

Matthew J Paszek

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7212009/publications.pdf>

Version: 2024-02-01

28
papers

5,822
citations

516561

16
h-index

501076

28
g-index

32
all docs

32
docs citations

32
times ranked

8120
citing authors

#	ARTICLE	IF	CITATIONS
1	Tensional homeostasis and the malignant phenotype. <i>Cancer Cell</i> , 2005, 8, 241-254.	7.7	3,397
2	The cancer glycocalyx mechanically primes integrin-mediated growth and survival. <i>Nature</i> , 2014, 511, 319-325.	13.7	610
3	The Tension Mounts: Mechanics Meets Morphogenesis and Malignancy. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2004, 9, 325-342.	1.0	410
4	Integrin Clustering Is Driven by Mechanical Resistance from the Glycocalyx and the Substrate. <i>PLoS Computational Biology</i> , 2009, 5, e1000604.	1.5	217
5	CLASPs link focal-adhesion-associated microtubule capture to localized exocytosis and adhesion site turnover. <i>Nature Cell Biology</i> , 2014, 16, 558-570.	4.6	206
6	Physical Principles of Membrane Shape Regulation by the Glycocalyx. <i>Cell</i> , 2019, 177, 1757-1770.e21.	13.5	187
7	Force Engages Vinculin and Promotes Tumor Progression by Enhancing PI3K Activation of Phosphatidylinositol (3,4,5)-Triphosphate. <i>Cancer Research</i> , 2014, 74, 4597-4611.	0.4	168
8	Physical biology of the cancer cell glycocalyx. <i>Nature Physics</i> , 2018, 14, 658-669.	6.5	104
9	Scanning angle interference microscopy reveals cell dynamics at the nanoscale. <i>Nature Methods</i> , 2012, 9, 825-827.	9.0	102
10	Nuclear Deformation Causes DNA Damage by Increasing Replication Stress. <i>Current Biology</i> , 2021, 31, 753-765.e6.	1.8	97
11	Direct comparison of optical and electron microscopy methods for structural characterization of extracellular vesicles. <i>Journal of Structural Biology</i> , 2020, 210, 107474.	1.3	64
12	Genetically Encoded Toolbox for Glycocalyx Engineering: Tunable Control of Cell Adhesion, Survival, and Cancer Cell Behaviors. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 388-399.	2.6	46
13	Galectin-1 and galectin-3 expression in equine mesenchymal stromal cells (MSCs), synovial fibroblasts and chondrocytes, and the effect of inflammation on MSC motility. <i>Stem Cell Research and Therapy</i> , 2017, 8, 243.	2.4	41
14	Equilibrium Modeling of the Mechanics and Structure of the Cancer Glycocalyx. <i>Biophysical Journal</i> , 2019, 116, 694-708.	0.2	27
15	The surface stress of biomedical silicones is a stimulant of cellular response. <i>Science Advances</i> , 2020, 6, eaay0076.	4.7	23
16	Glycocalyx Curving the Membrane: Forces Emerging from the Cell Exterior. <i>Annual Review of Cell and Developmental Biology</i> , 2021, 37, 257-283.	4.0	19
17	Sequence-Specific Mucins for Glycocalyx Engineering. <i>ACS Synthetic Biology</i> , 2019, 8, 2315-2326.	1.9	17
18	Antibody-Mediated Endocytosis of Polysialic Acid Enables Intracellular Delivery and Cytotoxicity of a Glycan-Directed Antibody-Drug Conjugate. <i>Cancer Research</i> , 2019, 79, 1810-1821.	0.4	14

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19	High-speed device synchronization in optical microscopy with an open-source hardware control platform. <i>Scientific Reports</i> , 2019, 9, 12188.	1.6	13
20	Investigation of synovial fluid lubricants and inflammatory cytokines in the horse: a comparison of recombinant equine interleukin 1 beta-induced synovitis and joint lavage models. <i>BMC Veterinary Research</i> , 2021, 17, 189.	0.7	10
21	Enforcing Order on Signaling. <i>Science</i> , 2010, 327, 1335-1336.	6.0	9
22	Stable recombinant production of codon-scrambled lubricin and mucin in human cells. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1292-1303.	1.7	9
23	Hyaluronic acid synthesis, degradation, and crosslinking in equine osteoarthritis: TNF- α -TSG-6-mediated HC-HA formation. <i>Arthritis Research and Therapy</i> , 2021, 23, 218.	1.6	9
24	Nanoscale cellular imaging with scanning angle interference microscopy. <i>Methods in Cell Biology</i> , 2014, 123, 235-252.	0.5	5
25	Mucin-coating technologies for protection and reduced aggregation of cellular production systems. <i>Biotechnology and Bioengineering</i> , 2019, 116, 994-1005.	1.7	4
26	Azimuthal Beam Scanning Microscope Design and Implementation for Axial Localization with Scanning Angle Interference Microscopy. <i>Methods in Molecular Biology</i> , 2022, 2393, 127-152.	0.4	4
27	Litmus-Body: A Molecularly Targeted Sensor for Cell-Surface pH Measurements. <i>ACS Sensors</i> , 2020, 5, 1555-1566.	4.0	2
28	Revealing Mechanisms of Microvesicle Biogenesis in Breast Cancer Cells via in situ Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 1256-1257.	0.2	1