

# Hagan Bayley

## List of Publications by Year in descending order

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310  
papers

31,395  
citations

2970

93  
h-index

4988

167  
g-index

344  
all docs

344  
docs citations

344  
times ranked

16839  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of Staphylococcal alpha -Hemolysin, a Heptameric Transmembrane Pore. <i>Science</i> , 1996, 274, 1859-1865.	6.0	2,237
2	The potential and challenges of nanopore sequencing. <i>Nature Biotechnology</i> , 2008, 26, 1146-1153.	9.4	2,201
3	Continuous base identification for single-molecule nanopore DNA sequencing. <i>Nature Nanotechnology</i> , 2009, 4, 265-270.	15.6	1,507
4	Stochastic sensors inspired by biology. <i>Nature</i> , 2001, 413, 226-230.	13.7	1,046
5	Sequence-specific detection of individual DNA strands using engineered nanopores. <i>Nature Biotechnology</i> , 2001, 19, 636-639.	9.4	689
6	Stochastic sensing of organic analytes by a pore-forming protein containing a molecular adapter. <i>Nature</i> , 1999, 398, 686-690.	13.7	679
7	A Tissue-Like Printed Material. <i>Science</i> , 2013, 340, 48-52.	6.0	516
8	Resistive-Pulse Sensing From Microbes to Molecules. <i>Chemical Reviews</i> , 2000, 100, 2575-2594.	23.0	491
9	Intracellular trehalose improves the survival of cryopreserved mammalian cells. <i>Nature Biotechnology</i> , 2000, 18, 163-167.	9.4	475
10	[8] Photoaffinity labeling. <i>Methods in Enzymology</i> , 1977, 46, 69-114.	0.4	463
11	Droplet interface bilayers. <i>Molecular BioSystems</i> , 2008, 4, 1191.	2.9	411
12	Single-nucleotide discrimination in immobilized DNA oligonucleotides with a biological nanopore. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7702-7707.	3.3	411
13	Functional Bionetworks from Nanoliter Water Droplets. <i>Journal of the American Chemical Society</i> , 2007, 129, 8650-8655.	6.6	346
14	Detecting protein analytes that modulate transmembrane movement of a polymer chain within a single protein pore. <i>Nature Biotechnology</i> , 2000, 18, 1091-1095.	9.4	337
15	Toward Single Molecule DNA Sequencing: A Direct Identification of Ribonucleoside and Deoxyribonucleoside 5'-Monophosphates by Using an Engineered Protein Nanopore Equipped with a Molecular Adapter. <i>Journal of the American Chemical Society</i> , 2006, 128, 1705-1710.	6.6	298
16	Simultaneous stochastic sensing of divalent metal ions. <i>Nature Biotechnology</i> , 2000, 18, 1005-1007.	9.4	290
17	Staphylococcal alpha-toxin, streptolysin-O, and Escherichia coli hemolysin: prototypes of pore-forming bacterial cytolysins. <i>Archives of Microbiology</i> , 1996, 165, 73-79.	1.0	287
18	Protein Detection by Nanopores Equipped with Aptamers. <i>Journal of the American Chemical Society</i> , 2012, 134, 2781-2787.	6.6	284

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19	Designed protein pores as components for biosensors. <i>Chemistry and Biology</i> , 1997, 4, 497-505.	6.2	280
20	Multistep protein unfolding during nanopore translocation. <i>Nature Nanotechnology</i> , 2013, 8, 288-295.	15.6	275
21	Molecular cloning and primary structure of myelin-associated glycoprotein.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987, 84, 600-604.	3.3	265
22	Hybrid pore formation by directed insertion of $\alpha$ -haemolysin into solid-state nanopores. <i>Nature Nanotechnology</i> , 2010, 5, 874-877.	15.6	261
23	Interactions of Peptides with a Protein Pore. <i>Biophysical Journal</i> , 2005, 89, 1030-1045.	0.2	248
24	Subunit stoichiometry of staphylococcal alpha-hemolysin in crystals and on membranes: a heptameric transmembrane pore.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 12828-12831.	3.3	245
25	Enhanced translocation of single DNA molecules through $\alpha$ -hemolysin nanopores by manipulation of internal charge. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19720-19725.	3.3	241
26	Single-molecule site-specific detection of protein phosphorylation with a nanopore. <i>Nature Biotechnology</i> , 2014, 32, 179-181.	9.4	229
27	Droplet networks with incorporated protein diodes show collective properties. <i>Nature Nanotechnology</i> , 2009, 4, 437-440.	15.6	210
28	Reduction of aryl azides by thiols: Implications for the use of photoaffinity reagents. <i>Biochemical and Biophysical Research Communications</i> , 1978, 80, 568-572.	1.0	207
29	Nanopore Sequencing: From Imagination to Reality. <i>Clinical Chemistry</i> , 2015, 61, 25-31.	1.5	200
30	Asymmetric Droplet Interface Bilayers. <i>Journal of the American Chemical Society</i> , 2008, 130, 5878-5879.	6.6	195
31	Propane-1,3-dithiol: A selective reagent for the efficient reduction of alkyl and aryl azides to amines. <i>Tetrahedron Letters</i> , 1978, 19, 3633-3634.	0.7	194
32	Kinetics of duplex formation for individual DNA strands within a single protein nanopore. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 12996-13001.	3.3	192
33	Secondary structure and assembly mechanism of an oligomeric channel protein. <i>Biochemistry</i> , 1985, 24, 1915-1920.	1.2	185
34	A molecular mechanism for long-term sensitization in <i>Aplysia</i> . <i>Nature</i> , 1987, 329, 62-65.	13.7	185
35	Formation of droplet networks that function in aqueous environments. <i>Nature Nanotechnology</i> , 2011, 6, 803-808.	15.6	185
36	An Engineered ClyA Nanopore Detects Folded Target Proteins by Selective External Association and Pore Entry. <i>Nano Letters</i> , 2012, 12, 4895-4900.	4.5	183

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37	Functional engineered channels and pores (Review). <i>Molecular Membrane Biology</i> , 2004, 21, 209-220.	2.0	182
38	Recognizing a Single Base in an Individual DNA Strand: A Step Toward DNA Sequencing in Nanopores. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1401-1404.	7.2	181
39	Light-activated communication in synthetic tissues. <i>Science Advances</i> , 2016, 2, e1600056.	4.7	173
40	Purification and characterization of recombinant spider silk expressed in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 1998, 49, 31-38.	1.7	167
41	Site of attachment of retinal in bacteriorhodopsin.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1981, 78, 2225-2229.	3.3	166
42	Beneficial Effect of Intracellular Trehalose on the Membrane Integrity of Dried Mammalian Cells. <i>Cryobiology</i> , 2001, 43, 168-181.	0.3	166
43	Identification of epigenetic DNA modifications with a protein nanopore. <i>Chemical Communications</i> , 2010, 46, 8195.	2.2	161
44	Outer membrane protein G: Engineering a quiet pore for biosensing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6272-6277.	3.3	160
45	The role of lipids in mechanosensation. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 991-998.	3.6	160
46	Sequencing single molecules of DNA. <i>Current Opinion in Chemical Biology</i> , 2006, 10, 628-637.	2.8	155
47	High-Resolution Patterned Cellular Constructs by Droplet-Based 3D Printing. <i>Scientific Reports</i> , 2017, 7, 7004.	1.6	154
48	Multi-responsive hydrogel structures from patterned droplet networks. <i>Nature Chemistry</i> , 2020, 12, 363-371.	6.6	148
49	Key Residues for Membrane Binding, Oligomerization, and Pore Forming Activity of Staphylococcal $\alpha$ -Hemolysin Identified by Cysteine Scanning Mutagenesis and Targeted Chemical Modification. <i>Journal of Biological Chemistry</i> , 1995, 270, 23065-23071.	1.6	145
50	Stochastic Detection of Enantiomers. <i>Journal of the American Chemical Society</i> , 2006, 128, 10684-10685.	6.6	143
51	Capture of a Single Molecule in a Nanocavity. <i>Science</i> , 2001, 291, 636-640.	6.0	141
52	Elimination of a bacterial pore-forming toxin by sequential endocytosis and exocytosis. <i>FEBS Letters</i> , 2009, 583, 337-344.	1.3	141
53	Screening Blockers Against a Potassium Channel with a Droplet Interface Bilayer Array. <i>Journal of the American Chemical Society</i> , 2008, 130, 15543-15548.	6.6	139
54	Stochastic Sensing of Nanomolar Inositol 1,4,5-Trisphosphate with an Engineered Pore. <i>Chemistry and Biology</i> , 2002, 9, 829-838.	6.2	138

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55	Cyclic Peptides as Molecular Adapters for a Pore-Forming Protein. <i>Journal of the American Chemical Society</i> , 2000, 122, 11757-11766.	6.6	134
56	A Storable Encapsulated Bilayer Chip Containing a Single Protein Nanopore. <i>Journal of the American Chemical Society</i> , 2007, 129, 4701-4705.	6.6	132
57	High-throughput optical sensing of nucleic acids in a nanopore array. <i>Nature Nanotechnology</i> , 2015, 10, 986-991.	15.6	132
58	The RII subunit of camp-dependent protein kinase binds to a common amino-terminal domain in microtubule-associated proteins 2A, 2B, and 2C. <i>Neuron</i> , 1989, 3, 639-645.	3.8	131
59	Reversal of charge selectivity in transmembrane protein pores by using noncovalent molecular adapters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 3959-3964.	3.3	129
60	Catalyzing the Translocation of Polypeptides through Attractive Interactions. <i>Journal of the American Chemical Society</i> , 2007, 129, 14034-14041.	6.6	129
61	Photogenerated reagents for membrane labeling. 1. Phenylnitrene formed within the lipid bilayer. <i>Biochemistry</i> , 1978, 17, 2414-2419.	1.2	127
62	An intermediate in the assembly of a pore-forming protein trapped with a genetically-engineered switch. <i>Chemistry and Biology</i> , 1995, 2, 99-105.	6.2	123
63	Electroosmotic enhancement of the binding of a neutral molecule to a transmembrane pore. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 15498-15503.	3.3	123
64	Subunit composition of a bicomponent toxin: Staphylococcal leukocidin forms an octameric transmembrane pore. <i>Protein Science</i> , 2002, 11, 894-902.	3.1	122
65	Stochastic Sensing of TNT with a Genetically Engineered Pore. <i>ChemBioChem</i> , 2005, 6, 1875-1881.	1.3	121
66	Photoisomerization of an Individual Azobenzene Molecule in Water: An On/Off Switch Triggered by Light at a Fixed Wavelength. <i>Journal of the American Chemical Society</i> , 2006, 128, 12404-12405.	6.6	120
67	Temperature-Responsive Protein Pores. <i>Journal of the American Chemical Society</i> , 2006, 128, 15332-15340.	6.6	118
68	Simultaneous Measurement of Ionic Current and Fluorescence from Single Protein Pores. <i>Journal of the American Chemical Society</i> , 2009, 131, 1652-1653.	6.6	118
69	Controlled Translocation of Individual DNA Molecules through Protein Nanopores with Engineered Molecular Brakes. <i>Nano Letters</i> , 2011, 11, 746-750.	4.5	116
70	Photogenerated reagents for membrane labeling. 2. Phenylcarbene and adamantylidene formed within the lipid bilayer. <i>Biochemistry</i> , 1978, 17, 2420-2423.	1.2	115
71	Delipidation of bacteriorhodopsin and reconstitution with exogenous phospholipid.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1980, 77, 323-327.	3.3	115
72	Partitioning of Individual Flexible Polymers into a Nanoscopic Protein Pore. <i>Biophysical Journal</i> , 2003, 85, 897-910.	0.2	112

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73	Protein Nanopores with Covalently Attached Molecular Adapters. <i>Journal of the American Chemical Society</i> , 2007, 129, 16142-16148.	6.6	112
74	Membrane Protein Stoichiometry Determined from the Step-Wise Photobleaching of Dye-Labelled Subunits. <i>ChemBioChem</i> , 2007, 8, 994-999.	1.3	111
75	Transmembrane $\beta$ -barrel of staphylococcal $\beta$ -toxin forms in sensitive but not in resistant cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 11607-11611.	3.3	110
76	Kinetics of a Reversible Covalent-Bond-Forming Reaction Observed at the Single-Molecule Level. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3707-3709.	7.2	109
77	Intrinsically Disordered Protein Threads Through the Bacterial Outer-Membrane Porin OmpF. <i>Science</i> , 2013, 340, 1570-1574.	6.0	109
78	Molecular bases of cyclodextrin adapter interactions with engineered protein nanopores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 8165-8170.	3.3	108
79	Stochastic Detection of Monovalent and Bivalent Protein-Ligand Interactions. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 842-846.	7.2	105
80	Single-Molecule Detection of Nitrogen Mustards by Covalent Reaction within a Protein Nanopore. <i>Journal of the American Chemical Society</i> , 2008, 130, 6813-6819.	6.6	103
81	Analysis of Single Nucleic Acid Molecules with Protein Nanopores. <i>Methods in Enzymology</i> , 2010, 475, 591-623.	0.4	103
82	Nanopore-Based Identification of Individual Nucleotides for Direct RNA Sequencing. <i>Nano Letters</i> , 2013, 13, 6144-6150.	4.5	103
83	Combinatorial RNA splicing alters the surface charge on the NMDA receptor. <i>FEBS Letters</i> , 1992, 305, 27-30.	1.3	102
84	Interaction of the Noncovalent Molecular Adapter, $\beta$ -Cyclodextrin, with the Staphylococcal $\beta$ -Hemolysin Pore. <i>Biophysical Journal</i> , 2000, 79, 1967-1975.	0.2	102
85	Biochemical and Biophysical Characterization of OmpC: A Monomeric Porin. <i>Biochemistry</i> , 2000, 39, 11845-11854.	1.2	101
86	Prolonged Residence Time of a Noncovalent Molecular Adapter, $\beta$ -Cyclodextrin, within the Lumen of Mutant $\beta$ -Hemolysin Pores. <i>Journal of General Physiology</i> , 2001, 118, 481-494.	0.9	101
87	A Protein Pore with a Single Polymer Chain Tethered within the Lumen. <i>Journal of the American Chemical Society</i> , 2000, 122, 2411-2416.	6.6	100
88	Multiple Base-Recognition Sites in a Biological Nanopore: Two Heads are Better than One. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 556-559.	7.2	100
89	Primary structure of a molluscan egg-specific NADase, a second-messenger enzyme. <i>Molecular Biology of the Cell</i> , 1991, 2, 211-218.	6.5	99
90	Single-Molecule Covalent Chemistry with Spatially Separated Reactants. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3766-3771.	7.2	99

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91	Protein components for nanodevices. <i>Current Opinion in Chemical Biology</i> , 2005, 9, 576-584.	2.8	99
92	Electrical Behavior of Droplet Interface Bilayer Networks: Experimental Analysis and Modeling. <i>Journal of the American Chemical Society</i> , 2007, 129, 11854-11864.	6.6	98
93	Altered Antibiotic Transport in OmpC Mutants Isolated from a Series of Clinical Strains of Multi-Drug Resistant <i>E. coli</i> . <i>PLoS ONE</i> , 2011, 6, e25825.	1.1	98
94	A photogenerated pore-forming protein. <i>Chemistry and Biology</i> , 1995, 2, 391-400.	6.2	97
95	A monodisperse transmembrane $\alpha$ -helical peptide barrel. <i>Nature Chemistry</i> , 2017, 9, 411-419.	6.6	97
96	Engineered transmembrane pores. <i>Current Opinion in Chemical Biology</i> , 2016, 34, 117-126.	2.8	95
97	Single Protein Pores Containing Molecular Adapters at High Temperatures. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1495-1499.	7.2	93
98	Reversible permeabilization of plasma membranes with an engineered switchable pore. <i>Nature Biotechnology</i> , 1997, 15, 278-282.	9.4	92
99	A functional protein pore with a $\beta$ -retrotransmembrane domain. <i>Protein Science</i> , 1999, 8, 1257-1267.	3.1	92
100	Photogenerated reagents for membranes: selective labeling of intrinsic membrane proteins in the human erythrocyte membrane. <i>Biochemistry</i> , 1980, 19, 3883-3892.	1.2	91
101	Nucleobase Recognition in ssDNA at the Central Constriction of the $\alpha$ -Hemolysin Pore. <i>Nano Letters</i> , 2010, 10, 3633-3637.	4.5	91
102	Genetically Engineered Metal Ion Binding Sites on the Outside of a Channel's Transmembrane $\alpha$ -Barrel. <i>Biophysical Journal</i> , 1999, 76, 837-845.	0.2	89
103	Probing Distance and Electrical Potential within a Protein Pore with Tethered DNA. <i>Biophysical Journal</i> , 2002, 83, 3202-3210.	0.2	84
104	Designed membrane channels and pores. <i>Current Opinion in Biotechnology</i> , 1999, 10, 94-103.	3.3	83
105	Continuous Stochastic Detection of Amino Acid Enantiomers with a Protein Nanopore. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9606-9609.	7.2	82
106	Location of a Constriction in the Lumen of a Transmembrane Pore by Targeted Covalent Attachment of Polymer Molecules. <i>Journal of General Physiology</i> , 2001, 117, 239-252.	0.9	79
107	Single DNA Rotaxanes of a Transmembrane Pore Protein. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3063-3067.	7.2	78
108	Folding of a Monomeric Porin, OmpG, in Detergent Solution. <i>Biochemistry</i> , 2003, 42, 9453-9465.	1.2	76

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109	Single-Molecule Observation of the Catalytic Subunit of cAMP-Dependent Protein Kinase Binding to an Inhibitor Peptide. <i>Chemistry and Biology</i> , 2005, 12, 109-120.	6.2	76
110	Rapid Assembly of a Multimeric Membrane Protein Pore. <i>Biophysical Journal</i> , 2011, 101, 2679-2683.	0.2	75
111	A pore-forming protein with a metal-actuated switch. <i>Protein Engineering, Design and Selection</i> , 1994, 7, 655-662.	1.0	74
112	The leukocidin pore: Evidence for an octamer with four LukF subunits and four LukS subunits alternating around a central axis. <i>Protein Science</i> , 2005, 14, 2550-2561.	3.1	74
113	Homomeric assemblies of NMDAR1 splice variants are sensitive to ethanol. <i>Neuroscience Letters</i> , 1993, 152, 13-16.	1.0	73
114	Self-assembled $\beta$ -hemolysin pores in an S-layer-supported lipid bilayer. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998, 1370, 280-288.	1.4	72
115	S-layer Ultrafiltration Membranes: A New Support for Stabilizing Functionalized Lipid Membranes. <i>Langmuir</i> , 2001, 17, 499-503.	1.6	72
116	Ion Channels and Lipid Bilayer Membranes Under High Potentials Using Microfabricated Apertures. <i>Biomedical Microdevices</i> , 2002, 4, 231-236.	1.4	71
117	A primary hydrogen-deuterium isotope effect observed at the single-molecule level. <i>Nature Chemistry</i> , 2010, 2, 921-928.	6.6	70
118	Single-Molecule Determination of the Isomers of $\alpha$ -Glucose and $\alpha$ -Fructose that Bind to Boronic Acids. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2841-2845.	7.2	70
119	Catalytic Subunit of Protein Kinase A Caged at the Activating Phosphothreonine. <i>Journal of the American Chemical Society</i> , 2002, 124, 8220-8229.	6.6	69
120	Directional control of a processive molecular hopper. <i>Science</i> , 2018, 361, 908-912.	6.0	69
121	Tumor protease-activated, pore-forming toxins from a combinatorial library. <i>Nature Biotechnology</i> , 1996, 14, 852-856.	9.4	67
122	The Heptameric Prepore of a Staphylococcal $\beta$ -Hemolysin Mutant in Lipid Bilayers Imaged by Atomic Force Microscopy. <i>Biochemistry</i> , 1997, 36, 9518-9522.	1.2	67
123	Multi-compartment encapsulation of communicating droplets and droplet networks in hydrogel as a model for artificial cells. <i>Scientific Reports</i> , 2017, 7, 45167.	1.6	66
124	Individual RNA Base Recognition in Immobilized Oligonucleotides Using a Protein Nanopore. <i>Nano Letters</i> , 2012, 12, 5637-5643.	4.5	65
125	Functional truncated membrane pores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2425-2430.	3.3	65
126	DNA scaffolds support stable and uniform peptide nanopores. <i>Nature Nanotechnology</i> , 2018, 13, 739-745.	15.6	65



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127	Real-Time Stochastic Detection of Multiple Neurotransmitters with a Protein Nanopore. ACS Nano, 2012, 6, 5304-5308.	7.3	64
128	Controlled packing and single-droplet resolution of 3D-printed functional synthetic tissues. Nature Communications, 2020, 11, 2105.	5.8	64
129	A regulatory subunit of the cAMP-dependent protein kinase down-regulated in aplysia sensory neurons during long-term sensitization. Neuron, 1992, 8, 387-397.	3.8	63
130	Properties of Bacillus cereus hemolysin II: A heptameric transmembrane pore. Protein Science, 2009, 11, 1813-1824.	3.1	62
131	Protein co-translocational unfolding depends on the direction of pulling. Nature Communications, 2014, 5, 4841.	5.8	62
132	A carbene-yielding amino acid for incorporation into peptide photoaffinity reagents. Analytical Biochemistry, 1985, 144, 132-141.	1.1	60
133	The Staphylococcal Leukocidin Bicomponent Toxin Forms Large Ionic Channels,. Biochemistry, 2001, 40, 8514-8522.	1.2	60
134	Piercing insights. Nature, 2009, 459, 651-652.	13.7	60
135	Single-Molecule Detection of 5-Hydroxymethylcytosine in DNA through Chemical Modification and Nanopore Analysis. Angewandte Chemie - International Edition, 2013, 52, 4350-4355.	7.2	60
136	Constructing ion channels from water-soluble $\alpha$ -helical barrels. Nature Chemistry, 2021, 13, 643-650.	6.6	59
137	Measurement of trehalose loading of mammalian cells porated with a metal-actuated switchable pore. Biotechnology and Bioengineering, 2003, 82, 525-532.	1.7	58
138	Holes with an edge. Nature, 2010, 467, 164-165.	13.7	58
139	Light-patterning of synthetic tissues with single droplet resolution. Scientific Reports, 2017, 7, 9315.	1.6	58
140	Selective labelling of the hydrophobic segments of intrinsic membrane proteins with a lipophilic photogenerated carbene. Nature, 1979, 280, 841-843.	13.7	57
141	Caged Catalytic Subunit of cAMP-Dependent Protein Kinase. Journal of the American Chemical Society, 1998, 120, 7661-7662.	6.6	57
142	Sequence of abductin, the molluscan "rubber" protein. Current Biology, 1997, 7, R677-R678.	1.8	56
143	Kinetics of a Three-Step Reaction Observed at the Single-Molecule Level. Angewandte Chemie - International Edition, 2003, 42, 1926-1929.	7.2	56
144	Direct Introduction of Single Protein Channels and Pores into Lipid Bilayers. Journal of the American Chemical Society, 2005, 127, 6502-6503.	6.6	56

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145	Functional aqueous droplet networks. <i>Molecular BioSystems</i> , 2017, 13, 1658-1691.	2.9	56
146	A new class of hybrid secretion system is employed in <i>Pseudomonas amyloid</i> biogenesis. <i>Nature Communications</i> , 2017, 8, 263.	5.8	56
147	Surface labeling of key residues during assembly of the transmembrane pore formed by staphylococcal $\alpha$ -hemolysin. <i>FEBS Letters</i> , 1994, 356, 66-71.	1.3	55
148	Semisynthetic protein nanoreactor for single-molecule chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13768-13773.	3.3	55
149	Caged cysteine and thiophosphoryl peptides. <i>FEBS Letters</i> , 1997, 405, 81-85.	1.3	54
150	Surface-accessible Residues in the Monomeric and Assembled Forms of a Bacterial Surface Layer Protein. <i>Journal of Biological Chemistry</i> , 2000, 275, 37876-37886.	1.6	53
151	Stepwise Growth of a Single Polymer Chain. <i>Journal of the American Chemical Society</i> , 2005, 127, 10462-10463.	6.6	53
152	A Genetically Encoded Pore for the Stochastic Detection of a Protein Kinase. <i>ChemBioChem</i> , 2006, 7, 1923-1927.	1.3	52
153	Single-molecule analysis of chirality in a multicomponent reaction network. <i>Nature Chemistry</i> , 2014, 6, 603-607.	6.6	52
154	Construction and Manipulation of Functional Three-Dimensional Droplet Networks. <i>ACS Nano</i> , 2014, 8, 771-779.	7.3	52
155	A Pore-forming protein with a protease-activated trigger. <i>Protein Engineering, Design and Selection</i> , 1994, 7, 91-97.	1.0	51
156	Direct transfer of membrane proteins from bacteria to planar bilayers for rapid screening by single-channel recording. <i>Nature Chemical Biology</i> , 2006, 2, 314-318.	3.9	51
157	Continuous observation of the stochastic motion of an individual small-molecule walker. <i>Nature Nanotechnology</i> , 2015, 10, 76-83.	15.6	50
158	Two catalytic subunits of cAMP-dependent protein kinase generated by alternative RNA splicing are expressed in <i>Aplysia</i> neurons. <i>Neuron</i> , 1988, 1, 853-864.	3.8	49
159	Stochastic detection of Pim protein kinases reveals electrostatically enhanced association of a peptide substrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4417-26.	3.3	49
160	Translocating Kilobase RNA through the Staphylococcal $\alpha$ -Hemolysin Nanopore. <i>Nano Letters</i> , 2013, 13, 2500-2505.	4.5	49
161	Droplet printing reveals the importance of micron-scale structure for bacterial ecology. <i>Nature Communications</i> , 2021, 12, 857.	5.8	48
162	Single-Molecule Covalent Chemistry in a Protein Nanoreactor. <i>Springer Series in Biophysics</i> , 2008, , 251-277.	0.4	48

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163	Toxin structure: Part of a hole?. <i>Current Biology</i> , 1997, 7, R763-R767.	1.8	46
164	Role of the Amino Latch of Staphylococcal $\alpha$ -Hemolysin in Pore Formation. <i>Journal of Biological Chemistry</i> , 2006, 281, 2195-2204.	1.6	46
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