

Juan Escobedo-Diaz

List of Publications by Year in descending order

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papers

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citations

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46
all docs

46
docs citations

46
times ranked

466
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of initiator geometry on energy absorption of CFRP tubes under dynamic crushing. International Journal of Crashworthiness, 2021, 26, 526-536.	1.1	11
2	The nonlinear thermo-hyperelasticity wave propagation analysis of near-incompressible functionally graded medium under mechanical and thermal loadings. Archive of Applied Mechanics, 2021, 91, 3075-3094.	1.2	7
3	Recent advances in generalized thermoelasticity theory and the modified models: a review. Journal of Computational Design and Engineering, 2021, 8, 15-35.	1.5	14
4	Spall fracture of two high strength armor steels. AIP Conference Proceedings, 2020, , .	0.3	2
5	Dynamic Mechanical Behaviour of Lean Duplex Stainless Steel 2101. Minerals, Metals and Materials Series, 2020, , 543-553.	0.3	0
6	An Effective Pulse-Shaping Technique for Testing Stainless Steel Alloys in a Split-Hopkinson Pressure Bar. Journal of Dynamic Behavior of Materials, 2019, 5, 39-50.	1.1	7
7	Quasi-static and dynamic progressive crushing of CF/EP composite sandwich panels under in-plane localised compressive loads. Composite Structures, 2019, 222, 110839.	3.1	15
8	Effects of load partitioning and texture on the plastic anisotropy of duplex stainless steel alloys under quasi-static loading conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 752, 24-35.	2.6	16
9	The mechanical response of commercially available bone simulants for quasi-static and dynamic loading. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 90, 404-416.	1.5	21
10	Microstructural Characterisation of a High Strength Steel Subjected to Localised Blast Loading. Minerals, Metals and Materials Series, 2019, , 713-720.	0.3	1
11	The effect of loading direction on the dynamic damage in lean duplex stainless steel 2101. AIP Conference Proceedings, 2018, , .	0.3	3
12	Strain rate effect on the mechanical response of duplex stainless steel. AIP Conference Proceedings, 2018, , .	0.3	4
13	Dynamic mechanical response of additive manufactured Ti-6Al-4V. AIP Conference Proceedings, 2018, , .	0.3	11
14	Experimental Investigation of Mechanical Behaviour of Closed-Cell Aluminium Foams Under Drop Weight Impact. Minerals, Metals and Materials Series, 2017, , 225-232.	0.3	0
15	Effects of Thermal Processing on Closed-Cell Aluminium Foams. Minerals, Metals and Materials Series, 2017, , 217-224.	0.3	0
16	Deformation Mechanisms of Closed Cell-Aluminium Foams During Drop Weight Impact. Minerals, Metals and Materials Series, 2017, , 233-239.	0.3	1
17	Microstructural Investigation and Impact Testing of Additive Manufactured TI-6AL-4V. Minerals, Metals and Materials Series, 2017, , 191-199.	0.3	2
18	Effects of temperature and strain rate on the dynamic mechanical behavior of a fine grained Al-Sc alloy. AIP Conference Proceedings, 2017, , .	0.3	0

#	ARTICLE	IF	CITATIONS
19	Correlations Among Void Shape Distributions, Dynamic Damage Mode, and Loading Kinetics. Jom, 2017, 69, 198-206.	0.9	8
20	Investigating the Anisotropic Behaviour of Lean Duplex Stainless Steel 2101. Minerals, Metals and Materials Series, 2017, , 181-190.	0.3	3
21	Effects of chemical composition and test conditions on the dynamic tensile response of Zr-based metallic glasses. AIP Conference Proceedings, 2017, , .	0.3	1
22	Dynamic crushing response of closed-cell aluminium foams during shock loading. AIP Conference Proceedings, 2017, , .	0.3	0
23	Numerical modelling of closed-cell aluminium foams under shock loading. AIP Conference Proceedings, 2017, , .	0.3	5
24	Effects of chemical composition on the shock response of Zr-based metallic glasses. AIP Conference Proceedings, 2017, , .	0.3	3
25	Mechanical Properties and Behavior of Additive Manufactured Stainless Steel 316L. Minerals, Metals and Materials Series, 2017, , 577-583.	0.3	12
26	Effect of Microstructural Anisotropy on the Dynamic Mechanical Behaviour of Rolled Ti-6Al-4V. , 2016, , 3-10.		1
27	Mechanical Response of a Gravity Cast Mg-9Al-1Zn-0.2Sc Alloy at Strain Rates from 10^4 to 10^3 /s. , 2016, , 305-309.		0
28	Methodology for Determining Spall Damage Mode Preference in Shocked FCC Polycrystalline Metals from 3D X-Ray Tomography Data. , 2016, , 57-64.		0
29	The effectiveness of combined gripping method in tensile testing of UHMWPE single yarn. IOP Conference Series: Materials Science and Engineering, 2015, 87, 012109.	0.3	4
30	Characterization of Closed-Cell Aluminium Foams Subjected to Compressive Loading. , 2015, , 167-174.		3
31	Effect of shock wave duration on dynamic failure of tungsten heavy alloy. Journal of Physics: Conference Series, 2014, 500, 112012.	0.3	3
32	Effect of Crystalline Structure on Intergranular Failure During Shock Loading. Jom, 2014, 66, 156-164.	0.9	31
33	Dynamic damage nucleation and evolution in multiphase materials. Journal of Applied Physics, 2014, 115, .	1.1	33
34	Collective nature of plasticity in mediating phase transformation under shock compression. Physical Review B, 2014, 89, .	1.1	40
35	The shock and spall response of three industrially important hexagonal close-packed metals: magnesium, titanium and zirconium. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130204.	1.6	33
36	The influence of peak shock stress on the high pressure phase transformation in Zr. Journal of Physics: Conference Series, 2014, 500, 032003.	0.3	10

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37	Influence of shock loading kinetics on the spall response of copper. Journal of Physics: Conference Series, 2014, 500, 112023.	0.3	7
38	Effect of grain boundary structure on plastic deformation during shock compression using molecular dynamics. Modelling and Simulation in Materials Science and Engineering, 2013, 21, 015011.	0.8	34
39	The effect of shock-wave profile on dynamic brittle failure. Journal of Applied Physics, 2013, 113, .	1.1	30
40	Effects of grain size and boundary structure on the dynamic tensile response of copper. Journal of Applied Physics, 2011, 110, .	1.1	159
41	Dynamic tensile response of Zr-based bulk amorphous alloys: Fracture morphologies and mechanisms. Journal of Applied Physics, 2010, 107, .	1.1	58
42	The trianvil test apparatus: Measurement of shear strength under pressure. Review of Scientific Instruments, 2010, 81, 013908.	0.6	3
43	Superplastic Behavior Of Fine Grained Ti-6Al-4V. Materials Technology, 2006, 21, 84-87.	1.5	1