

# Janna C Nawroth

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8090065/publications.pdf>

Version: 2024-02-01

23  
papers

2,459  
citations

394421

19  
h-index

610901

24  
g-index

28  
all docs

28  
docs citations

28  
times ranked

3778  
citing authors

#	ARTICLE	IF	CITATIONS
1	A tissue-engineered jellyfish with biomimetic propulsion. <i>Nature Biotechnology</i> , 2012, 30, 792-797.	17.5	536
2	A linked organ-on-chip model of the human neurovascular unit reveals the metabolic coupling of endothelial and neuronal cells. <i>Nature Biotechnology</i> , 2018, 36, 865-874.	17.5	310
3	Reproducing human and cross-species drug toxicities using a Liver-Chip. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	287
4	Robotic fluidic coupling and interrogation of multiple vascularized organ chips. <i>Nature Biomedical Engineering</i> , 2020, 4, 407-420.	22.5	256
5	Matched-Comparative Modeling of Normal and Diseased Human Airway Responses Using a Microengineered Breathing Lung Chip. <i>Cell Systems</i> , 2016, 3, 456-466.e4.	6.2	227
6	Motile cilia create fluid-mechanical microhabitats for the active recruitment of the host microbiome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9510-9516.	7.1	93
7	Mixing and transport by ciliary carpets: a numerical study. <i>Journal of Fluid Mechanics</i> , 2014, 743, 124-140.	3.4	78
8	A Microengineered Airway Lung Chip Models Key Features of Viral-induced Exacerbation of Asthma. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 591-600.	2.9	75
9	An Energy Budget for the Olfactory Glomerulus. <i>Journal of Neuroscience</i> , 2007, 27, 9790-9800.	3.6	68
10	High-Resolution Three-Dimensional Extracellular Recording of Neuronal Activity With Microfabricated Electrode Arrays. <i>Journal of Neurophysiology</i> , 2009, 101, 1671-1678.	1.8	67
11	Laminar ventricular myocardium on a microelectrode array-based chip. <i>Journal of Materials Chemistry B</i> , 2016, 4, 3534-3543.	5.8	60
12	Modeling of cardiac muscle thin films: Pre-stretch, passive and active behavior. <i>Journal of Biomechanics</i> , 2012, 45, 832-841.	2.1	52
13	Stem cell-based Lung-on-Chips: The best of both worlds?. <i>Advanced Drug Delivery Reviews</i> , 2019, 140, 12-32.	13.7	52
14	Stem cells and lung regeneration. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 319, C675-C693.	4.6	50
15	Automated fabrication of photopatterned gelatin hydrogels for organ-on-chips applications. <i>Biofabrication</i> , 2018, 10, 025004.	7.1	48
16	Cilia beating patterns are not hydrodynamically optimal. <i>Physics of Fluids</i> , 2014, 26, .	4.0	46
17	Modeling alcohol-associated liver disease in a human Liver-Chip. <i>Cell Reports</i> , 2021, 36, 109393.	6.4	37
18	Organ-on-a-Chip Systems for Women's Health Applications. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700550.	7.6	31

#	ARTICLE	IF	CITATIONS
19	Multiscale mechanics of mucociliary clearance in the lung. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190160.	4.0	31
20	Design standards for engineered tissues. Biotechnology Advances, 2013, 31, 632-637.	11.7	11
21	How Does Soft Robotics Drive Research in Animal Locomotion?. Soft Robotics, 2014, 1, 161-168.	8.0	10
22	A Computational Model for Tail Undulation and Fluid Transport in the Giant Larvacean. Fluids, 2021, 6, 88.	1.7	4
23	Effect of swarm configuration on fluid transport during vertical collective motion. Bioinspiration and Biomimetics, 2020, 15, 015002.	2.9	2