

Albrecht Ott

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7411065/publications.pdf>

Version: 2024-02-01

40
papers

1,666
citations

394421

19
h-index

302126

39
g-index

42
all docs

42
docs citations

42
times ranked

2226
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | A comparison of methods to assess cell mechanical properties. <i>Nature Methods</i> , 2018, 15, 491-498. | 19.0 | 448 |
| 2 | A Master Relation Defines the Nonlinear Viscoelasticity of Single Fibroblasts. <i>Biophysical Journal</i> , 2006, 90, 3796-3805. | 0.5 | 200 |
| 3 | Microplates: a new tool for manipulation and mechanical perturbation of individual cells. <i>Journal of Proteomics</i> , 1999, 39, 47-62. | 2.4 | 134 |
| 4 | Measurement of the elasticity of the actin tail of <i>Listeria monocytogenes</i> . <i>European Biophysics Journal</i> , 2000, 29, 134-140. | 2.2 | 86 |
| 5 | Filament Assembly from Profilin-Actin. <i>Journal of Biological Chemistry</i> , 1999, 274, 6234-6243. | 3.4 | 76 |
| 6 | Shear rheology of a cell monolayer. <i>New Journal of Physics</i> , 2007, 9, 419-419. | 2.9 | 62 |
| 7 | Mechanical Response Analysis and Power Generation by Single-Cell Stretching. <i>ChemPhysChem</i> , 2005, 6, 663-670. | 2.1 | 57 |
| 8 | Single Cell Mechanics: Stress Stiffening and Kinematic Hardening. <i>Physical Review Letters</i> , 2008, 100, 238102. | 7.8 | 57 |
| 9 | An Osmoregulatory Basis for Shape Oscillations in Regenerating Hydra. <i>Biophysical Journal</i> , 2008, 95, 978-985. | 0.5 | 54 |
| 10 | Physico-chemical foundations underpinning microarray and next-generation sequencing experiments. <i>Nucleic Acids Research</i> , 2013, 41, 2779-2796. | 14.5 | 49 |
| 11 | Impact of point-mutations on the hybridization affinity of surface-bound DNA/DNA and RNA/DNA oligonucleotide-duplexes: Comparison of single base mismatches and base bulges. <i>BMC Biotechnology</i> , 2008, 8, 48. | 3.3 | 46 |
| 12 | Cell-free expression with the toxic amino acid canavanine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 3658-3660. | 2.2 | 44 |
| 13 | Mechanogenetic Coupling of Hydra Symmetry Breaking and Driven Turing Instability Model. <i>Biophysical Journal</i> , 2009, 96, 1649-1660. | 0.5 | 41 |
| 14 | Optical Study of DNA Surface Hybridization Reveals DNA Surface Density as a Key Parameter for Microarray Hybridization Kinetics. <i>Biophysical Journal</i> , 2007, 92, 999-1004. | 0.5 | 40 |
| 15 | Position dependent mismatch discrimination on DNA microarrays – experiments and model. <i>BMC Bioinformatics</i> , 2008, 9, 509. | 2.6 | 37 |
| 16 | Chemical Analysis of a “Miller-Type” Complex Prebiotic Broth. <i>Origins of Life and Evolution of Biospheres</i> , 2016, 46, 149-169. | 1.9 | 31 |
| 17 | Hydra Molecular Network Reaches Criticality at the Symmetry-Breaking Axis-Defining Moment. <i>Physical Review Letters</i> , 2006, 97, 258102. | 7.8 | 29 |
| 18 | Versatile maskless microscope projection photolithography system and its application in light-directed fabrication of DNA microarrays. <i>Review of Scientific Instruments</i> , 2006, 77, 063711. | 1.3 | 24 |

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|----|--|-----|-----------|
| 19 | Putative cholesterol-binding sites in human immunodeficiency virus (HIV) coreceptors CXCR4 and CCR5. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 555-567. | 2.6 | 24 |
| 20 | Stability of a Surface-Bound Oligonucleotide Duplex Inferred from Molecular Dynamics: A Study of Single Nucleotide Defects Using DNA Microarrays. <i>Physical Review Letters</i> , 2009, 102, 218301. | 7.8 | 18 |
| 21 | Critical Behavior and Axis Defining Symmetry Breaking in <i>Hydra</i> Embryonic Development. <i>Physical Review Letters</i> , 2012, 108, 158103. | 7.8 | 18 |
| 22 | Stability of double-stranded oligonucleotide DNA with a bulged loop: a microarray study. <i>BMC Biophysics</i> , 2011, 4, 20. | 4.4 | 11 |
| 23 | Chemical Analysis of a Miller-Type Complex Prebiotic Broth. <i>Origins of Life and Evolution of Biospheres</i> , 2017, 47, 381-403. | 1.9 | 11 |
| 24 | Hamming Distance as a Concept in DNA Molecular Recognition. <i>ACS Omega</i> , 2017, 2, 1302-1308. | 3.5 | 10 |
| 25 | Tracking of plus-ends reveals microtubule functional diversity in different cell types. <i>Scientific Reports</i> , 2016, 6, 30285. | 3.3 | 9 |
| 26 | Bead-based assay for spatiotemporal gene expression control in cell-free transcription-translation systems. <i>BioTechniques</i> , 2019, 66, 29-33. | 1.8 | 9 |
| 27 | Residue-specific Incorporation of Noncanonical Amino Acids into Model Proteins Using an <i>Escherichia coli</i> Cell-free Transcription-translation System. <i>Journal of Visualized Experiments</i> , 2016, , . | 0.3 | 8 |
| 28 | Using cell monolayer rheology to probe average single cell mechanical properties. <i>Biorheology</i> , 2015, 52, 269-278. | 0.4 | 6 |
| 29 | Large Amplitude Oscillatory Shear Rheology of Living Fibroblasts: Path-Dependent Steady States. <i>Biophysical Journal</i> , 2017, 113, 1561-1573. | 0.5 | 6 |
| 30 | Acting on actin: The electric motility assay. <i>Biology of the Cell</i> , 1999, 91, 252-252. | 2.0 | 4 |
| 31 | Unbounded growth patterns of reproducing, competing polymers similarities to biological evolution. <i>New Journal of Physics</i> , 2016, 18, 103003. | 2.9 | 4 |
| 32 | Full incorporation of the noncanonical amino acid hydroxylysine as a surrogate for lysine in green fluorescent protein. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 41, 116207. | 3.0 | 3 |
| 33 | Thermal fluctuations of surfactant films in micellar and microemulsion systems. <i>Langmuir</i> , 1991, 7, 1892-1894. | 3.5 | 2 |
| 34 | A bead-based method for the removal of the amino acid lysine from cell-free transcription-translation systems. <i>Journal of Biotechnology</i> , 2020, 324, 100024. | 3.8 | 2 |
| 35 | Photoactivation of Cell-Free Expressed Archaerhodopsin-3 in a Model Cell Membrane. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11981. | 4.1 | 2 |
| 36 | A Miller Urey broth mirrors the mass density distribution of all Beilstein indexed organic molecules. <i>New Journal of Physics</i> , 2018, 20, 105003. | 2.9 | 1 |

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|----|---|-----|-----------|
| 37 | DNA oligomer binding in competition exhibits cooperativity. <i>New Journal of Physics</i> , 2019, 21, 113027. | 2.9 | 1 |
| 38 | Ultrahigh molecular recognition specificity of competing DNA oligonucleotide strands in thermal equilibrium: a cooperative transition to order. <i>New Journal of Physics</i> , 2021, 23, 043044. | 2.9 | 1 |
| 39 | A Methylation-Directed, Synthetic Pap Switch Based on Self-Complementary Regulatory DNA Reconstituted in an All <i>E. coli</i> Cell-Free Expression System. <i>ACS Synthetic Biology</i> , 2021, 10, 2725-2739. | 3.8 | 1 |
| 40 | Information Limited Oligonucleotide Amplification Assay for Affinity-Based, Parallel Detection Studies. <i>PLoS ONE</i> , 2016, 11, e0151072. | 2.5 | 0 |