

# David NeÄas

## List of Publications by Year in descending order

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32  
papers

445  
citations

623188

14  
h-index

752256

20  
g-index

33  
all docs

33  
docs citations

33  
times ranked

245  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation of friction in compliant contact: The effect of configuration, viscoelasticity and operating conditions. <i>Tribology International</i> , 2022, 165, 107340.	3.0	2
2	Biotribology of synovial cartilage: Role of albumin in adsorbed film formation. <i>Engineering Science and Technology, an International Journal</i> , 2022, 34, 101090.	2.0	3
3	Development of Tribological Model of Human Fascia: The Influence of Material Hardness and Motion Speed. <i>Biotribology</i> , 2022, 30, 100209.	0.9	3
4	The effect of albumin and $\hat{\Gamma}^3$ -globulin on synovial fluid lubrication: Implication for knee joint replacements. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 113, 104117.	1.5	14
5	Towards the understanding of lubrication mechanisms in total knee replacements – Part II: Numerical modeling. <i>Tribology International</i> , 2021, 156, 106809.	3.0	22
6	Towards the understanding of lubrication mechanisms in total knee replacements – Part I: Experimental investigations. <i>Tribology International</i> , 2021, 156, 106874.	3.0	20
7	Rheological and frictional analysis of viscosupplements towards improved lubrication of human joints. <i>Tribology International</i> , 2021, 160, 107030.	3.0	17
8	Insight into the Lubrication and Adhesion Properties of Hyaluronan for Ocular Drug Delivery. <i>Biomolecules</i> , 2021, 11, 1431.	1.8	9
9	Biotribology of Synovial Cartilage: A New Method for Visualization of Lubricating Film and Simultaneous Measurement of the Friction Coefficient. <i>Materials</i> , 2020, 13, 2075.	1.3	15
10	The Effect of Synovial Fluid Composition, Speed and Load on Frictional Behaviour of Articular Cartilage. <i>Materials</i> , 2020, 13, 1334.	1.3	24
11	On the Dependence of Rheology of Hyaluronic Acid Solutions and Frictional Behavior of Articular Cartilage. <i>Materials</i> , 2020, 13, 2659.	1.3	37
12	Towards the direct validation of computational lubrication modelling of hip replacements. <i>Tribology International</i> , 2020, 146, 106240.	3.0	5
13	Running-in friction of hip joint replacements can be significantly reduced: The effect of surface-textured acetabular cup. <i>Friction</i> , 2020, 8, 1137-1152.	3.4	26
14	Observation of lubrication mechanisms in knee replacement: A pilot study. <i>Biotribology</i> , 2019, 17, 1-7.	0.9	12
15	On the observation of lubrication mechanisms within hip joint replacements. Part I: Hard-on-soft bearing pairs. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 89, 237-248.	1.5	25
16	On the observation of lubrication mechanisms within hip joint replacements. Part II: Hard-on-hard bearing pairs. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 89, 249-259.	1.5	15
17	Visualization of Lubrication Film in Model of Synovial Joint. <i>Tribology in Industry</i> , 2019, 41, 387-393.	0.5	10
18	In situ observation of lubricant film formation in THR considering real conformity: The effect of model synovial fluid composition. <i>Tribology International</i> , 2018, 117, 206-216.	3.0	24

#	ARTICLE	IF	CITATIONS
19	The Effect of Kinematic Conditions on Film Thickness in Compliant Lubricated Contact. Journal of Tribology, 2018, 140, .	1.0	5
20	The Effect of Kinematic Conditions and Synovial Fluid Composition on the Frictional Behaviour of Materials for Artificial Joints. Materials, 2018, 11, 767.	1.3	11
21	Effect of hyaluronic acid on friction of articular cartilage. , 2018, , .		0
22	Development of reciprocating tribometer for testing synovial joint. , 2018, , .		1
23	The Influence of Proteins and Speed on Friction and Adsorption of Metal/UHMWPE Contact Pair. Biotribology, 2017, 11, 51-59.	0.9	24
24	In situ observation of lubricant film formation in THR considering real conformity: The effect of diameter, clearance and material. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 69, 66-74.	1.5	19
25	Lubrication within hip replacements â€“ Implication for ceramic-on-hard bearing couples. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 61, 371-383.	1.5	19
26	The effect of lubricant constituents on lubrication mechanisms in hip joint replacements. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 55, 295-307.	1.5	29
27	Tribological Performance of Tiâ€“Si-Based in Situ Composites. Tribology Transactions, 2016, 59, 340-351.	1.1	6
28	Frictional Properties of PVA Hydrogel. , 2016, , 159-164.		0
29	Visualization of lubricating films between artificial head and cup with respect to real geometry. Biotribology, 2015, 1-2, 61-65.	0.9	23
30	Lubricant Rupture Ratio at Elastohydrodynamically Lubricated Contact Outlet. Tribology Letters, 2015, 59, 1.	1.2	12
31	FILM THICKNESS MAPPING IN LUBRICATED CONTACTS USING FLUORESCENCE. MM Science Journal, 2015, 2015, 821-824.	0.2	4
32	Qualitative Analysis of Film Thickness in Rolling EHD Contact by Fluorescence Technique. Lecture Notes in Mechanical Engineering, 2014, , 615-622.	0.3	1