

Dirk R Albrecht

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

2,725
citations

471509

17
h-index

610901

24
g-index

31
all docs

31
docs citations

31
times ranked

3362
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Probing the role of multicellular organization in three-dimensional microenvironments. <i>Nature Methods</i> , 2006, 3, 369-375. | 19.0 | 523 |
| 2 | Serotonin and the Neuropeptide PDF Initiate and Extend Opposing Behavioral States in <i>C.Âelegans</i> . <i>Cell</i> , 2013, 154, 1023-1035. | 28.9 | 356 |
| 3 | Photo- and electropatterning of hydrogel-encapsulated living cell arrays. <i>Lab on A Chip</i> , 2005, 5, 111. | 6.0 | 257 |
| 4 | Oxytocin/Vasopressin-Related Peptides Have an Ancient Role in Reproductive Behavior. <i>Science</i> , 2012, 338, 540-543. | 12.6 | 225 |
| 5 | High-content behavioral analysis of <i>Caenorhabditis elegans</i> in precise spatiotemporal chemical environments. <i>Nature Methods</i> , 2011, 8, 599-605. | 19.0 | 214 |
| 6 | Neuropeptide feedback modifies odor-evoked dynamics in <i>Caenorhabditis elegans</i> olfactory neurons. <i>Nature Neuroscience</i> , 2010, 13, 615-621. | 14.8 | 213 |
| 7 | Assessment of hepatocellular function within PEG hydrogels. <i>Biomaterials</i> , 2007, 28, 256-270. | 11.4 | 188 |
| 8 | High-throughput imaging of neuronal activity in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4266-73. | 7.1 | 164 |
| 9 | A Circuit for Gradient Climbing in <i>C.Âelegans</i> Chemotaxis. <i>Cell Reports</i> , 2015, 12, 1748-1760. | 6.4 | 120 |
| 10 | Geometric and Material Determinants of Patterning Efficiency by Dielectrophoresis. <i>Biophysical Journal</i> , 2004, 87, 2131-2147. | 0.5 | 75 |
| 11 | Multiphase electropatterning of cells and biomaterials. <i>Lab on A Chip</i> , 2007, 7, 702. | 6.0 | 75 |
| 12 | A Single-Neuron Chemosensory Switch Determines the Valence of a Sexually Dimorphic Sensory Behavior. <i>Current Biology</i> , 2018, 28, 902-914.e5. | 3.9 | 60 |
| 13 | Rapid and gentle hydrogel encapsulation of living organisms enables long-term microscopy over multiple hours. <i>Communications Biology</i> , 2018, 1, 73. | 4.4 | 46 |
| 14 | Phosphofructokinase relocates into subcellular compartments with liquid-like properties inÂvivo. <i>Biophysical Journal</i> , 2021, 120, 1170-1186. | 0.5 | 39 |
| 15 | Optical Method to Quantify Mechanical Contraction and Calcium Transients of Human Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 445-454. | 2.1 | 27 |
| 16 | Microfluidics-integrated time-lapse imaging for analysis of cellular dynamics. <i>Integrative Biology (United Kingdom)</i> , 2010, 2, 278. | 1.3 | 26 |
| 17 | Antiâ€œF</sc>as conjugated hyaluronic acid microsphere gels for neural stem cell delivery. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 608-618. | 4.0 | 20 |
| 18 | Microfluidic Devices for Behavioral Analysis, Microscopy, and Neuronal Imaging in <i>Caenorhabditis elegans</i> . <i>Methods in Molecular Biology</i> , 2015, 1327, 159-179. | 0.9 | 19 |

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|----|--|-----|-----------|
| 19 | A polymer index-matched to water enables diverse applications in fluorescence microscopy. <i>Lab on A Chip</i> , 2021, 21, 1549-1562. | 6.0 | 18 |
| 20 | Automated fluid delivery from multiwell plates to microfluidic devices for high-throughput experiments and microscopy. <i>Scientific Reports</i> , 2018, 8, 6217. | 3.3 | 15 |
| 21 | Using an Adapted Microfluidic Olfactory Chip for the Imaging of Neuronal Activity in Response to Pheromones in Male <i>C. Elegans</i> Head Neurons. <i>Journal of Visualized Experiments</i> , 2017, , . | 0.3 | 14 |
| 22 | Silk Particle Production Based on Silk/PVA Phase Separation Using a Microfabricated Co-flow Device. <i>Molecules</i> , 2020, 25, 890. | 3.8 | 13 |
| 23 | Sleep Analysis in Adult <i>C. elegans</i> Reveals State-Dependent Alteration of Neural and Behavioral Responses. <i>Journal of Neuroscience</i> , 2021, 41, 1892-1907. | 3.6 | 13 |
| 24 | From pixel to voxel in the clinical diagnosis. , 2016, , . | | 1 |
| 25 | Monitoring neural activity during sleep/wake events in adult <i>C.Âelegans</i> by automated sleep detection and stimulation. <i>STAR Protocols</i> , 2022, 3, 101532. | 1.2 | 1 |
| 26 | Automated Functional Screening for Modulators of Optogenetically Activated Neural Responses in Living Organisms. <i>Methods in Molecular Biology</i> , 2021, 2191, 221-233. | 0.9 | 0 |
| 27 | Microfluidic Devices for Behavioral Analysis, Microscopy, and Neuronal Imaging in <i>Caenorhabditis elegans</i> . <i>Methods in Molecular Biology</i> , 2022, 2468, 293-318. | 0.9 | 0 |