Robert C Dunn

List of Publications by Year
in descending order

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47	1,619	394421 19	289244 40
papers	citations	h-index	g-index

47	47	47	1453
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Near-Field Scanning Optical Microscopy. Chemical Reviews, 1999, 99, 2891-2928.	47.7	492
2	Submicron Structure in l-Î±-Dipalmitoylphosphatidylcholine Monolayers and Bilayers Probed with Confocal, Atomic Force, and Near-Field Microscopy. Biophysical Journal, 1998, 75, 342-353.	0.5	175
3	Scanning Near-Field Fluorescence Resonance Energy Transfer Microscopy. Biophysical Journal, 1999, 76, 1812-1818.	0.5	79
4	High resolution fluorescence imaging with cantilevered nearâ€field fiber optic probes. Applied Physics Letters, 1996, 69, 3809-3811.	3.3	73
5	Calcium regulation of nuclear pore permeability. Cell Calcium, 1998, 23, 91-101.	2.4	58
6	Submicron Fluorescence, Topology, and Compliance Measurements of Phase-Separated Lipid Monolayers Using Tapping-Mode Near-Field Scanning Optical Microscopy. Journal of Physical Chemistry B, 1997, 101, 6313-6317.	2.6	53
7	Probing single molecule orientations in model lipid membranes with near-field scanning optical microscopy. Journal of Chemical Physics, 2000, 112, 7822-7830.	3.0	38
8	Single molecule detection and underwater fluorescence imaging with cantilevered near-field fiber optic probes. Applied Physics Letters, 1998, 72, 2954-2956.	3.3	37
9	Whispering gallery mode imaging for the multiplexed detection of biomarkers. Sensors and Actuators B: Chemical, 2011, 160, 1262-1267.	7.8	36
10	Label-free detection of ovarian cancer biomarkers using whispering gallery mode imaging. Biosensors and Bioelectronics, 2013, 45, 223-229.	10.1	36
11	Atomic Force Microscopy and Near-Field Scanning Optical Microscopy Measurements of Single Human Retinal Lipofuscin Granules. Journal of Physical Chemistry B, 2000, 104, 12098-12101.	2.6	34
12	Near-field scanning optical microscopy: a tool for nanometric exploration of biological membranes. Analytical and Bioanalytical Chemistry, 2010, 396, 31-43.	3.7	34
13	The role of nuclear envelope calcium in modifying nuclear pore complex structureThis paper is one of a selection of papers published in this Special Issue, entitled The Nucleus: A Cell Within A Cell.. Canadian Journal of Physiology and Pharmacology, 2006, 84, 309-318.	1.4	33
14	Direct Observation of DPPC Phase Domain Motion on Mica Surfaces under Conditions of High Relative Humidity. Journal of Physical Chemistry B, 1998, 102, 3791-3797.	2.6	31
15	Single-Molecule Probes of Lipid Membrane Structure. Langmuir, 2008, 24, 14066-14073.	3.5	29
16	Evaluation of thermal evaporation conditions used in coating aluminum on near-field fiber-optic probes. Review of Scientific Instruments, 1998, 69, 1747-1752.	1.3	27
17	Regulation of Nuclear Pore Complex Conformation by IP3 Receptor Activation. Biophysical Journal, 2002, 83, 1421-1428.	0.5	26
18	Activation of ryanodine receptors in the nuclear envelope alters the conformation of the nuclear pore complex. Biophysical Chemistry, 2004, 112, 1-7.	2.8	21

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19	Single molecule probes of membrane structure: Orientation of BODIPY probes in DPPC as a function of probe structure. Analyst, The, 2012, 137, 1402.	3.5	20
20	Hybrid near-field scanning optical microscopy tips for live cell measurements. Applied Physics Letters, 2004, 84, 3750-3752.	3.3	19
21	Whispering Gallery Mode Resonators for Rapid Label-Free Biosensing in Small Volume Droplets. Biosensors, 2015, 5, 118-130.	4.7	19
22	Recent advances in microscale western blotting. Analytical Methods, 2016, 8, 7002-7013.	2.7	19
23	Single Molecules as Probes of Lipid Membrane Microenvironments. Journal of Physical Chemistry B, 1999, 103, 10214-10220.	2.6	18
24	Integrating Whispering Gallery Mode Refractive Index Sensing with Capillary Electrophoresis Separations Using Phase Sensitive Detection. Analytical Chemistry, 2016, 88, 1426-1433.	6.5	18
25	Focused ion beam modification of atomic force microscopy tips for near-field scanning optical microscopy. Applied Physics Letters, 2001, 79, 4494-4496.	3.3	17
26	Compact, inexpensive refractive index detection in femtoliter volumes using commercial optical pickup technology. Analytical Methods, 2019, 11, 2303-2310.	2.7	17
27	Exploring the Effects of Sterols in Model Lipid Membranes Using Single-Molecule Orientations. Journal of Physical Chemistry B, 2009, 113, 10240-10248.	2.6	15
28	High-Speed Capillary Electrophoresis Using a Thin-Wall Fused-Silica Capillary Combined with Backscatter Interferometry. Analytical Chemistry, 2020, 92, 7540-7546.	6.5	14
29	Vault Ribonucleoprotein Particles and the Central Mass of the Nuclear Pore Complex. Photochemistry and Photobiology, 2007, 83, 686-691.	2.5	13
30	Hydration Effects on Membrane Structure Probed by Single Molecule Orientations. Langmuir, 2011, 27, 2658-2666.	3.5	13
31	Near-Field Scanning Optical Microscopy for High-Resolution Membrane Studies. Methods in Molecular Biology, 2013, 950, 373-394.	0.9	13
32	Integration of microsphere resonators with bioassay fluidics for whispering gallery mode imaging. Analyst, The, 2013, 138, 3189.	3.5	11
33	Scanning Resonator Microscopy: Integrating Whispering Gallery Mode Sensing with Atomic Force Microscopy. ACS Photonics, 2015, 2, 699-706.	6.6	11
34	Divergent Fluctuations in the Molar Area of a Model Lung Surfactant. Journal of Physical Chemistry B, 2002, 106, 3530-3533.	2.6	10
35	Wavelength Modulated Back-Scatter Interferometry for Universal, On-Column Refractive Index Detection in Picoliter Volumes. Analytical Chemistry, 2018, 90, 6789-6795.	6.5	10
36	Fuming Method for Micropatterning Structures on Langmuirâ”Blodgett Films. Langmuir, 2009, 25, 5098-5102.	3.5	9

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37	Noncontact Near-Field Scanning Optical Microscopy Imaging Using an Interferometric Optical Feedback Mechanism. Langmuir, 1999, 15, 2162-2168.	3.5	8
38	Direct Observation of Structural Evolution in Palmitic Acid Monolayers following Langmuirâ^'Blodgett Deposition. Langmuir, 2001, 17, 8204-8209.	3.5	8
39	High-resolution Studies of Lung Surfactant CollapseÂ¶. Photochemistry and Photobiology, 2004, 80, 471.	2.5	7
40	Probing the Spatial Dependence of the Emission Spectrum of Single Human Retinal Lipofuscin Granules Using Near-field Scanning Optical MicroscopyÂ¶. Photochemistry and Photobiology, 2007, 74, 364-368.	2.5	6
41	Direct detection of inorganic ions and underivatized amino acids in seconds using high-speed capillary electrophoresis coupled with back-scatter interferometry. Analytical Methods, 2021, 13, 1340-1348.	2.7	6
42	Dual detection high-speed capillary electrophoresis for simultaneous serum protein analysis and immunoassays. Scientific Reports, 2022, 12, 1951.	3.3	4
43	Near-Field Scanning Optical Microscopy: Alternative Modes of Use for NSOM Probes. , 2005, , 25-46.		2
44	Probing Biological Samples with Near-Field Optics. Microscopy and Microanalysis, 2000, 6, 826-827.	0.4	0
45	Highâ€resolution Studies of Lung Surfactant Collapse^{Â¶}. Photochemistry and Photobiology, 2004, 80, 471-476.	2.5	0
46	Reduced single molecule photobleaching in fumed Langmuirâ€“Blodgett films. Thin Solid Films, 2012, 520, 6233-6237.	1.8	0
47	Scanning resonator microscopy integrating phase sensitive detection. Applied Optics, 2017, 56, 9716.	1.8	0