

Ali Karrech

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

138
papers

1,881
citations

25
h-index

33
g-index

145
ext. papers

2,400
ext. citations

3.6
avg, IF

5.62
L-index

#	Paper	IF	Citations
138	Modelling of Rock-Shotcrete Interfaces Using a Novel Bolted Cohesive Element. <i>RILEM Bookseries</i> , 2023 , 170-177	0.5	
137	Energy and thermal performance of a typical rammed earth residential building in Western Australia. <i>Energy and Buildings</i> , 2022 , 260, 111901	7	0
136	Vanadium flow batteries at variable flow rates. <i>Journal of Energy Storage</i> , 2022 , 45, 103623	7.8	1
135	An engineered ML model for prediction of the compressive strength of Eco-SCC based on type and proportions of materials. <i>Cleaner Materials</i> , 2022 , 100072		1
134	Flexural behavior of all lightweight reinforced concrete beams externally strengthened with CFRP sheets. <i>Construction and Building Materials</i> , 2022 , 327, 126966	6.7	2
133	Mechanical properties and chloride penetration resistances of very-low-C3A cement based SC-UHP-SFRCs incorporating metakaolin and slag. <i>Construction and Building Materials</i> , 2022 , 341, 127854	6.7	0
132	Limit analysis for the seismic stability of three-dimensional rock slopes using the generalized Hoek-Brown criterion. <i>International Journal of Mining Science and Technology</i> , 2021 ,	7.1	1
131	Delithiated Epodumene as a geopolymer precursor. <i>Construction and Building Materials</i> , 2021 , 309, 124974	6.7	2
130	Leaching of a polymetal gold ore and reducing cyanide consumption using cyanide-glycine solutions. <i>Minerals Engineering</i> , 2021 , 163, 106802	4.9	5
129	High strength flowable lightweight concrete incorporating low C3A cement, silica fume, stalite and macro-polyfelin polymer fibres. <i>Construction and Building Materials</i> , 2021 , 281, 122410	6.7	5
128	Cross-diffusion waves resulting from multiscale, multi-physics instabilities: theory. <i>Solid Earth</i> , 2021 , 12, 869-883	3.3	3
127	Development of ECO-UHPC with very-low-C3A cement and ground granulated blast-furnace slag. <i>Construction and Building Materials</i> , 2021 , 284, 122787	6.7	11
126	ECO-UHPC with High-Volume Class-F Fly Ash: New Insight into Mechanical and Durability Properties. <i>Journal of Materials in Civil Engineering</i> , 2021 , 33,	3	9
125	Testing and modelling of geopolymer concrete members with fibreglass reinforcement. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2021 , 174, 12-27	0.9	8
124	Optimizing the solar energy capture of residential roof design in the southern hemisphere through Evolutionary Algorithm. <i>Energy and Built Environment</i> , 2021 , 2, 406-424	6.3	6
123	Strength and durability of geopolymer concrete with high volume rubber replacement. <i>Construction and Building Materials</i> , 2021 , 274, 121783	6.7	8
122	Improved thermal insulance of cement stabilised rammed earth embedding lightweight aggregates. <i>Construction and Building Materials</i> , 2021 , 268, 121075	6.7	7

121	Cyclic behaviour of clay stabilised with fly-ash based geopolymer incorporating ground granulated slag. <i>Transportation Geotechnics</i> , 2021 , 26, 100430	4	8
120	Cross-diffusion waves resulting from multiscale, multiphysics instabilities: application to earthquakes. <i>Solid Earth</i> , 2021 , 12, 1829-1849	3.3	2
119	Experimental and Analytical Study on Geomechanical Behavior of Biocemented Sand. <i>International Journal of Geomechanics</i> , 2021 , 21, 04021126	3.1	5
118	Analysing the role of roof mounted BIPV system optimization on decreasing the effect of duck curve in Perth, Western Australia: An experimental case study. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 47, 101328	4.7	1
117	Development of ECO-UHPC utilizing gold mine tailings as quartz sand alternative. <i>Cleaner Engineering and Technology</i> , 2021 , 4, 100176	2.7	5
116	Management and valorisation of delithiated Espodumene and its processing stream. <i>Case Studies in Construction Materials</i> , 2021 , 15, e00671	2.7	1
115	3D bolted cohesive element for the modelling of bolt-reinforced rough rock-shotcrete interfaces. <i>Computers and Geotechnics</i> , 2020 , 125, 103659	4.4	5
114	Circular Concrete Columns and Beams Reinforced with GFRP Bars and Spirals under Axial, Eccentric, and Flexural Loading. <i>Journal of Composites for Construction</i> , 2020 , 24, 04020008	3.3	14
113	Curing Conditions of Alkali-Activated Fly Ash and Slag Mortar. <i>Journal of Materials in Civil Engineering</i> , 2020 , 32, 04020122	3	11
112	Design of T-shaped tube hydroforming using finite element and artificial neural network modeling. <i>Journal of Mechanical Science and Technology</i> , 2020 , 34, 1129-1138	1.6	9
111	Long-Term Strength of Alkali-Activated Mortars with Steel Fibres Cured in Various Conditions. <i>Journal of Marine Science and Engineering</i> , 2020 , 8, 278	2.4	2
110	The Optimization of Cemented Hydraulic Backfill Mixture Design Parameters for Different Strength Conditions Using Artificial Intelligence Algorithms. <i>Springer Series in Geomechanics and Geoengineering</i> , 2020 , 219-227	0.1	5
109	Systematic approach to assessing the applicability of fly-ash-based geopolymer for clay stabilization. <i>Canadian Geotechnical Journal</i> , 2020 , 57, 1356-1368	3.2	9
108	A review on methods for liberating lithium from pegmatities. <i>Minerals Engineering</i> , 2020 , 145, 106085	4.9	34
107	Behaviour and design of cold-formed CHS under static pure bending through finite element analysis. <i>Thin-Walled Structures</i> , 2020 , 147, 106547	4.7	1
106	Experimental investigation on lightweight rubberized concrete beams strengthened with BFRP sheets subjected to impact loads. <i>Engineering Structures</i> , 2020 , 205, 110095	4.7	17
105	Development of high strength one-part geopolymer mortar using sodium metasilicate. <i>Construction and Building Materials</i> , 2020 , 236, 117611	6.7	37
104	The critical behaviour of finite thickness lining systems in tunnels. <i>European Journal of Environmental and Civil Engineering</i> , 2020 , 1-18	1.5	2

103	Micromechanics modelling of cement stabilised rammed earth. <i>Mechanics of Materials</i> , 2020 , 148, 10354-10359	4.3	4
102	Closed-Form Solution to the Poromechanics of Deep Arbitrary-Shaped Openings Subjected to Rock Mass Alteration. <i>International Journal of Geomechanics</i> , 2020 , 20, 04020223	3.1	1
101	Material and glass-fibre-reinforced polymer bond properties of geopolymer concrete. <i>Magazine of Concrete Research</i> , 2020 , 72, 509-525	2	13
100	Investigation into the Nonlinear Time-History Analysis of CNT-Reinforced Concrete Column by a Multiscale Approach. <i>International Journal of Civil Engineering</i> , 2020 , 18, 49-64	1.9	4
99	Multi-objective mixture design of cemented paste backfill using particle swarm optimisation algorithm. <i>Minerals Engineering</i> , 2020 , 153, 106385	4.9	12
98	Sustainable geopolymer using lithium concentrate residues. <i>Construction and Building Materials</i> , 2019 , 228, 116740	6.7	16
97	Glass fibre-reinforced polymer circular alkali-activated fly ash/slag concrete members under combined loading. <i>Engineering Structures</i> , 2019 , 199, 109598	4.7	18
96	Gold extraction from paleochannel ores using an aerated alkaline glycine lixiviant for consideration in heap and in-situ leaching applications. <i>Minerals Engineering</i> , 2019 , 138, 112-118	4.9	16
95	Experimental Investigation of Rectangular Air-Cured Geopolymer Concrete Columns Reinforced with GFRP Bars and Stirrups. <i>Journal of Composites for Construction</i> , 2019 , 23, 04019011	3.3	39
94	Behaviour and design of rubberised concrete filled steel tubes under combined loading conditions. <i>Thin-Walled Structures</i> , 2019 , 139, 24-38	4.7	25
93	Energy Dissipation and Storage in Underground Mining Operations. <i>Rock Mechanics and Rock Engineering</i> , 2019 , 52, 229-245	5.7	26
92	Behaviour and design of air-cured GFRP-reinforced geopolymer concrete square columns. <i>Magazine of Concrete Research</i> , 2019 , 71, 1006-1024	2	12
91	Finite element simulation of circular short CFDST columns under axial compression. <i>Structures</i> , 2019 , 20, 607-619	3.4	17
90	Modelling glass fibre-reinforced polymer reinforced geopolymer concrete columns. <i>Structures</i> , 2019 , 20, 813-821	3.4	9
89	Circular steel tubes filled with rubberised concrete under combined loading. <i>Journal of Constructional Steel Research</i> , 2019 , 162, 105613	3.8	20
88	Analytical solution for stress distribution around deep lined pressure tunnels under the water table. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019 , 123, 104124	6	18
87	Interaction Diagram of Rubberised Concrete Filled Circular Hollow Sections. <i>Journal of Civil Engineering and Construction</i> , 2019 , 8, 1-7	1.4	2
86	Microfluidic study of sustainable gold leaching using glycine solution. <i>Hydrometallurgy</i> , 2019 , 185, 186-193	4.3	4

85	Mathematical Models of Homogenization for a Rammed Earth Blend Made of Crushed Limestone and Cement in Linear Micro-poro-elasticity. <i>MATEC Web of Conferences</i> , 2019 , 303, 01003	0.3	1
84	Laboratory evaluation of shear strength properties for cement-based grouted coal mass. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1	1.8	24
83	Coupled Thermo-mechanical Behavior of Weakening Geo-Materials. <i>Geotechnical and Geological Engineering</i> , 2019 , 37, 2675-2692	1.5	0
82	Data analysis and estimation of thermodynamic properties of aqueous monovalent metal-glycinate complexes. <i>Fluid Phase Equilibria</i> , 2019 , 480, 25-40	2.5	7
81	Axial impact behavior and energy absorption of rubberized concrete with/without fiber-reinforced polymer confinement. <i>International Journal of Protective Structures</i> , 2019 , 10, 154-173	1.5	23
80	The prediction of ultimate pure bending moment of concrete-filled steel tubes by adaptive neuro-fuzzy inference system (ANFIS). <i>Neural Computing and Applications</i> , 2019 , 31, 1239-1252	4.8	19
79	Analytical solution of energy redistribution in rectangular openings upon in-situ rock mass alteration. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018 , 106, 74-83	6	24
78	Experiments and Finite Element Analysis of GFRP Reinforced Geopolymer Concrete Rectangular Columns Subjected to Concentric and Eccentric Axial Loading. <i>Structures</i> , 2018 , 14, 273-289	3.4	54
77	Modelling of multicomponent reactive transport in finite columns Application to gold recovery using iodide ligands. <i>Hydrometallurgy</i> , 2018 , 178, 43-53	4	6
76	Behaviour of Concrete-filled Double-skin Short Columns Under Compression Through Finite Element Modelling: SHS Outer and SHS Inner Tubes. <i>Structures</i> , 2018 , 14, 358-375	3.4	33
75	Multi-scale Modeling Approach to Predict the Nonlinear Behavior of CNT-reinforced Concrete Columns Subjected to Service Loading. <i>Structures</i> , 2018 , 14, 301-312	3.4	9
74	Lattice Finite Strain Theory for Non-hydrostatically Compressed Materials. <i>Rock Mechanics and Rock Engineering</i> , 2018 , 51, 3313-3319	5.7	
73	Thermo-poro-mechanics Modelling of Gypsum Dehydration. <i>Sustainable Civil Infrastructures</i> , 2018 , 177-188		
72	Experimental investigation of rubberised concrete-filled double skin square tubular columns under axial compression. <i>Engineering Structures</i> , 2018 , 171, 730-746	4.7	40
71	Dynamic response of rubberized concrete columns with and without FRP confinement subjected to lateral impact. <i>Construction and Building Materials</i> , 2018 , 186, 207-218	6.7	30
70	Experimental tests and design of rubberised concrete-filled double skin circular tubular short columns. <i>Structures</i> , 2018 , 15, 196-210	3.4	31
69	Instability of mechanically lined pipelines under large deformation. <i>Finite Elements in Analysis and Design</i> , 2018 , 146, 62-69	2.2	5
68	Dual cohesive elements for 3D modelling of synthetic fibre-reinforced concrete. <i>Engineering Structures</i> , 2018 , 174, 851-860	4.7	7

67	An adaptive neuro fuzzy inference system to model the uniaxial compressive strength of cemented hydraulic backfill. <i>Mining of Mineral Deposits</i> , 2018 , 12, 1-12	1.7	10
66	Image Processing and Machine Learning to investigate fibre distribution on fibre-reinforced shotcrete Round Determinate Panels. <i>Construction and Building Materials</i> , 2018 , 190, 870-880	6.7	11
65	Development of Fly Ash- and Slag-Based Geopolymer Concrete with Calcium Carbonate or Microsilica. <i>Journal of Materials in Civil Engineering</i> , 2018 , 30, 04018325	3	25
64	Time-lapse monitoring of internal alteration of a concrete structure using ground penetrating radar. <i>Construction and Building Materials</i> , 2018 , 191, 300-310	6.7	4
63	Finite element modelling of concrete-filled double-skin short compression members with CHS outer and SHS inner tubes. <i>Marine Structures</i> , 2018 , 61, 85-99	3.8	36
62	Computational monitoring in real time: review of methods and applications. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2018 , 4, 235-271	3.8	12
61	Dynamic response of cracked Timoshenko beams on elastic foundations under moving harmonic loads. <i>JVC/Journal of Vibration and Control</i> , 2017 , 23, 432-457	2	7
60	Buckling and post-buckling analysis of geometrically non-linear composite plates exhibiting large initial imperfections. <i>Composite Structures</i> , 2017 , 174, 134-141	5.3	10
59	Evaluating Force Distributions within Virtual Uncemented Mine Backfill Using Discrete Element Method. <i>International Journal of Geomechanics</i> , 2017 , 17, 06016042	3.1	9
58	Development of a High Strength Geopolymer by Novel Solar Curing. <i>Ceramics International</i> , 2017 , 43, 11233-11243	5.1	38
57	Strengthening of mild steel struts using CFRP sheets subjected to uniform axial compression. <i>Thin-Walled Structures</i> , 2017 , 116, 96-112	4.7	10
56	CFRP strengthening and rehabilitation of corroded steel pipelines under direct indentation. <i>Thin-Walled Structures</i> , 2017 , 119, 510-521	4.7	27
55	A comparative study of Maxwell viscoelasticity at large strains and rotations. <i>Geophysical Journal International</i> , 2017 , 211, 252-262	2.6	
54	A Micromechanical Approach for Anisotropic Rock Mass Thermo-Mechanical Properties Estimation. <i>Procedia Engineering</i> , 2017 , 191, 369-377		2
53	Self-consistent fractal damage of natural geo-materials in finite strain. <i>Mechanics of Materials</i> , 2017 , 104, 107-120	3.3	22
52	Non-linear modal analysis of structural components subjected to unilateral constraints. <i>Journal of Sound and Vibration</i> , 2017 , 389, 380-410	3.9	9
51	Green Concrete with High-Volume Fly Ash and Slag with Recycled Aggregate and Recycled Water to Build Future Sustainable Cities. <i>Journal of Materials in Civil Engineering</i> , 2017 , 29, 04016219	3	34
50	The use of soft computing methods for the prediction of rock properties based on measurement while drilling data 2017 ,		9

49	Non-linear analysis of beam-like structures on unilateral foundations: A lattice spring model. <i>International Journal of Solids and Structures</i> , 2016 , 88-89, 192-214	3.1	6
48	Plastic and yield slenderness limits for circular concrete filled tubes subjected to static pure bending. <i>Thin-Walled Structures</i> , 2016 , 109, 50-64	4.7	35
47	A lattice spring model for dynamic analysis of damaged beam-type structures under moving loads. <i>European Journal of Mechanics, A/Solids</i> , 2016 , 60, 196-207	3.7	2
46	Dissipative propagation of pressure waves along the slip-lines of yielding material. <i>International Journal of Engineering Science</i> , 2016 , 107, 149-168	5.7	
45	Boudinage as a material instability of elasto-visco-plastic rocks. <i>Journal of Structural Geology</i> , 2015 , 78, 86-102	3	19
44	Deep geothermal: The Moon Landing mission in the unconventional energy and minerals space. <i>Journal of Earth Science (Wuhan, China)</i> , 2015 , 26, 2-10	2.2	9
43	A parallel computing tool for large-scale simulation of massive fluid injection in thermo-poro-mechanical systems. <i>Philosophical Magazine</i> , 2015 , 95, 3078-3102	1.6	10
42	Ductile deformation of single inclusions in simple shear with a finite-strain hyperelastoviscoplastic rheology 2015 , 46-58		1
41	Improvements to local projective noise reduction through higher order and multiscale refinements. <i>Chaos</i> , 2015 , 25, 063114	3.3	6
40	Multiscale, multiphysics geomechanics for geodynamics applied to buckling instabilities in the middle of the Australian craton. <i>Philosophical Magazine</i> , 2015 , 95, 3055-3077	1.6	8
39	Coupling of thermal-hydraulic-mechanical processes for geothermal reservoir modelling. <i>Journal of Earth Science (Wuhan, China)</i> , 2015 , 26, 47-52	2.2	4
38	Free vibration analysis of a cracked shear deformable beam on a two-parameter elastic foundation using a lattice spring model. <i>Journal of Sound and Vibration</i> , 2014 , 333, 2359-2377	3.9	27
37	A multi-scaling approach to predict hydraulic damage of poromaterials. <i>International Journal of Mechanical Sciences</i> , 2014 , 78, 1-7	5.5	21
36	From transient to steady state deformation and grain size: A thermodynamic approach using elasto-visco-plastic numerical modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 900-918	3.6	20
35	Combined mechanical and melting damage model for geomaterials. <i>Geophysical Journal International</i> , 2014 , 198, 1319-1328	2.6	5
34	A Novel Technique for Dynamic Analysis of Beam-Like Structures on Tensionless Elastic Foundations Subjected to Moving Loads. <i>Advanced Materials Research</i> , 2014 , 1016, 192-197	0.5	4
33	Non-Linear Thermo-Mechanics of Folding in Geomaterials. <i>Lecture Notes in Earth System Sciences</i> , 2014 , 753-756	0.4	1
32	Entropic Bounds for Multi-Scale and Multi-Physics Coupling in Earth Sciences. <i>Understanding Complex Systems</i> , 2014 , 323-335	0.4	5

31	Non-equilibrium thermodynamics for fully coupled thermal hydraulic mechanical chemical processes. <i>Journal of the Mechanics and Physics of Solids</i> , 2013 , 61, 819-837	5	22
30	Modelling fault reactivation and fluid flow around a fault restraining step-over structure in the Laverton gold region, Yilgarn Craton, Western Australia. <i>Geofluids</i> , 2013 , 13, 127-139	1.5	10
29	Digital bread crumb: Creation and application. <i>Journal of Food Engineering</i> , 2013 , 116, 852-861	6	20
28	Anisotropic damage mechanics as a novel approach to improve pre- and post-failure borehole stability analysis. <i>Geophysical Journal International</i> , 2013 , 193, 1095-1109	2.6	25
27	Multiscale coupling and multiphysics approaches in earth sciences: Theory. <i>Journal of Coupled Systems and Multiscale Dynamics</i> , 2013 , 1, 49-73		38
26	Multiscale coupling and multiphysics approaches in earth sciences: Applications. <i>Journal of Coupled Systems and Multiscale Dynamics</i> , 2013 , 1, 281-323		29
25	Poromechanics of saturated media based on the logarithmic finite strain. <i>Mechanics of Materials</i> , 2012 , 51, 118-136	3.3	25
24	Modelling of deformation around magmatic intrusions with application to gold-related structures in the Yilgarn Craton, Western Australia. <i>Tectonophysics</i> , 2012 , 526-529, 133-146	3.1	8
23	Thermal-hydraulic-mechanical-chemical coupling with damage mechanics using ESCRIPTRT and ABAQUS. <i>Tectonophysics</i> , 2012 , 526-529, 124-132	3.1	30
22	Thermal-elastic stresses and the criticality of the continental crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13,	3.6	13
21	Pore formation during dehydration of a polycrystalline gypsum sample observed and quantified in a time-series synchrotron X-ray micro-tomography experiment. <i>Solid Earth</i> , 2012 , 3, 71-86	3.3	41
20	A limit analysis approach to derive a thermodynamic damage potential for non-linear geomaterials. <i>Philosophical Magazine</i> , 2012 , 92, 3439-3450	1.6	8
19	Continuum damage mechanics for the lithosphere. <i>Journal of Geophysical Research</i> , 2011 , 116,		44
18	Finite element modelling of rate-dependent ratcheting in granular materials. <i>Computers and Geotechnics</i> , 2011 , 38, 105-112	4.4	9
17	Frame indifferent elastoplasticity of frictional materials at finite strain. <i>International Journal of Solids and Structures</i> , 2011 , 48, 397-407	3.1	21
16	A damaged visco-plasticity model for pressure and temperature sensitive geomaterials. <i>International Journal of Engineering Science</i> , 2011 , 49, 1141-1150	5.7	28
15	A unified multi-scale thermodynamical framework for coupling geomechanical and chemical simulations. <i>Tectonophysics</i> , 2010 , 483, 178-189	3.1	14
14	Time-dependent, irreversible entropy production and geodynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010 , 368, 285-300	3	22

13	Analytical model for the expansion of tubes under tension. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 356-362	5.3	77
12	Dynamic Effects of Mandrel/Tubular Interaction on Downhole Solid Tubular Expansion in Well Engineering. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2009 , 131,	2.6	6
11	Wellbore Path Estimation Using Measurement While Drilling Techniques: A Comparative Study and Suggestions for Improvements. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2009 , 31, 1205-1216	1.6	2
10	A discrete element study of settlement in vibrated granular layers: role of contact loss and acceleration. <i>Granular Matter</i> , 2008 , 10, 369-375	2.6	8
9	Damping Effect on Mechanical Waves in an Elastic Solid Expanded Tubular. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2007 , 129, 698-712	1.2	
8	A computational procedure for the prediction of settlement in granular materials under cyclic loading. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007 , 197, 80-94	5.7	20
7	Post-Expansion Tube Response Under Mechanical and Hydraulic Expansion A Comparative Study. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2007 , 129, 118-124	1.2	2
6	Coupled Stress and Pressure Waves Propagation in an Elastic Solid Tube Submerged in Fluids. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2006 , 128, 247-256	2.6	4
5	Analytical Solution for Wave Propagation Due to Pop-Out Phenomenon in Solid Expandable Tubular Technology. <i>Petroleum Science and Technology</i> , 2006 , 24, 923-942	1.4	2
4	Modelling of unstiffened flush end-plate bolted connections in fire. <i>Journal of Constructional Steel Research</i> , 2006 , 62, 151-159	3.8	56
3	Simulation of Solid Tubular Expansion in Well Drilling Using Finite Element Method. <i>Petroleum Science and Technology</i> , 2005 , 23, 775-794	1.4	26
2	Stress/Fluid Pressure Waves in Radially Expanded Solid Tube 2004 , 101		1
1	Multi-objective mixture design and optimisation of steel fiber reinforced UHPC using machine learning algorithms and metaheuristics. <i>Engineering With Computers</i> ,1	4.5	4