

# Kristina Haase

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8770612/publications.pdf>

Version: 2024-02-01

29  
papers

1,410  
citations

516710

16  
h-index

552781

26  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2234  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Investigating cell mechanics with atomic force microscopy. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20140970.   | 3.4  | 288       |
| 2  | Apple Derived Cellulose Scaffolds for 3D Mammalian Cell Culture. <i>PLoS ONE</i> , 2014, 9, e97835.  | 2.5  | 162       |
| 3  | Advances in on-chip vascularization. <i>Regenerative Medicine</i> , 2017, 12, 285-302.   | 1.7  | 125       |
| 4  | The effects of monocytes on tumor cell extravasation in a 3D vascularized microfluidic model. <i>Biomaterials</i> , 2019, 198, 180-193.  | 11.4 | 110       |
| 5  | Extracellular Forces Cause the Nucleus to Deform in a Highly Controlled Anisotropic Manner. <i>Scientific Reports</i> , 2016, 6, 21300.  | 3.3  | 85        |
| 6  | An on-chip model of protein paracellular and transcellular permeability in the microcirculation. <i>Biomaterials</i> , 2019, 212, 115-125.   | 11.4 | 80        |
| 7  | Endothelial Regulation of Drug Transport in a 3D Vascularized Tumor Model. <i>Advanced Functional Materials</i> , 2020, 30, 2002444.   | 14.9 | 78        |
| 8  | Mechanical cues in cellular signalling and communication. <i>Cell and Tissue Research</i> , 2013, 352, 77-94.  | 2.9  | 68        |
| 9  | Pericytes Contribute to Dysfunction in a Human 3D Model of Placental Microvasculature through VEGF&Ang&Tie2 Signaling. <i>Advanced Science</i> , 2019, 6, 1900878.                       | 11.2 | 65        |
| 10 | Prediction of stress shielding around an orthopedic screw: Using stress and strain energy density as mechanical stimuli. <i>Computers in Biology and Medicine</i> , 2013, 43, 1748-1757. | 7.0  | 61        |
| 11 | Force transduction and strain dynamics in actin stress fibres in response to nanonewton forces. <i>Journal of Cell Science</i> , 2012, 125, 603-613.                                     | 2.0  | 56        |
| 12 | Resiliency of the plasma membrane and actin cortex to large&scale deformation. <i>Cytoskeleton</i> , 2013, 70, 494-514.  | 2.0  | 36        |
| 13 | Physiologic flow-conditioning limits vascular dysfunction in engineered human capillaries. <i>Biomaterials</i> , 2022, 280, 121248.  | 11.4 | 23        |
| 14 | The role of the actin cortex in maintaining cell shape. <i>Communicative and Integrative Biology</i> , 2013, 6, e26714.  | 1.4  | 19        |
| 15 | Mechanical Cues Direct Focal Adhesion Dynamics. <i>Progress in Molecular Biology and Translational Science</i> , 2014, 126, 103-134.   | 1.7  | 19        |
| 16 | Microtubules mediate changes in membrane cortical elasticity during contractile activation. <i>Experimental Cell Research</i> , 2014, 322, 21-29.  | 2.6  | 19        |
| 17 | Modelling the Human Placental Interface In Vitro&A Review. <i>Micromachines</i> , 2021, 12, 884.   | 2.9  | 19        |
| 18 | Engineering Breast Cancer On-chip&Moving Toward Subtype Specific Models. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 694218.   | 4.1  | 18        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | A Discussion on Plating Factors that Affect Stress Shielding Using Finite Element Analysis. Journal of Biomechanical Science and Engineering, 2010, 5, 129-141. | 0.3  | 14        |
| 20 | A novel 3D vascular assay for evaluating angiogenesis across porous membranes. Biomaterials, 2021, 268, 120592.   | 11.4 | 14        |
| 21 | Classical and Non-classical Fibrosis Phenotypes Are Revealed by Lung and Cardiac Like Microvascular Tissues On-Chip. Frontiers in Physiology, 2021, 12, 735915. | 2.8  | 13        |
| 22 | Strategies for controlling egress of therapeutic cells from hydrogel microcapsules. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 612-624. | 2.7  | 12        |
| 23 | Once upon a dish: engineering multicellular systems. Development (Cambridge), 2020, 147, .  | 2.5  | 10        |
| 24 | Cysteine cathepsins are altered by flow within an engineered <i>in vitro</i> microvascular niche. APL Bioengineering, 2020, 4, 046102.                          | 6.2  | 7         |
| 25 | Rapid dynamics of cell-shape recovery in response to local deformations. Soft Matter, 2017, 13, 567-577.  | 2.7  | 3         |
| 26 | Seasonal changes in membrane structure and excitability in retinal neurons of goldfish ( <i>Carassius</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf                   | 1.7  | 1         |
| 27 | The Role of the Cortex and the Cytoplasm in Deformations of the Plasma Membrane. Biophysical Journal, 2014, 106, 361a.  | 0.5  | 0         |
| 28 | Simultaneous optical and mechanical probes to investigate complex cellular responses to physical cues. , 2015, , .  |      | 0         |
| 29 | Computational and Experimental Approaches to Cellular and Subcellular Tracking at the Nanoscale. , 2018, , 333-362.   |      | 0         |