 2020, 32, 101779.	3.4	52
87	Anisotropic behavior in bending of 3D printed concrete reinforced with fibers. Composite Structures, 2020, 254, 112808.	5.8	118
88	Experimental study on crumb rubberised concrete (CRC) and reinforced CRC slabs under static and impact loads. Australian Journal of Structural Engineering, 2020, 21, 294-306.	1.1	11
89	Experimental study on mechanical behavior of thermally damaged grouted sleeve splice under cyclic loading. Structural Concrete, 2020, 21, 2494-2514.	3.1	13
90	Mechanical properties of recycled aggregate concrete under multiaxial compression. Advances in Structural Engineering, 2020, 23, 2529-2538.	2.4	10

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91	Utilization of waste concrete recycling materials in self-compacting concrete. Resources, Conservation and Recycling, 2020, 161, 104930.	10.8	80
92	Combined use of recycled powder and recycled coarse aggregate derived from construction and demolition waste in self-compacting concrete. Construction and Building Materials, 2020, 254, 119323.	7.2	120
93	Improvement on the properties of waste glass mortar with nanomaterials. Construction and Building Materials, 2020, 254, 118973.	7.2	13
94	Carbonation behavior of recycled concrete with CO2-curing recycled aggregate under various environments. Journal of CO2 Utilization, 2020, 39, 101185.	6.8	63
95	Time-dependent flexural capacity analysis of recycled aggregate concrete beams. Engineering Structures, 2020, 218, 110859.	5.3	13
96	Behaviour and Residual Strength Prediction of Recycled Aggregates Concrete Exposed to Elevated Temperatures. Arabian Journal for Science and Engineering, 2020, 45, 8241-8253.	3.0	18
97	Mechanical behavior of 3D printed mortar with recycled sand at early ages. Construction and Building Materials, 2020, 248, 118654.	7.2	96
98	Hardened properties of layered 3D printed concrete with recycled sand. Cement and Concrete Composites, 2020, 113, 103724.	10.7	146
99	Experimental Study of the Seismic Performance of Concrete Beam-Column Frame Joints with DfD Connections. Journal of Structural Engineering, 2020, 146, .	3.4	16
100	Effects of active waste powder obtained from C&D waste on the microproperties and water permeability of concrete. Journal of Cleaner Production, 2020, 257, 120518.	9.3	82
101	Life cycle assessment of concrete structures with reuse and recycling strategies: A novel framework and case study. Waste Management, 2020, 105, 268-278.	7.4	95
102	Nonlinear damping properties of recycled aggregate concrete short columns under cyclic uniaxial compression. Construction and Building Materials, 2020, 246, 118445.	7.2	12
103	Influence of recycled powder on chloride penetration resistance of green reactive powder concrete. Construction and Building Materials, 2020, 251, 119049.	7.2	22
104	Cyclic tests on composite plate shear wallsâ€"concrete encased before and after fire exposure. Advances in Structural Engineering, 2019, 22, 54-68.	2.4	6
105	Behaviors of recycled aggregate concrete-filled steel tubular columns under eccentric loadings. Frontiers of Structural and Civil Engineering, 2019, 13, 628-639.	2.9	30
106	Using Green Supplementary Materials to Achieve More Ductile ECC. Materials, 2019, 12, 858.	2.9	40
107	Numerical analysis of hysteretic behavior for RAC structure under earthquake loading. Journal of Asian Architecture and Building Engineering, 2019, 18, 285-297.	2.0	0
108	Deformation field and crack analyses of concrete using digital image correlation method. Frontiers of Structural and Civil Engineering, 2019, 13, 1183-1199.	2.9	24

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109	Fracture behavior of recycled aggregate concrete under three-point bending. Cement and Concrete Composites, 2019, 104, 103353.	10.7	49
110	Analytical model for critical corrosion level of reinforcements to cause the cracking of concrete cover. Construction and Building Materials, 2019, 223, 185-197.	7.2	20
111	Mechanical behavior of concrete using seawater and seaâ€sand with recycled coarse aggregates. Structural Concrete, 2019, 20, 1631-1643.	3.1	49
112	Nonlinear damping and nonlinear responses of recycled aggregate concrete frames under earthquake loading. Engineering Structures, 2019, 201, 109575.	5.3	30
113	Mechanical behaviour of seawater sea-sand recycled coarse aggregate concrete columns under axial compressive loading. Construction and Building Materials, 2019, 229, 117050.	7.2	44
114	Chloride permeability and the caused steel corrosion in the concrete with carbonated recycled aggregate. Construction and Building Materials, 2019, 218, 506-518.	7.2	109
115	Effects of an Applied Load on the Chloride Penetration of Concrete with Recycled Aggregates and Recycled Powder. Advances in Civil Engineering, 2019, 2019, 1-15.	0.7	8
116	A 3D Printed Ready-Mixed Concrete Power Distribution Substation: Materials and Construction Technology. Materials, 2019, 12, 1540.	2.9	73
117	Structural behavior of seawater sea-sand concrete shear wall reinforced with GFRP bars. Engineering Structures, 2019, 189, 458-470.	5.3	59
118	Current progress on nanotechnology application in recycled aggregate concrete. Journal of Sustainable Cement-Based Materials, 2019, 8, 79-96.	3.1	41
119	Punching shear behavior of recycled aggregate concrete slabs with and without steel fibres. Frontiers of Structural and Civil Engineering, 2019, 13, 725-740.	2.9	21
120	Effects of High Temperature and Cooling Pattern on the Chloride Permeability of Concrete. Advances in Civil Engineering, 2019, 2019, 1-13.	0.7	71
121	Material Modeling in the Dynamic Nonlinear Analysis for Recycled Aggregate Concrete Structures. Journal of Earthquake Engineering, 2019, 23, 837-862.	2.5	3
122	Probabilistic Analysis of Building Fire Severity Based on Fire Load Density Models. Fire Technology, 2019, 55, 1349-1375.	3.0	10
123	Effect of carbonation of modeled recycled coarse aggregate on the mechanical properties of modeled recycled aggregate concrete. Cement and Concrete Composites, 2018, 89, 169-180.	10.7	75
124	Experimental and numerical studies on design for deconstruction concrete connections: An overview. Advances in Structural Engineering, 2018, 21, 2198-2214.	2.4	19
125	Mechanical properties of concrete mixed with recycled powder produced from construction and demolition waste. Journal of Cleaner Production, 2018, 188, 720-731.	9.3	267
126	Prediction model of carbonation depth for recycled aggregate concrete. Cement and Concrete Composites, 2018, 88, 86-99.	10.7	64

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127	Three-scale stochastic homogenization of elastic recycled aggregate concrete based on nano-indentation digital images. Frontiers of Structural and Civil Engineering, 2018, 12, 461-473.	2.9	7
128	Variability of stress-strain relationship for recycled aggregate concrete under uniaxial compression loading. Journal of Cleaner Production, 2018, 181, 753-771.	9.3	123
129	Evaluation of the stress-strain behavior of confined recycled aggregate concrete under monotonic dynamic loadings. Cement and Concrete Composites, 2018, 87, 149-163.	10.7	47
130	Simulation study on the shear transfer behavior of recycled aggregate concrete. Structural Concrete, 2018, 19, 255-268.	3.1	16
131	Time-dependent reliability analysis on carbonation behavior of recycled aggregate concrete based on gamma process. Construction and Building Materials, 2018, 158, 378-388.	7.2	28
132	The effect of micro-structural uncertainties of recycled aggregate concrete on its global stochastic properties via finite pixel-element Monte Carlo simulation. Frontiers of Structural and Civil Engineering, 2018, 12, 474-489.	2.9	4
133	Effects of Imposed Damage on the Capillary Water Absorption of Recycled Aggregate Concrete. Advances in Materials Science and Engineering, 2018, 2018, 1-12.	1.8	17
134	Using Neural Networks to Determine the Significance of Aggregate Characteristics Affecting the Mechanical Properties of Recycled Aggregate Concrete. Applied Sciences (Switzerland), 2018, 8, 2171.	2.5	14
135	Carbonated recycled coarse aggregate and uniaxial compressive stress-strain relation of recycled aggregate concrete. Construction and Building Materials, 2018, 188, 956-965.	7.2	118
136	Feasibility of using ultra-high ductility cementitious composites for concrete structures without steel rebar. Engineering Structures, 2018, 170, 11-20.	5.3	128
137	A recycled aggregate concrete high-rise building: Structural performance and embodied carbon footprint. Journal of Cleaner Production, 2018, 199, 868-881.	9.3	147
138	Effect of recycled coarse aggregate to damping variation of concrete. Construction and Building Materials, 2018, 178, 445-452.	7.2	31
139	Fire Resistance and Post-fire Seismic Behavior of High Strength Concrete Shear Walls. Fire Technology, 2017, 53, 65-86.	3.0	15
140	Using artificial neural networks to assess the applicability of recycled aggregate classification by different specifications. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	3.1	15
141	Combined use of waste glass powder and cullet in architectural mortar. Cement and Concrete Composites, 2017, 82, 34-44.	10.7	102
142	Pore structure and chloride diffusivity of recycled aggregate concrete with nano-SiO2 and nano-TiO2. Construction and Building Materials, 2017, 150, 49-55.	7.2	133
143	Experimental study on behavior of mortar-aggregate interface after elevated temperatures. Frontiers of Structural and Civil Engineering, 2017, 11, 158-168.	2.9	12
144	Contact behavior between cracked surfaces of recycled aggregate concrete. Construction and Building Materials, 2017, 155, 1168-1178.	7.2	11

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145	Use of sea-sand and seawater in concrete construction: Current status and future opportunities. Construction and Building Materials, 2017, 155, 1101-1111.	7.2	513
146	Improving the performance of architectural mortar containing 100% recycled glass aggregates by using SCMs. Construction and Building Materials, 2017, 153, 975-985.	7.2	49
147	Effect of carbonated recycled coarse aggregate on the dynamic compressive behavior of recycled aggregate concrete. Construction and Building Materials, 2017, 151, 52-62.	7.2	119
148	Fresh properties of cement pastes or mortars incorporating waste glass powder and cullet. Construction and Building Materials, 2017, 131, 793-799.	7.2	73
149	Estimation and Minimization of Embodied Carbon of Buildings: A Review. Buildings, 2017, 7, 5.	3.1	114
150	Review of Research on the High Temperature Resistance of Concrete Structures in Chinese NPP. Journal of Advanced Concrete Technology, 2016, 14, 335-343.	1.8	4
151	Effect of Applied Loads on Water and Chloride Penetrations of Strain Hardening Cement-Based Composites. Journal of Materials in Civil Engineering, 2016, 28, .	2.9	13
152	Effect of strain rate on compressive behaviour of high-strength concrete after exposure to elevated temperatures. Fire Safety Journal, 2016, 83, 25-37.	3.1	55
153	Damage assessment for seismic response of recycled concrete filled steel tube columns. Earthquake Engineering and Engineering Vibration, 2016, 15, 607-616.	2.3	17
154	Seismic Analysis on Recycled Aggregate Concrete Frame Considering Strain Rate Effect. International Journal of Concrete Structures and Materials, 2016, 10, 307-323.	3.2	15
155	Influence of freeze-thaw cycles on properties of Integral Water Repellent Concrete. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 851-856.	1.0	12
156	Reliability Analysis for Flexural Capacity of Recycled Aggregate Concrete Beams. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2016, 26, 121-129.	0.8	12
157	A closed-loop life cycle assessment of recycled aggregate concrete utilization in China. Waste Management, 2016, 56, 367-375.	7.4	206
158	Dynamic compressive behavior of recycled aggregate concrete. Materials and Structures/Materiaux Et Constructions, 2016, 49, 4451-4462.	3.1	35
159	Effect of joint interface conditions on shear transfer behavior of recycled aggregate concrete. Construction and Building Materials, 2016, 105, 343-355.	7.2	43
160	The damping property of recycled aggregate concrete. Construction and Building Materials, 2016, 102, 834-842.	7.2	41
161	Interfacial properties of modeled recycled aggregate concrete modified by carbonation. Construction and Building Materials, 2016, 105, 307-320.	7.2	72
162	Evaluation of rebar corrosion in reinforced concrete under freeze-thaw environment and protection measures. Anti-Corrosion Methods and Materials, 2016, 63, 128-136.	1.5	14

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163	Polygonal loop model for hysteretic behaviour of frame structures with recycled aggregate concrete. European Journal of Environmental and Civil Engineering, 2016, 20, 1083-1105.	2.1	3
164	Reclamation chain of waste concrete: A case study of Shanghai. Waste Management, 2016, 48, 334-343.	7.4	102
165	Comparative investigation on nanomechanical properties of hardened cement paste. Materials and Structures/Materiaux Et Constructions, 2016, 49, 1591-1604.	3.1	42
166	Shake Table Test on Seismic Response of a Precast Frame with Recycled Aggregate Concrete. Advances in Structural Engineering, 2015, 18, 1517-1534.	2.4	14
167	Effect of Stress Amplitude on the Damping of Recycled Aggregate Concrete. Materials, 2015, 8, 5298-5312.	2.9	21
168	Structural Behaviour of Composite Members with Recycled Aggregate Concrete â€" An Overview. Advances in Structural Engineering, 2015, 18, 919-938.	2.4	51
169	Compressive behaviour of recycled aggregate concrete under impact loading. Cement and Concrete Research, 2015, 71, 46-55.	11.0	223
170	On creep characteristics of cement paste, mortar and recycled aggregate concrete. European Journal of Environmental and Civil Engineering, 2015, 19, 1234-1252.	2.1	16
171	Flexural behaviour of recycled aggregate concrete graded slabs. Structural Concrete, 2015, 16, 249-261.	3.1	21
172	Seismic Performance of Precast Recycled Concrete Frame Structure. ACI Structural Journal, 2015, 112, .	0.2	18
173	Restoring Force Model of a Cast-In-Situ Recycled Aggregate Concrete Frame. Advances in Structural Engineering, 2014, 17, 1443-1457.	2.4	4
174	Seismic Behavior of Recycled Aggregate Concrete Filled Steel and Glass Fiber Reinforced Plastic Tube Columns. Advances in Structural Engineering, 2014, 17, 693-707.	2.4	41
175	The state of the art regarding the longâ€term properties of recycled aggregate concrete. Structural Concrete, 2014, 15, 3-12.	3.1	64
176	Effect of old attached mortar on the creep of recycled aggregate concrete. Structural Concrete, 2014, 15, 169-178.	3.1	70
177	Empirical Models for Modulus of Elasticity of HSC Considering the Effect of In Situ Curing Conditions. Journal of Materials in Civil Engineering, 2014, 26, .	2.9	2
178	Test and prediction of chloride diffusion in recycled aggregate concrete. Science China Technological Sciences, 2014, 57, 2357-2370.	4.0	21
179	Properties of recycled aggregate concrete made with recycled aggregates with different amounts of old adhered mortars. Materials & Design, 2014, 58, 19-29.	5.1	381
180	Estimation of building-related construction and demolition waste in Shanghai. Waste Management, 2014, 34, 2327-2334.	7.4	192

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181	Shear transfer across a crack in high-strength concrete after elevated temperatures. Construction and Building Materials, 2014, 71, 472-483.	7.2	30
182	Factors affecting the properties of recycled concrete by using neural networks. Computers and Concrete, 2014, 14, 547-561.	0.7	10
183	Using artificial neural networks for predicting the elastic modulus of recycled aggregate concrete. Construction and Building Materials, 2013, 44, 524-532.	7.2	161
184	Research on recycled concrete and its utilization in building structures in China. Frontiers of Structural and Civil Engineering, 2013, 7, 215-226.	2.9	16
185	Experimental study on the compressive performance of new sandwich masonry walls. Frontiers of Structural and Civil Engineering, 2013, 7, 154-163.	2.9	1
186	Experimental study on the seismic performance of new sandwich masonry walls. Earthquake Engineering and Engineering Vibration, 2013, 12, 77-86.	2.3	2
187	Study of the seismic response of a recycled aggregate concrete frame structure. Earthquake Engineering and Engineering Vibration, 2013, 12, 669-680.	2.3	13
188	Properties of interfacial transition zones in recycled aggregate concrete tested by nanoindentation. Cement and Concrete Composites, 2013, 37, 276-292.	10.7	429
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