

# Robert C Dunn

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

1,619  
citations

394421

19  
h-index

289244

40  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1453  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Dual detection high-speed capillary electrophoresis for simultaneous serum protein analysis and immunoassays. <i>Scientific Reports</i> , 2022, 12, 1951.   | 3.3  | 4         |
| 2  | Direct detection of inorganic ions and underivatized amino acids in seconds using high-speed capillary electrophoresis coupled with back-scatter interferometry. <i>Analytical Methods</i> , 2021, 13, 1340-1348. | 2.7  | 6         |
| 3  | High-Speed Capillary Electrophoresis Using a Thin-Wall Fused-Silica Capillary Combined with Backscatter Interferometry. <i>Analytical Chemistry</i> , 2020, 92, 7540-7546.  | 6.5  | 14        |
| 4  | Compact, inexpensive refractive index detection in femtoliter volumes using commercial optical pickup technology. <i>Analytical Methods</i> , 2019, 11, 2303-2310.  | 2.7  | 17        |
| 5  | Wavelength Modulated Back-Scatter Interferometry for Universal, On-Column Refractive Index Detection in Picoliter Volumes. <i>Analytical Chemistry</i> , 2018, 90, 6789-6795.                                     | 6.5  | 10        |
| 6  | Scanning resonator microscopy integrating phase sensitive detection. <i>Applied Optics</i> , 2017, 56, 9716.  | 1.8  | 0         |
| 7  | Recent advances in microscale western blotting. <i>Analytical Methods</i> , 2016, 8, 7002-7013.   | 2.7  | 19        |
| 8  | Integrating Whispering Gallery Mode Refractive Index Sensing with Capillary Electrophoresis Separations Using Phase Sensitive Detection. <i>Analytical Chemistry</i> , 2016, 88, 1426-1433.                       | 6.5  | 18        |
| 9  | Whispering Gallery Mode Resonators for Rapid Label-Free Biosensing in Small Volume Droplets. <i>Biosensors</i> , 2015, 5, 118-130.  | 4.7  | 19        |
| 10 | Scanning Resonator Microscopy: Integrating Whispering Gallery Mode Sensing with Atomic Force Microscopy. <i>ACS Photonics</i> , 2015, 2, 699-706.   | 6.6  | 11        |
| 11 | Integration of microsphere resonators with bioassay fluidics for whispering gallery mode imaging. <i>Analyst</i> , 2013, 138, 3189.   | 3.5  | 11        |
| 12 | Label-free detection of ovarian cancer biomarkers using whispering gallery mode imaging. <i>Biosensors and Bioelectronics</i> , 2013, 45, 223-229.  | 10.1 | 36        |
| 13 | Near-Field Scanning Optical Microscopy for High-Resolution Membrane Studies. <i>Methods in Molecular Biology</i> , 2013, 950, 373-394.  | 0.9  | 13        |
| 14 | Single molecule probes of membrane structure: Orientation of BODIPY probes in DPPC as a function of probe structure. <i>Analyst</i> , 2012, 137, 1402.  | 3.5  | 20        |
| 15 | Reduced single molecule photobleaching in fumed Langmuir-Blodgett films. <i>Thin Solid Films</i> , 2012, 520, 6233-6237.  | 1.8  | 0         |
| 16 | Hydration Effects on Membrane Structure Probed by Single Molecule Orientations. <i>Langmuir</i> , 2011, 27, 2658-2666.  | 3.5  | 13        |
| 17 | Whispering gallery mode imaging for the multiplexed detection of biomarkers. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1262-1267.   | 7.8  | 36        |
| 18 | Near-field scanning optical microscopy: a tool for nanometric exploration of biological membranes. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 31-43.  | 3.7  | 34        |

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|----|--|-----|-----------|
| 19 | Exploring the Effects of Sterols in Model Lipid Membranes Using Single-Molecule Orientations. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10240-10248.   | 2.6 | 15        |
| 20 | Fuming Method for Micropatterning Structures on Langmuir-Blodgett Films. <i>Langmuir</i> , 2009, 25, 5098-5102.  | 3.5 | 9         |
| 21 | Single-Molecule Probes of Lipid Membrane Structure. <i>Langmuir</i> , 2008, 24, 14066-14073.   | 3.5 | 29        |
| 22 | Vault Ribonucleoprotein Particles and the Central Mass of the Nuclear Pore Complex. <i>Photochemistry and Photobiology</i> , 2007, 83, 686-691.  | 2.5 | 13        |
| 23 | Probing the Spatial Dependence of the Emission Spectrum of Single Human Retinal Lipofuscin Granules Using Near-field Scanning Optical Microscopy. <i>Photochemistry and Photobiology</i> , 2007, 74, 364-368.  | 2.5 | 6         |
| 24 | The role of nuclear envelope calcium in modifying nuclear pore complex structure This paper is one of a selection of papers published in this Special Issue, entitled <i>The Nucleus: A Cell Within A Cell</i> . <i>Canadian Journal of Physiology and Pharmacology</i> , 2006, 84, 309-318. | 1.4 | 33        |
| 25 | Near-Field Scanning Optical Microscopy: Alternative Modes of Use for NSOM Probes. , 2005, , 25-46.   |     | 2         |
| 26 | Activation of ryanodine receptors in the nuclear envelope alters the conformation of the nuclear pore complex. <i>Biophysical Chemistry</i> , 2004, 112, 1-7.  | 2.8 | 21        |
| 27 | Hybrid near-field scanning optical microscopy tips for live cell measurements. <i>Applied Physics Letters</i> , 2004, 84, 3750-3752.   | 3.3 | 19        |
| 28 | High-resolution Studies of Lung Surfactant Collapse. <i>Photochemistry and Photobiology</i> , 2004, 80, 471-476.   | 2.5 | 0         |
| 29 | High-resolution Studies of Lung Surfactant Collapse. <i>Photochemistry and Photobiology</i> , 2004, 80, 471.   | 2.5 | 7         |
| 30 | Divergent Fluctuations in the Molar Area of a Model Lung Surfactant. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3530-3533.  | 2.6 | 10        |
| 31 | Regulation of Nuclear Pore Complex Conformation by IP3 Receptor Activation. <i>Biophysical Journal</i> , 2002, 83, 1421-1428.  | 0.5 | 26        |
| 32 | Direct Observation of Structural Evolution in Palmitic Acid Monolayers following Langmuir-Blodgett Deposition. <i>Langmuir</i> , 2001, 17, 8204-8209.  | 3.5 | 8         |
| 33 | Focused ion beam modification of atomic force microscopy tips for near-field scanning optical microscopy. <i>Applied Physics Letters</i> , 2001, 79, 4494-4496.  | 3.3 | 17        |
| 34 | Probing single molecule orientations in model lipid membranes with near-field scanning optical microscopy. <i>Journal of Chemical Physics</i> , 2000, 112, 7822-7830.  | 3.0 | 38        |
| 35 | Probing Biological Samples with Near-Field Optics. <i>Microscopy and Microanalysis</i> , 2000, 6, 826-827.   | 0.4 | 0         |
| 36 | Atomic Force Microscopy and Near-Field Scanning Optical Microscopy Measurements of Single Human Retinal Lipofuscin Granules. <i>Journal of Physical Chemistry B</i> , 2000, 104, 12098-12101.  | 2.6 | 34        |

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|----|---|------|-----------|
| 37 | Near-Field Scanning Optical Microscopy. <i>Chemical Reviews</i> , 1999, 99, 2891-2928.  | 47.7 | 492       |
| 38 | Scanning Near-Field Fluorescence Resonance Energy Transfer Microscopy. <i>Biophysical Journal</i> , 1999, 76, 1812-1818.  | 0.5  | 79        |
| 39 | Noncontact Near-Field Scanning Optical Microscopy Imaging Using an Interferometric Optical Feedback Mechanism. <i>Langmuir</i> , 1999, 15, 2162-2168.   | 3.5  | 8         |
| 40 | Single Molecules as Probes of Lipid Membrane Microenvironments. <i>Journal of Physical Chemistry B</i> , 1999, 103, 10214-10220.  | 2.6  | 18        |
| 41 | Calcium regulation of nuclear pore permeability. <i>Cell Calcium</i> , 1998, 23, 91-101.  | 2.4  | 58        |
| 42 | Direct Observation of DPPC Phase Domain Motion on Mica Surfaces under Conditions of High Relative Humidity. <i>Journal of Physical Chemistry B</i> , 1998, 102, 3791-3797.  | 2.6  | 31        |
| 43 | Submicron Structure in $1\text{-}\hat{L}\alpha$ -Dipalmitoylphosphatidylcholine Monolayers and Bilayers Probed with Confocal, Atomic Force, and Near-Field Microscopy. <i>Biophysical Journal</i> , 1998, 75, 342-353.      | 0.5  | 175       |
| 44 | Single molecule detection and underwater fluorescence imaging with cantilevered near-field fiber optic probes. <i>Applied Physics Letters</i> , 1998, 72, 2954-2956.  | 3.3  | 37        |
| 45 | Evaluation of thermal evaporation conditions used in coating aluminum on near-field fiber-optic probes. <i>Review of Scientific Instruments</i> , 1998, 69, 1747-1752.  | 1.3  | 27        |
| 46 | Submicron Fluorescence, Topology, and Compliance Measurements of Phase-Separated Lipid Monolayers Using Tapping-Mode Near-Field Scanning Optical Microscopy. <i>Journal of Physical Chemistry B</i> , 1997, 101, 6313-6317. | 2.6  | 53        |
| 47 | High resolution fluorescence imaging with cantilevered near-field fiber optic probes. <i>Applied Physics Letters</i> , 1996, 69, 3809-3811.   | 3.3  | 73        |