Arnd Pralle

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Sphingolipid–Cholesterol Rafts Diffuse as Small Entities in the Plasma Membrane of Mammalian Cells. Journal of Cell Biology, 2000, 148, 997-1008.	5.2	921
2	A Selective Turn-On Fluorescent Sensor for Imaging Copper in Living Cells. Journal of the American Chemical Society, 2006, 128, 10-11.	13.7	748
3	Remote control of ion channels and neurons through magnetic-field heating of nanoparticles. Nature Nanotechnology, 2010, 5, 602-606.	31.5	623
4	A Selective, Cell-Permeable Optical Probe for Hydrogen Peroxide in Living Cells. Journal of the American Chemical Society, 2004, 126, 15392-15393.	13.7	594
5	Boronate-Based Fluorescent Probes for Imaging Cellular Hydrogen Peroxide. Journal of the American Chemical Society, 2005, 127, 16652-16659.	13.7	537
6	Analysis of a RanGTP-regulated gradient in mitotic somatic cells. Nature, 2006, 440, 697-701.	27.8	339
7	Three-dimensional high-resolution particle tracking for optical tweezers by forward scattered light. Microscopy Research and Technique, 1999, 44, 378-386.	2.2	298
8	Photonic force microscope calibration by thermal noise analysis. Applied Physics A: Materials Science and Processing, 1998, 66, S75-S78.	2.3	209
9	Photonic Force Microscope Based on Optical Tweezers and Two-Photon Excitation for Biological Applications. Journal of Structural Biology, 1997, 119, 202-211.	2.8	153
10	The Orientation and Molecular Movement of a K+ Channel Voltage-Sensing Domain. Neuron, 2003, 40, 515-525.	8.1	119
11	Magnetothermal genetic deep brain stimulation of motor behaviors in awake, freely moving mice. ELife, 2017, 6, .	6.0	115
12	A fluorescent probe designed for studying protein conformational change. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 965-970.	7.1	110
13	ATP-dependent Membrane Assembly of F-Actin Facilitates Membrane Fusion. Molecular Biology of the Cell, 2001, 12, 155-170.	2.1	106
14	Stable, highâ€∎ffinity streptavidin monomer for protein labeling and monovalent biotin detection. Biotechnology and Bioengineering, 2013, 110, 57-67.	3.3	104
15	Local viscosity probed by photonic force microscopy. Applied Physics A: Materials Science and Processing, 1998, 66, S71-S73.	2.3	102
16	Model Driven Optimization of Magnetic Anisotropy of Exchange-Coupled Core–Shell Ferrite Nanoparticles for Maximal Hysteretic Loss. Chemistry of Materials, 2015, 27, 7380-7387.	6.7	93
17	Compartmentalization of the Cell Membrane. Journal of Molecular Biology, 2016, 428, 4739-4748.	4.2	66
18	Engineered Streptavidin Monomer and Dimer with Improved Stability and Function. Biochemistry, 2011, 50. 8682-8691.	2.5	57

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19	Magnetothermal nanoparticle technology alleviates parkinsonian-like symptoms in mice. Nature Communications, 2021, 12, 5569.	12.8	44
20	Outstanding heat loss <i>via</i> nano-octahedra above 20 nm in size: from wustite-rich nanoparticles to magnetite single-crystals. Nanoscale, 2019, 11, 16635-16649.	5.6	38
21	Effect of Receptor Dimerization on Membrane Lipid Raft Structure Continuously Quantified on Single Cells by Camera Based Fluorescence Correlation Spectroscopy. PLoS ONE, 2015, 10, e0121777.	2.5	32
22	Random insertion of split-cans of the fluorescent protein venus into Shaker channels yields voltage sensitive probes with improved membrane localization in mammalian cells. Journal of Neuroscience Methods, 2011, 199, 1-9.	2.5	30
23	A scanning force microscope for simultaneous force and patch-clamp measurements on living cell tissues. Review of Scientific Instruments, 1997, 68, 2583-2590.	1.3	27
24	Transient Magnetothermal Neuronal Silencing Using the Chloride Channel Anoctamin 1 (TMEM16A). Frontiers in Neuroscience, 2018, 12, 560.	2.8	24
25	Molecular and cellular mechanisms for differential effects of chronic social isolation stress in males and females. Molecular Psychiatry, 2022, 27, 3056-3068.	7.9	24
26	A role for the thermal environment in defining co-stimulation requirements for CD4+ T cell activation. Cell Cycle, 2015, 14, 2340-2354.	2.6	23
27	Photonic Force Microscopy: A New Tool Providing New Methods to Study Membranes at the Molecular Level. Single Molecules, 2000, 1, 129-133.	0.9	21
28	Determination and Correction of Position Detection Nonlinearity in Single Particle Tracking and Three-Dimensional Scanning Probe Microscopy. Microscopy and Microanalysis, 2004, 10, 425-434.	0.4	20
29	Monodisperse magnetofluorescent nanoplatforms for local heating and temperature sensing. Nanoscale, 2014, 6, 13463-13469.	5.6	17
30	Cellular Membranes Studied by Photonic Force Microscopy. Methods in Cell Biology, 2002, 68, 193-212.	1.1	10
31	Quantifying spatial and temporal variations of the cell membrane ultra-structure by bimFCS. Methods, 2018, 140-141, 151-160.	3.8	10
32	Multilayered inorganic–organic microdisks as ideal carriers for high magnetothermal actuation: assembling ferrimagnetic nanoparticles devoid of dipolar interactions. Nanoscale, 2018, 10, 21879-21892.	5.6	7
33	Membrane nanodomains homeostasis during propofol anesthesia as function of dosage and temperature. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183511.	2.6	6
34	Chapter 21 Quantitative Fluorescence Lifetime Imaging in Cells as a Tool to Design Computational Models of Ranâ€Regulated Reaction Networks. Methods in Cell Biology, 2008, 89, 541-568.	1.1	4
35	Note: Three-dimensional linearization of optical trap position detection for precise high speed diffusion measurements. Review of Scientific Instruments, 2014, 85, 076104.	1.3	4
36	Modulation and dynamics of cell membrane heterogeneities. Chemistry and Physics of Lipids, 2020, 233, 105006.	3.2	4

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37	Remote modulation of neuronal cells in the brain. Nature Materials, 2021, 20, 912-913.	27.5	4
38	Transient Effect of Calcium Influx on PIP2 Clusters and Cholesterol-Stabilized Nano-Domains in the Inner Plasma Membrane Leaflet of Intact Cells. Biophysical Journal, 2014, 106, 82a.	0.5	2
39	bim-FCS Analysis of Membrane Protein Diffusion Reveals Dynamics of Membrane Cytoskeleton and Lipid Domains in Intact Cells. Biophysical Journal, 2012, 102, 297a.	0.5	1
40	Influence of Calcium Concentration on Lipid Domains in the Inner and Outer Leaflets of the Plasma Membrane. Biophysical Journal, 2013, 104, 587a.	0.5	1
41	Membrane Cytoskeletal Changes during In-Situ to Invasive Progression ofÂBreast Cancer Cells Observed by Multi-Scale Diffusion Analysis of Transmembrane Proteins. Biophysical Journal, 2015, 108, 79a-80a.	0.5	1
42	Transient Effect of Calcium Influx on PIP2 Clusters and Cholesterol-Stabilized Nano-Domains in the Inner Plasma Membrane Leaflet of Intact Cells. Biophysical Journal, 2015, 108, 79a.	0.5	1
43	The Effect of Propofol on Plasma Membrane Ultrastructure in the Intact Cells. Biophysical Journal, 2017, 112, 320a.	0.5	1
44	Nanoparticle Preparation for Magnetothermal Genetic Stimulation in Cell Culture and in the Brain of Live Rodents. Neuromethods, 2018, , 39-51.	0.3	1
45	Photonic Force Microscopy: A New Tool Providing New Methods to Study Membranes at the Molecular Level. Single Molecules, 2000, 1, 129-133.	0.9	1
46	Remote Steering of C. Elegans Using Nanoparticle Heating. Biophysical Journal, 2009, 96, 6a.	0.5	0
47	Real-time 3D Tracking of Structural Transitions in Adenylate Kinase by Thermal Noise Imaging. Biophysical Journal, 2009, 96, 377a-378a.	0.5	0
48	Random Insertion of Split-can Venus into Kv1.4 Yields Voltage Sensitive Fluorescent Probes. Biophysical Journal, 2009, 96, 403a.	0.5	0
49	Nano-Scale, Microsecond Diffusion Imaging of Membrane Protein - lipid Raft Interaction in the Plasma Membrane. Biophysical Journal, 2011, 100, 254a.	0.5	0
50	Monitoring Association of Membrane Proteins with Micro-Domains and Cytoskeleton in Live Cells During Signaling and Perturbation. Biophysical Journal, 2011, 100, 252a-253a.	0.5	0
51	Local Cell Membrane Stiffness and Viscosity Mapped by Thermal Noise Imaging. Biophysical Journal, 2012, 102, 297a.	0.5	0
52	The Immunomodulator Enterotoxin Influences BCR Signaling by Stabilizing Lipid Domains. Biophysical Journal, 2013, 104, 246a.	0.5	0
53	Mc Model of Lipid Raft Protein Diffusion Matched to Live Cell Measurements with Controlled Chemical Perturbation Experiments. Biophysical Journal, 2013, 104, 427a.	0.5	0
54	Nano-Domains of Cell Membrane Stiffness, Proteins Diffusion and Concentration Characterized by Thermal Noise Imaging. Biophysical Journal, 2013, 104, 246a.	0.5	0

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55	Influence of Calcium on Lipid Domain Formation in Agarose Supported Lipid Bilayers. Biophysical Journal, 2013, 104, 587a.	0.5	0
56	Optimizing of Local Nano-Particle Heating for Thermo-Magnetic Stimulation of Cells. Biophysical Journal, 2013, 104, 678a-679a.	0.5	0
57	Local Optical Temperature Measurements around Magnetosomes within Single Bacteria to Study Size and Geometry Effects on Heating. Biophysical Journal, 2014, 106, 382a.	0.5	0
58	Long-Term Live Observation of Membrane Protein Interaction with LipidÂNanodomains Show Dependence on Cell Cycle and Time After Transfection. Biophysical Journal, 2014, 106, 511a.	0.5	0
59	Local Temperature Evolution during Nanoparticle Hyperthermia Probed by Fluorescence Thermometry. Biophysical Journal, 2015, 108, 208a.	0.5	0
60	Live Quantification of Changes to Membrane Cytoskeleton due to Restricted Access to Laminin or Substrate Stiffness. Biophysical Journal, 2016, 110, 94a.	0.5	0
61	Transient Effect of Calcium Influx on PIP2 Clusters in the Inner Plasma Membrane Leaflet of Intact Cells. Biophysical Journal, 2016, 110, 204a.	0.5	0
62	Calcium Influx through Piezo1 Channels Transiently Clusters PI(4,5)P2 and Recruits Actin Polymerization. Biophysical Journal, 2020, 118, 397a.	0.5	0
63	Biophysics of Thermal and Mechanical Ultrasonic Neuromodulation. Biophysical Journal, 2021, 120, 237a.	0.5	0
64	Thermal Noise Imaging of Cell Membrane Stiffness and Tracking of Membrane Protein Motion. , 2015, , .		0