

# Yulia Merkher

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

763  
citations

687363

13  
h-index

888059

17  
g-index

20  
all docs

20  
docs citations

20  
times ranked

983  
citing authors

#	ARTICLE	IF	CITATIONS
1	Articular Cartilage Proteoglycans As Boundary Lubricants: Structure and Frictional Interaction of Surface-Attached Hyaluronan and Hyaluronan-aggrecan Complexes. <i>Biomacromolecules</i> , 2011, 12, 3432-3443.	5.4	120
2	Liposomes Act as Effective Biolubricants for Friction Reduction in Human Synovial Joints. <i>Langmuir</i> , 2010, 26, 1107-1116.	3.5	108
3	Biochemical composition and turnover of the extracellular matrix of the normal and degenerate intervertebral disc. <i>European Spine Journal</i> , 2014, 23, 344-353.	2.2	94
4	Normal and Shear Interactions between Hyaluronan-aggrecan Complexes Mimicking Possible Boundary Lubricants in Articular Cartilage in Synovial Joints. <i>Biomacromolecules</i> , 2012, 13, 3823-3832.	5.4	72
5	A rational human joint friction test using a human cartilage-on-cartilage arrangement. <i>Tribology Letters</i> , 2006, 22, 29-36.	2.6	59
6	Advances in the diagnosis of degenerated lumbar discs and their possible clinical application. <i>European Spine Journal</i> , 2014, 23, 315-323.	2.2	53
7	Injectable hydrogels with high fixed charge density and swelling pressure for nucleus pulposus repair: Biomimetic glycosaminoglycan analogues. <i>Acta Biomaterialia</i> , 2014, 10, 1124-1133.	8.3	46
8	Correlation of swelling pressure and intrafibrillar water in young and aged human intervertebral discs. <i>Journal of Orthopaedic Research</i> , 2006, 24, 1292-1298.	2.3	45
9	Are disc pressure, stress, and osmolarity affected by intra- and extrafibrillar fluid exchange?. <i>Journal of Orthopaedic Research</i> , 2007, 25, 1317-1324.	2.3	36
10	Proximity of Metastatic Cells Enhances Their Mechanobiological Invasiveness. <i>Annals of Biomedical Engineering</i> , 2017, 45, 1399-1406.	2.5	26
11	Lung mechanics modifications facilitating metastasis are mediated in part by breast cancer-derived extracellular vesicles. <i>International Journal of Cancer</i> , 2020, 147, 2924-2933.	5.1	23
12	Longevity of elastin in human intervertebral disc as probed by the racemization of aspartic acid. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1671-1677.	2.4	21
13	Prolyl hydroxylation in elastin is not random. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2169-2177.	2.4	19
14	Taxol reduces synergistic, mechanobiological invasiveness of metastatic cells. <i>Convergent Science Physical Oncology</i> , 2017, 3, 044002.	2.6	14
15	Actin as a Target to Reduce Cell Invasiveness in Initial Stages of Metastasis. <i>Annals of Biomedical Engineering</i> , 2021, 49, 1342-1352.	2.5	10
16	A needle micro-osmometer for determination of glycosaminoglycan concentration in excised nucleus pulposus tissue. <i>European Spine Journal</i> , 2013, 22, 1765-1773.	2.2	8
17	Rapid, quantitative prediction of tumor invasiveness in non-melanoma skin cancers using mechanobiology-based assay. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 1767-1774.	2.8	6
18	Abstract PO-042: Nanoparticles imaging for cancer metastasis diagnosis. , 2021, , .		3

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19	Surface Active Phospholipids as Cartilage Lubricants. , 2008, , .		0
20	Proximity of Metastatic Cells Strengthens the Mechanical Interaction with Their Environment. Lecture Notes in Bioengineering, 2018, , 253-258.	0.4	0