Javier G Gomez

List of Publications by Year
in descending order

34 papers	2,900 citations	394421 19 h-index	395702 33 g-index
34 all docs	34 docs citations	34 times ranked	1423 citing authors

#	Article	IF	Citations
1	On the use of the combined FMC-ASED criterion for fracture prediction of notched specimens with nonlinear behavior. Procedia Structural Integrity, 2020, 28, 84-92.	0.8	4
2	An extension of the Equivalent Material Concept applied to fracture of U-notched solids. Procedia Structural Integrity, 2020, 28, 752-763.	0.8	2
3	Use of iterative algorithms to calculate the softening curve in concrete. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2019, 58, 64-68.	1.9	2
4	Application of the equivalent material concept to the study of the ductile failure due to U-notches. International Journal of Pressure Vessels and Piping, 2019, 172, 65-69.	2.6	7
5	Application of the equivalent material concept to fracture of U-notched solids under small scale yielding. Procedia Structural Integrity, 2018, 13, 267-272.	0.8	4
6	Effect of Zirconium Hydrides on the mechanical behavior of cladding. Kerntechnik, 2018, 83, 502-506.	0.2	1
7	A new procedure to calculate the constitutive equation of nuclear fuel cladding from ring compression tests. Progress in Nuclear Energy, 2017, 97, 245-251.	2.9	4
8	Obtention of the constitutive equation of hydride blisters in fuel cladding from nanoindentation tests. Journal of Nuclear Materials, 2017, 487, 220-228.	2.7	7
9	Study of the hoop fracture behaviour of nuclear fuel cladding from ring compression tests by means of non-linear optimization techniques. Journal of Nuclear Materials, 2017, 489, 150-157.	2.7	8
10	Equivalent local mode I concept applied to fracture of graphite round V-notches under static multiaxial loading. Theoretical and Applied Fracture Mechanics, 2017, 90, 213-217.	4.7	3
11	New iterative method to obtain the softening curve in concrete.. Procedia Structural Integrity, 2016, 2, 2841-2848.	0.8	2
12	Fracture of notched samples in epoxy resin: Experiments and cohesive model. Engineering Fracture Mechanics, 2015, 149, 402-411.	4.3	19
13	Nanoindentation measurements of the mechanical properties of zirconium matrix and hydrides in unirradiated pre-hydrided nuclear fuel cladding. Journal of Nuclear Materials, 2014, 452, 69-76.	2.7	39
14	Experimental Validation of a Non-Linear Buckling Method on a Rear Engine Mount Support Structure. , 2014, , .		0
15	Determination of the hoop fracture properties of unirradiated hydrogen-charged nuclear fuel cladding from ring compression tests. Journal of Nuclear Materials, 2013, 436, 123-129.	2.7	20
16	Revisiting the method to obtain the mechanical properties of hydrided fuel cladding in the hoop direction. Journal of Nuclear Materials, 2012, 429, 276-283.	2.7	29
17	Fracture of V-notched specimens under mixed mode (I + II) loading in brittle materials. International Journal of Fracture, 2009, 159, 121-135.	2.2	121
18	Brittle failures from Uâ€•and Vâ€•notches in mode I and mixed, I + II, mode: a synthesis based on the strain energy density averaged on finiteâ€•size volumes. Fatigue and Fracture of Engineering Materials and Structures, 2009, 32, 671-684.	3.4	133

#	Article	IF	Citations
19	Fracture of U-notched specimens under mixed mode: Experimental results and numerical predictions. Engineering Fracture Mechanics, 2009, 76, 236-249.	4.3	97
20	Efecto de los hidruros en el comportamiento mecÃ¡nico de vainas de zircaloy de combustible nuclear en direcciÃ³n anular. Revista De Metalurgia, 2009, 45, 287-294.	0.5	1
21	A generalised notch stress intensity factor for U-notched components loaded under mixed mode. Engineering Fracture Mechanics, 2008, 75, 4819-4833.	4.3	89
22	Some advantages derived from the use of the strain energy density over a control volume in fatigue strength assessments of welded joints. International Journal of Fatigue, 2008, 30, 1345-1357.	5.7	174
23	Local strain energy to assess the static failure of U-notches in plates under mixed mode loading. International Journal of Fracture, 2007, 145, 29-45.	2.2	176
24	Fracture assessment of U-notches under mixed mode loading: two procedures based on the â€˜equivalent local mode Iâ€™ concept. International Journal of Fracture, 2007, 148, 415-433.	2.2	147
25	Fracture loads for ceramic samples with rounded notches. Engineering Fracture Mechanics, 2006, 73, 880-894.	4.3	50
26	Failure criteria for linear elastic materials with U-notches. International Journal of Fracture, 2006, 141, 99-113.	2.2	121
27	The cohesive crack concept: application to PMMA at â^’60Â°C. Engineering Fracture Mechanics, 2005, 72, 1268-1285.	4.3	88
28	A fracture criterion for blunted V-notched samples. International Journal of Fracture, 2004, 127, 239-264.	2.2	121
29	A fracture criterion for sharp V-notched samples. International Journal of Fracture, 2003, 123, 163-175.	2.2	176
30	Generalizations and specializations of cohesive crack models. Engineering Fracture Mechanics, 2003, 70, 1759-1776.	4.3	106
31	Fracture of components with V-shaped notches. Engineering Fracture Mechanics, 2003, 70, 1913-1927.	4.3	107
32	Cohesive modelling of the fracture of a neutron irradiated pressure vessel steel. Nuclear Engineering and Design, 2003, 219, 111-125.	1.7	4
33	The cohesive zone model: advantages, limitations and challenges. Engineering Fracture Mechanics, 2002, 69, 137-163.	4.3	896
34	Cracking in PMMA containing U-shaped notches. Fatigue and Fracture of Engineering Materials and Structures, 2000, 23, 795-803.	3.4	142