Elza M M Fonseca

List of Publications by Year in Descending Order

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	Proposal for a New Bioactive Kinetic Screw in an Implant, Using a Numerical Model. *Applied Sciences (Switzerland)*, **2022**, 12, 779	2.6	2
30	Parametric Study of Three Types of Timber Connections with Metal Fasteners Using Eurocode 5. *Applied Sciences (Switzerland)*, **2022**, 12, 1701	2.6	1
29	An Evaluation of the Accuracy and Precision of Jump Height Measurements Using Different Technologies and Analytical Methods. *Applied Sciences (Switzerland)*, **2022**, 12, 511	2.6	1
28	Load Bearing Capacity of Light Timber Frame Walls Under Fire. *Mathematics in Computer Science*, **2022**, 16, 1	0.5	0
27	Analytical Equations Applied to the Study of Steel Profiles under Fire According to Different Nominal Temperature-Time Curves. *Mathematical and Computational Applications*, **2021**, 26, 48	1	0
26	Ex vivo experimental and numerical study of stresses distribution in human cadaveric tibiae. *International Journal of Medical Engineering and Informatics*, **2021**, 13, 164	0.5	3
25	Wood Connections Under Fire Conditions Protected with Gypsum Plasterboard Types A and F. *Lecture Notes in Civil Engineering*, **2020**, 93-106	0.3	3
24	Numerical model to predict the effect of wood density in wood□steel□wood connections with and without passive protection under fire. *Journal of Fire Sciences*, **2020**, 38, 122-135	1.5	5
23	Computational analysis for stress intensity factor (KI) measuring in metal-ceramic interface **2019**, 15-18		
22	Using meshless methods to predict in-silico the stress distribution around bone sarcoma **2019**, 195-200		
21	Thermo-mechanical stresses distribution on bone drilling: Numerical and experimental procedures. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, **2019**, 233, 637-646	1.3	4
20	Three-dimensional dynamic finite element and experimental models for drilling processes. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, **2018**, 232, 35-43	1.3	3
19	Analysis of simply supported wood beams at ambient and high temperatures. *International Journal of Engineering and Technology(UAE)*, **2018**, 7, 180	0.8	1
18	Behaviour of non-loadbearing tabique wall subjected to fire □Experimental and numerical analysis. *Journal of Building Engineering*, **2017**, 9, 164-176	5.2	8
17	THERMAL ANALYSIS IN DRILLING OF EX VIVO BOVINE BONES. *Journal of Mechanics in Medicine and Biology*, **2017**, 17, 1750082	0.7	16
16	Effect of drill speed on bone damage during drilling **2017**, 129-134		
15	Determination of optimal parameters in drilling composite materials to minimize the machining temperature using the Taguchi method **2017**, 135-140		

List of Publications

14	Diaphyseal femoral fracture: 3D biomodel and intramedullary nail created by additive manufacturing. *International Journal of Materials Engineering Innovation*, **2016**, 7, 130	0.9	4
13	Thermal analysis during bone drilling using rigid polyurethane foams: numerical and experimental methodologies. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2016**, 38, 1855-1863	2	13
12	Perforated cellular wooden slabs under fire: Numerical and experimental approaches. *Journal of Building Engineering*, **2016**, 8, 218-224	5.2	2
11	Cortical bone thickness and bone mass density in L2 vertebra, a comparison study with L3 and L4 measurements. *International Journal of Medical Engineering and Informatics*, **2015**, 7, 156	0.5	
10	The measuring of the cortical bone thickness in L4 vertebra and comparison with bone mass density. *International Journal of Medical Engineering and Informatics*, **2013**, 5, 233	0.5	1
9	Bone fragility in postmenopausal women: a preliminary study. *International Journal of Medical Engineering and Informatics*, **2012**, 4, 387	0.5	2
8	Structural safety in wooden beams under thermal and mechanical loading conditions. *International Journal of Safety and Security Engineering*, **2012**, 2, 242-255	2.1	6
7	Experimental and Numerical Method for Determining Wood Char-Layer at High Temperatures Due to An Anaerobic Heating. *International Journal of Safety and Security Engineering*, **2011**, 1, 65-76	2.1	4
6	Numerical solution of curved pipes submitted to in-plane loading conditions. *Thin-Walled Structures* , **2010**, 48, 103-109	4.7	13
5	Charring rate determination of wood pine profiles submitted to high temperatures **2009**,		2
4	Trigonometric function used to formulate a multi-nodal finite tubular element. *Mechanics Research Communications*, **2007**, 34, 54-62	2.2	2
3	Numerical analysis of piping elbows for in-plane bending and internal pressure. *Thin-Walled Structures*, **2006**, 44, 393-398	4.7	4
2	The thermal and mechanical behaviour of structural steel piping systems. *International Journal of Pressure Vessels and Piping*, **2005**, 82, 145-153	2.4	3
1	Determination of flexibility factors in curved pipes with end restraints using a semi-analytic formulation. *International Journal of Pressure Vessels and Piping*, **2002**, 79, 829-840	2.4	9