

# 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	Crystal-Plasticity-Finite-Element Modeling of the Quasi-Static and Dynamic Response of a Directionally Solidified Nickel-Base Superalloy. <i>Materials</i> , 2020, 13, 2990.	2.9	1
2	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
3	Experimental Procedure for Testing Concrete Slabs Under Blast Loading. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	1
4	A new analytical model to simulate high-speed impact onto composite materials targets. <i>International Journal of Impact Engineering</i> , 2017, 108, 322-333.	5.0	13
5	Mechanical Behaviour of Al2024-T3 Sheet Metal at Different Strain-rates and Temperatures. <i>Procedia Engineering</i> , 2017, 197, 158-167.	1.2	6
6	High Temperature Dynamic Tension Behavior of Titanium Tested with Two Different Methods. <i>Procedia Engineering</i> , 2017, 197, 130-139.	1.2	10
7	Influence of Texture on Impact Toughness of Ferritic Fe-20Cr-5Al Oxide Dispersion Strengthened Steel. <i>Materials</i> , 2017, 10, 745.	2.9	5
8	Dynamic Fracture Behavior of Steel Fiber Reinforced Self-Compacting Concretes (SFRSCCs). <i>Materials</i> , 2017, 10, 1270.	2.9	12
9	High-speed Impact Performance of Carbon/Epoxy Composites at Very Low Temperatures. <i>Procedia Engineering</i> , 2016, 167, 116-119.	1.2	4
10	Flow and failure of an aluminium alloy from low to high temperature and strain rate. <i>EPJ Web of Conferences</i> , 2015, 94, 04055.	0.3	0
11	Ballistic performance of hybrid 3D woven composites: Experiments and simulations. <i>Composite Structures</i> , 2015, 127, 141-151.	5.8	72
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	Analytical Simulation of High-speed Impact onto Hybrid Glass/Carbon Epoxy Composites Targets. <i>Procedia Engineering</i> , 2014, 88, 101-108.	1.2	16
14	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
15	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
16	Impact Behavior of Hybrid Glass/Carbon Epoxy Composites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013, 80, .	2.2	17
17	Grain size gradient length scale in ballistic properties optimization of functionally graded nanocrystalline steel plates. <i>Scripta Materialia</i> , 2013, 69, 773-776.	5.2	16
18	Influence of strain rate on the twin and slip activity of a magnesium alloy containing neodymium. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 583, 220-231.	5.6	44

#	ARTICLE	IF	CITATIONS
19	Effect of the temperature, strain rate and microstructure on flow and fracture characteristics of Ti-45Al-2Nb-2Mn+0.8vol.% TiB <sub>2</sub> XD alloy. European Physical Journal: Special Topics, 2012, 206, 3-14.	2.6	0
20	Spalling uniaxial strength of Al <sub>2</sub> O <sub>3</sub> at high strain rates. European Physical Journal: Special Topics, 2012, 206, 117-128.	2.6	6
21	Numerical Simulation of Tangling in Jet Engine Turbines. International Journal of Turbo and Jet Engines, 2012, 29, .	0.7	2
22	Ballistic performance of nanocrystalline and nanotwinned ultrafine crystal steel. Acta Materialia, 2012, 60, 1353-1367.	7.9	66
23	Flow and fracture behaviour of FV535 steel at different triaxialities, strain rates and temperatures. Engineering Fracture Mechanics, 2012, 79, 1-17.	4.3	42
24	Dynamic deformation of high pressure die-cast magnesium alloys. Revista De Metalurgia, 2012, 48, 351-357.	0.5	2
25	Cast-in-Pair Blade Release Simulation and Comparison to Experiments With a Full Scale Rig. , 2012, , .		0
26	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
27	Failure and impact behavior of facade panels made of glass fiber reinforced cement(GRC). Engineering Failure Analysis, 2011, 18, 1652-1663.	4.0	29
28	Twinning and grain subdivision during dynamic deformation of a Mg AZ31 sheet alloy at room temperature. Acta Materialia, 2011, 59, 6949-6962.	7.9	176
29	Behaviour of steel prestressing wires under extreme conditions of strain rate and temperature. Structural Concrete, 2011, 12, 255-261.	3.1	12
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	Blast Response Analysis of Reinforced Concrete Slabs: Experimental Procedure and Numerical Simulation. Journal of Applied Mechanics, Transactions ASME, 2011, 78, .	2.2	21
32	Influence of the high pressure torsion die geometry on the allotropic phase transformations in pure Zr. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3918-3928.	5.6	39
33	Mechanical behavior and microstructural evolution of a Mg AZ31 sheet at dynamic strain rates. Acta Materialia, 2010, 58, 2988-2998.	7.9	297
34	Analysis of glass fiber reinforced cement (GRC) fracture surfaces. Construction and Building Materials, 2010, 24, 1302-1308.	7.2	38
35	Effect of Glass Fiber Hybridization on the Behavior Under Impact of Woven Carbon Fiber/Epoxy Laminates. Journal of Composite Materials, 2010, 44, 3051-3068.	2.4	71
36	Dynamic fracture toughness of a high strength armor steel. Engineering Failure Analysis, 2009, 16, 2567-2575.	4.0	20

#	ARTICLE	IF	CITATIONS
37	Mechanical behaviour of Inconel 713LC at different strain rates and high temperatures. , 2009, , .		1
38	Lightweight polyethylene non-woven felts for ballistic impact applications: Material characterization. Composites Part B: Engineering, 2008, 39, 1240-1246.	12.0	36
39	Fracture strength of welded aluminium joints in commercial road vehicles. Engineering Failure Analysis, 2006, 13, 260-270.	4.0	5
40	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
41	Materials behaviour and numerical simulation of a turbine blade-off containment analysis. WIT Transactions on the Built Environment, 2006, , .	0.0	5
42	Strain rate effect in high-speed wire drawing process. Modelling and Simulation in Materials Science and Engineering, 2002, 10, 267-276.	2.0	15
43	The spalling of long bars as a reliable method of measuring the dynamic tensile strength of ceramics. International Journal of Impact Engineering, 2002, 27, 161-177.	5.0	61
44	The effect of strain rate on the tensile deformation of Ti-6Al-4V/SiC composites. Scripta Materialia, 2001, 44, 2667-2671.	5.2	12
45	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
46	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
47	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
48	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