

# Hagan Bayley

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8377829/hagan-bayley-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

296  
papers

26,690  
citations

87  
h-index

156  
g-index

344  
ext. papers

29,219  
ext. citations

11.4  
avg, IF

7.14  
L-index

#	Paper	IF	Citations
296	Structure of staphylococcal alpha-hemolysin, a heptameric transmembrane pore. <i>Science</i> , <b>1996</b> , 274, 1859-66	33.3	1967
295	The potential and challenges of nanopore sequencing. <i>Nature Biotechnology</i> , <b>2008</b> , 26, 1146-53	44.5	1881
294	Continuous base identification for single-molecule nanopore DNA sequencing. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 265-70	28.7	1265
293	Stochastic sensors inspired by biology. <i>Nature</i> , <b>2001</b> , 413, 226-30	50.4	942
292	Sequence-specific detection of individual DNA strands using engineered nanopores. <i>Nature Biotechnology</i> , <b>2001</b> , 19, 636-9	44.5	611
291	Stochastic sensing of organic analytes by a pore-forming protein containing a molecular adapter. <i>Nature</i> , <b>1999</b> , 398, 686-90	50.4	607
290	Resistive-Pulse Sensing-From Microbes to Molecules. <i>Chemical Reviews</i> , <b>2000</b> , 100, 2575-2594	68.1	438
289	Intracellular trehalose improves the survival of cryopreserved mammalian cells. <i>Nature Biotechnology</i> , <b>2000</b> , 18, 163-7	44.5	416
288	A tissue-like printed material. <i>Science</i> , <b>2013</b> , 340, 48-52	33.3	395
287	Photoaffinity labeling. <i>Methods in Enzymology</i> , <b>1977</b> , 46, 69-114	1.7	391
286	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> , <b>2009</b> , 106, 7702-7	11.5	351
285	Droplet interface bilayers. <i>Molecular BioSystems</i> , <b>2008</b> , 4, 1191-208		333
284	Detecting protein analytes that modulate transmembrane movement of a polymer chain within a single protein pore. <i>Nature Biotechnology</i> , <b>2000</b> , 18, 1091-5	44.5	296
283	Functional bionetworks from nanoliter water droplets. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 8650-5	16.4	275
282	Toward single molecule DNA sequencing: direct identification of ribonucleoside and deoxyribonucleoside 5Rmonophosphates by using an engineered protein nanopore equipped with a molecular adapter. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 1705-10	16.4	272
281	Staphylococcal alpha-toxin, streptolysin-O, and Escherichia coli hemolysin: prototypes of pore-forming bacterial cytolysins. <i>Archives of Microbiology</i> , <b>1996</b> , 165, 73-9	3	268
280	Simultaneous stochastic sensing of divalent metal ions. <i>Nature Biotechnology</i> , <b>2000</b> , 18, 1005-7	44.5	258

279	Designed protein pores as components for biosensors. <i>Chemistry and Biology</i> , <b>1997</b> , 4, 497-505		251
278	Molecular cloning and primary structure of myelin-associated glycoprotein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1987</b> , 84, 600-4	11.5	251
277	Protein detection by nanopores equipped with aptamers. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 2781-7	16.4	234
276	Hybrid pore formation by directed insertion of $\alpha$ -haemolysin into solid-state nanopores. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 874-7	28.7	231
275	Interactions of peptides with a protein pore. <i>Biophysical Journal</i> , <b>2005</b> , 89, 1030-45	2.9	223
274	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> , <b>1994</b> , 91, 12828-31	11.5	222
273	Multistep protein unfolding during nanopore translocation. <i>Nature Nanotechnology</i> , <b>2013</b> , 8, 288-95	28.7	215
272	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> , <b>2008</b> , 105, 19720-5	11.5	209
271	Reduction of aryl azides by thiols: implications for the use of photoaffinity reagents. <i>Biochemical and Biophysical Research Communications</i> , <b>1978</b> , 80, 568-72	3.4	185
270	Propane-1,3-dithiol: A selective reagent for the efficient reduction of alkyl and aryl azides to amines. <i>Tetrahedron Letters</i> , <b>1978</b> , 19, 3633-3634	2	180
269	Droplet networks with incorporated protein diodes show collective properties. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 437-40	28.7	175
268	Functional engineered channels and pores (Review). <i>Molecular Membrane Biology</i> , <b>2004</b> , 21, 209-20	3.4	172
267	Single-molecule site-specific detection of protein phosphorylation with a nanopore. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 179-81	44.5	171
266	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> , <b>2001</b> , 98, 12996-3001	11.5	166
265	A molecular mechanism for long-term sensitization in Aplysia. <i>Nature</i> , <b>1987</b> , 329, 62-5	50.4	165
264	Secondary structure and assembly mechanism of an oligomeric channel protein. <i>Biochemistry</i> , <b>1985</b> , 24, 1915-20	3.2	165
263	Nanopore sequencing: from imagination to reality. <i>Clinical Chemistry</i> , <b>2015</b> , 61, 25-31	5.5	160
262	Recognizing a single base in an individual DNA strand: a step toward DNA sequencing in nanopores. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 1401-4	16.4	157

261	Beneficial effect of intracellular trehalose on the membrane integrity of dried mammalian cells. <i>Cryobiology</i> , <b>2001</b> , 43, 168-81	2.7	154
260	Site of attachment of retinal in bacteriorhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1981</b> , 78, 2225-9	11.5	152
259	Purification and characterization of recombinant spider silk expressed in Escherichia coli. <i>Applied Microbiology and Biotechnology</i> , <b>1998</b> , 49, 31-8	5.7	150
258	Asymmetric droplet interface bilayers. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 5878-9	16.4	150
257	Identification of epigenetic DNA modifications with a protein nanopore. <i>Chemical Communications</i> , <b>2010</b> , 46, 8195-7	5.8	148
256	An engineered ClyA nanopore detects folded target proteins by selective external association and pore entry. <i>Nano Letters</i> , <b>2012</b> , 12, 4895-900	11.5	146
255	Formation of droplet networks that function in aqueous environments. <i>Nature Nanotechnology</i> , <b>2011</b> , 6, 803-8	28.7	145
254	Sequencing single molecules of DNA. <i>Current Opinion in Chemical Biology</i> , <b>2006</b> , 10, 628-37	9.7	142
253	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> , <b>2008</b> , 105, 6272-7	11.5	131
252	Capture of a single molecule in a nanocavity. <i>Science</i> , <b>2001</b> , 291, 636-40	33.3	131
251	Stochastic detection of enantiomers. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 10684-5	16.4	129
250	Stochastic sensing of nanomolar inositol 1,4,5-trisphosphate with an engineered pore. <i>Chemistry and Biology</i> , <b>2002</b> , 9, 829-38		129
249	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> , <b>1995</b> , 270, 23065-71	5.4	126
248	Elimination of a bacterial pore-forming toxin by sequential endocytosis and exocytosis. <i>FEBS Letters</i> , <b>2009</b> , 583, 337-44	3.8	124
247	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> , <b>1989</b> , 3, 639-45	13.9	122
246	Catalyzing the translocation of polypeptides through attractive interactions. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 14034-41	16.4	121
245	Cyclic Peptides as Molecular Adapters for a Pore-Forming Protein. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 11757-11766	16.4	121
244	A storable encapsulated bilayer chip containing a single protein nanopore. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 4701-5	16.4	120

243	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> , <b>2000</b> , 97, 3959-64	11.5	119
242	Subunit composition of a bicomponent toxin: staphylococcal leukocidin forms an octameric transmembrane pore. <i>Protein Science</i> , <b>2002</b> , 11, 894-902	6.3	115
241	Light-activated communication in synthetic tissues. <i>Science Advances</i> , <b>2016</b> , 2, e1600056	14.3	115
240	Screening blockers against a potassium channel with a droplet interface bilayer array. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 15543-8	16.4	114
239	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> , <b>2003</b> , 100, 15498-503	11.5	112
238	An intermediate in the assembly of a pore-forming protein trapped with a genetically-engineered switch. <i>Chemistry and Biology</i> , <b>1995</b> , 2, 99-105		112
237	The role of lipids in mechanosensation. <i>Nature Structural and Molecular Biology</i> , <b>2015</b> , 22, 991-8	17.6	111
236	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> , <b>2006</b> , 128, 12404-5	16.4	111
235	Temperature-responsive protein pores. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 15332-40	16.4	108
234	Photogenerated reagents for membrane labeling. 1. Phenylnitrene formed within the lipid bilayer. <i>Biochemistry</i> , <b>1978</b> , 17, 2414-9	3.2	108
233	Delipidation of bacteriorhodopsin and reconstitution with exogenous phospholipid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1980</b> , 77, 323-7	11.5	107
232	Stochastic sensing of TNT with a genetically engineered pore. <i>ChemBioChem</i> , <b>2005</b> , 6, 1875-81	3.8	106
231	High-Resolution Patterned Cellular Constructs by Droplet-Based 3D Printing. <i>Scientific Reports</i> , <b>2017</b> , 7, 7004	4.9	105
230	Controlled translocation of individual DNA molecules through protein nanopores with engineered molecular brakes. <i>Nano Letters</i> , <b>2011</b> , 11, 746-50	11.5	103
229	Protein nanopores with covalently attached molecular adapters. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 16142-8	16.4	103
228	High-throughput optical sensing of nucleic acids in a nanopore array. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 986-91	28.7	102
227	Transmembrane beta-barrel of staphylococcal alpha-toxin forms in sensitive but not in resistant cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1997</b> , 94, 11607-11	11.5	102
226	Partitioning of individual flexible polymers into a nanoscopic protein pore. <i>Biophysical Journal</i> , <b>2003</b> , 85, 897-910	2.9	101

225	Photogenerated reagents for membrane labeling. 2. Phenylcarbene and adamantylidene formed within the lipid bilayer. <i>Biochemistry</i> , <b>1978</b> , 17, 2420-3	3.2	100
224	Simultaneous measurement of ionic current and fluorescence from single protein pores. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 1652-3	16.4	99
223	Interaction of the noncovalent molecular adapter, beta-cyclodextrin, with the staphylococcal alpha-hemolysin pore. <i>Biophysical Journal</i> , <b>2000</b> , 79, 1967-75	2.9	98
222	Single-molecule detection of nitrogen mustards by covalent reaction within a protein nanopore. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 6813-9	16.4	97
221	Intrinsically disordered protein threads through the bacterial outer-membrane porin OmpF. <i>Science</i> , <b>2013</b> , 340, 1570-4	33.3	96
220	Membrane protein stoichiometry determined from the step-wise photobleaching of dye-labelled subunits. <i>ChemBioChem</i> , <b>2007</b> , 8, 994-9	3.8	95
219	Stochastic detection of monovalent and bivalent protein-ligand interactions. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 842-6	16.4	95
218	A Protein Pore with a Single Polymer Chain Tethered within the Lumen. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 2411-2416	16.4	94
217	Kinetics of a reversible covalent-bond-forming reaction observed at the single-molecule level. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 3707-9; 3523	16.4	92
216	Biochemical and biophysical characterization of OmpG: A monomeric porin. <i>Biochemistry</i> , <b>2000</b> , 39, 11845-54	3.54	92
215	Primary structure of a molluscan egg-specific NADase, a second-messenger enzyme. <i>Molecular Biology of the Cell</i> , <b>1991</b> , 2, 211-8		92
214	Prolonged residence time of a noncovalent molecular adapter, beta-cyclodextrin, within the lumen of mutant alpha-hemolysin pores. <i>Journal of General Physiology</i> , <b>2001</b> , 118, 481-94	3.4	90
213	Combinatorial RNA splicing alters the surface charge on the NMDA receptor. <i>FEBS Letters</i> , <b>1992</b> , 305, 27-30	3.8	90
212	Single-molecule covalent chemistry with spatially separated reactants. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 3766-71	16.4	89
211	Protein components for nanodevices. <i>Current Opinion in Chemical Biology</i> , <b>2005</b> , 9, 576-84	9.7	88
210	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> , <b>2010</b> , 107, 8165-70	11.5	87
209	A functional protein pore with a "retro" transmembrane domain. <i>Protein Science</i> , <b>1999</b> , 8, 1257-67	6.3	87
208	Analysis of single nucleic acid molecules with protein nanopores. <i>Methods in Enzymology</i> , <b>2010</b> , 475, 591-623	16.23	86

207	Reversible permeabilization of plasma membranes with an engineered switchable pore. <i>Nature Biotechnology</i> , <b>1997</b> , 15, 278-82	44.5	84
206	A photogenerated pore-forming protein. <i>Chemistry and Biology</i> , <b>1995</b> , 2, 391-400		84
205	Photogenerated reagents for membranes: selective labeling of intrinsic membrane proteins in the human erythrocyte membrane. <i>Biochemistry</i> , <b>1980</b> , 19, 3883-92	3.2	84
204	Nanopore-based identification of individual nucleotides for direct RNA sequencing. <i>Nano Letters</i> , <b>2013</b> , 13, 6144-50	11.5	83
203	Single protein pores containing molecular adapters at high temperatures. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 1495-9	16.4	83
202	Genetically engineered metal ion binding sites on the outside of a Channel $\beta$ transmembrane beta-barrel. <i>Biophysical Journal</i> , <b>1999</b> , 76, 837-45	2.9	83
201	Multiple base-recognition sites in a biological nanopore: two heads are better than one. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 556-9	16.4	81
200	Probing distance and electrical potential within a protein pore with tethered DNA. <i>Biophysical Journal</i> , <b>2002</b> , 83, 3202-10	2.9	81
199	Electrical behavior of droplet interface bilayer networks: experimental analysis and modeling. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 11854-64	16.4	80
198	Designed membrane channels and pores. <i>Current Opinion in Biotechnology</i> , <b>1999</b> , 10, 94-103	11.4	80
197	Nucleobase recognition in ssDNA at the central constriction of the alpha-hemolysin pore. <i>Nano Letters</i> , <b>2010</b> , 10, 3633-7	11.5	79
196	Altered antibiotic transport in OmpC mutants isolated from a series of clinical strains of multi-drug resistant E. coli. <i>PLoS ONE</i> , <b>2011</b> , 6, e25825	3.7	74
195	Multi-responsive hydrogel structures from patterned droplet networks. <i>Nature Chemistry</i> , <b>2020</b> , 12, 363-376	17.6	73
194	Location of a constriction in the lumen of a transmembrane pore by targeted covalent attachment of polymer molecules. <i>Journal of General Physiology</i> , <b>2001</b> , 117, 239-52	3.4	73
193	Folding of a monomeric porin, OmpG, in detergent solution. <i>Biochemistry</i> , <b>2003</b> , 42, 9453-65	3.2	71
192	Single DNA rotaxanes of a transmembrane pore protein. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 3063-7	16.4	69
191	S-layer Ultrafiltration Membranes: A New Support for Stabilizing Functionalized Lipid Membranes. <i>Langmuir</i> , <b>2001</b> , 17, 499-503	4	69
190	The leukocidin pore: evidence for an octamer with four LukF subunits and four LukS subunits alternating around a central axis. <i>Protein Science</i> , <b>2005</b> , 14, 2550-61	6.3	67



189	Homomeric assemblies of NMDAR1 splice variants are sensitive to ethanol. <i>Neuroscience Letters</i> , <b>1993</b> , 152, 13-6	3.3	65
188	The heptameric prepore of a staphylococcal alpha-hemolysin mutant in lipid bilayers imaged by atomic force microscopy. <i>Biochemistry</i> , <b>1997</b> , 36, 9518-22	3.2	64
187	Ion Channels and Lipid Bilayer Membranes Under High Potentials Using Microfabricated Apertures. <i>Biomedical Microdevices</i> , <b>2002</b> , 4, 231-236	3.7	64
186	Single-molecule observation of the catalytic subunit of cAMP-dependent protein kinase binding to an inhibitor peptide. <i>Chemistry and Biology</i> , <b>2005</b> , 12, 109-20		64
185	Continuous stochastic detection of amino acid enantiomers with a protein nanopore. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 9606-9	16.4	62
184	A primary hydrogen-deuterium isotope effect observed at the single-molecule level. <i>Nature Chemistry</i> , <b>2010</b> , 2, 921-8	17.6	62
183	Self-assembled alpha-hemolysin pores in an S-layer-supported lipid bilayer. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1998</b> , 1370, 280-8	3.8	62
182	Engineered transmembrane pores. <i>Current Opinion in Chemical Biology</i> , <b>2016</b> , 34, 117-126	9.7	62
181	Catalytic subunit of protein kinase A caged at the activating phosphothreonine. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 8220-9	16.4	61
180	A monodisperse transmembrane helical peptide barrel. <i>Nature Chemistry</i> , <b>2017</b> , 9, 411-419	17.6	60
179	Tumor protease-activated, pore-forming toxins from a combinatorial library. <i>Nature Biotechnology</i> , <b>1996</b> , 14, 852-6	44.5	60
178	A regulatory subunit of the cAMP-dependent protein kinase down-regulated in aplysia sensory neurons during long-term sensitization. <i>Neuron</i> , <b>1992</b> , 8, 387-97	13.9	60
177	A pore-forming protein with a metal-actuated switch. <i>Protein Engineering, Design and Selection</i> , <b>1994</b> , 7, 655-62	1.9	59
176	Rapid assembly of a multimeric membrane protein pore. <i>Biophysical Journal</i> , <b>2011</b> , 101, 2679-83	2.9	58
175	Properties of Bacillus cereus hemolysin II: a heptameric transmembrane pore. <i>Protein Science</i> , <b>2002</b> , 11, 1813-24	6.3	57
174	Individual RNA base recognition in immobilized oligonucleotides using a protein nanopore. <i>Nano Letters</i> , <b>2012</b> , 12, 5637-43	11.5	56
173	The staphylococcal leukocidin bicomponent toxin forms large ionic channels. <i>Biochemistry</i> , <b>2001</b> , 40, 8514-22	3.2	54
172	Functional truncated membrane pores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 2425-30	11.5	53



171	Real-time stochastic detection of multiple neurotransmitters with a protein nanopore. <i>ACS Nano</i> , <b>2012</b> , 6, 5304-8	16.7	53
170	Single-molecule detection of 5-hydroxymethylcytosine in DNA through chemical modification and nanopore analysis. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 4350-5	16.4	53
169	Direct introduction of single protein channels and pores into lipid bilayers. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 6502-3	16.4	53
168	Measurement of trehalose loading of mammalian cells porated with a metal-actuated switchable pore. <i>Biotechnology and Bioengineering</i> , <b>2003</b> , 82, 525-32	4.9	53
167	A carbene-yielding amino acid for incorporation into peptide photoaffinity reagents. <i>Analytical Biochemistry</i> , <b>1985</b> , 144, 132-41	3.1	53
166	Caged Catalytic Subunit of cAMP-Dependent Protein Kinase. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 7661-7662	16.4	50
165	Surface-accessible residues in the monomeric and assembled forms of a bacterial surface layer protein. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 37876-86	5.4	49
164	Surface labeling of key residues during assembly of the transmembrane pore formed by staphylococcal alpha-hemolysin. <i>FEBS Letters</i> , <b>1994</b> , 356, 66-71	3.8	49
163	Direct transfer of membrane proteins from bacteria to planar bilayers for rapid screening by single-channel recording. <i>Nature Chemical Biology</i> , <b>2006</b> , 2, 314-8	11.7	48
162	Two catalytic subunits of cAMP-dependent protein kinase generated by alternative RNA splicing are expressed in Aplysia neurons. <i>Neuron</i> , <b>1988</b> , 1, 853-64	13.9	48
161	Multi-compartment encapsulation of communicating droplets and droplet networks in hydrogel as a model for artificial cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 45167	4.9	47
160	Protein co-translocational unfolding depends on the direction of pulling. <i>Nature Communications</i> , <b>2014</b> , 5, 4841	17.4	47
159	Sequence of abductin, the molluscan Rubber Protein. <i>Current Biology</i> , <b>1997</b> , 7, R677-8	6.3	47
158	A genetically encoded pore for the stochastic detection of a protein kinase. <i>ChemBioChem</i> , <b>2006</b> , 7, 1923-8	3.8	47
157	Stepwise growth of a single polymer chain. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 10462-3	16.4	46
156	Kinetics of a three-step reaction observed at the single-molecule level. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 1926-9	16.4	46
155	Selective labelling of the hydrophobic segments of intrinsic membrane proteins with a lipophilic photogenerated carbene. <i>Nature</i> , <b>1979</b> , 280, 841-3	50.4	46
154	Translocating kilobase RNA through the Staphylococcal Hemolysin nanopore. <i>Nano Letters</i> , <b>2013</b> , 13, 2500-5	11.5	45

153	A pore-forming protein with a protease-activated trigger. <i>Protein Engineering, Design and Selection</i> , <b>1994</b> , 7, 91-7	1.9	45
152	DNA scaffolds support stable and uniform peptide nanopores. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 739-745	8.7	45
151	Functional aqueous droplet networks. <i>Molecular BioSystems</i> , <b>2017</b> , 13, 1658-1691		44
150	Caged cysteine and thiophosphoryl peptides. <i>FEBS Letters</i> , <b>1997</b> , 405, 81-5	3.8	44
149	Single-Molecule Covalent Chemistry in a Protein Nanoreactor. <i>Springer Series in Biophysics</i> , <b>2008</b> , 251-277		44
148	Construction and manipulation of functional three-dimensional droplet networks. <i>ACS Nano</i> , <b>2014</b> , 8, 771-9	16.7	43
147	Role of the amino latch of staphylococcal alpha-hemolysin in pore formation: a co-operative interaction between the N terminus and position 217. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 2195-204	5.4	43
146	Continuous observation of the stochastic motion of an individual small-molecule walker. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 76-83	28.7	42
145	Semisynthetic protein nanoreactor for single-molecule chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 13768-73	11.5	41
144	A new class of hybrid secretion system is employed in <i>Pseudomonas amyloid</i> biogenesis. <i>Nature Communications</i> , <b>2017</b> , 8, 263	17.4	41
143	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> , <b>2013</b> , 110, E4417-26	11.5	41
142	Directional control of a processive molecular hopper. <i>Science</i> , <b>2018</b> , 361, 908-912	33.3	41
141	Single-molecule analysis of chirality in a multicomponent reaction network. <i>Nature Chemistry</i> , <b>2014</b> , 6, 603-7	17.6	40
140	Toxin structure: part of a hole?. <i>Current Biology</i> , <b>1997</b> , 7, R763-7	6.3	40
139	Single-Molecule Determination of the Isomers of d-Glucose and d-Fructose that Bind to Boronic Acids. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 2841-2845	16.4	39
138	Light-patterning of synthetic tissues with single droplet resolution. <i>Scientific Reports</i> , <b>2017</b> , 7, 9315	4.9	38
137	Urea facilitates the translocation of single-stranded DNA and RNA through the alpha-hemolysin nanopore. <i>Biophysical Journal</i> , <b>2010</b> , 98, 1856-63	2.9	38
136	Carriers versus adapters in stochastic sensing. <i>ChemPhysChem</i> , <b>2005</b> , 6, 889-92	3.2	38

135	Tuning the cavity of cyclodextrins: altered sugar adaptors in protein pores. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 1987-2001	16.4	37
134	DNA strands from denatured duplexes are translocated through engineered protein nanopores at alkaline pH. <i>Nano Letters</i> , <b>2009</b> , 9, 3831-6	11.5	37
133	Caged thiophosphotyrosine peptides. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 3049-51	16.4	36
132	Triggers and switches in a self-assembling pore-forming protein. <i>Journal of Cellular Biochemistry</i> , <b>1994</b> , 56, 177-82	4.7	36
131	A droplet microfluidic system for sequential generation of lipid bilayers and transmembrane electrical recordings. <i>Lab on A Chip</i> , <b>2015</b> , 15, 541-8	7.2	35
130	Recognizing a Single Base in an Individual DNA Strand: A Step Toward DNA Sequencing in Nanopores. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 1425-1428	3.6	35
129	Improved protocol for high-throughput cysteine scanning mutagenesis. <i>BioTechniques</i> , <b>1998</b> , 25, 764-6, 768, 770 passim	2.5	35
128	Lipid-coated hydrogel shapes as components of electrical circuits and mechanical devices. <i>Scientific Reports</i> , <b>2012</b> , 2, 848	4.9	34
127	Single-molecule kinetics of two-step divalent cation chelation. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 5085-90	16.4	34
126	Building doors into cells. <i>Scientific American</i> , <b>1997</b> , 277, 62-7	0.5	34
125	Single-molecule interrogation of a bacterial sugar transporter allows the discovery of an extracellular inhibitor. <i>Nature Chemistry</i> , <b>2013</b> , 5, 651-9	17.6	33
124	Interaction of blood coagulation factor Va with phospholipid vesicles examined by using lipophilic photoreagents. <i>Biochemistry</i> , <b>1987</b> , 26, 103-9	3.2	33
123	An engineered dimeric protein pore that spans adjacent lipid bilayers. <i>Nature Communications</i> , <b>2013</b> , 4, 1725	17.4	32
122	Interactions between residues in staphylococcal alpha-hemolysin revealed by reversion mutagenesis. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 23072-6	5.4	32
121	Nucleobase Recognition by Truncated $\alpha$ -Hemolysin Pores. <i>ACS Nano</i> , <b>2015</b> , 9, 7895-903	16.7	31
120	Restoration of pore-forming activity in staphylococcal alpha-hemolysin by targeted covalent modification. <i>Protein Engineering, Design and Selection</i> , <b>1995</b> , 8, 491-5	1.9	31
119	Photoaffinity Labeling and Related Techniques <b>1984</b> , 433-490		31
118	Porphyryns for probing electrical potential across lipid bilayer membranes by second harmonic generation. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 9044-8	16.4	30

117	Stochastic detection of motor protein-RNA complexes by single-channel current recording. <i>ChemPhysChem</i> , <b>2007</b> , 8, 2189-94	3.2	30
116	Detection of 3'Rend RNA uridylation with a protein nanopore. <i>ACS Nano</i> , <b>2014</b> , 8, 1364-74	16.7	29
115	Applications of S-layers. <i>FEMS Microbiology Reviews</i> , <b>1997</b> , 20, 151-75	15.1	29
114	Single-Molecule Protein Phosphorylation and Dephosphorylation by Nanopore Enzymology. <i>ACS Nano</i> , <b>2019</b> , 13, 633-641	16.7	29
113	Photoactivatable drugs. <i>Trends in Pharmacological Sciences</i> , <b>1987</b> , 8, 138-143	13.2	26
112	Designing a hydrophobic barrier within biomimetic nanopores. <i>ACS Nano</i> , <b>2014</b> , 8, 11268-79	16.7	25
111	Probing the orientational distribution of dyes in membranes through multiphoton microscopy. <i>Biophysical Journal</i> , <b>2012</b> , 103, 907-17	2.9	25
110	Formation of a chiral center and pyrimidal inversion at the single-molecule level. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 7412-6	16.4	25
109	Chemical polyglycosylation and nanolitre detection enables single-molecule recapitulation of bacterial sugar export. <i>Nature Chemistry</i> , <b>2016</b> , 8, 461-9	17.6	25
108	Controlled packing and single-droplet resolution of 3D-printed functional synthetic tissues. <i>Nature Communications</i> , <b>2020</b> , 11, 2105	17.4	24
107	Molecular dynamics simulations of DNA within a nanopore: arginine-phosphate tethering and a binding/sliding mechanism for translocation. <i>Biochemistry</i> , <b>2011</b> , 50, 3777-83	3.2	23
106	Nucleobase recognition at alkaline pH and apparent pKa of single DNA bases immobilised within a biological nanopore. <i>Chemical Communications</i> , <b>2012</b> , 48, 1520-2	5.8	22
105	Lipid binding attenuates channel closure of the outer membrane protein OmpF. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 6691-6696	11.5	21
104	Halothane acts on many potassium channels, including a minimal potassium channel. <i>Neuroscience Letters</i> , <b>1993</b> , 161, 81-4	3.3	21
103	Single-Molecule Kinetics of Growth and Degradation of Cell-Penetrating Poly(disulfide)s. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 12444-12447	16.4	20
102	Gel Microrods for 3D Tissue Printing. <i>Advanced Biology</i> , <b>2017</b> , 1, e1700075	3.5	20
101	Pim Kinase Inhibitors Evaluated with a Single-Molecule Engineered Nanopore Sensor. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 8154-9	16.4	20
100	Continuous Stochastic Detection of Amino Acid Enantiomers with a Protein Nanopore. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 9744-9747	3.6	20

99	Orientation of the monomeric porin OmpG in planar lipid bilayers. <i>ChemBioChem</i> , <b>2008</b> , 9, 3029-36	3.8	20
98	Caged peptides and proteins by targeted chemical modification. <i>Methods in Enzymology</i> , <b>1998</b> , 291, 117-35	3.5	20
97	Inactivation of the KcsA potassium channel explored with heterotetramers. <i>Journal of General Physiology</i> , <b>2010</b> , 135, 29-42	3.4	19
96	Inhibitory effects of ketamine and halothane on recombinant potassium channels from mammalian brain. <i>Anesthesiology</i> , <b>1996</b> , 84, 900-9	4.3	19
95	DNA stretching and optimization of nucleobase recognition in enzymatic nanopore sequencing. <i>Nanotechnology</i> , <b>2015</b> , 26, 084002	3.4	18
94	Rates and stoichiometries of metal ion probes of cysteine residues within ion channels. <i>Biophysical Journal</i> , <b>2013</b> , 105, 356-64	2.9	18
93	Fluorinated amphiphiles control the insertion of hemolysin pores into lipid bilayers. <i>Biochemistry</i> , <b>2011</b> , 50, 1599-606	3.2	18
92	Bioorthogonal Cycloadditions with Sub-Millisecond Intermediates. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 1218-1221	16.4	18
91	Permeation of styryl dyes through nanometer-scale pores in membranes. <i>Biochemistry</i> , <b>2011</b> , 50, 7493-502	3.2	17
90	Orientation of the OmpF Porin in Planar Lipid Bilayers. <i>ChemBioChem</i> , <b>2017</b> , 18, 554-562	3.8	16
89	Light-Patterned Current Generation in a Droplet Bilayer Array. <i>Scientific Reports</i> , <b>2017</b> , 7, 46585	4.9	16
88	Lipid-Bilayer-Supported 3D Printing of Human Cerebral Cortex Cells Reveals Developmental Interactions. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002183	24	16
87	Semisynthetic Nanoreactor for Reversible Single-Molecule Covalent Chemistry. <i>ACS Nano</i> , <b>2016</b> , 10, 8843-890	16.9	16
86	The potential and challenges of nanopore sequencing <b>2009</b> , 261-268		16
85	The internal cavity of the staphylococcal alpha-hemolysin pore accommodates approximately 175 exogenous amino acid residues. <i>Biochemistry</i> , <b>2005</b> , 44, 8919-29	3.2	16
84	Kinetics of a Reversible Covalent-Bond-Forming Reaction Observed at the Single-Molecule Level. <i>Angewandte Chemie</i> , <b>2002</b> , 114, 3859-3861	3.6	16
83	Effects of ethanol on calcium channels, potassium channels, and vasopressin release. <i>Annals of the New York Academy of Sciences</i> , <b>1991</b> , 625, 249-63	6.5	16
82	Single-Molecule Observation of the Intermediates in a Catalytic Cycle. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 17538-17546	16.4	16

81	Subunit dimers of alpha-hemolysin expand the engineering toolbox for protein nanopores. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 14324-34	5.4	15
80	Heptameric structures of two alpha-hemolysin mutants imaged with in situ atomic force microscopy. <i>Microscopy Research and Technique</i> , <b>1999</b> , 44, 353-6	2.8	15
79	Controlled deprotection and release of a small molecule from a compartmented synthetic tissue module. <i>Communications Chemistry</i> , <b>2019</b> , 2,	6.3	15
78	Catalytic site-selective substrate processing within a tubular nanoreactor. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 1135-1142	28.7	15
77	Tetrameric assembly of KvLm K <sup>+</sup> channels with defined numbers of voltage sensors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 16917-22	11.5	14
76	Photoregulation of Proteins <b>2005</b> , 253-340		14
75	Stochastic Detection of Monovalent and Bivalent ProteinLigand Interactions. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 860-864	3.6	14
74	Constructing ion channels from water-soluble $\beta$ -helical barrels. <i>Nature Chemistry</i> , <b>2021</b> , 13, 643-650	17.6	14
73	S-nitrosothiol chemistry at the single-molecule level. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 7972-6	16.4	13
72	Multiple Base-Recognition Sites in a Biological Nanopore: Two Heads are Better than One. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 566-569	3.6	13
71	Assembly of the Bi-component leukocidin pore examined by truncation mutagenesis. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 2205-14	5.4	13
70	Single DNA Rotaxanes of a Transmembrane Pore Protein. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 3125-3129	3.6	13
69	Single-Molecule Covalent Chemistry with Spatially Separated Reactants. <i>Angewandte Chemie</i> , <b>2003</b> , 115, 3896-3901	3.6	13
68	Droplet printing reveals the importance of micron-scale structure for bacterial ecology. <i>Nature Communications</i> , <b>2021</b> , 12, 857	17.4	13
67	Direct detection of molecular intermediates from first-passage times. <i>Science Advances</i> , <b>2020</b> , 6, eaaz4644	4.3	12
66	Ion channels get flashy. <i>Nature Chemical Biology</i> , <b>2006</b> , 2, 11-3	11.7	12
65	Kinetics and regulation of two catalytic subunits of cAMP-dependent protein kinase from <i>Aplysia californica</i> . <i>Biochemistry</i> , <b>1991</b> , 30, 10246-55	3.2	12
64	Synthetic tissues. <i>Emerging Topics in Life Sciences</i> , <b>2019</b> , 3, 615-622	3.5	12

63	New technologies for DNA analysis--a review of the READNA Project. <i>New Biotechnology</i> , <b>2016</b> , 33, 311-304	3.4	10
62	Formation of a Chiral Center and Pyrimidal Inversion at the Single-Molecule Level. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 7556-7560	3.6	10
61	Phototoxic liposomes coupled to an antibody that alone cannot modulate its cell-surface antigen kill selected target cells. <i>Cancer Immunology, Immunotherapy</i> , <b>1990</b> , 30, 317-22	7.4	10
60	Bifurcated binding of the OmpF receptor underpins import of the bacteriocin colicin N into. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 9147-9156	5.4	9
59	Single-Molecule Detection of 5-Hydroxymethylcytosine in DNA through Chemical Modification and Nanopore Analysis. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 4446-4451	3.6	9
58	Kinetics of a Three-Step Reaction Observed at the Single-Molecule Level. <i>Angewandte Chemie</i> , <b>2003</b> , 115, 1970-1973	3.6	9
57	Caged Thiophosphotyrosine Peptides. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 3139-3141	3.6	9
56	Alternative splicing of the NMDAR1 subunit affects modulation by calcium. <i>Molecular Brain Research</i> , <b>1996</b> , 39, 99-108		9
55	Directional Porin Binding of Intrinsically Disordered Protein Sequences Promotes Colicin Epitope Display in the Bacterial Periplasm. <i>Biochemistry</i> , <b>2018</b> , 57, 4374-4381	3.2	9
54	Single-molecule DNA sequencing: Getting to the bottom of the well. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 1116-1117	28.7	8
53	Single-Molecule Observation of Intermediates in Bioorthogonal 2-Cyanobenzothiazole Chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 15711-15716	16.4	8
52	Transmembrane protein rotaxanes reveal kinetic traps in the refolding of translocated substrates. <i>Communications Biology</i> , <b>2020</b> , 3, 159	6.7	8
51	Membrane pores: from structure and assembly, to medicine and technology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2017</b> , 372,	5.8	8
50	Wrestling with native chemical ligation. <i>ACS Chemical Biology</i> , <b>2009</b> , 4, 983-5	4.9	8
49	Photogenerated, hydrophobic reagents for intrinsic membrane proteins. <i>Annals of the New York Academy of Sciences</i> , <b>1980</b> , 346, 45-58	6.5	8
48	Bioorthogonal Cycloadditions with Sub-Millisecond Intermediates. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 12323-12335	7	7
47	Are we there yet?: Comment on "Nanopores: A journey towards DNA sequencing" by Meni Wanunu. <i>Physics of Life Reviews</i> , <b>2012</b> , 9, 161-3; discussion 174-6	2.1	7
46	Engineered Nanopores <b>2005</b> , 93-112		7



45	The delivery of phototoxic drugs to selected cells. <i>Annals of the New York Academy of Sciences</i> , <b>1985</b> , 446, 403-14	6.5	7
44	Free-energy landscapes of membrane co-translocational protein unfolding. <i>Communications Biology</i> , <b>2020</b> , 3, 160	6.7	7
43	Photoactivated Hydrophobic Reagents for Integral Membrane Proteins <b>1982</b> , 185-194		7
42	Transmembrane Epitope Delivery by Passive Protein Threading through the Pores of the OmpF Porin Trimer. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 12157-12166	16.4	6
41	Single-Molecule Determination of the Isomers of d-Glucose and d-Fructose that Bind to Boronic Acids. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 2891-2895	3.6	6
40	Ferrying proteins to the other side. <i>Nature Biotechnology</i> , <b>1998</b> , 16, 418-20	44.5	6
39	Self-assembling biomolecular materials in medicine. <i>Journal of Cellular Biochemistry</i> , <b>1994</b> , 56, 168-70	4.7	6
38	Pim Kinase Inhibitors Evaluated with a Single-Molecule Engineered Nanopore Sensor. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 8272-8277	3.6	5
37	Single-Molecule Kinetics of Two-Step Divalent Cation Chelation. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 5211-5216	3.6	5
36	Peptide backbone mutagenesis of putative gating hinges in a potassium ion channel. <i>ChemBioChem</i> , <b>2008</b> , 9, 1725-8	3.8	5
35	High-throughput scanning mutagenesis by recombination polymerase chain reaction. <i>Methods in Molecular Biology</i> , <b>2002</b> , 182, 139-47	1.4	5
34	Genetically Engineered Pores as Metal ION Biosensors. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 330, 217		5
33	Monolayers from Genetically Engineered Protein Pores. <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 218, 69		5
32	Single Molecule RNA Base Identification with a Biological Nanopore. <i>Biophysical Journal</i> , <b>2012</b> , 102, 4292-9	2.9	4
31	Porphyryns for Probing Electrical Potential Across Lipid Bilayer Membranes by Second Harmonic Generation. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 9214-9218	3.6	4
30	Single Protein Pores Containing Molecular Adapters at High Temperatures. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 1519-1523	3.6	4
29	Enzymeless DNA Base Identification by Chemical Stepping in a Nanopore. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 18181-18187	16.4	4
28	3D-printed synthetic tissues. <i>Biochemist</i> , <b>2016</b> , 38, 16-19	0.5	4

27	Redirecting Pore Assembly of Staphylococcal $\beta$ -Hemolysin by Protein Engineering. <i>ACS Central Science</i> , <b>2019</b> , 5, 629-639	16.8	3
26	S-Nitrosothiol Chemistry at the Single-Molecule Level. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 8096-8100	3.6	3
25	Modular Synthetic Tissues from 3D-Printed Building Blocks. <i>Advanced Functional Materials</i> , 2107773	15.6	3
24	Genetically Engineered Protein Pores as Components of Synthetic Microstructures <b>1992</b> , 41-51		3
23	Eukaryotic Signal Transduction Pathways And Man-Made Systems Compared. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 255, 269		2
22	Inhibitors of Photosynthetic Electron Transport. The Properties of Diazidodialkylbenzoquinones. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>1979</b> , 34, 490-492	1.7	2
21	Genetically-Engineered Protease-Activated Triggers in a Pore-Forming Protein. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 330, 209		1
20	Assembly of $\beta$ -Hemolysin: A Proteinaceous Pore with Potential Applications in Materials Synthesis. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 292, 243		1
19	Bioengineered Gastrointestinal Tissues with Fibroblast-Induced Shapes. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2007514	15.6	1
18	Engineered Nanopores <sup>93</sup>		1
17	Reconstruction of the Gram-Negative Bacterial Outer-Membrane Bilayer.. <i>Small</i> , <b>2022</b> , e2200007	11	1
16	Single-Molecule Observation of Intermediates in Bioorthogonal 2-Cyanobenzothiazole Chemistry. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 15841-15846	3.6	0
15	Functional Multivesicular Structures with Controlled Architecture from 3D-Printed Droplet Networks. <i>ChemSystemsChem</i> , e2100036	3.1	0
14	Strategies in the Design and Use of Synthetic "Internal Glycan" Vaccines. <i>Methods in Enzymology</i> , <b>2017</b> , 597, 335-357	1.7	
13	Innentitelbild: Pim Kinase Inhibitors Evaluated with a Single-Molecule Engineered Nanopore Sensor (Angew. Chem. 28/2015). <i>Angewandte Chemie</i> , <b>2015</b> , 127, 8114-8114	3.6	
12	????????????????DNA???????. <i>Nature Digest</i> , <b>2010</b> , 7, 32-34	0	
11	Cover Picture: Single DNA Rotaxanes of a Transmembrane Pore Protein (Angew. Chem. Int. Ed. 23/2004). <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 2977-2977	16.4	
10	Titelbild: Single DNA Rotaxanes of a Transmembrane Pore Protein (Angew. Chem. 23/2004). <i>Angewandte Chemie</i> , <b>2004</b> , 116, 3037-3037	3.6	

- 9 Channels With Single Transmembrane Segments. *Physiology*, **1994**, 9, 45-46 9.8
- 8 Hemolysin: A Self-Assembling Protein Pore With Potential Applications In The Synthesis of New Materials. *Materials Research Society Symposia Proceedings*, **1991**, 255, 201
- 7 Determining the Orientation of Porins in Planar Lipid Bilayers. *Methods in Molecular Biology*, **2021**, 2186, 51-62 1.4
- 6 Nanopore Enzymology to Study Protein Kinases and Their Inhibition by Small Molecules. *Methods in Molecular Biology*, **2021**, 2186, 95-114 1.4
- 5 Light-activated Proteins 253
- 4 3D Bioprinting: Lipid-Bilayer-Supported 3D Printing of Human Cerebral Cortex Cells Reveals Developmental Interactions (Adv. Mater. 31/2020). *Advanced Materials*, **2020**, 32, 2070235 2.4
- 3 Titelbild: Single-Molecule Observation of Intermediates in Bioorthogonal 2-Cyanobenzothiazole Chemistry (Angew. Chem. 36/2020). *Angewandte Chemie*, **2020**, 132, 15381-15381 3.6
- 2 Bioengineered Gastrointestinal Tissue: Bioengineered Gastrointestinal Tissues with Fibroblast-Induced Shapes (Adv. Funct. Mater. 6/2021). *Advanced Functional Materials*, **2021**, 31, 2170036<sup>15.6</sup>
- 1 Believe the Hype: Nanopore Proteomics Is Moving Forward **2022**, 1, 28-29