Emmanuel A Flores-Johnson

List of Publications by Year
in descending order

50 papers	1,547 citations	304743 22 h-index	315739 38 g-index
51 all docs	51 docs citations	51 times ranked	1542 citing authors

#	Article	IF	Citations
1	Ballistic performance of multi-layered metallic plates impacted by a 7.62-mm APM2 projectile. International Journal of Impact Engineering, 2011, 38, 1022-1032.	5.0	144
2	Numerical investigation of the impact behaviour of bioinspired nacre-like aluminium composite plates. Composites Science and Technology, 2014, 96, 13-22.	7.8	113
3	Ballistic performance of thermoplastic composite laminates made from aramid woven fabric and polypropylene matrix. Polymer Testing, 2012, 31, 512-519.	4.8	98
4	Degradation of Elastic Modulus of Progressively Crushable Foams in Uniaxial Compression. Journal of Cellular Plastics, 2008, 44, 415-434.	2.4	86
5	Experimental study of the indentation of sandwich panels with carbon fibre-reinforced polymer face sheets and polymeric foam core. Composites Part B: Engineering, 2011, 42, 1212-1219.	12.0	83
6	Mechanical characterization of fiber metal laminate based on aramid fiber reinforced polypropylene. Composite Structures, 2017, 172, 259-266.	5.8	79
7	Structural behaviour of composite sandwich panels with plain and fibre-reinforced foamed concrete cores and corrugated steel faces. Composite Structures, 2012, 94, 1555-1563.	5.8	76
8	Evaluation of surface treatments on 5052-H32 aluminum alloy for enhancing the interfacial adhesion of thermoplastic-based fiber metal laminates. International Journal of Adhesion and Adhesives, 2018, 82, 90-99.	2.9	66
9	Indentation into polymeric foams. International Journal of Solids and Structures, 2010, 47, 1987-1995.	2.7	65
10	Mechanical Properties of Natural Fiber Reinforced Foamed Concrete. Materials, 2020, 13, 3060.	2.9	62
11	A numerical study of bioinspired nacre-like composite plates under blast loading. Composite Structures, 2015, 126, 329-336.	5.8	54
12	Structural effects on compressive strength enhancement of concrete-like materials in a split Hopkinson pressure bar test. International Journal of Impact Engineering, 2017, 109, 408-418.	5.0	52
13	Experimental and numerical determination of mechanical properties of polygonal wood particles and their flow analysis in silos. Granular Matter, 2013, 15, 811-826.	2.2	48
14	Finite element analysis of indentation of aluminium foam and sandwich panels with aluminium foam core. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 599, 125-133.	5.6	44
15	Effects of strain rate on the microstructure evolution and mechanical response of magnesium alloy AZ31. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 684, 37-46.	5.6	41
16	Low velocity impact response of fibre metal laminates based on aramid fibre reinforced polypropylene. Composite Structures, 2019, 220, 708-716.	5.8	39
17	Numerical analysis of the effect of weld-induced residual stress and plastic damage on the ballistic performance of welded steel plate. Computational Materials Science, 2012, 58, 131-139.	3.0	37
18	Thermal and mechanical properties of PLA-based multiscale cellulosic biocomposites. Journal of Materials Research and Technology, 2022, 18, 485-495.	5.8	35

#	Article	IF	Citations
19	Hard projectile penetration and trajectory stability. International Journal of Impact Engineering, 2011, 38, 815-823.	5.0	30
20	Microstructure and mechanical properties of hard Acrocomia mexicana fruit shell. Scientific Reports, 2018, 8, 9668.	3.3	28
21	Ballistic performance of bioinspired nacre-like aluminium composite plates. Composites Part B: Engineering, 2019, 177, 107382.	12.0	28
22	Discrete element simulation of dynamic behaviour of partially saturated sand. International Journal of Mechanics and Materials in Design, 2016, 12, 495-507.	3.0	23
23	Study of the porosity of calcified chicken eggshell using atomic force microscopy and image processing. Micron, 2019, 118, 50-57.	2.2	16
24	Compressive behavior of rigid polyurethane foams nanostructured with bacterial nanocellulose at low and intermediate strain rates. Journal of Applied Polymer Science, 2020, 137, 48701.	2.6	16
25	Numerical Investigation on Fracturing of Rock under Blast Using Coupled Finite Element Method and Smoothed Particle Hydrodynamics. Applied Mechanics and Materials, 0, 846, 102-107.	0.2	15
26	Mechanical behaviour of composite sandwich panels with foamed concrete core reinforced with natural fibre in four-point bending. Thin-Walled Structures, 2021, 169, 108457.	5.3	15
27	Effects of heat treatment and strain rate on the microstructure and mechanical properties of 6061 Al alloy. International Journal of Damage Mechanics, 2016, 25, 26-41.	4.2	13
28	Photoelastic evaluation of fiber surface-treatments on the interfacial performance of a polyester fiber/epoxy model composite. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1017-1024.	7.6	10
29	Modelling wrinkling interactions produced by patterned defects in metal thin films. Extreme Mechanics Letters, 2015, 4, 175-185.	4.1	10
30	Grain size dependent microstructure and texture evolution during dynamic deformation of nanocrystalline face-centered cubic materials. Acta Materialia, 2021, 216, 117088.	7.9	10
31	The effect of interface adhesion on buckling and cracking of hard thin films. Applied Physics Letters, 2014, 105, .	3.3	9
32	Mechanical properties in crumple-formed paper derived materials subjected to compression. Heliyon, 2017, 3, e00329.	3.2	9
33	Photoelastic and numerical analyses of the stress distribution around a fiber in a pullâ€out test for a thermoplastic fiber/epoxy resin composite. Polymer Composites, 2018, 39, E2397.	4.6	9
34	Effect of Recycled Polystyrene/Limonene Coating on the Mechanical Properties of Kraft Paper: A Comparative Study with Commercial Coatings. Journal of Polymers and the Environment, 2020, 28, 1724-1736.	5.0	9
35	Micromechanical analysis of the kinkâ€band performance at the interface of a thermoplastic composite under tensile deformation. Polymer Composites, 2010, 31, 1817-1821.	4.6	8
36	NUMERICAL SIMULATIONS OF QUASI-STATIC INDENTATION AND LOW VELOCITY IMPACT OF ROHACELL 51 WF FOAM. International Journal of Computational Methods, 2014, 11, 1344004.	1.3	8

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37	Numerical study of the hydrodynamic drag force in atomic force microscopy measurements undertaken in fluids. Micron, 2014, 66, 37-46.	2.2	8
38	A brief note on the counter-intuitive region of a square plate. International Journal of Impact Engineering, 2011, 38, 136-138.	5.0	6
39	A Technique for the Elimination of Stress Waves Overlapping in the Split Hopkinson Pressure bar. Experimental Techniques, 2017, 41, 345-355.	1.5	6
40	Shaking Table Test of U-Shaped Walls Made of Fiber-Reinforced Foamed Concrete. Materials, 2020, 13, 2534.	2.9	5
41	FEM-CFD Simulation and Experimental Study of Compound Parabolic Concentrator (CPC) Solar Collectors with and without Fins for Residential Applications. Applied Sciences (Switzerland), 2021, 11, 3704.	2.5	4
42	Finite-Element Modelling of the Impact Behaviour of Aluminium Nacre-Like Composite. Applied Mechanics and Materials, 0, 566, 457-462.	0.2	3
43	The effect of microstructure and welding-induced plasticity on the strength of Niâ€“Moâ€“Cr alloy welds. Materialia, 2021, 17, 101126.	2.7	3
44	Static friction between rigid fractal surfaces. Physical Review E, 2015, 92, 032405.	2.1	2
45	High Strain Rate Compressive Behaviour of Selective Laser Melted Ti-6Al-4V. Materials Science Forum, 2017, 890, 323-326.	0.3	2
46	Experimental and Numerical Study of Plain-Woven Aramid Fabric. Advanced Materials Research, 0, 856, 74-78.	0.3	1
47	Finite-Element Modelling of Ballistic Impact of Plain-Woven Aramid Fabric. Applied Mechanics and Materials, 0, 553, 769-773.	0.2	1
48	Effect of structurally-induced lateral confinement on split Hopkinson pressure bar test specimens of concrete-like materials. EPJ Web of Conferences, 2015, 94, 04031.	0.3	1
49	Low velocity impact on polymeric foams. Journal of Cellular Plastics, 2011, 47, 45-63.	2.4	1
50	Finite Element Modelling of Stress-Induced Fracture in Ti-Si-N Films. Applied Mechanics and Materials, 0, 553, 10-15.	0.2	0