

# Elza M M Fonseca

## List of Publications by Citations

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31  
papers

114  
citations

6  
h-index

9  
g-index

43  
ext. papers

153  
ext. citations

1.5  
avg, IF

2.8  
L-index

#	Paper	IF	Citations
31	THERMAL ANALYSIS IN DRILLING OF EX VIVO BOVINE BONES. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2017</b> , 17, 1750082	0.7	16
30	Thermal analysis during bone drilling using rigid polyurethane foams: numerical and experimental methodologies. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2016</b> , 38, 1855-1863	2.6	13
29	Numerical solution of curved pipes submitted to in-plane loading conditions. <i>Thin-Walled Structures</i> , <b>2010</b> , 48, 103-109	4.7	13
28	Determination of flexibility factors in curved pipes with end restraints using a semi-analytic formulation. <i>International Journal of Pressure Vessels and Piping</i> , <b>2002</b> , 79, 829-840	2.4	9
27	Behaviour of non-loadbearing tabique wall subjected to fire [Experimental and numerical analysis. <i>Journal of Building Engineering</i> , <b>2017</b> , 9, 164-176	5.2	8
26	Structural safety in wooden beams under thermal and mechanical loading conditions. <i>International Journal of Safety and Security Engineering</i> , <b>2012</b> , 2, 242-255	2.1	6
25	Numerical model to predict the effect of wood density in wood-steel-wood connections with and without passive protection under fire. <i>Journal of Fire Sciences</i> , <b>2020</b> , 38, 122-135	1.5	5
24	Diaphyseal femoral fracture: 3D biomodel and intramedullary nail created by additive manufacturing. <i>International Journal of Materials Engineering Innovation</i> , <b>2016</b> , 7, 130	0.9	4
23	Numerical analysis of piping elbows for in-plane bending and internal pressure. <i>Thin-Walled Structures</i> , <b>2006</b> , 44, 393-398	4.7	4
22	Experimental and Numerical Method for Determining Wood Char-Layer at High Temperatures Due to An Anaerobic Heating. <i>International Journal of Safety and Security Engineering</i> , <b>2011</b> , 1, 65-76	2.1	4
21	Thermo-mechanical stresses distribution on bone drilling: Numerical and experimental procedures. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , <b>2019</b> , 233, 637-646	1.3	4
20	Three-dimensional dynamic finite element and experimental models for drilling processes. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , <b>2018</b> , 232, 35-43	1.3	3
19	The thermal and mechanical behaviour of structural steel piping systems. <i>International Journal of Pressure Vessels and Piping</i> , <b>2005</b> , 82, 145-153	2.4	3
18	Wood Connections Under Fire Conditions Protected with Gypsum Plasterboard Types A and F. <i>Lecture Notes in Civil Engineering</i> , <b>2020</b> , 93-106	0.3	3
17	Ex vivo experimental and numerical study of stresses distribution in human cadaveric tibiae. <i>International Journal of Medical Engineering and Informatics</i> , <b>2021</b> , 13, 164	0.5	3
16	Bone fragility in postmenopausal women: a preliminary study. <i>International Journal of Medical Engineering and Informatics</i> , <b>2012</b> , 4, 387	0.5	2
15	Trigonometric function used to formulate a multi-nodal finite tubular element. <i>Mechanics Research Communications</i> , <b>2007</b> , 34, 54-62	2.2	2

14	Proposal for a New Bioactive Kinetic Screw in an Implant, Using a Numerical Model. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 779	2.6	2
13	Charring rate determination of wood pine profiles submitted to high temperatures <b>2009</b> ,		2
12	Perforated cellular wooden slabs under fire: Numerical and experimental approaches. <i>Journal of Building Engineering</i> , <b>2016</b> , 8, 218-224	5.2	2
11	The measuring of the cortical bone thickness in L4 vertebra and comparison with bone mass density. <i>International Journal of Medical Engineering and Informatics</i> , <b>2013</b> , 5, 233	0.5	1
10	Parametric Study of Three Types of Timber Connections with Metal Fasteners Using Eurocode 5. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 1701	2.6	1
9	An Evaluation of the Accuracy and Precision of Jump Height Measurements Using Different Technologies and Analytical Methods. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 511	2.6	1
8	Analysis of simply supported wood beams at ambient and high temperatures. <i>International Journal of Engineering and Technology(UAE)</i> , <b>2018</b> , 7, 180	0.8	1
7	Analytical Equations Applied to the Study of Steel Profiles under Fire According to Different Nominal Temperature-Time Curves. <i>Mathematical and Computational Applications</i> , <b>2021</b> , 26, 48	1	0
6	Load Bearing Capacity of Light Timber Frame Walls Under Fire. <i>Mathematics in Computer Science</i> , <b>2022</b> , 16, 1	0.5	0
5	Cortical bone thickness and bone mass density in L2 vertebra, a comparison study with L3 and L4 measurements. <i>International Journal of Medical Engineering and Informatics</i> , <b>2015</b> , 7, 156	0.5	
4	Effect of drill speed on bone damage during drilling <b>2017</b> , 129-134		
3	Determination of optimal parameters in drilling composite materials to minimize the machining temperature using the Taguchi method <b>2017</b> , 135-140		
2	Computational analysis for stress intensity factor (KI) measuring in metal-ceramic interface <b>2019</b> , 15-18		
1	Using meshless methods to predict in-silico the stress distribution around bone sarcoma <b>2019</b> , 195-200		