

Albrecht Ott

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,666
citations

448610

19
h-index

340414

39
g-index

42
all docs

42
docs citations

42
times ranked

2521
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-high 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.	1.2	1
2	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.	1.4	3
3	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.	1.9	1
4	Photoactivation of Cell-Free Expressed Archaerhodopsin-3 in a Model Cell Membrane. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11981.	1.8	2
5	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.	1.9	2
6	Bead-based assay for spatiotemporal gene expression control in cell-free transcription-translation systems. <i>BioTechniques</i> , 2019, 66, 29-33.	0.8	9
7	DNA oligomer binding in competition exhibits cooperativity. <i>New Journal of Physics</i> , 2019, 21, 113027.	1.2	1
8	A Miller-Urey broth mirrors the mass density distribution of all Beilstein indexed organic molecules. <i>New Journal of Physics</i> , 2018, 20, 105003.	1.2	1
9	A comparison of methods to assess cell mechanical properties. <i>Nature Methods</i> , 2018, 15, 491-498.	9.0	448
10	Hamming Distance as a Concept in DNA Molecular Recognition. <i>ACS Omega</i> , 2017, 2, 1302-1308.	1.6	10
11	Chemical Analysis of a Miller-Type Complex Prebiotic Broth. <i>Origins of Life and Evolution of Biospheres</i> , 2017, 47, 381-403.	0.8	11
12	Large Amplitude Oscillatory Shear Rheology of Living Fibroblasts: Path-Dependent Steady States. <i>Biophysical Journal</i> , 2017, 113, 1561-1573.	0.2	6
13	Information Limited Oligonucleotide Amplification Assay for Affinity-Based, Parallel Detection Studies. <i>PLoS ONE</i> , 2016, 11, e0151072.	1.1	0
14	Unbounded growth patterns of reproducing, competing polymers—similarities to biological evolution. <i>New Journal of Physics</i> , 2016, 18, 103003.	1.2	4
15	Tracking of plus-ends reveals microtubule functional diversity in different cell types. <i>Scientific Reports</i> , 2016, 6, 30285.	1.6	9
16	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, . .	0.2	8
17	Chemical Analysis of a Miller-Type Complex Prebiotic Broth. <i>Origins of Life and Evolution of Biospheres</i> , 2016, 46, 149-169.	0.8	31
18	Using cell monolayer rheology to probe average single cell mechanical properties. <i>Biorheology</i> , 2015, 52, 269-278.	1.2	6

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19	Cell-free expression with the toxic amino acid canavanine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 3658-3660.	1.0	44
20	Physico-chemical foundations underpinning microarray and next-generation sequencing experiments. <i>Nucleic Acids Research</i> , 2013, 41, 2779-2796.	6.5	49
21	Putative cholesterol-binding sites in human immunodeficiency virus (HIV) coreceptors CXCR4 and CCR5. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 555-567.	1.5	24
22	Critical Behavior and Axis Defining Symmetry Breaking in <i>Hydra</i> Embryonic Development. <i>Physical Review Letters</i> , 2012, 108, 158103.	2.9	18
23	Stability of double-stranded oligonucleotide DNA with a bulged loop: a microarray study. <i>BMC Biophysics</i> , 2011, 4, 20.	4.4	11
24	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.	2.9	18
25	Mechanogenetic Coupling of Hydra Symmetry Breaking and Driven Turing Instability Model. <i>Biophysical Journal</i> , 2009, 96, 1649-1660.	0.2	41
26	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.	1.7	46
27	Position dependent mismatch discrimination on DNA microarrays – experiments and model. <i>BMC Bioinformatics</i> , 2008, 9, 509.	1.2	37
28	An Osmoregulatory Basis for Shape Oscillations in Regenerating Hydra. <i>Biophysical Journal</i> , 2008, 95, 978-985.	0.2	54
29	Single Cell Mechanics: Stress Stiffening and Kinematic Hardening. <i>Physical Review Letters</i> , 2008, 100, 238102.	2.9	57
30	Shear rheology of a cell monolayer. <i>New Journal of Physics</i> , 2007, 9, 419-419.	1.2	62
31	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.	0.2	40
32	A Master Relation Defines the Nonlinear Viscoelasticity of Single Fibroblasts. <i>Biophysical Journal</i> , 2006, 90, 3796-3805.	0.2	200
33	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.	0.6	24
34	Hydra Molecular Network Reaches Criticality at the Symmetry-Breaking Axis-Defining Moment. <i>Physical Review Letters</i> , 2006, 97, 258102.	2.9	29
35	Mechanical Response Analysis and Power Generation by Single-Cell Stretching. <i>ChemPhysChem</i> , 2005, 6, 663-670.	1.0	57
36	Measurement of the elasticity of the actin tail of <i>Listeria monocytogenes</i> . <i>European Biophysics Journal</i> , 2000, 29, 134-140.	1.2	86

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37	Filament Assembly from Profilin-Actin. Journal of Biological Chemistry, 1999, 274, 6234-6243.	1.6	76
38	Acting on actin: The electric motility assay. Biology of the Cell, 1999, 91, 252-252.	0.7	4
39	Microplates: a new tool for manipulation and mechanical perturbation of individual cells. Journal of Proteomics, 1999, 39, 47-62.	2.4	134
40	Thermal fluctuations of surfactant films in micellar and microemulsion systems. Langmuir, 1991, 7, 1892-1894.	1.6	2