

# Philipp Damm

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,196  
citations

430754

18  
h-index

395590

33  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1177  
citing authors

#	ARTICLE	IF	CITATIONS
1	Standardized Loads Acting in Hip Implants. PLoS ONE, 2016, 11, e0155612.	1.1	297
2	Total hip joint prosthesis for in vivo measurement of forces and moments. Medical Engineering and Physics, 2010, 32, 95-100.	0.8	91
3	A comprehensive assessment of the musculoskeletal system: The CAMS-Knee data set. Journal of Biomechanics, 2017, 65, 32-39.	0.9	82
4	Friction in Total Hip Joint Prosthesis Measured In Vivo during Walking. PLoS ONE, 2013, 8, e78373.	1.1	60
5	Comparison of in vivo measured loads in knee, hip and spinal implants during level walking. Journal of Biomechanics, 2017, 51, 128-132.	0.9	57
6	In vivo hip joint loads during three methods of walking with forearm crutches. Clinical Biomechanics, 2013, 28, 530-535.	0.5	47
7	Does aquatic exercise reduce hip and knee joint loading? In vivo load measurements with instrumented implants. PLoS ONE, 2017, 12, e0171972.	1.1	47
8	High-Tech Hip Implant for Wireless Temperature Measurements In Vivo. PLoS ONE, 2012, 7, e43489.	1.1	44
9	Challenging the Current Concept of Critical Glenoid Bone Loss in Shoulder Instability: Does the Size Measurement Really Tell It All?. American Journal of Sports Medicine, 2019, 47, 688-694.	1.9	40
10	The effect of laterally wedged shoes on the loading of the medial knee compartmentâ€in vivo measurements with instrumented knee implants. Journal of Orthopaedic Research, 2011, 29, 1910-1915.	1.2	39
11	In Vivo Hip Joint Loading during Post-Operative Physiotherapeutic Exercises. PLoS ONE, 2013, 8, e77807.	1.1	38
12	The Capacity of Generic Musculoskeletal Simulations to Predict Knee Joint Loading Using the CAMS-Knee Datasets. Annals of Biomedical Engineering, 2020, 48, 1430-1440.	1.3	29
13	Postoperative Changes in In Vivo Measured Friction in Total Hip Joint Prosthesis during Walking. PLoS ONE, 2015, 10, e0120438.	1.1	27
14	Patient-specific musculoskeletal modeling of the hip joint for preoperative planning of total hip arthroplasty: A validation study based on in vivo measurements. PLoS ONE, 2018, 13, e0195376.	1.1	24
15	In vivo measured joint friction in hip implants during walking after a short rest. PLoS ONE, 2017, 12, e0174788.	1.1	22
16	Gluteal muscle damage leads to higher in vivo hip joint loads 3 months after total hip arthroplasty. PLoS ONE, 2018, 13, e0190626.	1.1	22
17	In vivo measurements of the effect of whole body vibration on spinal loads. European Spine Journal, 2014, 23, 666-672.	1.0	21
18	In vivo hip joint loads and pedal forces during ergometer cycling. Journal of Biomechanics, 2017, 60, 197-202.	0.9	20

#	ARTICLE	IF	CITATIONS
19	Physical Activities That Cause High Friction Moments at the Cup in Hip Implants. <i>Journal of Bone and Joint Surgery - Series A</i> , 2018, 100, 1637-1644.	1.4	20
20	Loading of the hip and knee joints during whole body vibration training. <i>PLoS ONE</i> , 2018, 13, e0207014.	1.1	19
21	Association of Machine Learning-Based Predictions of Medial Knee Contact Force With Cartilage Loss Over 2.5 Years in Knee Osteoarthritis. <i>Arthritis and Rheumatology</i> , 2021, 73, 1638-1645.	2.9	17
22	Length-Change Patterns of the Collateral Ligaments During Functional Activities After Total Knee Arthroplasty. <i>Annals of Biomedical Engineering</i> , 2020, 48, 1396-1406.	1.3	16
23	In vivo loading on the hip joint in patients with total hip replacement performing gymnastics and aerobics exercises. <i>Scientific Reports</i> , 2021, 11, 13395.	1.6	14
24	Effect of arm swinging on lumbar spine and hip joint forces. <i>Journal of Biomechanics</i> , 2018, 70, 185-195.	0.9	13
25	ESB Clinical Biomechanics Award 2018: Muscle atrophy-related increased joint loading after total hip arthroplasty and their postoperative change from 3 to 50 months. <i>Clinical Biomechanics</i> , 2019, 65, 105-109.	0.5	12
26	In vivo hip and lumbar spine implant loads during activities in forward bent postures. <i>Journal of Biomechanics</i> , 2020, 102, 109517.	0.9	11
27	European Society of Biomechanics S.M. Perren Award 2022: Standardized tibio-femoral implant loads and kinematics. <i>Journal of Biomechanics</i> , 2022, 141, 111171.	0.9	10
28	Analysis of hip joint loading during walking with different shoe types using instrumented total hip prostheses. <i>Scientific Reports</i> , 2021, 11, 10073.	1.6	8
29	Surgical cup placement affects the heating up of total joint hip replacements. <i>Scientific Reports</i> , 2021, 11, 15851.	1.6	6
30	Dynamic Knee Joint Line Orientation Is Not Predictive of Tibio-Femoral Load Distribution During Walking. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 754715.	2.0	5
31	Ground reaction forces and external hip joint moments predict in vivo hip contact forces during gait. <i>Journal of Biomechanics</i> , 2022, 135, 111037.	0.9	5
32	IN VIVO MEASUREMENTS OF THE FRICTION MOMENT IN TOTAL HIP JOINT PROSTHESES DURING WALKING. <i>Journal of Biomechanics</i> , 2012, 45, S268.	0.9	4
33	A method to assess primary stability of acetabular components in association with bone defects. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1769-1778.	1.2	4
34	Uncertainty in Muscle-Tendon Parameters can Greatly Influence the Accuracy of Knee Contact Force Estimates of Musculoskeletal Models. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	4
35	Evaluation of Biomechanical Models for the Planning of Total Hip Arthroplasty. <i>Biomedizinische Technik</i> , 2013, 58 Suppl 1, .	0.9	3
36	Effect of the underlying cadaver data and patient-specific adaptation of the femur and pelvis on the prediction of the hip joint force estimated using static models. <i>Journal of Biomechanics</i> , 2022, 139, 110526.	0.9	3

#	ARTICLE	IF	CITATIONS
37	Towards planning of osteotomy around the knee with quantitative inclusion of the adduction moment: a biomechanical approach. <i>Journal of Experimental Orthopaedics</i> , 2021, 8, 39.	0.8	3
38	Overstretching Expectations May Endanger the Success of the “Millennium Surgery”. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 789629.	2.0	3
39	In vivo analysis of hip joint loading on Nordic walking novices. <i>Journal of Orthopaedic Surgery and Research</i> , 2021, 16, 596.	0.9	1
40	Is Training With Gym Machines Safe After Hip Arthroplasty? An In Vivo Load Investigation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 857682.	2.0	1
41	Evaluation and validation of 2D biomechanical models of the knee for radiograph-based preoperative planning in total knee arthroplasty. <i>PLoS ONE</i> , 2020, 15, e0227272.	1.1	0
42	Biomechanical Models of the Hip – a Validation Study Based on 10 CT-Datasets. , 0, , .		0