

Francisco Galvez

List of Publications by Year in descending order

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48
papers

1,403
citations

430874

18
h-index

330143

37
g-index

48
all docs

48
docs citations

48
times ranked

1273
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical behavior and microstructural evolution of a Mg AZ31 sheet at dynamic strain rates. <i>Acta Materialia</i> , 2010, 58, 2988-2998.	7.9	297
2	Twinning and grain subdivision during dynamic deformation of a Mg AZ31 sheet alloy at room temperature. <i>Acta Materialia</i> , 2011, 59, 6949-6962.	7.9	176
3	A coupled elastoplastic-damage constitutive model with Lode angle dependent failure criterion. <i>International Journal of Solids and Structures</i> , 2014, 51, 93-110.	2.7	78
4	Ballistic performance of hybrid 3D woven composites: Experiments and simulations. <i>Composite Structures</i> , 2015, 127, 141-151.	5.8	72
5	Effect of Glass Fiber Hybridization on the Behavior Under Impact of Woven Carbon Fiber/Epoxy Laminates. <i>Journal of Composite Materials</i> , 2010, 44, 3051-3068.	2.4	71
6	Ballistic performance of nanocrystalline and nanotwinned ultrafine crystal steel. <i>Acta Materialia</i> , 2012, 60, 1353-1367.	7.9	66
7	The spalling of long bars as a reliable method of measuring the dynamic tensile strength of ceramics. <i>International Journal of Impact Engineering</i> , 2002, 27, 161-177.	5.0	61
8	Influence of strain rate on the twin and slip activity of a magnesium alloy containing neodymium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 583, 220-231.	5.6	44
9	Flow and fracture behaviour of FV535 steel at different triaxialities, strain rates and temperatures. <i>Engineering Fracture Mechanics</i> , 2012, 79, 1-17.	4.3	42
10	An experimental and numerical study of ductile failure under quasi-static and impact loadings of Inconel 718 nickel-base superalloy. <i>International Journal of Impact Engineering</i> , 2014, 69, 11-24.	5.0	42
11	Influence of the high pressure torsion die geometry on the allotropic phase transformations in pure Zr. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 3918-3928.	5.6	39
12	Origin of the reversed yield asymmetry in Mg-rare earth alloys at high temperature. <i>Acta Materialia</i> , 2015, 92, 265-277.	7.9	39
13	Analysis of glass fiber reinforced cement (GRC) fracture surfaces. <i>Construction and Building Materials</i> , 2010, 24, 1302-1308.	7.2	38
14	Lightweight polyethylene non-woven felts for ballistic impact applications: Material characterization. <i>Composites Part B: Engineering</i> , 2008, 39, 1240-1246.	12.0	36
15	Failure and impact behavior of facade panels made of glass fiber reinforced cement(GRC). <i>Engineering Failure Analysis</i> , 2011, 18, 1652-1663.	4.0	29
16	Numerical simulation of fracture of concrete at different loading rates by using the cohesive crack model. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 96, 308-325.	4.7	23
17	Blast Response Analysis of Reinforced Concrete Slabs: Experimental Procedure and Numerical Simulation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2011, 78, .	2.2	21
18	Dynamic fracture toughness of a high strength armor steel. <i>Engineering Failure Analysis</i> , 2009, 16, 2567-2575.	4.0	20

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19	Impact Behavior of Hybrid Glass/Carbon Epoxy Composites. Journal of Applied Mechanics, Transactions ASME, 2013, 80, .	2.2	17
20	Tensile Strength Measurements of Ceramic Materials at High Rates of Strain. European Physical Journal Special Topics, 1997, 07, C3-151-C3-156.	0.2	16
21	Grain size gradient length scale in ballistic properties optimization of functionally graded nanocrystalline steel plates. Scripta Materialia, 2013, 69, 773-776.	5.2	16
22	Analytical Simulation of High-speed Impact onto Hybrid Glass/Carbon Epoxy Composites Targets. Procedia Engineering, 2014, 88, 101-108.	1.2	16
23	Strain rate effect in high-speed wire drawing process. Modelling and Simulation in Materials Science and Engineering, 2002, 10, 267-276.	2.0	15
24	A new analytical model to simulate high-speed impact onto composite materials targets. International Journal of Impact Engineering, 2017, 108, 322-333.	5.0	13
25	The effect of strain rate on the tensile deformation of Ti-6Al-4V/SiC composites. Scripta Materialia, 2001, 44, 2667-2671.	5.2	12
26	Behaviour of steel prestressing wires under extreme conditions of strain rate and temperature. Structural Concrete, 2011, 12, 255-261.	3.1	12
27	Dynamic Fracture Behavior of Steel Fiber Reinforced Self-Compacting Concretes (SFRSCCs). Materials, 2017, 10, 1270.	2.9	12
28	High strain rate and high temperature behaviour of metallic materials for jet engine turbine containment. European Physical Journal Special Topics, 2006, 134, 269-274.	0.2	12
29	High Temperature Dynamic Tension Behavior of Titanium Tested with Two Different Methods. Procedia Engineering, 2017, 197, 130-139.	1.2	10
30	An Experimental and Numerical Study of Ballistic Impacts on a Turbine Casing Material at Varying Temperatures. Journal of Applied Mechanics, Transactions ASME, 2011, 78, .	2.2	8
31	Spalling uniaxial strength of Al ₂ O ₃ at high strain rates. European Physical Journal: Special Topics, 2012, 206, 117-128.	2.6	6
32	Mechanical Behaviour of Al2024-T3 Sheet Metal at Different Strain-rates and Temperatures. Procedia Engineering, 2017, 197, 158-167.	1.2	6
33	Fracture strength of welded aluminium joints in commercial road vehicles. Engineering Failure Analysis, 2006, 13, 260-270.	4.0	5
34	Influence of Texture on Impact Toughness of Ferritic Fe-20Cr-5Al Oxide Dispersion Strengthened Steel. Materials, 2017, 10, 745.	2.9	5
35	Materials behaviour and numerical simulation of a turbine blade-off containment analysis. WIT Transactions on the Built Environment, 2006, , .	0.0	5
36	Influence of texture on the recrystallization mechanisms in an AZ31 Mg sheet alloy at dynamic rates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, , .	5.6	4

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37	Evolution of Texture and Microstructure of AZ31 Mg Alloy Sheet at High Strain Rates. Materials Science Forum, 0, 706-709, 1255-1260.	0.3	4
38	High-speed Impact Performance of Carbon/Epoxy Composites at Very Low Temperatures. Procedia Engineering, 2016, 167, 116-119.	1.2	4
39	Influence of the strain rate on the tensile strength in aluminas of different purity. European Physical Journal Special Topics, 2000, 10, Pr9-323-Pr9-328.	0.2	3
40	Numerical Simulation of Tangling in Jet Engine Turbines. International Journal of Turbo and Jet Engines, 2012, 29, .	0.7	2
41	Dynamic deformation of high pressure die-cast magnesium alloys. Revista De Metalurgia, 2012, 48, 351-357.	0.5	2
42	Experimental Procedure for Testing Concrete Slabs Under Blast Loading. Proceedings (mdpi), 2018, 2, .	0.2	1
43	Crystal-Plasticity-Finite-Element Modeling of the Quasi-Static and Dynamic Response of a Directionally Solidified Nickel-Base Superalloy. Materials, 2020, 13, 2990.	2.9	1
44	A wave propagation technique to measure the dynamic tensile strength of brittle materials. European Physical Journal Special Topics, 2000, 10, Pr9-203-Pr9-208.	0.2	1
45	Mechanical behaviour of Inconel 713LC at different strain rates and high temperatures. , 2009, , .		1
46	Effect of the temperature, strain rate and microstructure on flow and fracture characteristics of Ti-45Al-2Nb-2Mn+0.8vol.% TiB ₂ XD alloy. European Physical Journal: Special Topics, 2012, 206, 3-14.	2.6	0
47	Flow and failure of an aluminium alloy from low to high temperature and strain rate. EPJ Web of Conferences, 2015, 94, 04055.	0.3	0
48	Cast-in-Pair Blade Release Simulation and Comparison to Experiments With a Full Scale Rig. , 2012, , .		0