

# Daniel Branton

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69 papers	12,040 citations	38 h-index	72 g-index
72 ext. papers	12,902 ext. citations	16.3 avg, IF	5.96 L-index

#	Paper	IF	Citations
69	The potential and challenges of nanopore sequencing. <i>Nature Biotechnology</i> , <b>2008</b> , 26, 1146-53	44.5	1881
68	Ion-beam sculpting at nanometre length scales. <i>Nature</i> , <b>2001</b> , 412, 166-9	50.4	1333
67	Microsecond time-scale discrimination among polycytidylic acid, polyadenylic acid, and polyuridylic acid as homopolymers or as segments within single RNA molecules. <i>Biophysical Journal</i> , <b>1999</b> , 77, 3227-339	33.9	807
66	Voltage-driven DNA translocations through a nanopore. <i>Physical Review Letters</i> , <b>2001</b> , 86, 3435-8	7.4	742
65	Membrane splitting in freeze-etching. Covalently bound ferritin as a membrane marker. <i>Journal of Cell Biology</i> , <b>1970</b> , 45, 598-605	7.3	522
64	The molecular structure of human erythrocyte spectrin. Biophysical and electron microscopic studies. <i>Journal of Molecular Biology</i> , <b>1979</b> , 131, 303-29	6.5	504
63	Three decades of nanopore sequencing. <i>Nature Biotechnology</i> , <b>2016</b> , 34, 518-24	44.5	487
62	Characterization of nucleic acids by nanopore analysis. <i>Accounts of Chemical Research</i> , <b>2002</b> , 35, 817-25	24.3	403
61	Rotary shadowing of extended molecules dried from glycerol. <i>Journal of Ultrastructure Research</i> , <b>1980</b> , 71, 95-102		402
60	Assembly units of clathrin coats. <i>Nature</i> , <b>1981</b> , 289, 420-2	50.4	362
59	Atomic Layer Deposition to Fine-Tune the Surface Properties and Diameters of Fabricated Nanopores. <i>Nano Letters</i> , <b>2004</b> , 4, 1333-1337	11.5	352
58	Intramembrane particle aggregation in erythrocyte ghosts. I. The effects of protein removal. <i>Journal of Cell Biology</i> , <b>1974</b> , 63, 1018-36	7.3	306
57	Single molecule measurements of DNA transport through a nanopore. <i>Electrophoresis</i> , <b>2002</b> , 23, 2583-91	3.6	305
56	PROBING SINGLE DNA MOLECULE TRANSPORT USING FABRICATED NANOPORES. <i>Nano Letters</i> , <b>2004</b> , 4, 2293-2298	11.5	300
55	Intramembrane particle aggregation in erythrocyte ghosts. II. The influence of spectrin aggregation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1976</b> , 426, 101-22	3.8	252
54	Unzipping kinetics of double-stranded DNA in a nanopore. <i>Physical Review Letters</i> , <b>2003</b> , 90, 238101	7.4	247
53	Lamellar and hexagonal lipid phases visualized by freeze-etching. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1970</b> , 219, 47-60	3.8	236

52	Molecule-hugging graphene nanopores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 12192-6	11.5	206
51	Localization of A antigen sites on human erythrocyte ghosts. <i>Nature</i> , <b>1971</b> , 232, 194-6	50.4	196
50	Subunits in chloroplast lamellae. <i>Journal of Ultrastructure Research</i> , <b>1967</b> , 19, 283-303		163
49	The binding of clathrin triskelions to membranes from coated vesicles. <i>Cell</i> , <b>1981</b> , 26, 439-46	56.2	156
48	Isolation of Vacuoles from Root Storage Tissue of Beta vulgaris L. <i>Plant Physiology</i> , <b>1976</b> , 58, 656-62	6.6	145
47	Lateral mobility of human erythrocyte integral membrane proteins. <i>Nature</i> , <b>1977</b> , 268, 23-6	50.4	137
46	Fracture faces in frozen outer segments from the guinea pig retina. <i>Cell and Tissue Research</i> , <b>1968</b> , 91, 586-603	4.2	120
45	Lipid- and temperature-dependent structural changes in Acholeplasma laidlawii cell membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1973</b> , 323, 378-90	3.8	113
44	Fusion of coated vesicles with lysosomes: measurement with a fluorescence assay. <i>Cell</i> , <b>1983</b> , 32, 921-9	56.2	102
43	Abolition of actin-bundling by phosphorylation of human erythrocyte protein 4.9. <i>Nature</i> , <b>1988</b> , 334, 718-21	50.4	86
42	DNA conformation and base number simultaneously determined in a nanopore. <i>Electrophoresis</i> , <b>2007</b> , 28, 3186-92	3.6	82
41	Changes in the plasma membrane of Escherichia coli during magnesium starvation. <i>Journal of Bacteriology</i> , <b>1969</b> , 98, 1320-7	3.5	74
40	The role of spectrin in erythrocyte membrane-stimulated actin polymerisation. <i>Nature</i> , <b>1979</b> , 279, 163-5	50.4	69
39	Spectrin: on the path from structure to function. <i>Current Opinion in Cell Biology</i> , <b>1996</b> , 8, 49-55	9	66
38	The effect of endogenous proteases on the spectrin binding proteins of human erythrocytes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1980</b> , 598, 517-27	3.8	65
37	Solution structure of the pleckstrin homology domain of Drosophila beta-spectrin. <i>Structure</i> , <b>1995</b> , 3, 1185-95	5.2	60
36	DNA heterogeneity and phosphorylation unveiled by single-molecule electrophoresis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 13472-7	11.5	50
35	Membrane intercalated particles: the plasma membrane as a planar fluid domain. <i>Chemistry and Physics of Lipids</i> , <b>1972</b> , 8, 265-78	3.7	49

34	Iron Transport in Pea Plants. <i>Plant Physiology</i> , <b>1962</b> , 37, 539-45	6.6	43
33	Nanometer patterning with ice. <i>Nano Letters</i> , <b>2005</b> , 5, 1157-60	11.5	41
32	The shape of spectrin molecules from human erythrocyte membranes. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , <b>1978</b> , 536, 313-7		38
31	Iron Localization in Pea Plants. <i>Plant Physiology</i> , <b>1962</b> , 37, 546-51	6.6	34
30	Eddies in a bottleneck: an arbitrary Debye length theory for capillary electroosmosis. <i>Journal of Colloid and Interface Science</i> , <b>2006</b> , 297, 832-9	9.3	33
29	The correlation between the saturation of membrane fatty acids and the presence of membrane fracture faces after osmium fixation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1971</b> , 233, 504-12	3.8	33
28	Actin--membrane interactions: association of G-actin with the red cell membrane. <i>Journal of Supramolecular Structure</i> , <b>1978</b> , 9, 113-24		31
27	Spectrin binding and the control of membrane protein mobility. <i>Journal of Supramolecular Structure</i> , <b>1978</b> , 8, 455-63		30
26	Nanopatterning on nonplanar and fragile substrates with ice resists. <i>Nano Letters</i> , <b>2012</b> , 12, 1018-21	11.5	29
25	Dry, high resolution autoradiography. <i>Biotechnic &amp; Histochemistry</i> , <b>1962</b> , 37, 239-42		28
24	Ice lithography for nanodevices. <i>Nano Letters</i> , <b>2010</b> , 10, 5056-9	11.5	27
23	Composition, structure and phase transition in yeast fatty acid auxotroph membranes: spin labels and freeze-fracture. <i>Journal of Supramolecular Structure</i> , <b>1972</b> , 1, 38-49		27
22	Protein kinase C of human erythrocytes phosphorylates bands 4.1 and 4.9. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>1986</b> , 887, 142-9	4.9	25
21	Gas vacuoles. Light shielding in blue-green algae. <i>Journal of Cell Biology</i> , <b>1971</b> , 48, 212-5	7.3	25
20	The normal and abnormal red cell cytoskeleton: a renewed search for molecular defects. <i>Trends in Biochemical Sciences</i> , <b>1981</b> , 6, 266-268	10.3	19
19	Freeze-etch observations of rat lung. <i>The Anatomical Record</i> , <b>1971</b> , 170, 471-83		19
18	Triskelions: the building blocks of clathrin coats. <i>Trends in Biochemical Sciences</i> , <b>1982</b> , 7, 358-361	10.3	17
17	The potential and challenges of nanopore sequencing <b>2009</b> , 261-268		16

16	Interpreting the results of freeze-etching. <i>Journal of Microscopy</i> , <b>1977</b> , 111, 117-24	1.9	15
15	Plant Vacuoles <b>1980</b> , 625-658		9
14	An ice lithography instrument. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 065110	1.7	8
13	Purification of erythrocyte band 4.1 and other cytoskeletal components using hydroxyapatite-Ultrogel. <i>Analytical Biochemistry</i> , <b>1986</b> , 155, 206-11	3.1	8
12	Membrane Structure <b>1972</b> , 1-70		7
11	Mapping functional sites on biological macromolecules. <i>Ultramicroscopy</i> , <b>1982</b> , 8, 185-90	3.1	6
10	Using Nanopores to Discriminate between Single Molecules of DNA <b>2002</b> , 177-185		5
9	STRUCTURE OF THE PHOTOSYNTHETIC APPARATUS <b>1968</b> , 197-224		5
8	An antibody against 100- to 116-kDa polypeptides in coated vesicles inhibits triskelion binding. <i>Experimental Cell Research</i> , <b>1988</b> , 174, 511-20	4.2	4
7	Single molecule measurements of DNA transport through a nanopore <b>2002</b> , 23, 2583		4
6	Molecular Interactions Governing Plasma Membrane Structure <b>1980</b> , 3-7		1
5	Author response to John Kasianowicz and Sergey Bezrukov. <i>Nature Biotechnology</i> , <b>2016</b> , 34, 482	44.5	1
4	Fracture faces of frozen membranes: 50th anniversary. <i>Molecular Biology of the Cell</i> , <b>2016</b> , 27, 421-3	3.5	
3	Some lessons from the erythrocyte. <i>Cell Motility</i> , <b>1983</b> , 3, 363-6		
2	The correlation between the saturation of membrane fatty acids and the presence of membrane fracture faces after osmium fixation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1971</b> , 223, 504-512	3.8	
1	Molecular Associations of the Erythrocyte Cytoskeleton <b>1982</b> , 409-413		