

# Jianzhuang Xiao

## List of Publications by Citations

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263  
papers

8,022  
citations

45  
h-index

82  
g-index

272  
ext. papers

10,751  
ext. citations

4.7  
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7.08  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 263 | Mechanical properties of recycled aggregate concrete under uniaxial loading. <i>Cement and Concrete Research</i> , <b>2005</b> , 35, 1187-1194                                  | 10.3 | 636       |
| 262 | An overview of study on recycled aggregate concrete in China (1996-2011). <i>Construction and Building Materials</i> , <b>2012</b> , 31, 364-383                                | 6.7  | 562       |
| 261 | Use of sea-sand and seawater in concrete construction: Current status and future opportunities. <i>Construction and Building Materials</i> , <b>2017</b> , 155, 1101-1111       | 6.7  | 289       |
| 260 | Properties of interfacial transition zones in recycled aggregate concrete tested by nanoindentation. <i>Cement and Concrete Composites</i> , <b>2013</b> , 37, 276-292          | 8.6  | 285       |
| 259 | Interfacial transition zones in recycled aggregate concrete with different mixing approaches. <i>Construction and Building Materials</i> , <b>2012</b> , 35, 1045-1055          | 6.7  | 208       |
| 258 | Bond behaviour between recycled aggregate concrete and steel rebars. <i>Construction and Building Materials</i> , <b>2007</b> , 21, 395-401                                     | 6.7  | 192       |
| 257 | Effects of interfacial transition zones on the stress-strain behavior of modeled recycled aggregate concrete. <i>Cement and Concrete Research</i> , <b>2013</b> , 52, 82-99     | 10.3 | 179       |
| 256 | Study on concrete at high temperature in China—an overview. <i>Fire Safety Journal</i> , <b>2004</b> , 39, 89-103   | 3.3  | 178       |
| 255 | On residual strength of high-performance concrete with and without polypropylene fibres at elevated temperatures. <i>Fire Safety Journal</i> , <b>2006</b> , 41, 115-121        | 3.3  | 170       |
| 254 | Compressive behaviour of recycled aggregate concrete under impact loading. <i>Cement and Concrete Research</i> , <b>2015</b> , 71, 46-55  | 10.3 | 155       |
| 253 | Seismic performance of frame structures with recycled aggregate concrete. <i>Engineering Structures</i> , <b>2006</b> , 28, 1-8   | 4.7  | 139       |
| 252 | Mechanical properties of confined recycled aggregate concrete under axial compression. <i>Construction and Building Materials</i> , <b>2012</b> , 26, 591-603                   | 6.7  | 131       |
| 251 | Recent studies on mechanical properties of recycled aggregate concrete in China—a review. <i>Science China Technological Sciences</i> , <b>2012</b> , 55, 1463-1480             | 3.5  | 129       |
| 250 | Estimation of building-related construction and demolition waste in Shanghai. <i>Waste Management</i> , <b>2014</b> , 34, 2327-34   | 8.6  | 127       |
| 249 | A closed-loop life cycle assessment of recycled aggregate concrete utilization in China. <i>Waste Management</i> , <b>2016</b> , 56, 367-75                                     | 8.6  | 123       |
| 248 | Mechanical properties of concrete mixed with recycled powder produced from construction and demolition waste. <i>Journal of Cleaner Production</i> , <b>2018</b> , 188, 720-731 | 10.3 | 119       |
| 247 | Experimental study on the failure mechanism of recycled concrete. <i>Cement and Concrete Research</i> , <b>2011</b> , 41, 1050-1057   | 10.3 | 112       |

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|-----|---|------|----|
| 246 | A review of life cycle assessment of recycled aggregate concrete. <i>Construction and Building Materials</i> , <b>2019</b> , 209, 115-125   | 6.7  | 91 |
| 245 | A recycled aggregate concrete high-rise building: Structural performance and embodied carbon footprint. <i>Journal of Cleaner Production</i> , <b>2018</b> , 199, 868-881                           | 10.3 | 84 |
| 244 | Fatigue behavior of recycled aggregate concrete under compression and bending cyclic loadings. <i>Construction and Building Materials</i> , <b>2013</b> , 38, 681-688                               | 6.7  | 80 |
| 243 | Long-term deformation behaviour of recycled aggregate concrete. <i>Construction and Building Materials</i> , <b>2015</b> , 100, 262-272   | 6.7  | 78 |
| 242 | Effect of carbonated recycled coarse aggregate on the dynamic compressive behavior of recycled aggregate concrete. <i>Construction and Building Materials</i> , <b>2017</b> , 151, 52-62            | 6.7  | 78 |
| 241 | Feasibility of using ultra-high ductility cementitious composites for concrete structures without steel rebar. <i>Engineering Structures</i> , <b>2018</b> , 170, 11-20                             | 4.7  | 77 |
| 240 | Failure processes of modeled recycled aggregate concrete under uniaxial compression. <i>Cement and Concrete Composites</i> , <b>2012</b> , 34, 1149-1158  | 8.6  | 75 |
| 239 | Variability of stress-strain relationship for recycled aggregate concrete under uniaxial compression loading. <i>Journal of Cleaner Production</i> , <b>2018</b> , 181, 753-771                     | 10.3 | 70 |
| 238 | Pore structure and chloride diffusivity of recycled aggregate concrete with nano-SiO <sub>2</sub> and nano-TiO <sub>2</sub> . <i>Construction and Building Materials</i> , <b>2017</b> , 150, 49-55 | 6.7  | 68 |
| 237 | Investigation on building waste and reclaim in Wenchuan earthquake disaster area. <i>Resources, Conservation and Recycling</i> , <b>2012</b> , 61, 109-117  | 11.9 | 67 |
| 236 | Estimation and Minimization of Embodied Carbon of Buildings: A Review. <i>Buildings</i> , <b>2017</b> , 7, 5  | 3.2  | 66 |
| 235 | Reclamation chain of waste concrete: A case study of Shanghai. <i>Waste Management</i> , <b>2016</b> , 48, 334-343  | 8.6  | 65 |
| 234 | Durability of Recycled Aggregate Concrete: An Overview. <i>Journal of Advanced Concrete Technology</i> , <b>2013</b> , 11, 347-359  | 2.3  | 65 |
| 233 | Seismic behavior of semi-precast column with recycled aggregate concrete. <i>Construction and Building Materials</i> , <b>2012</b> , 35, 988-1001   | 6.7  | 64 |
| 232 | FEM simulation of chloride diffusion in modeled recycled aggregate concrete. <i>Construction and Building Materials</i> , <b>2012</b> , 29, 12-23   | 6.7  | 62 |
| 231 | Shear transfer across a crack in recycled aggregate concrete. <i>Cement and Concrete Research</i> , <b>2012</b> , 42, 700-709   | 10.3 | 57 |
| 230 | Carbonated recycled coarse aggregate and uniaxial compressive stress-strain relation of recycled aggregate concrete. <i>Construction and Building Materials</i> , <b>2018</b> , 188, 956-965        | 6.7  | 57 |
| 229 | Hardened properties of layered 3D printed concrete with recycled sand. <i>Cement and Concrete Composites</i> , <b>2020</b> , 113, 103724  | 8.6  | 55 |

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|-----|--|------|----|
| 228 | On carbonation behavior of recycled aggregate concrete. <i>Science China Technological Sciences</i> , <b>2012</b> , 55, 2609-2616  | 3.5  | 55 |
| 227 | The state of the art regarding the long-term properties of recycled aggregate concrete. <i>Structural Concrete</i> , <b>2014</b> , 15, 3-12  | 2.6  | 51 |
| 226 | Environmental and economic assessment on 3D printed buildings with recycled concrete. <i>Journal of Cleaner Production</i> , <b>2021</b> , 278, 123884   | 10.3 | 50 |
| 225 | Simulation Study on the Stress Distribution in Modeled Recycled Aggregate Concrete under Uniaxial Compression. <i>Journal of Materials in Civil Engineering</i> , <b>2013</b> , 25, 504-518                      | 3    | 49 |
| 224 | Effect of carbonation of modeled recycled coarse aggregate on the mechanical properties of modeled recycled aggregate concrete. <i>Cement and Concrete Composites</i> , <b>2018</b> , 89, 169-180                | 8.6  | 48 |
| 223 | Residual compressive behaviour of pre-heated high-performance concrete with blast furnace slag. <i>Fire Safety Journal</i> , <b>2006</b> , 41, 91-98   | 3.3  | 48 |
| 222 | Anisotropic behavior in bending of 3D printed concrete reinforced with fibers. <i>Composite Structures</i> , <b>2020</b> , 254, 112808   | 5.3  | 48 |
| 221 | Interfacial properties of modeled recycled aggregate concrete modified by carbonation. <i>Construction and Building Materials</i> , <b>2016</b> , 105, 307-320   | 6.7  | 46 |
| 220 | Effect of old attached mortar on the creep of recycled aggregate concrete. <i>Structural Concrete</i> , <b>2014</b> , 15, 169-178  | 2.6  | 46 |
| 219 | Theoretical study on mechanical behavior of steel confined recycled aggregate concrete. <i>Journal of Constructional Steel Research</i> , <b>2012</b> , 76, 100-111  | 3.8  | 46 |
| 218 | Prediction model of carbonation depth for recycled aggregate concrete. <i>Cement and Concrete Composites</i> , <b>2018</b> , 88, 86-99   | 8.6  | 45 |
| 217 | Rheological properties of mortar containing recycled powders from construction and demolition wastes. <i>Construction and Building Materials</i> , <b>2020</b> , 237, 117622                                     | 6.7  | 44 |
| 216 | Study on the essential properties of recycled powders from construction and demolition waste. <i>Journal of Cleaner Production</i> , <b>2020</b> , 253, 119865   | 10.3 | 43 |
| 215 | Life cycle assessment of concrete structures with reuse and recycling strategies: A novel framework and case study. <i>Waste Management</i> , <b>2020</b> , 105, 268-278   | 8.6  | 42 |
| 214 | On Temperature Gradients in High-Performance Concrete Box Girder under Solar Radiation. <i>Advances in Structural Engineering</i> , <b>2012</b> , 15, 399-415  | 1.9  | 42 |
| 213 | Structural behavior of seawater sea-sand concrete shear wall reinforced with GFRP bars. <i>Engineering Structures</i> , <b>2019</b> , 189, 458-470   | 4.7  | 41 |
| 212 | A 3D Printed Ready-Mixed Concrete Power Distribution Substation: Materials and Construction Technology. <i>Materials</i> , <b>2019</b> , 12,   | 3.5  | 39 |
| 211 | Combined use of recycled powder and recycled coarse aggregate derived from construction and demolition waste in self-compacting concrete. <i>Construction and Building Materials</i> , <b>2020</b> , 254, 119323 | 6.7  | 39 |

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| 210 | Use of recycled concrete aggregates from precast block for the production of new building blocks: An industrial scale study. <i>Resources, Conservation and Recycling</i> , <b>2020</b> , 157, 104786 | 11.9 | 39 |
| 209 | Effect of strain rate on compressive behaviour of high-strength concrete after exposure to elevated temperatures. <i>Fire Safety Journal</i> , <b>2016</b> , 83, 25-37                                | 3.3  | 39 |
| 208 | Study on high-performance concrete at high temperatures in China (2004-2016) - An updated overview. <i>Fire Safety Journal</i> , <b>2018</b> , 95, 11-24  | 3.3  | 37 |
| 207 | Structural Behaviour of Composite Members with Recycled Aggregate Concrete – An Overview. <i>Advances in Structural Engineering</i> , <b>2015</b> , 18, 919-938                                       | 1.9  | 37 |
| 206 | Chloride transport and induced steel corrosion in recycled aggregate concrete: A review. <i>Construction and Building Materials</i> , <b>2021</b> , 282, 122547                                       | 6.7  | 37 |
| 205 | Mechanical behavior of 3D printed mortar with recycled sand at early ages. <i>Construction and Building Materials</i> , <b>2020</b> , 248, 118654   | 6.7  | 36 |
| 204 | Strain monitoring for a bending concrete beam by using piezoresistive cement-based sensors. <i>Construction and Building Materials</i> , <b>2018</b> , 167, 338-347                                   | 6.7  | 36 |
| 203 | The damping property of recycled aggregate concrete. <i>Construction and Building Materials</i> , <b>2016</b> , 102, 834-842  | 6.7  | 36 |
| 202 | Recycled Aggregate Concrete Structures. <i>Springer Tracts in Civil Engineering</i> , <b>2018</b> ,   | 0.4  | 35 |
| 201 | Multi-criteria selection of façade systems based on sustainability criteria. <i>Building and Environment</i> , <b>2017</b> , 121, 67-78   | 6.5  | 34 |
| 200 | Seismic Behavior of Recycled Aggregate Concrete Filled Steel and Glass Fiber Reinforced Plastic Tube Columns. <i>Advances in Structural Engineering</i> , <b>2014</b> , 17, 693-707                   | 1.9  | 34 |
| 199 | Comparative investigation on nanomechanical properties of hardened cement paste. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2016</b> , 49, 1591-1604                             | 3.4  | 33 |
| 198 | Utilization of waste concrete recycling materials in self-compacting concrete. <i>Resources, Conservation and Recycling</i> , <b>2020</b> , 161, 104930   | 11.9 | 33 |
| 197 | Utilization potential of aerated concrete block powder and clay brick powder from C&D waste. <i>Construction and Building Materials</i> , <b>2020</b> , 238, 117721                                   | 6.7  | 33 |
| 196 | A review of 3D printed concrete: Performance requirements, testing measurements and mix design. <i>Construction and Building Materials</i> , <b>2021</b> , 273, 121745                                | 6.7  | 33 |
| 195 | Beam test on bond behavior between high-grade rebar and high-strength concrete after elevated temperatures. <i>Fire Safety Journal</i> , <b>2014</b> , 69, 23-35                                      | 3.3  | 32 |
| 194 | 3D recycled mortar printing: System development, process design, material properties and on-site printing. <i>Journal of Building Engineering</i> , <b>2020</b> , 32, 101779                          | 5.2  | 31 |
| 193 | Large-scale 3D printing concrete technology: Current status and future opportunities. <i>Cement and Concrete Composites</i> , <b>2021</b> , 122, 104115   | 8.6  | 31 |

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| 192 | Feasibility study of strain hardening magnesium oxychloride cement-based composites. <i>Construction and Building Materials</i> , <b>2018</b> , 165, 750-760   | 6.7  | 30 |
| 191 | Effect of joint interface conditions on shear transfer behavior of recycled aggregate concrete. <i>Construction and Building Materials</i> , <b>2016</b> , 105, 343-355                                  | 6.7  | 30 |
| 190 | Energy implications of using steel-timber composite (STC) elements in buildings. <i>Energy and Buildings</i> , <b>2018</b> , 176, 203-215  | 7    | 30 |
| 189 | Residual compressive and flexural strength of a recycled aggregate concrete following elevated temperatures. <i>Structural Concrete</i> , <b>2013</b> , 14, 168-175                                      | 2.6  | 30 |
| 188 | Experimental study on mechanical behaviors of concrete with large-size recycled coarse aggregate. <i>Construction and Building Materials</i> , <b>2016</b> , 120, 321-328                                | 6.7  | 30 |
| 187 | Five-phase composite sphere model for chloride diffusivity prediction of recycled aggregate concrete. <i>Magazine of Concrete Research</i> , <b>2013</b> , 65, 573-588                                   | 2    | 28 |
| 186 | Current progress on nanotechnology application in recycled aggregate concrete. <i>Journal of Sustainable Cement-Based Materials</i> , <b>2019</b> , 8, 79-96   | 3.6  | 28 |
| 185 | Workability and mechanical properties of mortar containing recycled sand from aerated concrete blocks and sintered clay bricks. <i>Resources, Conservation and Recycling</i> , <b>2020</b> , 157, 104728 | 11.9 | 27 |
| 184 | Dynamic compressive behavior of recycled aggregate concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2016</b> , 49, 4451-4462  | 3.4  | 27 |
| 183 | Evaluation of the stress-strain behavior of confined recycled aggregate concrete under monotonic dynamic loadings. <i>Cement and Concrete Composites</i> , <b>2018</b> , 87, 149-163                     | 8.6  | 26 |
| 182 | Structural behavior of a new moment-resisting DfD concrete connection. <i>Engineering Structures</i> , <b>2017</b> , 132, 1-13   | 4.7  | 26 |
| 181 | Experimental study on strength and ductility of carbonated concrete elements. <i>Construction and Building Materials</i> , <b>2002</b> , 16, 187-192   | 6.7  | 26 |
| 180 | Fracture behavior of recycled aggregate concrete under three-point bending. <i>Cement and Concrete Composites</i> , <b>2019</b> , 104, 103353  | 8.6  | 24 |
| 179 | Effects of strain rate on mechanical behavior of modeled recycled aggregate concrete under uniaxial compression. <i>Construction and Building Materials</i> , <b>2015</b> , 93, 214-222                  | 6.7  | 24 |
| 178 | Effect of recycled coarse aggregate to damping variation of concrete. <i>Construction and Building Materials</i> , <b>2018</b> , 178, 445-452  | 6.7  | 22 |
| 177 | Mechanical behaviour of seawater sea-sand recycled coarse aggregate concrete columns under axial compressive loading. <i>Construction and Building Materials</i> , <b>2019</b> , 229, 117050             | 6.7  | 21 |
| 176 | Hydration process modeling of ITZ between new and old cement paste. <i>Construction and Building Materials</i> , <b>2016</b> , 109, 120-127  | 6.7  | 21 |
| 175 | Mechanical behavior of concrete using seawater and sea-sand with recycled coarse aggregates. <i>Structural Concrete</i> , <b>2019</b> , 20, 1631-1643  | 2.6  | 21 |

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| 174 | Nonlinear damping and nonlinear responses of recycled aggregate concrete frames under earthquake loading. <i>Engineering Structures</i> , <b>2019</b> , 201, 109575                        | 4.7  | 21 |
| 173 | Shear transfer across a crack in high-strength concrete after elevated temperatures. <i>Construction and Building Materials</i> , <b>2014</b> , 71, 472-483                                | 6.7  | 21 |
| 172 | On the variability of chloride diffusion in modelled recycled aggregate concrete. <i>Construction and Building Materials</i> , <b>2013</b> , 41, 732-741                                   | 6.7  | 20 |
| 171 | Internal curing effect of saturated recycled fine aggregates in early-age mortar. <i>Cement and Concrete Composites</i> , <b>2020</b> , 108, 103444  | 8.6  | 20 |
| 170 | Flexural behaviour of recycled aggregate concrete graded slabs. <i>Structural Concrete</i> , <b>2015</b> , 16, 249-261   | 2.6  | 19 |
| 169 | Time-dependent reliability analysis on carbonation behavior of recycled aggregate concrete based on gamma process. <i>Construction and Building Materials</i> , <b>2018</b> , 158, 378-388 | 6.7  | 19 |
| 168 | Behaviors of recycled aggregate concrete-filled steel tubular columns under eccentric loadings. <i>Frontiers of Structural and Civil Engineering</i> , <b>2019</b> , 13, 628-639           | 2.5  | 19 |
| 167 | Using Green Supplementary Materials to Achieve More Ductile ECC. <i>Materials</i> , <b>2019</b> , 12,  | 3.5  | 19 |
| 166 | Structural health monitoring and performance analysis of a 12-story recycled aggregate concrete structure. <i>Engineering Structures</i> , <b>2020</b> , 205, 110102                       | 4.7  | 19 |
| 165 | Compound utilization of construction and industrial waste as cementitious recycled powder in mortar. <i>Resources, Conservation and Recycling</i> , <b>2021</b> , 170, 105561              | 11.9 | 19 |
| 164 | The effect of microscopic cracks on chloride diffusivity of recycled aggregate concrete. <i>Construction and Building Materials</i> , <b>2018</b> , 170, 326-346                           | 6.7  | 18 |
| 163 | Correlation between damage evolution and resistivity reaction of concrete in-filled with graphene nanoplatelets. <i>Construction and Building Materials</i> , <b>2019</b> , 208, 482-491   | 6.7  | 17 |
| 162 | Fresh and anisotropic-mechanical properties of 3D printable ultra-high ductile concrete with crumb rubber. <i>Composites Part B: Engineering</i> , <b>2021</b> , 211, 108639               | 10   | 17 |
| 161 | Flexural properties of 3D printed fibre-reinforced concrete with recycled sand. <i>Construction and Building Materials</i> , <b>2021</b> , 288, 123077                                     | 6.7  | 17 |
| 160 | Test and prediction of chloride diffusion in recycled aggregate concrete. <i>Science China Technological Sciences</i> , <b>2014</b> , 57, 2357-2370  | 3.5  | 16 |
| 159 | Seismic Performance of Precast Recycled Concrete Frame Structure. <i>ACI Structural Journal</i> , <b>2015</b> , 112,   | 1.7  | 16 |
| 158 | Printability and advantages of 3D printing mortar with 100% recycled sand. <i>Construction and Building Materials</i> , <b>2021</b> , 273, 121699  | 6.7  | 16 |
| 157 | Plastic shrinkage and cracking of 3D printed mortar with recycled sand. <i>Construction and Building Materials</i> , <b>2021</b> , 302, 124405   | 6.7  | 16 |

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| 156 | Effect of Stress Amplitude on the Damping of Recycled Aggregate Concrete. <i>Materials</i> , <b>2015</b> , 8, 5298-5313  | 3.2 | 15 |
| 155 | Shaking Table Tests on a Recycled Concrete Block Masonry Building. <i>Advances in Structural Engineering</i> , <b>2012</b> , 15, 1843-1860   | 1.9 | 15 |
| 154 | Review of studies on structural performance of recycled aggregate concrete in China. <i>Science China Technological Sciences</i> , <b>2012</b> , 55, 2727-2739   | 3.5 | 14 |
| 153 | A method to determine water absorption of recycled fine aggregate in paste for design and quality control of fresh mortar. <i>Construction and Building Materials</i> , <b>2019</b> , 197, 30-41           | 6.7 | 14 |
| 152 | Recycled Aggregate Concrete. <i>Springer Tracts in Civil Engineering</i> , <b>2018</b> , 65-98   | 0.4 | 14 |
| 151 | On creep characteristics of cement paste, mortar and recycled aggregate concrete. <i>European Journal of Environmental and Civil Engineering</i> , <b>2015</b> , 19, 1234-1252                             | 1.5 | 13 |
| 150 | Study of the seismic response of a recycled aggregate concrete frame structure. <i>Earthquake Engineering and Engineering Vibration</i> , <b>2013</b> , 12, 669-680  | 2   | 13 |
| 149 | Investigation on the Seismic Damage of Recycled Aggregate Concrete Frame Structure. <i>Journal of Earthquake Engineering</i> , <b>2021</b> , 25, 791-815   | 1.8 | 13 |
| 148 | Seismic Analysis on Recycled Aggregate Concrete Frame Considering Strain Rate Effect. <i>International Journal of Concrete Structures and Materials</i> , <b>2016</b> , 10, 307-323                        | 2.8 | 12 |
| 147 | Damage assessment for seismic response of recycled concrete filled steel tube columns. <i>Earthquake Engineering and Engineering Vibration</i> , <b>2016</b> , 15, 607-616                                 | 2   | 12 |
| 146 | Finite element analysis on the anisotropic behavior of 3D printed concrete under compression and flexure. <i>Additive Manufacturing</i> , <b>2021</b> , 39, 101712   | 6.1 | 12 |
| 145 | Microstructural characterization of 3D printed concrete. <i>Journal of Building Engineering</i> , <b>2021</b> , 44, 102943   | 3.2 | 12 |
| 144 | Multiscale digital-image driven stochastic finite element modeling of chloride diffusion in recycled aggregate concrete. <i>Construction and Building Materials</i> , <b>2018</b> , 162, 239-252           | 6.7 | 11 |
| 143 | Minimizing cutting wastes of reinforcing steel bars through optimizing lap splicing within reinforced concrete elements. <i>Construction and Building Materials</i> , <b>2018</b> , 185, 600-608           | 6.7 | 11 |
| 142 | Shake Table Test on Seismic Response of a Precast Frame with Recycled Aggregate Concrete. <i>Advances in Structural Engineering</i> , <b>2015</b> , 18, 1517-1534  | 1.9 | 11 |
| 141 | Mechanical and microstructural evolution of 3D printed concrete with polyethylene fiber and recycled sand at elevated temperatures. <i>Construction and Building Materials</i> , <b>2021</b> , 293, 123524 | 6.7 | 11 |
| 140 | Review of recent developments in cement composites reinforced with fibers and nanomaterials. <i>Frontiers of Structural and Civil Engineering</i> , <b>2021</b> , 15, 1-19                                 | 2.5 | 11 |
| 139 | Behavior of concrete beam-column frame joints with DfD connections: A simulation study with interface modelling. <i>Engineering Structures</i> , <b>2019</b> , 189, 347-358                                | 4.7 | 10 |



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| 138 | Experimental and numerical studies on design for deconstruction concrete connections: An overview. <i>Advances in Structural Engineering</i> , <b>2018</b> , 21, 2198-2214   | 1.9 | 10 |
| 137 | Simulation study on the shear transfer behavior of recycled aggregate concrete. <i>Structural Concrete</i> , <b>2018</b> , 19, 255-268   | 2.6 | 10 |
| 136 | Reliability Analysis for Flexural Capacity of Recycled Aggregate Concrete Beams. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , <b>2016</b> , 26, 121-129                       | 1   | 10 |
| 135 | On Probability Distribution of Chloride Diffusion Coefficient for Recycled Aggregate Concrete. <i>International Journal of Concrete Structures and Materials</i> , <b>2016</b> , 10, 61-73   | 2.8 | 10 |
| 134 | Evaluation of rebar corrosion in reinforced concrete under freeze-thaw environment and protection measures. <i>Anti-Corrosion Methods and Materials</i> , <b>2016</b> , 63, 128-136  | 0.8 | 10 |
| 133 | Nonlinear analysis and test validation on seismic performance of a recycled aggregate concrete space frame. <i>Structural Design of Tall and Special Buildings</i> , <b>2014</b> , 23, 1381-1405   | 1.8 | 10 |
| 132 | GFRP-tube confined RAC under axial and eccentric loading with and without expansive agent. <i>Construction and Building Materials</i> , <b>2014</b> , 73, 575-585  | 6.7 | 10 |
| 131 | Research on recycled concrete and its utilization in building structures in China. <i>Frontiers of Structural and Civil Engineering</i> , <b>2013</b> , 7, 215-226   | 2.5 | 10 |
| 130 | Strategies to accelerate CO2 sequestration of cement-based materials and their application prospects. <i>Construction and Building Materials</i> , <b>2022</b> , 314, 125646   | 6.7 | 10 |
| 129 | Influence of recycled powder on chloride penetration resistance of green reactive powder concrete. <i>Construction and Building Materials</i> , <b>2020</b> , 251, 119049  | 6.7 | 10 |
| 128 | Effect of Applied Loads on Water and Chloride Penetrations of Strain Hardening Cement-Based Composites. <i>Journal of Materials in Civil Engineering</i> , <b>2016</b> , 28, 04016069  | 3   | 10 |
| 127 | Structural Behaviour and Strength Prediction of Recycled Aggregate Concrete Beams. <i>Arabian Journal for Science and Engineering</i> , <b>2020</b> , 45, 3611-3622  | 2.5 | 10 |
| 126 | Carbon emission analyses of concretes made with recycled materials considering CO2 uptake through carbonation absorption. <i>Structural Concrete</i> , <b>2021</b> , 22, E58   | 2.6 | 10 |
| 125 | Durability of recycled aggregate thermal insulation concrete under combined flexural loading and freeze-thaw cycles. <i>Construction and Building Materials</i> , <b>2021</b> , 272, 121652  | 6.7 | 10 |
| 124 | Experimental study on behavior of mortar-aggregate interface after elevated temperatures. <i>Frontiers of Structural and Civil Engineering</i> , <b>2017</b> , 11, 158-168   | 2.5 | 9  |
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| 104 | Reuse of construction spoil in China: Current status and future opportunities. <i>Journal of Cleaner Production</i> , <b>2021</b> , 290, 125742   | 10.3 | 7 |
| 103 | Early-age behavior and mechanical properties of cement-based materials with various types and fineness of recycled powder. <i>Structural Concrete</i> ,   | 2.6  | 7 |

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| 99  | Rate sensitivity analysis of structural behaviors of recycled aggregate concrete frame. <i>Journal of Building Engineering</i> , <b>2022</b> , 45, 103634   | 5.2 | 6 |
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| 95  | Seismic behavior of concrete shear walls with bolted end-plate DfD connections. <i>Engineering Structures</i> , <b>2020</b> , 214, 110610   | 4.7 | 5 |
| 94  | Rate Dependence of Confined Recycled Aggregate Concrete. <i>ACI Structural Journal</i> , <b>2017</b> , 114,   | 1.7 | 5 |
| 93  | Quantification of plastic shrinkage and cracking in mortars containing different recycled powders using digital image correlation technique. <i>Construction and Building Materials</i> , <b>2021</b> , 293, 123509               | 6.7 | 5 |
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| 91  | Mechanical behaviors of GFRP tube confined recycled aggregate concrete with sea sand. <i>Advances in Structural Engineering</i> , <b>2021</b> , 24, 1196-1207   | 1.9 | 5 |
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| 80 | Reclamation pathway of waste piles: A case study in Shanghai. <i>Journal of Cleaner Production</i> , <b>2020</b> , 253, 119919   | 10.3 | 4 |
| 79 | Study on nonlinear damping behavior of damaged recycled aggregate concrete beams. <i>Structural Concrete</i> , <b>2021</b> , 22, 1429-1444   | 2.6  | 4 |
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| 74 | Study on preparation and mechanical properties of 3D printed concrete with different aggregate combinations. <i>Journal of Building Engineering</i> , <b>2022</b> , 51, 104282                                     | 5.2  | 4 |
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