

# Alexander P Nesmith

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8561016/publications.pdf>

Version: 2024-02-01

15  
papers

1,781  
citations

567144

15  
h-index

996849

15  
g-index

17  
all docs

17  
docs citations

17  
times ranked

3253  
citing authors

#	ARTICLE	IF	CITATIONS
1	Instrumented cardiac microphysiological devices via multimaterial three-dimensional printing. <i>Nature Materials</i> , 2017, 16, 303-308.	13.3	652
2	Generation of human muscle fibers and satellite-like cells from human pluripotent stem cells in vitro. <i>Nature Protocols</i> , 2016, 11, 1833-1850.	5.5	215
3	Micromolded gelatin hydrogels for extended culture of engineered cardiac tissues. <i>Biomaterials</i> , 2014, 35, 5462-5471.	5.7	182
4	Muscle on a chip: In vitro contractility assays for smooth and striated muscle. <i>Journal of Pharmacological and Toxicological Methods</i> , 2012, 65, 126-135.	0.3	147
5	Vascular smooth muscle contractility depends on cell shape. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 1063-1070.	0.6	110
6	Micropatterning Alginate Substrates for In Vitro Cardiovascular Muscle on a Chip. <i>Advanced Functional Materials</i> , 2013, 23, 3738-3746.	7.8	103
7	Human airway musculature on a chip: an in vitro model of allergic asthmatic bronchoconstriction and bronchodilation. <i>Lab on A Chip</i> , 2014, 14, 3925-3936.	3.1	71
8	A human in vitro model of Duchenne muscular dystrophy muscle formation and contractility. <i>Journal of Cell Biology</i> , 2016, 215, 47-56.	2.3	61
9	Design and Fabrication of Fibrous Nanomaterials Using Pull Spinning. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600404.	1.7	41
10	The Role of Mechanotransduction on Vascular Smooth Muscle Myocytes Cytoskeleton and Contractile Function. <i>Anatomical Record</i> , 2014, 297, 1758-1769.	0.8	38
11	Toward improved myocardial maturity in an organ-on-chip platform with immature cardiac myocytes. <i>Experimental Biology and Medicine</i> , 2017, 242, 1643-1656.	1.1	38
12	The contractile strength of vascular smooth muscle myocytes is shape dependent. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 152-163.	0.6	34
13	Prednisolone rescues Duchenne muscular dystrophy phenotypes in human pluripotent stem cell-derived skeletal muscle in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	32
14	Mechanotransduction and Metabolism in Cardiomyocyte Microdomains. <i>BioMed Research International</i> , 2016, 2016, 1-17.	0.9	30
15	Continuous Formation of Ultrathin, Strong Collagen Sheets with Tunable Anisotropy and Compaction. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 4236-4246.	2.6	23