

Marcilio Alves

List of Publications by Year in descending order

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38
papers

1,295
citations

394421

19
h-index

361022

35
g-index

40
all docs

40
docs citations

40
times ranked

853
citing authors

#	ARTICLE	IF	CITATIONS
1	Response of gyroid lattice structures to impact loads. International Journal of Impact Engineering, 2022, 164, 104202.	5.0	27
2	Evaluation of the dynamic response of triply periodic minimal surfaces subjected to high strain-rate compression. Additive Manufacturing, 2021, 46, 102220.	3.0	22
3	Finite element modeling of<scp>CFRP</scp> composite tubes under low velocity axial impact. Polymer Composites, 2021, 42, 1543-1564.	4.6	10
4	Analysis of API S-135 steel drill pipe cutting process by blowout preventer. Journal of Petroleum Science and Engineering, 2020, 195, 107819.	4.2	12
5	Additive manufacturing of miniature marine structures for crashworthiness verification: Scaling technique and experimental tests. Marine Structures, 2020, 72, 102764.	3.8	16
6	Experimental verification of similarity laws for impacted structures made of different materials. International Journal of Impact Engineering, 2019, 133, 103364.	5.0	15
7	Combined strain rate, mesh size and calibration test influence on structural failure: Miniature ship grounding test. Ocean Engineering, 2019, 173, 215-226.	4.3	11
8	Similarity laws of structures under impact load: Geometric and material distortion. International Journal of Mechanical Sciences, 2019, 157-158, 633-647.	6.7	39
9	Mechanical characterisation of additively manufactured elastomeric structures for variable strain rate applications. Additive Manufacturing, 2019, 27, 398-407.	3.0	14
10	Crushing and energy absorption mechanisms of carbon fiber-epoxy tubes under axial impact. International Journal of Impact Engineering, 2019, 131, 174-189.	5.0	47
11	Round-Robin test of split Hopkinson pressure bar. International Journal of Impact Engineering, 2019, 126, 62-75.	5.0	35
12	REVIEW OF THE BOOK The History of the Theory of Structures: Searching for Equilibrium by KARL-EUGEN KURRER. Latin American Journal of Solids and Structures, 2019, 16, .	1.0	0
13	The modelling of impact loading on thermoplastic fibre-metal laminates. Composite Structures, 2018, 189, 228-238.	5.8	35
14	Benchmark study of failure criteria for ship collision modeling using purpose-designed tensile specimen geometries. Marine Structures, 2017, 53, 68-85.	3.8	25
15	Scaling and Structural Impact. Procedia Engineering, 2017, 173, 391-396.	1.2	8
16	Impact on thermoplastic fibre-metal laminates: Experimental observations. Composite Structures, 2017, 159, 800-817.	5.8	56
17	International Society of Impact Engineering. International Journal of Impact Engineering, 2016, 97, 87-88.	5.0	1
18	A bifailure specimen for accessing failure criteria performance. International Journal of Plasticity, 2015, 71, 62-86.	8.8	24

#	ARTICLE	IF	CITATIONS
19	Multibody modeling of the shot peening process. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2014, 36, 111-124.	1.6	3
20	A method to solve the nonlinear eigenvalue problem of Timoshenko plane frames with rigid offsets and end releases. Journal of Sound and Vibration, 2013, 332, 1372-1387.	3.9	7
21	Performance of polymeric reinforcements in vehicle structures submitted to frontal impact. International Journal of Crashworthiness, 2012, 17, 479-496.	1.9	14
22	Limiting the influence of friction on the split Hopkinson pressure bar tests by using a ring specimen. International Journal of Impact Engineering, 2012, 49, 130-141.	5.0	37
23	An experimental and numerical investigation on tyre impact. International Journal of Impact Engineering, 2010, 37, 685-693.	5.0	49
24	Post-failure behaviour of impulsively loaded circular plates. International Journal of Mechanical Sciences, 2010, 52, 706-715.	6.7	10
25	Experiments on stress-triaxiality dependence of material behavior of aluminum alloys. Mechanics of Materials, 2010, 42, 207-217.	3.2	126
26	Impact on HDPE and PVC plates – Experimental tests and numerical simulations. International Journal of Impact Engineering, 2010, 37, 580-598.	5.0	30
27	A ductile damage criterion at various stress triaxialities. International Journal of Plasticity, 2008, 24, 1731-1755.	8.8	263
28	A numerical investigation on the visco-plastic response of structures to different pulse loading shapes. Engineering Structures, 2008, 30, 258-267.	5.3	10
29	Scaling of cylindrical shells under axial impact. International Journal of Impact Engineering, 2007, 34, 89-103.	5.0	47
30	Scaling impacted structures when the prototype and the model are made of different materials. International Journal of Solids and Structures, 2006, 43, 2744-2760.	2.7	46
31	Scaling the impact of a mass on a structure. International Journal of Impact Engineering, 2006, 32, 1158-1173.	5.0	48
32	Prediction of the dynamic flow stress. Structural Engineering and Mechanics, 2005, 20, 495-504.	1.0	4
33	Scaling impacted structures. Archive of Applied Mechanics, 2004, 74, 130-145.	2.2	60
34	Buckling transition of axially impacted open shells. International Journal of Impact Engineering, 2004, 30, 1241-1260.	5.0	8
35	Transition from progressive buckling to global bending of circular shells under axial impact – Part I: Experimental and numerical observations. International Journal of Solids and Structures, 2004, 41, 1565-1580.	2.7	73
36	Transition from progressive buckling to global bending of circular shells under axial impact – Part II: Theoretical analysis. International Journal of Solids and Structures, 2004, 41, 1581-1604.	2.7	36

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37	Post-severance analysis of impulsively loaded beams. International Journal of Solids and Structures, 2004, 41, 6441-6463.	2.7	9
38	MEASUREMENT OF DUCTILE MATERIAL DAMAGE*. Mechanics Based Design of Structures and Machines, 2001, 29, 451-476.	0.6	18