

Francesca Di Puccio

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

590
citations

687363

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h-index

610901

24
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26
all docs

26
docs citations

26
times ranked

584
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In-silico</i> Analytical Wear Predictions: Application to Joint Prostheses. Computational and Experimental Methods in Structures, 2022, , 123-148.	0.3	0
2	<i>In-silico</i> Finite Element Wear Predictions. Computational and Experimental Methods in Structures, 2022, , 149-172.	0.3	0
3	A quantitative and non-invasive vibrational method to assess bone fracture healing: a clinical case study. International Biomechanics, 2021, 8, 1-11.	1.0	6
4	Submodeling in wear predictive finite element models with multipoint contacts. International Journal for Numerical Methods in Engineering, 2021, 122, 3812-3823.	2.8	4
5	In silico re-foundation of strain-based healing assessment of fractures treated with an external fixator. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 121, 104619.	3.1	4
6	Fracture Healing Monitoring by Impact Tests: Single Case Study of a Fractured Tibia With External Fixator. IEEE Journal of Translational Engineering in Health and Medicine, 2019, 7, 1-6.	3.7	13
7	Psychoacoustic analysis of power windows sounds: Correlation between subjective and objective evaluations. Applied Acoustics, 2018, 134, 160-170.	3.3	13
8	Spinal loads and trunk muscles forces during level walking â€œ A combined in vivo and in silico study on six subjects. Journal of Biomechanics, 2018, 70, 113-123.	2.1	13
9	Effect of arm swinging on lumbar spine and hip joint forces. Journal of Biomechanics, 2018, 70, 185-195.	2.1	13
10	<i>In vivo</i> impact testing on a lengthened femur with external fixation: a future option for the non-invasive monitoring of fracture healing?. Journal of the Royal Society Interface, 2018, 15, 20180068.	3.4	16
11	Analytical Modeling of an Oblique Edge Crack in Rolling Contact Fatigue. Mathematical Problems in Engineering, 2018, 2018, 1-12.	1.1	1
12	Application of the finite element submodeling technique in a single point contact and wear problem. International Journal for Numerical Methods in Engineering, 2018, 116, 708-722.	2.8	22
13	Vibration Testing Procedures for Bone Stiffness Assessment in Fractures Treated with External Fixation. Annals of Biomedical Engineering, 2017, 45, 1111-1121.	2.5	24
14	Fracture Healing Assessment Based on Impact Testing: <i>In Vitro</i> Simulation and Monitoring of the Healing Process of a Tibial Fracture with External Fixator. International Journal of Applied Mechanics, 2017, 09, 1750098.	2.2	8
15	Experimental Investigation on the Mechanical Behavior of Polyurethane PICCs after Long-Term Conservation in in Vivo-Like Conditions. Journal of Vascular Access, 2017, 18, 522-529.	0.9	4
16	A Comparative Study on the Mechanical Behavior of Polyurethane PICCs. Journal of Vascular Access, 2016, 17, 175-181.	0.9	14
17	Effect of size and dimensional tolerance of reverse total shoulder arthroplasty on wear: An in-silico study. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 61, 455-463.	3.1	11
18	Numerical and experimental investigations for the evaluation of the wear coefficient of reverse total shoulder prostheses. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 55, 53-66.	3.1	15

#	ARTICLE	IF	CITATIONS
19	Biotribology of artificial hip joints. <i>World Journal of Orthopedics</i> , 2015, 6, 77.	1.8	94
20	Influence of the wear partition factor on wear evolution modelling of sliding surfaces. <i>International Journal of Mechanical Sciences</i> , 2015, 99, 72-88.	6.7	36
21	A novel approach to the estimation and application of the wear coefficient of metal-on-metal hip implants. <i>Tribology International</i> , 2015, 83, 69-76.	5.9	25
22	A comparative study of wear laws for soft-on-hard hip implants using a mathematical wear model. <i>Tribology International</i> , 2013, 63, 66-77.	5.9	57
23	Wear Simulation of Metal-on-Metal Hip Replacements With Frictional Contact. <i>Journal of Tribology</i> , 2013, 135, .	1.9	26
24	Review of Experimental Investigations on Compressibility of Arteries and Introduction of a New Apparatus. <i>Experimental Mechanics</i> , 2012, 52, 895-902.	2.0	20
25	Biomechanics of the tympanic membrane. <i>Journal of Biomechanics</i> , 2011, 44, 1219-1236.	2.1	129
26	Generation and curvature analysis of conjugate surfaces via a new approach. <i>Mechanism and Machine Theory</i> , 2006, 41, 382-404.	4.5	22