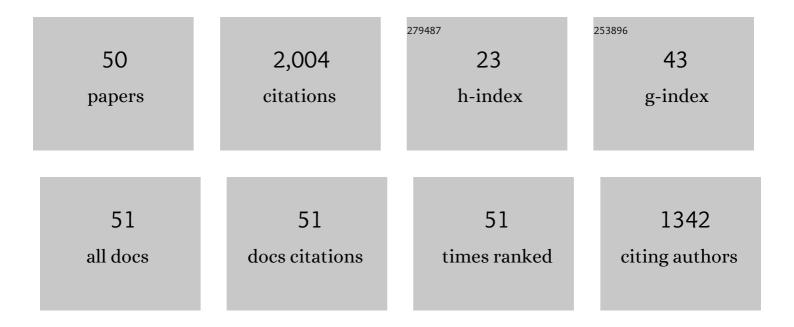
Anthony Duncan Jefferson

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Review of Selfâ€Healing Concrete for Damage Management of Structures. Advanced Materials Interfaces, 2018, 5, 1800074.	1.9	412
2	Experimental characterization of the self-healing capacity of cement based materials and its effects on the material performance: A state of the art report by COST Action SARCOS WG2. Construction and Building Materials, 2018, 167, 115-142.	3.2	183
3	Experimental investigation of adhesive-based self-healing of cementitious materials. Magazine of Concrete Research, 2010, 62, 831-843.	0.9	165
4	Evaluation of strains at peak stresses in concrete: A three-phase composite model approach. Cement and Concrete Composites, 1998, 20, 301-318.	4.6	142
5	A new system for crack closure of cementitious materials using shrinkable polymers. Cement and Concrete Research, 2010, 40, 795-801.	4.6	76
6	Large Scale Application of Self-Healing Concrete: Design, Construction, and Testing. Frontiers in Materials, 0, 5, .	1.2	75
7	A survey on problems encountered in current concrete construction and the potential benefits of self-healing cementitious materials. Case Studies in Construction Materials, 2018, 8, 238-247.	0.8	74
8	Craft––a plastic-damage-contact model for concrete. I. Model theory and thermodynamic considerations. International Journal of Solids and Structures, 2003, 40, 5973-5999.	1.3	67
9	Experimental Investigations into Seismic Failure of High Arch Dams. Journal of Structural Engineering, 2000, 126, 926-935.	1.7	55
10	Micromodelling of eccentrically loaded brickwork: Study of masonry wallettes. Engineering Structures, 2010, 32, 1244-1251.	2.6	54
11	Simulation of the capillary flow of an autonomic healing agent in discrete cracks in cementitious materials. Cement and Concrete Research, 2014, 58, 35-44.	4.6	51
12	Three dimensional finite element simulations of fracture tests using the Craft concrete model. Computers and Concrete, 2004, 1, 261-284.	0.7	43
13	A review of vascular networks for self-healing applications. Smart Materials and Structures, 2021, 30, 063001.	1.8	42
14	A plastic-damage constitutive model for the finite element analysis of fibre reinforced concrete. Engineering Fracture Mechanics, 2016, 159, 35-62.	2.0	40
15	Research Progress on Numerical Models for Selfâ€Healing Cementitious Materials. Advanced Materials Interfaces, 2018, 5, 1701378.	1.9	37
16	Investigation of capillary flow in discrete cracks in cementitious materials. Cement and Concrete Research, 2012, 42, 972-981.	4.6	33
17	Development of 3D Printed Networks in Self-Healing Concrete. Materials, 2020, 13, 1328.	1.3	32
18	A material model for cementitious composite materials with an exterior point Eshelby microcrack initiation criterion. International Journal of Solids and Structures, 2011, 48, 3312-3325.	1.3	30

#	Article	IF	CITATIONS
19	Mechanical response of a vascular self-healing cementitious material system under varying loading conditions. Construction and Building Materials, 2020, 254, 119245.	3.2	30
20	Micromechanical modelling of self-healing cementitious materials. International Journal of Solids and Structures, 2017, 113-114, 180-191.	1.3	28
21	Craft––a plastic-damage-contact model for concrete. II. Model implementation with implicit return-mapping algorithm and consistent tangent matrix. International Journal of Solids and Structures, 2003, 40, 6001-6022.	1.3	27
22	Enhanced concrete crack closure with hybrid shape memory polymer tendons. Engineering Structures, 2021, 226, 111330.	2.6	26
23	Crack healing of cementitious materials using shrinkable polymer tendons. Structural Concrete, 2013, 14, 138-147.	1.5	25
24	Characterisation of a vascular self-healing cementitious material system: Flow and curing properties. Construction and Building Materials, 2020, 245, 118332.	3.2	25
25	Constitutive modelling of aggregate interlock in concrete. International Journal for Numerical and Analytical Methods in Geomechanics, 2002, 26, 515-535.	1.7	20
26	A coupled thermo-hygro-chemical model for characterising autogenous healing in ordinary cementitious materials. Cement and Concrete Research, 2016, 88, 184-197.	4.6	20
27	The simulation of crack opening-closing and aggregate interlock behaviour in finite element concrete models. International Journal for Numerical Methods in Engineering, 2015, 104, 48-78.	1.5	18
28	Numerical simulation of the long-term behaviour of a self-healing concrete beam vs standard reinforced concrete. Engineering Structures, 2015, 102, 176-188.	2.6	16
29	Development of high shrinkage polyethylene terephthalate (PET) shape memory polymer tendons for concrete crack closure. Smart Materials and Structures, 2017, 26, 045006.	1.8	14
30	Plastic-Damage Model for Interfaces in Cementitious Materials. Journal of Engineering Mechanics - ASCE, 1998, 124, 775-782.	1.6	13
31	An experimental, numerical and analytical investigation of gas flow characteristics in concrete. Cement and Concrete Research, 2008, 38, 360-367.	4.6	13
32	Porosity development in a thermo-hygral finite element model for cementitious materials. Cement and Concrete Research, 2015, 78, 216-233.	4.6	13
33	A plastic-damage-contact constitutive model for concrete with smoothed evolution functions. Computers and Structures, 2016, 169, 40-56.	2.4	13
34	Capillary Flow Characteristics of an Autogenic and Autonomic Healing Agent for Self-Healing Concrete. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	13
35	Shrinkage behavior of poly(ethylene terephthalate) for a new cementitious–shrinkable polymer material system. Journal of Applied Polymer Science, 2011, 120, 2516-2526.	1.3	10
36	Finite element crack width computations with a thermo-hygro-mechanical-hydration model for concrete structures. European Journal of Environmental and Civil Engineering, 2014, 18, 793-813.	1.0	10

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37	Tripartite Cohesive Crack Model. Journal of Engineering Mechanics - ASCE, 2002, 128, 644-653.	1.6	9
38	A model for cementitious composite materials based on micro-mechanical solutions and damage-contact theory. Computers and Structures, 2010, 88, 1361-1366.	2.4	9
39	A smooth unloading–reloading approach for the nonlinear finite element analysis of quasi-brittle materials. Engineering Fracture Mechanics, 2016, 152, 105-125.	2.0	8
40	Stepped softening functions for concrete fracture in finite element analysis. Computers and Structures, 1991, 41, 331-344.	2.4	5
41	Progressive instability in circular masonry columns. Engineering Structures, 2018, 157, 96-104.	2.6	5
42	A crack-opening-dependent numerical model for self-healing cementitious materials. International Journal of Solids and Structures, 2022, 244-245, 111601.	1.3	5
43	Experimental Tests and Numerical Modelling of Hexagonal Concrete Specimens. Materials and Structures/Materiaux Et Constructions, 2007, 40, 491-505.	1.3	3
44	Smoothed contact in a micromechanical model for cement bound materials. Computers and Structures, 2013, 118, 115-125.	2.4	3
45	An indicatorâ€based problem reduction scheme for coupled reactive transport models. International Journal for Numerical Methods in Engineering, 2019, 120, 1428-1455.	1.5	3
46	An experimental and numerical study on vascular self-healing cementitious materials. MATEC Web of Conferences, 2019, 289, 01004.	0.1	3
47	A reformulated hardening soil model. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2020, 173, 11-29.	0.4	3
48	The simulation of inelastic matrix strains in cementitious materials using micromechanical solutions. Engineering Fracture Mechanics, 2015, 133, 191-210.	2.0	2
49	MODELLING SOIL-FIBRE COMPOSITE BEHAVIOUR USING A MICROMECHANICAL APPROACH. , 2016, , .		0
50	A coupled chemo-mechanical damage-healing model for cementitious materials. , 2018, , 285-288.		0