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	Thermal and mechanical properties of PLA-based multiscale cellulosic biocomposites. Journal of Materials Research and Technology, 2022, 18, 485-495.	5.8	35
2	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
3	The effect of microstructure and welding-induced plasticity on the strength of Niâ€“Moâ€“Cr alloy welds. Materialia, 2021, 17, 101126.	2.7	3
4	Grain size dependent microstructure and texture evolution during dynamic deformation of nanocrystalline face-centered cubic materials. Acta Materialia, 2021, 216, 117088.	7.9	10
5	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
6	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
7	Mechanical Properties of Natural Fiber Reinforced Foamed Concrete. Materials, 2020, 13, 3060.	2.9	62
8	Shaking Table Test of U-Shaped Walls Made of Fiber-Reinforced Foamed Concrete. Materials, 2020, 13, 2534.	2.9	5
9	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
10	Ballistic performance of bioinspired nacre-like aluminium composite plates. Composites Part B: Engineering, 2019, 177, 107382.	12.0	28
11	Low velocity impact response of fibre metal laminates based on aramid fibre reinforced polypropylene. Composite Structures, 2019, 220, 708-716.	5.8	39
12	Study of the porosity of calcified chicken eggshell using atomic force microscopy and image processing. Micron, 2019, 118, 50-57.	2.2	16
13	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
14	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
15	Microstructure and mechanical properties of hard Acrocomia mexicana fruit shell. Scientific Reports, 2018, 8, 9668.	3.3	28
16	A Technique for the Elimination of Stress Waves Overlapping in the Split Hopkinson Pressure bar. Experimental Techniques, 2017, 41, 345-355.	1.5	6
17	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
18	Mechanical properties in crumple-formed paper derived materials subjected to compression. Heliyon, 2017, 3, e00329.	3.2	9

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19	High Strain Rate Compressive Behaviour of Selective Laser Melted Ti-6Al-4V. Materials Science Forum, 2017, 890, 323-326.	0.3	2
20	Mechanical characterization of fiber metal laminate based on aramid fiber reinforced polypropylene. Composite Structures, 2017, 172, 259-266.	5.8	79
21	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
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	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
24	Static friction between rigid fractal surfaces. Physical Review E, 2015, 92, 032405.	2.1	2
25	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
26	Modelling wrinkling interactions produced by patterned defects in metal thin films. Extreme Mechanics Letters, 2015, 4, 175-185.	4.1	10
27	A numerical study of bioinspired nacre-like composite plates under blast loading. Composite Structures, 2015, 126, 329-336.	5.8	54
28	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
29	The effect of interface adhesion on buckling and cracking of hard thin films. Applied Physics Letters, 2014, 105, .	3.3	9
30	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
31	Numerical investigation of the impact behaviour of bioinspired nacre-like aluminium composite plates. Composites Science and Technology, 2014, 96, 13-22.	7.8	113
32	Numerical study of the hydrodynamic drag force in atomic force microscopy measurements undertaken in fluids. Micron, 2014, 66, 37-46.	2.2	8
33	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
34	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
35	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
36	Ballistic performance of thermoplastic composite laminates made from aramid woven fabric and polypropylene matrix. Polymer Testing, 2012, 31, 512-519.	4.8	98

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37	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
38	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
39	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
40	A brief note on the counter-intuitive region of a square plate. International Journal of Impact Engineering, 2011, 38, 136-138.	5.0	6
41	Hard projectile penetration and trajectory stability. International Journal of Impact Engineering, 2011, 38, 815-823.	5.0	30
42	Low velocity impact on polymeric foams. Journal of Cellular Plastics, 2011, 47, 45-63.	2.4	1
43	Indentation into polymeric foams. International Journal of Solids and Structures, 2010, 47, 1987-1995.	2.7	65
44	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
45	Degradation of Elastic Modulus of Progressively Crushable Foams in Uniaxial Compression. Journal of Cellular Plastics, 2008, 44, 415-434.	2.4	86
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	Finite Element Modelling of Stress-Induced Fracture in Ti-Si-N Films. Applied Mechanics and Materials, 0, 553, 10-15.	0.2	0
49	Finite-Element Modelling of the Impact Behaviour of Aluminium Nacre-Like Composite. Applied Mechanics and Materials, 0, 566, 457-462.	0.2	3
50	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