

Juan Escobedo-Diaz

List of Publications by Year in descending order

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43
papers

600
citations

840585

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h-index

610775

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g-index

46
all docs

46
docs citations

46
times ranked

466
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Effects of grain size and boundary structure on the dynamic tensile response of copper. Journal of Applied Physics, 2011, 110, . | 1.1 | 159 |
| 2 | Dynamic tensile response of Zr-based bulk amorphous alloys: Fracture morphologies and mechanisms. Journal of Applied Physics, 2010, 107, . | 1.1 | 58 |
| 3 | Collective nature of plasticity in mediating phase transformation under shock compression. Physical Review B, 2014, 89, . | 1.1 | 40 |
| 4 | 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 |
| 5 | Dynamic damage nucleation and evolution in multiphase materials. Journal of Applied Physics, 2014, 115, . | 1.1 | 33 |
| 6 | 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 |
| 7 | Effect of Crystalline Structure on Intergranular Failure During Shock Loading. Jom, 2014, 66, 156-164. | 0.9 | 31 |
| 8 | The effect of shock-wave profile on dynamic brittle failure. Journal of Applied Physics, 2013, 113, . | 1.1 | 30 |
| 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 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | Mechanical Properties and Behavior of Additive Manufactured Stainless Steel 316L. Minerals, Metals and Materials Series, 2017, , 577-583. | 0.3 | 12 |
| 14 | Dynamic mechanical response of additive manufactured Ti-6Al-4V. AIP Conference Proceedings, 2018, , . | 0.3 | 11 |
| 15 | Effect of initiator geometry on energy absorption of CFRP tubes under dynamic crushing. International Journal of Crashworthiness, 2021, 26, 526-536. | 1.1 | 11 |
| 16 | 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 |
| 17 | Correlations Among Void Shape Distributions, Dynamic Damage Mode, and Loading Kinetics. Jom, 2017, 69, 198-206. | 0.9 | 8 |
| 18 | Influence of shock loading kinetics on the spall response of copper. Journal of Physics: Conference Series, 2014, 500, 112023. | 0.3 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Numerical modelling of closed-cell aluminium foams under shock loading. AIP Conference Proceedings, 2017, , . | 0.3 | 5 |
| 22 | 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 |
| 23 | Strain rate effect on the mechanical response of duplex stainless steel. AIP Conference Proceedings, 2018, , . | 0.3 | 4 |
| 24 | The trianvil test apparatus: Measurement of shear strength under pressure. Review of Scientific Instruments, 2010, 81, 013908. | 0.6 | 3 |
| 25 | Effect of shock wave duration on dynamic failure of tungsten heavy alloy. Journal of Physics: Conference Series, 2014, 500, 112012. | 0.3 | 3 |
| 26 | Investigating the Anisotropic Behaviour of Lean Duplex Stainless Steel 2101. Minerals, Metals and Materials Series, 2017, , 181-190. | 0.3 | 3 |
| 27 | Effects of chemical composition on the shock response of Zr-based metallic glasses. AIP Conference Proceedings, 2017, , . | 0.3 | 3 |
| 28 | The effect of loading direction on the dynamic damage in lean duplex stainless steel 2101. AIP Conference Proceedings, 2018, , . | 0.3 | 3 |
| 29 | Characterization of Closed-Cell Aluminium Foams Subjected to Compressive Loading. , 2015, , 167-174. | | 3 |
| 30 | Microstructural Investigation and Impact Testing of Additive Manufactured Ti-6Al-4V. Minerals, Metals and Materials Series, 2017, , 191-199. | 0.3 | 2 |
| 31 | Spall fracture of two high strength armor steels. AIP Conference Proceedings, 2020, , . | 0.3 | 2 |
| 32 | Superplastic Behavior Of Fine Grained Ti-6Al-4V. Materials Technology, 2006, 21, 84-87. | 1.5 | 1 |
| 33 | Deformation Mechanisms of Closed Cell-Aluminium Foams During Drop Weight Impact. Minerals, Metals and Materials Series, 2017, , 233-239. | 0.3 | 1 |
| 34 | Effects of chemical composition and test conditions on the dynamic tensile response of Zr-based metallic glasses. AIP Conference Proceedings, 2017, , . | 0.3 | 1 |
| 35 | Microstructural Characterisation of a High Strength Steel Subjected to Localised Blast Loading. Minerals, Metals and Materials Series, 2019, , 713-720. | 0.3 | 1 |
| 36 | Effect of Microstructural Anisotropy on the Dynamic Mechanical Behaviour of Rolled Ti-6Al-4V. , 2016, , 3-10. | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | 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 |
| 38 | Effects of Thermal Processing on Closed-Cell Aluminium Foams. Minerals, Metals and Materials Series, 2017, , 217-224. | 0.3 | 0 |
| 39 | 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 |
| 40 | Dynamic crushing response of closed-cell aluminium foams during shock loading. AIP Conference Proceedings, 2017, , . | 0.3 | 0 |
| 41 | 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 |
| 42 | Methodology for Determining Spall Damage Mode Preference in Shocked FCC Polycrystalline Metals from 3D X-Ray Tomography Data. , 2016, , 57-64. | | 0 |
| 43 | Dynamic Mechanical Behaviour of Lean Duplex Stainless Steel 2101. Minerals, Metals and Materials Series, 2020, , 543-553. | 0.3 | 0 |