# Paul MÃ¼ller

## List of Publications by Year
## in descending order

| 24 papers | 1,319 citations | 516561<br>16 h-index | 610775<br>24 g-index |
|---|---|---|---|
| 30 all docs | 30 docs citations | 30 times ranked | 2013 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | A pH-driven transition of the cytoplasm from a fluid- to a solid-like state promotes entry into dormancy. ELife, 2016, 5, . | 2.8 | 355 |
| 2 | Cell nuclei have lower refractive index and mass density than cytoplasm. Journal of Biophotonics, 2016, 9, 1068-1076. | 1.1 | 139 |
| 3 | Mechanical Mapping of Spinal Cord Growth and Repair in Living Zebrafish Larvae by Brillouin Imaging. Biophysical Journal, 2018, 115, 911-923. | 0.2 | 133 |
| 4 | Intelligent image-based deformation-assisted cell sorting with molecular specificity. Nature Methods, 2020, 17, 595-599. | 9.0 | 109 |
| 5 | Standardized microgel beads as elastic cell mechanical probes. Journal of Materials Chemistry B, 2018, 6, 6245-6261. | 2.9 | 78 |
| 6 | Three‐dimensional correlative single‐cell imaging utilizing fluorescence and refractive index tomography. Journal of Biophotonics, 2018, 11, e201700145. | 1.1 | 75 |
| 7 | PyCorrFit—generic data evaluation for fluorescence correlation spectroscopy. Bioinformatics, 2014, 30, 2532-2533. | 1.8 | 74 |
| 8 | Real-Time Deformability Cytometry: Label-Free Functional Characterization of Cells. Methods in Molecular Biology, 2018, 1678, 347-369. | 0.4 | 40 |
| 9 | Statistics for real-time deformability cytometry: Clustering, dimensionality reduction, and significance testing. Biomicrofluidics, 2018, 12, 042214. | 1.2 | 39 |
| 10 | Correlative all-optical quantification of mass density and mechanics of subcellular compartments with fluorescence specificity. ELife, 2022, 11, . | 2.8 | 37 |
| 11 | Single-cell mechanical phenotype is an intrinsic marker of reprogramming and differentiation along the mouse neural lineage. Development (Cambridge), 2017, 144, 4313-4321. | 1.2 | 34 |
| 12 | Droplet-Assisted Microfluidic Fabrication and Characterization of Multifunctional Polysaccharide Microgels Formed by Multicomponent Reactions. Polymers, 2018, 10, 1055. | 2.0 | 32 |
| 13 | Refractive index measurements of single, spherical cells using digital holographic microscopy. Methods in Cell Biology, 2015, 125, 143-159. | 0.5 | 30 |
| 14 | nanite: using machine learning to assess the quality of atomic force microscopy-enabled nano-indentation data. BMC Bioinformatics, 2019, 20, 465. | 1.2 | 29 |
| 15 | ODTbrain: a Python library for full-view, dense diffraction tomography. BMC Bioinformatics, 2015, 16, 367. | 1.2 | 23 |
| 16 | Accurate evaluation of size and refractive index for spherical objects in quantitative phase imaging. Optics Express, 2018, 26, 10729. | 1.7 | 19 |
| 17 | An explicit model to extract viscoelastic properties of cells from AFM force-indentation curves. IScience, 2022, 25, 104016. | 1.9 | 13 |
| 18 | DryMass: handling and analyzing quantitative phase microscopy images of spherical, cell-sized objects. BMC Bioinformatics, 2020, 21, 226. | 1.2 | 11 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Colloidal crystals of compliant microgel beads to study cell migration and mechanosensitivity in 3D. Soft Matter, 2019, 15, 9776-9787. | 1.2 | 8 |
| 20 | Scanning Fluorescence Correlation Spectroscopy (SFCS) with a Scan Path Perpendicular to the Membrane Plane. Methods in Molecular Biology, 2014, 1076, 635-651. | 0.4 | 7 |
| 21 | <i>In vivo</i> assessment of mechanical properties during axolotl development and regeneration using confocal Brillouin microscopy. Open Biology, 2022, 12, . | 1.5 | 6 |
| 22 | Single-cell diffraction tomography with optofluidic rotation about a tilted axis. Proceedings of SPIE, 2015, , . | 0.8 | 5 |
| 23 | PNIPAAm microgels with defined network architecture as temperature sensors in optical stretchers. Materials Advances, 2022, 3, 6179-6190. | 2.6 | 5 |
| 24 | Response to Comment on â€œCell nuclei have lower refractive index and mass density than cytoplasmâ€• Journal of Biophotonics, 2018, 11, e201800095. | 1.1 | 4 |