

# Marcilio Alves

## List of Publications by Year in descending order

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Version: 2024-02-01

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	A ductile damage criterion at various stress triaxialities. International Journal of Plasticity, 2008, 24, 1731-1755.	8.8	263
2	Experiments on stress-triaxiality dependence of material behavior of aluminum alloys. Mechanics of Materials, 2010, 42, 207-217.	3.2	126
3	Transition from progressive buckling to global bending of circular shells under axial impactâ€”Part I: Experimental and numerical observations. International Journal of Solids and Structures, 2004, 41, 1565-1580.	2.7	73
4	Scaling impacted structures. Archive of Applied Mechanics, 2004, 74, 130-145.	2.2	60
5	Impact on thermoplastic fibre-metal laminates: Experimental observations. Composite Structures, 2017, 159, 800-817.	5.8	56
6	An experimental and numerical investigation on tyre impact. International Journal of Impact Engineering, 2010, 37, 685-693.	5.0	49
7	Scaling the impact of a mass on a structure. International Journal of Impact Engineering, 2006, 32, 1158-1173.	5.0	48
8	Scaling of cylindrical shells under axial impact. International Journal of Impact Engineering, 2007, 34, 89-103.	5.0	47
9	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
10	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
11	Similarity laws of structures under impact load: Geometric and material distortion. International Journal of Mechanical Sciences, 2019, 157-158, 633-647.	6.7	39
12	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
13	Transition from progressive buckling to global bending of circular shells under axial impactâ€”Part II: Theoretical analysis. International Journal of Solids and Structures, 2004, 41, 1581-1604.	2.7	36
14	The modelling of impact loading on thermoplastic fibre-metal laminates. Composite Structures, 2018, 189, 228-238.	5.8	35
15	Round-Robin test of split Hopkinson pressure bar. International Journal of Impact Engineering, 2019, 126, 62-75.	5.0	35
16	Impact on HDPE and PVC plates â€” Experimental tests and numerical simulations. International Journal of Impact Engineering, 2010, 37, 580-598.	5.0	30
17	Response of gyroid lattice structures to impact loads. International Journal of Impact Engineering, 2022, 164, 104202.	5.0	27
18	Benchmark study of failure criteria for ship collision modeling using purpose-designed tensile specimen geometries. Marine Structures, 2017, 53, 68-85.	3.8	25

#	ARTICLE	IF	CITATIONS
19	A bifailure specimen for accessing failure criteria performance. <i>International Journal of Plasticity</i> , 2015, 71, 62-86.	8.8	24
20	Evaluation of the dynamic response of triply periodic minimal surfaces subjected to high strain-rate compression. <i>Additive Manufacturing</i> , 2021, 46, 102220.	3.0	22
21	MEASUREMENT OF DUCTILE MATERIAL DAMAGE*. <i>Mechanics Based Design of Structures and Machines</i> , 2001, 29, 451-476.	0.6	18
22	Additive manufacturing of miniature marine structures for crashworthiness verification: Scaling technique and experimental tests. <i>Marine Structures</i> , 2020, 72, 102764.	3.8	16
23	Experimental verification of similarity laws for impacted structures made of different materials. <i>International Journal of Impact Engineering</i> , 2019, 133, 103364.	5.0	15
24	Performance of polymeric reinforcements in vehicle structures submitted to frontal impact. <i>International Journal of Crashworthiness</i> , 2012, 17, 479-496.	1.9	14
25	Mechanical characterisation of additively manufactured elastomeric structures for variable strain rate applications. <i>Additive Manufacturing</i> , 2019, 27, 398-407.	3.0	14
26	Analysis of API S-135 steel drill pipe cutting process by blowout preventer. <i>Journal of Petroleum Science and Engineering</i> , 2020, 195, 107819.	4.2	12
27	Combined strain rate, mesh size and calibration test influence on structural failure: Miniature ship grounding test. <i>Ocean Engineering</i> , 2019, 173, 215-226.	4.3	11
28	A numerical investigation on the visco-plastic response of structures to different pulse loading shapes. <i>Engineering Structures</i> , 2008, 30, 258-267.	5.3	10
29	Post-failure behaviour of impulsively loaded circular plates. <i>International Journal of Mechanical Sciences</i> , 2010, 52, 706-715.	6.7	10
30	Finite element modeling of <scp>CFRP</scp> composite tubes under low velocity axial impact. <i>Polymer Composites</i> , 2021, 42, 1543-1564.	4.6	10
31	Post-severance analysis of impulsively loaded beams. <i>International Journal of Solids and Structures</i> , 2004, 41, 6441-6463.	2.7	9
32	Buckling transition of axially impacted open shells. <i>International Journal of Impact Engineering</i> , 2004, 30, 1241-1260.	5.0	8
33	Scaling and Structural Impact. <i>Procedia Engineering</i> , 2017, 173, 391-396.	1.2	8
34	A method to solve the nonlinear eigenvalue problem of Timoshenko plane frames with rigid offsets and end releases. <i>Journal of Sound and Vibration</i> , 2013, 332, 1372-1387.	3.9	7
35	Prediction of the dynamic flow stress. <i>Structural Engineering and Mechanics</i> , 2005, 20, 495-504.	1.0	4
36	Multibody modeling of the shot peening process. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2014, 36, 111-124.	1.6	3

#	ARTICLE	IF	CITATIONS
37	International Society of Impact Engineering. International Journal of Impact Engineering, 2016, 97, 87-88.	5.0	1
38	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