

Francesca Berti

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

244
citations

933447

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docs citations

21
times ranked

216
citing authors

#	ARTICLE	IF	CITATIONS
1	Reliable Numerical Models of Nickel-Titanium Stents: How to Deduce the Specific Material Properties from Testing Real Devices. <i>Annals of Biomedical Engineering</i> , 2022, 50, 467-481.	2.5	4
2	Patient-specific cardiovascular superelastic NiTi stents produced by laser powder bed fusion. <i>Procedia CIRP</i> , 2022, 110, 242-246.	1.9	8
3	Nickel-Titanium peripheral stents: Which is the best criterion for the multi-axial fatigue strength assessment?. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 113, 104142.	3.1	12
4	Multimodal Loading Environment Predicts Bioresorbable Vascular Scaffolds™ Durability. <i>Annals of Biomedical Engineering</i> , 2021, 49, 1298-1307.	2.5	2
5	Applicability assessment of a stent-retriever thrombectomy finite-element model. <i>Interface Focus</i> , 2021, 11, 20190123.	3.0	39
6	From the real device to the digital twin: A coupled experimental-numerical strategy to investigate a novel bioresorbable vascular scaffold. <i>PLoS ONE</i> , 2021, 16, e0252788.	2.5	11
7	Selective laser melting of NiTi stents with open-cell and variable diameter. <i>Smart Materials and Structures</i> , 2021, 30, 105010.	3.5	17
8	How to Validate in silico Deployment of Coronary Stents: Strategies and Limitations in the Choice of Comparator. <i>Frontiers in Medical Technology</i> , 2021, 3, 702656.	2.5	12
9	Validation of the computational model of a coronary stent: a fundamental step towards in silico trials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 122, 104644.	3.1	10
10	A computational optimization study of a self-expandable transcatheter aortic valve. <i>Computers in Biology and Medicine</i> , 2021, 139, 104942.	7.0	9
11	Biomechanical interpretation of observed fatigue fractures of peripheral Nitinol stents in the superficial femoral arteries through in silico modelling. <i>Medical Hypotheses</i> , 2020, 142, 109771.	1.5	10
12	Nickel-Titanium self-knotting suture wire for deep surgical field: A validated numerical model. <i>Materials Today Communications</i> , 2020, 24, 101038.	1.9	1
13	Fatigue life characterization and modeling of a Ni-Ti snake-like element for mini actuation. <i>Smart Materials and Structures</i> , 2020, 29, 095018.	3.5	1
14	A numerical investigation on multiaxial fatigue assessment of Nitinol peripheral endovascular devices with emphasis on load non-proportionality effects. <i>Engineering Fracture Mechanics</i> , 2019, 216, 106512.	4.3	14
15	Computational and Experimental Fatigue Analysis of Contoured Spinal Rods. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	1.3	15
16	Fatigue behavior of Nitinol medical devices under multi-axial non-proportional loads. <i>MATEC Web of Conferences</i> , 2019, 300, 12001.	0.2	3
17	Fatigue Assessment of Nickel-Titanium Peripheral Stents: Comparison of Multi-Axial Fatigue Models. <i>Shape Memory and Superelasticity</i> , 2018, 4, 186-196.	2.2	24
18	A discussion about multi-axial fatigue criteria for NiTInol cardiovascular devices. <i>Procedia Structural Integrity</i> , 2018, 13, 813-818.	0.8	0

#	ARTICLE	IF	CITATIONS
19	Effect of working environment and procedural strategies on mechanical performance of bioresorbable vascular scaffolds. <i>Acta Biomaterialia</i> , 2018, 82, 34-43.	8.3	26
20	Residual Stresses in Titanium Spinal Rods: Effects of Two Contouring Methods and Material Plastic Properties. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	1.3	12
21	The role of inelastic deformations in the mechanical response of endovascular shape memory alloy devices. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 391-404.	1.8	14