

# Aditya Kumar

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2193856/publications.pdf>

Version: 2024-02-01

18  
papers

1,144  
citations

759233

12  
h-index

839539

18  
g-index

19  
all docs

19  
docs citations

19  
times ranked

2041  
citing authors

#	ARTICLE	IF	CITATIONS
1	RAP2 mediates mechanoresponses of the Hippo pathway. <i>Nature</i> , 2018, 560, 655-660.	27.8	266
2	Mechanical regulation of cardiac fibroblast profibrotic phenotypes. <i>Molecular Biology of the Cell</i> , 2017, 28, 1871-1882.	2.1	160
3	Understanding the extracellular forces that determine cell fate and maintenance. <i>Development (Cambridge)</i> , 2017, 144, 4261-4270.	2.5	147
4	Matrix Rigidity Controls Epithelial-Mesenchymal Plasticity and Tumor Metastasis via a Mechanoresponsive EPHA2/LYN Complex. <i>Developmental Cell</i> , 2020, 54, 302-316.e7.	7.0	128
5	Dynamically stiffened matrix promotes malignant transformation of mammary epithelial cells via collective mechanical signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3502-3507.	7.1	108
6	Unveiling the Role of the Most Impactful Cardiovascular Risk Locus through Haplotype Editing. <i>Cell</i> , 2018, 175, 1796-1810.e20.	28.9	95
7	Matrix stiffness mechanically conditions EMT and migratory behavior of oral squamous cell carcinoma. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	60
8	Cell Adhesiveness Serves as a Biophysical Marker for Metastatic Potential. <i>Cancer Research</i> , 2020, 80, 901-911.	0.9	46
9	3D collagen architecture regulates cell adhesion through degradability, thereby controlling metabolic and oxidative stress. <i>Integrative Biology (United Kingdom)</i> , 2019, 11, 221-234.	1.3	33
10	Mechanical activation of noncoding-RNA-mediated regulation of disease-associated phenotypes in human cardiomyocytes. <i>Nature Biomedical Engineering</i> , 2019, 3, 137-146.	22.5	30
11	Facile Engineering of Long-Term Culturable Ex Vivo Vascularized Tissues Using Biologically Derived Matrices. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800845.	7.6	23
12	Differential Aortic and Mitral Valve Interstitial Cell Mineralization and the Induction of Mineralization by Lysophosphatidylcholine In Vitro. <i>Cardiovascular Engineering and Technology</i> , 2014, 5, 371-383.	1.6	15
13	Programmatic introduction of parenchymal cell types into blood vessel organoids. <i>Stem Cell Reports</i> , 2021, 16, 2432-2441.	4.8	11
14	Gentamicin Reduces Calcific Nodule Formation by Aortic Valve Interstitial Cells In Vitro. <i>Cardiovascular Engineering and Technology</i> , 2013, 4, 16-25.	1.6	7
15	H-Ras Transformation of Mammary Epithelial Cells Induces ERK-Mediated Spreading on Low Stiffness Matrix. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901366.	7.6	7
16	The Ryanodine Receptor Contributes to the Lysophosphatidylcholine-Induced Mineralization in Valvular Interstitial Cells. <i>Cardiovascular Engineering and Technology</i> , 2020, 11, 316-327.	1.6	4
17	High shear stress enhances endothelial permeability in the presence of the risk haplotype at 9p21.3. <i>APL Bioengineering</i> , 2021, 5, 036102.	6.2	3
18	Mapping regulators of cell fate determination: Approaches and challenges. <i>APL Bioengineering</i> , 2020, 4, 031501.	6.2	1