

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	Three decades of nanopore sequencing. <i>Nature Biotechnology</i> , 2016, 34, 518-524.	17.5	825
2	Author response to John Kasianowicz and Sergey Bezrukov. <i>Nature Biotechnology</i> , 2016, 34, 482-482.	17.5	2
3	Fracture faces of frozen membranes: 50th anniversary. <i>Molecular Biology of the Cell</i> , 2016, 27, 421-423.	2.1	1
4	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
5	Nanopatterning on Nonplanar and Fragile Substrates with Ice Resists. <i>Nano Letters</i> , 2012, 12, 1018-1021.	9.1	35
6	An ice lithography instrument. <i>Review of Scientific Instruments</i> , 2011, 82, 065110.	1.3	15
7	Ice Lithography for Nanodevices. <i>Nano Letters</i> , 2010, 10, 5056-5059.	9.1	33
8	The potential and challenges of nanopore sequencing. , 2009, , 261-268.		23
9	The potential and challenges of nanopore sequencing. <i>Nature Biotechnology</i> , 2008, 26, 1146-1153.	17.5	2,201
10	DNA conformation and base number simultaneously determined in a nanopore. <i>Electrophoresis</i> , 2007, 28, 3186-3192.	2.4	96
11	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
12	Nanometer Patterning with Ice. <i>Nano Letters</i> , 2005, 5, 1157-1160.	9.1	46
13	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
14	Probing Single DNA Molecule Transport Using Fabricated Nanopores. <i>Nano Letters</i> , 2004, 4, 2293-2298.	9.1	341
15	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
16	Unzipping Kinetics of Double-Stranded DNA in a Nanopore. <i>Physical Review Letters</i> , 2003, 90, 238101.	7.8	273
17	Characterization of Nucleic Acids by Nanopore Analysis. <i>Accounts of Chemical Research</i> , 2002, 35, 817-825.	15.6	452
18	Single molecule measurements of DNA transport through a nanopore. <i>Electrophoresis</i> , 2002, 23, 2583-2591.	2.4	342

#	ARTICLE	IF	CITATIONS
19	Single molecule measurements of DNA transport through a nanopore. , 2002, 23, 2583.		4
20	Using Nanopores to Discriminate between Single Molecules of DNA. , 2002, , 177-185.		5
21	Voltage-Driven DNA Translocations through a Nanopore. Physical Review Letters, 2001, 86, 3435-3438.	7.8	822
22	Nanopores with a spark for single-molecule detection. Nature Biotechnology, 2001, 19, 622-623.	17.5	63
23	Ion-beam sculpting at nanometre length scales. Nature, 2001, 412, 166-169.	27.8	1,524
24	Adapting to nanoscale events. Nature, 1999, 398, 660-661.	27.8	17
25	Microsecond Time-Scale Discrimination Among Polycytidylic Acid, Polyadenylic Acid, and Polyuridylic Acid as Homopolymers or as Segments Within Single RNA Molecules. Biophysical Journal, 1999, 77, 3227-3233.	0.5	897
26	Spectrin: on the path from structure to function. Current Opinion in Cell Biology, 1996, 8, 49-55.	5.4	79
27	Solution structure of the pleckstrin homology domain of Drosophila β -spectrin. Structure, 1995, 3, 1185-1195.	3.3	67
28	Abolition of actin-bundling by phosphorylation of human erythrocyte protein 4.9. Nature, 1988, 334, 718-721.	27.8	97
29	An antibody against 100- to 116-kDa polypeptides in coated vesicles inhibits triskelion binding. Experimental Cell Research, 1988, 174, 511-520.	2.6	4
30	Protein kinase C of human erythrocytes phosphorylates bands 4.1 and 4.9. Biochimica Et Biophysica Acta - Molecular Cell Research, 1986, 887, 142-149.	4.1	29
31	Purification of erythrocyte band 4.1 and other cytoskeletal components using hydroxyapatite-ultrogel. Analytical Biochemistry, 1986, 155, 206-211.	2.4	10
32	Some lessons from the erythrocyte. Cell Motility, 1983, 3, 363-366.	1.8	0
33	Fusion of coated vesicles with lysosomes: Measurement with a fluorescence assay. Cell, 1983, 32, 921-929.	28.9	111
34	Triskelions: the building blocks of clathrin coats. Trends in Biochemical Sciences, 1982, 7, 358-361.	7.5	17
35	Mapping functional sites on biological macromolecules. Ultramicroscopy, 1982, 8, 185-190.	1.9	6
36	Molecular Associations of the Erythrocyte Cytoskeleton. , 1982, , 409-413.		0

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37	The normal and abnormal red cell cytoskeleton: a renewed search for molecular defects. Trends in Biochemical Sciences, 1981, 6, 266-268.	7.5	21
38	The binding of clathrin triskelions to membranes from coated vesicles. Cell, 1981, 26, 439-446.	28.9	174
39	Assembly units of clathrin coats. Nature, 1981, 289, 420-422.	27.8	411
40	The effect of endogenous proteases on the spectrin binding proteins of human erythrocytes. Biochimica Et Biophysica Acta - Biomembranes, 1980, 598, 517-527.	2.6	69
41	Rotary shadowing of extended molecules dried from glycerol. Journal of Ultrastructure Research, 1980, 71, 95-102.	1.1	432
42	Plant Vacuoles. , 1980, , 625-658.		10
43	Molecular Interactions Governing Plasma Membrane Structure. , 1980, , 3-7.		1
44	The role of spectrin in erythrocyte membrane-stimulated actin polymerisation. Nature, 1979, 279, 163-165.	27.8	75
45	The molecular structure of human erythrocyte spectrin. Journal of Molecular Biology, 1979, 131, 303-329.	4.2	543
46	The shape of spectrin molecules from human erythrocyte membranes. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1978, 536, 313-317.	1.7	41
47	Spectrin binding and the control of membrane protein mobility. Journal of Supramolecular Structure, 1978, 8, 455-463.	2.3	34
48	Actin- membrane interactions: Association of G-actin with the red cell membrane. Journal of Supramolecular Structure, 1978, 9, 113-124.	2.3	37
49	Interpreting the results of freeze-etching. Journal of Microscopy, 1977, 111, 117-124.	1.8	16
50	Lateral mobility of human erythrocyte integral membrane proteins. Nature, 1977, 268, 23-26.	27.8	153
51	Intramembrane particle aggregation in erythrocyte ghosts. II. The influence of spectrin aggregation. Biochimica Et Biophysica Acta - Biomembranes, 1976, 426, 101-122.	2.6	288
52	Isolation of Vacuoles from Root Storage Tissue of Beta vulgaris L.. Plant Physiology, 1976, 58, 656-662.	4.8	153
53	INTRAMEMBRANE PARTICLE AGGREGATION IN ERYTHROCYTE GHOSTS. Journal of Cell Biology, 1974, 63, 1018-1030.	5.2	337
54	Lipid- and temperature-dependent structural changes in Acholeplasma laidlawii cell membranes. Biochimica Et Biophysica Acta - Biomembranes, 1973, 323, 378-390.	2.6	122

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55	Membrane Structure. , 1972, , 1-70.		8
56	Membrane intercalated particles: The plasma membrane as a planar fluid domain. Chemistry and Physics of Lipids, 1972, 8, 265-278.	3.2	51
57	Composition, structure and phase transition in yeast fatty acid auxotroph membranes: Spin labels and freeze-fracture. Journal of Supramolecular Structure, 1972, 1, 38-49.	2.3	28
58	The correlation between the saturation of membrane fatty acids and the presence of membrane fracture faces after osmium fixation. Biochimica Et Biophysica Acta - Biomembranes, 1971, 233, 504-512.	2.6	39
59	The correlation between the saturation of membrane fatty acids and the presence of membrane fracture faces after osmium fixation. Biochimica Et Biophysica Acta - Biomembranes, 1971, 223, 504-512.	2.6	0
60	Localization of A Antigen Sites on Human Erythrocyte Ghosts. Nature, 1971, 232, 194-196.	27.8	224
61	Freeze-etch observations of rat lung. The Anatomical Record, 1971, 170, 471-483.	1.8	21
62	GAS VACUOLES. Journal of Cell Biology, 1971, 48, 212-215.	5.2	33
63	MEMBRANE SPLITTING IN FREEZE-ETCHING. Journal of Cell Biology, 1970, 45, 598-605.	5.2	584
64	Lamellar and hexagonal lipid phases visualized by freeze-etching. Biochimica Et Biophysica Acta - Biomembranes, 1970, 219, 47-60.	2.6	258
65	Changes in the Plasma Membrane of <i>Escherichia coli</i> During Magnesium Starvation. Journal of Bacteriology, 1969, 98, 1320-1327.	2.2	116
66	Fracture faces in frozen outer segments from the guinea pig retina. Cell and Tissue Research, 1968, 91, 586-603.	2.9	144
67	STRUCTURE OF THE PHOTOSYNTHETIC APPARATUS. , 1968, , 197-224.		8
68	Subunits in chloroplast lamellae. Journal of Ultrastructure Research, 1967, 19, 283-303.	1.1	189
69	Dry, High Resolution Autoradiography. Biotechnic & Histochemistry, 1962, 37, 239-242.	0.4	39
70	Iron Transport in Pea Plants. Plant Physiology, 1962, 37, 539-545.	4.8	46
71	Iron Localization in Pea Plants. Plant Physiology, 1962, 37, 546-551.	4.8	39