

# Francesca Di Puccio

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

590  
citations

687363

13  
h-index

610901

24  
g-index

26  
all docs

26  
docs citations

26  
times ranked

584  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomechanics of the tympanic membrane. <i>Journal of Biomechanics</i> , 2011, 44, 1219-1236.	2.1	129
2	Biotribology of artificial hip joints. <i>World Journal of Orthopedics</i> , 2015, 6, 77.	1.8	94
3	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
4	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
5	Wear Simulation of Metal-on-Metal Hip Replacements With Frictional Contact. <i>Journal of Tribology</i> , 2013, 135, .	1.9	26
6	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
7	Vibration Testing Procedures for Bone Stiffness Assessment in Fractures Treated with External Fixation. <i>Annals of Biomedical Engineering</i> , 2017, 45, 1111-1121.	2.5	24
8	Generation and curvature analysis of conjugate surfaces via a new approach. <i>Mechanism and Machine Theory</i> , 2006, 41, 382-404.	4.5	22
9	Application of the finite element submodeling technique in a single point contact and wear problem. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 116, 708-722.	2.8	22
10	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
11	<i>In vivo</i> impact testing on a lengthened femur with external fixation: a future option for the non-invasive monitoring of fracture healing?. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180068.	3.4	16
12	Numerical and experimental investigations for the evaluation of the wear coefficient of reverse total shoulder prostheses. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 55, 53-66.	3.1	15
13	A Comparative Study on the Mechanical Behavior of Polyurethane PICCs. <i>Journal of Vascular Access</i> , 2016, 17, 175-181.	0.9	14
14	Psychoacoustic analysis of power windows sounds: Correlation between subjective and objective evaluations. <i>Applied Acoustics</i> , 2018, 134, 160-170.	3.3	13
15	Spinal loads and trunk muscles forces during level walking – A combined in vivo and in silico study on six subjects. <i>Journal of Biomechanics</i> , 2018, 70, 113-123.	2.1	13
16	Effect of arm swinging on lumbar spine and hip joint forces. <i>Journal of Biomechanics</i> , 2018, 70, 185-195.	2.1	13
17	Fracture Healing Monitoring by Impact Tests: Single Case Study of a Fractured Tibia With External Fixator. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2019, 7, 1-6.	3.7	13
18	Effect of size and dimensional tolerance of reverse total shoulder arthroplasty on wear: An in-silico study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 61, 455-463.	3.1	11

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19	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. <i>International Journal of Applied Mechanics</i> , 2017, 09, 1750098.	2.2	8
20	A quantitative and non-invasive vibrational method to assess bone fracture healing: a clinical case study. <i>International Biomechanics</i> , 2021, 8, 1-11.	1.0	6
21	Experimental Investigation on the Mechanical Behavior of Polyurethane PICCs after Long-Term Conservation in <i>In Vivo</i> -Like Conditions. <i>Journal of Vascular Access</i> , 2017, 18, 522-529.	0.9	4
22	Submodeling in wear predictive finite element models with multipoint contacts. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 3812-3823.	2.8	4
23	<i>In silico</i> re-foundation of strain-based healing assessment of fractures treated with an external fixator. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 121, 104619.	3.1	4
24	Analytical Modeling of an Oblique Edge Crack in Rolling Contact Fatigue. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-12.	1.1	1
25	<i>In-silico</i> Analytical Wear Predictions: Application to Joint Prostheses. <i>Computational and Experimental Methods in Structures</i> , 2022, , 123-148.	0.3	0
26	<i>In-silico</i> Finite Element Wear Predictions. <i>Computational and Experimental Methods in Structures</i> , 2022, , 149-172.	0.3	0