

Anthony R Ingraffea

List of Publications by Citations

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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.

20 papers	2,775 citations	15 h-index	20 g-index
20 ext. papers	3,243 ext. citations	4.6 avg, IF	5.07 L-index

#	Paper	IF	Citations
20	Methane and the greenhouse-gas footprint of natural gas from shale formations. <i>Climatic Change</i> , 2011 , 106, 679-690	4.5	824
19	Two-dimensional stress intensity factor computations using the boundary element method. <i>International Journal for Numerical Methods in Engineering</i> , 1981 , 17, 387-404	2.4	443
18	Reengineering Aircraft Structural Life Prediction Using a Digital Twin. <i>International Journal of Aerospace Engineering</i> , 2011 , 2011, 1-14	0.9	378
17	Stress-intensity factor computation in three dimensions with quarter-point elements. <i>International Journal for Numerical Methods in Engineering</i> , 1980 , 15, 1427-1445	2.4	181
16	A numerical procedure for simulation of hydraulically-driven fracture propagation in poroelastic media. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1990 , 14, 27-47	4	172
15	Assessment and risk analysis of casing and cement impairment in oil and gas wells in Pennsylvania, 2000-2012. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10955-60	11.5	156
14	Finite element models for rock fracture mechanics. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1980 , 4, 25-43	4	123
13	Transition elements to be used with quarter-point crack-tip elements. <i>International Journal for Numerical Methods in Engineering</i> , 1978 , 12, 1031-1036	2.4	107
12	Mechanical resilience and cementitious processes in Imperial Roman architectural mortar. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 18484-9	11.5	76
11	On the Effects of Modeling As-Manufactured Geometry: Toward Digital Twin. <i>International Journal of Aerospace Engineering</i> , 2014 , 2014, 1-10	0.9	69
10	Venting and leaking of methane from shale gas development: response to Cathles et al.. <i>Climatic Change</i> , 2012 , 113, 537-549	4.5	62
9	Arbitrary crack representation using solid modeling. <i>Engineering With Computers</i> , 1993 , 9, 63-82	4.5	62
8	Use of simple solutions for boundary integral methods in elasticity and fracture analysis. <i>International Journal for Numerical Methods in Engineering</i> , 1992 , 35, 1737-1751	2.4	58
7	Sourcing methane and carbon dioxide emissions from a small city: Influence of natural gas leakage and combustion. <i>Environmental Pollution</i> , 2016 , 218, 102-110	9.3	25
6	The Effect of Osteoporosis Treatments on Fatigue Properties of Cortical Bone Tissue. <i>Bone Reports</i> , 2015 , 2, 8-13	2.6	20
5	Reported Methane Emissions from Active Oil and Gas Wells in Pennsylvania, 2014-2018. <i>Environmental Science & Technology</i> , 2020 , 54, 5783-5789	10.3	12
4	Delamination buckling of laminated plates. <i>International Journal for Numerical Methods in Engineering</i> , 1991 , 32, 1321-1337	2.4	5

3	Surface water and groundwater analysis using aryl hydrocarbon and endocrine receptor biological assays and liquid chromatography-high resolution mass spectrometry in Susquehanna County, PA. <i>Environmental Sciences: Processes and Impacts</i> , 2019 , 21, 988-998	4.3	2
2	OS12(5)-21(OS12W0406) Simplified Method to Calculate Stress Intensity Factors for a Surface Crack in a Weld of a Pipe Penetrating a Thick Plate with a Stub Tube. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2003 , 2, 2003.2, _OS12W0406- _OS12W0406	0	
1	OS12W0406 Simplified method to calculate stress intensity factors for a surface crack in a weld of a pipe penetrating a thick plate with a stub tube. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2003 , 2003.2, _OS12W0406- _OS12W0406	0	