

Daniel Branton

List of Publications by Year in descending order

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71
papers

13,886
citations

81900

39
h-index

123424

61
g-index

72
all docs

72
docs citations

72
times ranked

7103
citing authors

#	ARTICLE	IF	CITATIONS
1	The potential and challenges of nanopore sequencing. <i>Nature Biotechnology</i> , 2008, 26, 1146-1153.	17.5	2,201
2	Ion-beam sculpting at nanometre length scales. <i>Nature</i> , 2001, 412, 166-169.	27.8	1,524
3	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> , 1999, 77, 3227-3233.	0.5	897
4	Three decades of nanopore sequencing. <i>Nature Biotechnology</i> , 2016, 34, 518-524.	17.5	825
5	Voltage-Driven DNA Translocations through a Nanopore. <i>Physical Review Letters</i> , 2001, 86, 3435-3438.	7.8	822
6	MEMBRANE SPLITTING IN FREEZE-ETCHING. <i>Journal of Cell Biology</i> , 1970, 45, 598-605.	5.2	584
7	The molecular structure of human erythrocyte spectrin. <i>Journal of Molecular Biology</i> , 1979, 131, 303-329.	4.2	543
8	Characterization of Nucleic Acids by Nanopore Analysis. <i>Accounts of Chemical Research</i> , 2002, 35, 817-825.	15.6	452
9	Rotary shadowing of extended molecules dried from glycerol. <i>Journal of Ultrastructure Research</i> , 1980, 71, 95-102.	1.1	432
10	Assembly units of clathrin coats. <i>Nature</i> , 1981, 289, 420-422.	27.8	411
11	Atomic Layer Deposition to Fine-Tune the Surface Properties and Diameters of Fabricated Nanopores. <i>Nano Letters</i> , 2004, 4, 1333-1337.	9.1	385
12	Single molecule measurements of DNA transport through a nanopore. <i>Electrophoresis</i> , 2002, 23, 2583-2591.	2.4	342
13	Probing Single DNA Molecule Transport Using Fabricated Nanopores. <i>Nano Letters</i> , 2004, 4, 2293-2298.	9.1	341
14	INTRAMEMBRANE PARTICLE AGGREGATION IN ERYTHROCYTE GHOSTS. <i>Journal of Cell Biology</i> , 1974, 63, 1018-1030.	5.2	337
15	Intramembrane particle aggregation in erythrocyte ghosts. II. The influence of spectrin aggregation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1976, 426, 101-122.	2.6	288
16	Unzipping Kinetics of Double-Stranded DNA in a Nanopore. <i>Physical Review Letters</i> , 2003, 90, 238101.	7.8	273
17	Lamellar and hexagonal lipid phases visualized by freeze-etching. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1970, 219, 47-60.	2.6	258
18	Molecule-hugging graphene nanopores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12192-12196.	7.1	229

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19	Localization of A Antigen Sites on Human Erythrocyte Ghosts. <i>Nature</i> , 1971, 232, 194-196.	27.8	224
20	Subunits in chloroplast lamellae. <i>Journal of Ultrastructure Research</i> , 1967, 19, 283-303.	1.1	189
21	The binding of clathrin triskelions to membranes from coated vesicles. <i>Cell</i> , 1981, 26, 439-446.	28.9	174
22	Isolation of Vacuoles from Root Storage Tissue of <i>Beta vulgaris</i> L.. <i>Plant Physiology</i> , 1976, 58, 656-662.	4.8	153
23	Lateral mobility of human erythrocyte integral membrane proteins. <i>Nature</i> , 1977, 268, 23-26.	27.8	153
24	Fracture faces in frozen outer segments from the guinea pig retina. <i>Cell and Tissue Research</i> , 1968, 91, 586-603.	2.9	144
25	Lipid- and temperature-dependent structural changes in <i>Acholeplasma laidlawii</i> cell membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1973, 323, 378-390.	2.6	122
26	Changes in the Plasma Membrane of <i>Escherichia coli</i> During Magnesium Starvation. <i>Journal of Bacteriology</i> , 1969, 98, 1320-1327.	2.2	116
27	Fusion of coated vesicles with lysosomes: Measurement with a fluorescence assay. <i>Cell</i> , 1983, 32, 921-929.	28.9	111
28	Abolition of actin-bundling by phosphorylation of human erythrocyte protein 4.9. <i>Nature</i> , 1988, 334, 718-721.	27.8	97
29	DNA conformation and base number simultaneously determined in a nanopore. <i>Electrophoresis</i> , 2007, 28, 3186-3192.	2.4	96
30	Spectrin: on the path from structure to function. <i>Current Opinion in Cell Biology</i> , 1996, 8, 49-55.	5.4	79
31	The role of spectrin in erythrocyte membrane-stimulated actin polymerisation. <i>Nature</i> , 1979, 279, 163-165.	27.8	75
32	The effect of endogenous proteases on the spectrin binding proteins of human erythrocytes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1980, 598, 517-527.	2.6	69
33	Solution structure of the pleckstrin homology domain of <i>Drosophila</i> β -spectrin. <i>Structure</i> , 1995, 3, 1185-1195.	3.3	67
34	Nanopores with a spark for single-molecule detection. <i>Nature Biotechnology</i> , 2001, 19, 622-623.	17.5	63
35	DNA heterogeneity and phosphorylation unveiled by single-molecule electrophoresis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 13472-13477.	7.1	55
36	Membrane intercalated particles: The plasma membrane as a planar fluid domain. <i>Chemistry and Physics of Lipids</i> , 1972, 8, 265-278.	3.2	51

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37	Iron Transport in Pea Plants. <i>Plant Physiology</i> , 1962, 37, 539-545.	4.8	46
38	Nanometer Patterning with Ice. <i>Nano Letters</i> , 2005, 5, 1157-1160.	9.1	46
39	The shape of spectrin molecules from human erythrocyte membranes. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1978, 536, 313-317.	1.7	41
40	Dry, High Resolution Autoradiography. <i>Biotechnic & Histochemistry</i> , 1962, 37, 239-242.	0.4	39
41	Iron Localization in Pea Plants. <i>Plant Physiology</i> , 1962, 37, 546-551.	4.8	39
42	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> , 1971, 233, 504-512.	2.6	39
43	Actin membrane interactions: Association of G-actin with the red cell membrane. <i>Journal of Supramolecular Structure</i> , 1978, 9, 113-124.	2.3	37
44	Eddies in a bottleneck: An arbitrary Debye length theory for capillary electroosmosis. <i>Journal of Colloid and Interface Science</i> , 2006, 297, 832-839.	9.4	36
45	Nanopatterning on Nonplanar and Fragile Substrates with Ice Resists. <i>Nano Letters</i> , 2012, 12, 1018-1021.	9.1	35
46	Spectrin binding and the control of membrane protein mobility. <i>Journal of Supramolecular Structure</i> , 1978, 8, 455-463.	2.3	34
47	GAS VACUOLES. <i>Journal of Cell Biology</i> , 1971, 48, 212-215.	5.2	33
48	Ice Lithography for Nanodevices. <i>Nano Letters</i> , 2010, 10, 5056-5059.	9.1	33
49	Protein kinase C of human erythrocytes phosphorylates bands 4.1 and 4.9. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1986, 887, 142-149.	4.1	29
50	Composition, structure and phase transition in yeast fatty acid auxotroph membranes: Spin labels and freeze-fracture. <i>Journal of Supramolecular Structure</i> , 1972, 1, 38-49.	2.3	28
51	The potential and challenges of nanopore sequencing. , 2009, , 261-268.		23
52	Freeze-etch observations of rat lung. <i>The Anatomical Record</i> , 1971, 170, 471-483.	1.8	21
53	The normal and abnormal red cell cytoskeleton: a renewed search for molecular defects. <i>Trends in Biochemical Sciences</i> , 1981, 6, 266-268.	7.5	21
54	Triskelions: the building blocks of clathrin coats. <i>Trends in Biochemical Sciences</i> , 1982, 7, 358-361.	7.5	17

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55	Adapting to nanoscale events. <i>Nature</i> , 1999, 398, 660-661.	27.8	17
56	Interpreting the results of freeze-etching. <i>Journal of Microscopy</i> , 1977, 111, 117-124.	1.8	16
57	An ice lithography instrument. <i>Review of Scientific Instruments</i> , 2011, 82, 065110.	1.3	15
58	Purification of erythrocyte band 4.1 and other cytoskeletal components using hydroxyapatite-ultrogel. <i>Analytical Biochemistry</i> , 1986, 155, 206-211.	2.4	10
59	Plant Vacuoles. , 1980, , 625-658.		10
60	Membrane Structure. , 1972, , 1-70.		8
61	STRUCTURE OF THE PHOTOSYNTHETIC APPARATUS. , 1968, , 197-224.		8
62	Mapping functional sites on biological macromolecules. <i>Ultramicroscopy</i> , 1982, 8, 185-190.	1.9	6
63	Using Nanopores to Discriminate between Single Molecules of DNA. , 2002, , 177-185.		5
64	An antibody against 100- to 116-kDa polypeptides in coated vesicles inhibits triskelion binding. <i>Experimental Cell Research</i> , 1988, 174, 511-520.	2.6	4
65	Single molecule measurements of DNA transport through a nanopore. , 2002, 23, 2583.		4
66	Author response to John Kasianowicz and Sergey Bezrukov. <i>Nature Biotechnology</i> , 2016, 34, 482-482.	17.5	2
67	Fracture faces of frozen membranes: 50th anniversary. <i>Molecular Biology of the Cell</i> , 2016, 27, 421-423.	2.1	1
68	Molecular Interactions Governing Plasma Membrane Structure. , 1980, , 3-7.		1
69	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> , 1971, 223, 504-512.	2.6	0
70	Some lessons from the erythrocyte. <i>Cell Motility</i> , 1983, 3, 363-366.	1.8	0
71	Molecular Associations of the Erythrocyte Cytoskeleton. , 1982, , 409-413.		0