

# David NeÄas

## List of Publications by Year in descending order

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32  
papers

445  
citations

623188

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h-index

752256

20  
g-index

33  
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33  
docs citations

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times ranked

245  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Dependence of Rheology of Hyaluronic Acid Solutions and Frictional Behavior of Articular Cartilage. <i>Materials</i> , 2020, 13, 2659.	1.3	37
2	The effect of lubricant constituents on lubrication mechanisms in hip joint replacements. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 55, 295-307.	1.5	29
3	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
4	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
5	The Influence of Proteins and Speed on Friction and Adsorption of Metal/UHMWPE Contact Pair. <i>Biotribology</i> , 2017, 11, 51-59.	0.9	24
6	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
7	The Effect of Synovial Fluid Composition, Speed and Load on Frictional Behaviour of Articular Cartilage. <i>Materials</i> , 2020, 13, 1334.	1.3	24
8	Visualization of lubricating films between artificial head and cup with respect to real geometry. <i>Biotribology</i> , 2015, 1-2, 61-65.	0.9	23
9	Towards the understanding of lubrication mechanisms in total knee replacements – Part II: Numerical modeling. <i>Tribology International</i> , 2021, 156, 106809.	3.0	22
10	Towards the understanding of lubrication mechanisms in total knee replacements – Part I: Experimental investigations. <i>Tribology International</i> , 2021, 156, 106874.	3.0	20
11	Lubrication within hip replacements – Implication for ceramic-on-hard bearing couples. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 61, 371-383.	1.5	19
12	In situ observation of lubricant film formation in THR considering real conformity: The effect of diameter, clearance and material. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 69, 66-74.	1.5	19
13	Rheological and frictional analysis of viscosupplements towards improved lubrication of human joints. <i>Tribology International</i> , 2021, 160, 107030.	3.0	17
14	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
15	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
16	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
17	Lubricant Rupture Ratio at Elastohydrodynamically Lubricated Contact Outlet. <i>Tribology Letters</i> , 2015, 59, 1.	1.2	12
18	Observation of lubrication mechanisms in knee replacement: A pilot study. <i>Biotribology</i> , 2019, 17, 1-7.	0.9	12

#	ARTICLE	IF	CITATIONS
19	The Effect of Kinematic Conditions and Synovial Fluid Composition on the Frictional Behaviour of Materials for Artificial Joints. <i>Materials</i> , 2018, 11, 767.	1.3	11
20	Visualization of Lubrication Film in Model of Synovial Joint. <i>Tribology in Industry</i> , 2019, 41, 387-393.	0.5	10
21	Insight into the Lubrication and Adhesion Properties of Hyaluronan for Ocular Drug Delivery. <i>Biomolecules</i> , 2021, 11, 1431.	1.8	9
22	Tribological Performance of TiÄ“Si-Based in Situ Composites. <i>Tribology Transactions</i> , 2016, 59, 340-351.	1.1	6
23	The Effect of Kinematic Conditions on Film Thickness in Compliant Lubricated Contact. <i>Journal of Tribology</i> , 2018, 140, .	1.0	5
24	Towards the direct validation of computational lubrication modelling of hip replacements. <i>Tribology International</i> , 2020, 146, 106240.	3.0	5
25	FILM THICKNESS MAPPING IN LUBRICATED CONTACTS USING FLUORESCENCE. <i>MM Science Journal</i> , 2015, 2015, 821-824.	0.2	4
26	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
27	Development of Tribological Model of Human Fascia: The Influence of Material Hardness and Motion Speed. <i>Biotribology</i> , 2022, 30, 100209.	0.9	3
28	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
29	Qualitative Analysis of Film Thickness in Rolling EHD Contact by Fluorescence Technique. <i>Lecture Notes in Mechanical Engineering</i> , 2014, , 615-622.	0.3	1
30	Development of reciprocating tribometer for testing synovial joint. , 2018, , .		1
31	Frictional Properties of PVA Hydrogel. , 2016, , 159-164.		0
32	Effect of hyaluronic acid on friction of articular cartilage. , 2018, , .		0