

# Andrew D Ellington

## List of Publications by Year in descending order

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303  
papers

32,666  
citations

6613

79  
h-index

4432

172  
g-index

326  
all docs

326  
docs citations

326  
times ranked

23238  
citing authors

#	ARTICLE	IF	CITATIONS
1	In vitro selection of RNA molecules that bind specific ligands. <i>Nature</i> , 1990, 346, 818-822.	27.8	8,658
2	Aptamers as therapeutics. <i>Nature Reviews Drug Discovery</i> , 2010, 9, 537-550.	46.4	1,780
3	Selection in vitro of single-stranded DNA molecules that fold into specific ligand-binding structures. <i>Nature</i> , 1992, 355, 850-852.	27.8	763
4	Applications of Aptamers as Sensors. <i>Annual Review of Analytical Chemistry</i> , 2009, 2, 241-264.	5.4	714
5	Aptamer Beacons for the Direct Detection of Proteins. <i>Analytical Biochemistry</i> , 2001, 294, 126-131.	2.4	569
6	Engineering Escherichia coli to see light. <i>Nature</i> , 2005, 438, 441-442.	27.8	565
7	Nucleic Acid Selection and the Challenge of Combinatorial Chemistry. <i>Chemical Reviews</i> , 1997, 97, 349-370.	47.7	503
8	A Synthetic Genetic Edge Detection Program. <i>Cell</i> , 2009, 137, 1272-1281.	28.9	442
9	Rational, modular adaptation of enzyme-free DNA circuits to multiple detection methods. <i>Nucleic Acids Research</i> , 2011, 39, e110-e110.	14.5	438
10	Machine learning-aided engineering of hydrolases for PET depolymerization. <i>Nature</i> , 2022, 604, 662-667.	27.8	396
11	Automated selection of anti-Protein aptamers. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 2525-2531.	3.0	358
12	Aptamer therapeutics advance. <i>Current Opinion in Chemical Biology</i> , 2006, 10, 282-289.	6.1	358
13	Adapting Selected Nucleic Acid Ligands (Aptamers) to Biosensors. <i>Analytical Chemistry</i> , 1998, 70, 3419-3425.	6.5	349
14	In-depth determination and analysis of the human paired heavy- and light-chain antibody repertoire. <i>Nature Medicine</i> , 2015, 21, 86-91.	30.7	345
15	Hachimoji DNA and RNA: A genetic system with eight building blocks. <i>Science</i> , 2019, 363, 884-887.	12.6	337
16	Micromechanical Detection of Proteins Using Aptamer-Based Receptor Molecules. <i>Analytical Chemistry</i> , 2004, 76, 3194-3198.	6.5	326
17	Aptamer-Based Sensor Arrays for the Detection and Quantitation of Proteins. <i>Analytical Chemistry</i> , 2004, 76, 4066-4075.	6.5	302
18	Designed Signaling Aptamers that Transduce Molecular Recognition to Changes in Fluorescence Intensity. <i>Journal of the American Chemical Society</i> , 2000, 122, 2469-2473.	13.7	272

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19	Molecular-level analysis of the serum antibody repertoire in young adults before and after seasonal influenza vaccination. <i>Nature Medicine</i> , 2016, 22, 1456-1464.	30.7	271
20	Synthetic DNA Synthesis and Assembly: Putting the Synthetic in Synthetic Biology. <i>Cold Spring Harbor Perspectives in Biology</i> , 2017, 9, a023812.	5.5	271
21	Aptamer:Toxin Conjugates that Specifically Target Prostate Tumor Cells. <i>Cancer Research</i> , 2006, 66, 5989-5992.	0.9	269
22	Diagnostic Applications of Nucleic Acid Circuits. <i>Accounts of Chemical Research</i> , 2014, 47, 1825-1835.	15.6	269
23	Quantum-Dot Aptamer Beacons for the Detection of Proteins. <i>ChemBioChem</i> , 2005, 6, 2163-2166.	2.6	258
24	In vitro selection of signaling aptamers. <i>Nature Biotechnology</i> , 2000, 18, 1293-1297.	17.5	257
25	Real-Time Detection of Isothermal Amplification Reactions with Thermostable Catalytic Hairpin Assembly. <i>Journal of the American Chemical Society</i> , 2013, 135, 7430-7433.	13.7	243
26	In vitro selection of an allosteric ribozyme that transduces analytes to amplicons. <i>Nature Biotechnology</i> , 1999, 17, 62-66.	17.5	242
27	Disulfide-Intact and -Reduced Lysozyme in the Gas Phase: $\alpha$ Conformations and Pathways of Folding and Unfolding. <i>Journal of Physical Chemistry B</i> , 1997, 101, 3891-3900.	2.6	224
28	Stacking nonenzymatic circuits for high signal gain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5386-5391.	7.1	223
29	Probing Spatial Organization of DNA Strands Using Enzyme-Free Hairpin Assembly Circuits. <i>Journal of the American Chemical Society</i> , 2012, 134, 13918-13921.	13.7	217
30	Using a Deoxyribozyme Ligase and Rolling Circle Amplification To Detect a Non-nucleic Acid Analyte, ATP. <i>Journal of the American Chemical Society</i> , 2005, 127, 2022-2023.	13.7	187
31	Large-scale sequence and structural comparisons of human naive and antigen-experienced antibody repertoires. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2636-45.	7.1	179
32	Real-Time Rolling Circle Amplification for Protein Detection. <i>Analytical Chemistry</i> , 2007, 79, 3320-3329.	6.5	176
33	In vitro Evolution of Beta-glucuronidase into a Beta-galactosidase Proceeds Through Non-specific Intermediates. <i>Journal of Molecular Biology</i> , 2001, 305, 331-339.	4.2	171
34	Deep penetration of an $\alpha$ -helix into a widened RNA major groove in the HIV-1 rev peptide-RNA aptamer complex. <i>Nature Structural Biology</i> , 1996, 3, 1026-1033.	9.7	170
35	Optimization of aptamer microarray technology for multiple protein targets. <i>Analytica Chimica Acta</i> , 2006, 564, 82-90.	5.4	167
36	Aptamer-Targeted Gold Nanoparticles As Molecular-Specific Contrast Agents for Reflectance Imaging. <i>Bioconjugate Chemistry</i> , 2008, 19, 1309-1312.	3.6	166

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37	Ribozyme Catalysis of Metabolism in the RNA World. <i>Chemistry and Biodiversity</i> , 2007, 4, 633-655.	2.1	165
38	Mismatches Improve the Performance of Strand-Displacement Nucleic Acid Circuits. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1845-1848.	13.8	164
39	Evolution of a T7 RNA polymerase variant that transcribes 2'-O-methyl RNA. <i>Nature Biotechnology</i> , 2004, 22, 1155-1160.	17.5	161
40	Engineered symbionts activate honey bee immunity and limit pathogens. <i>Science</i> , 2020, 367, 573-576.	12.6	161
41	Monitoring the Growth of a Bacteria Culture by MALDI-MS of Whole Cells. <i>Analytical Chemistry</i> , 1999, 71, 1990-1996.	6.5	159
42	Automated selection of aptamers against protein targets translated in vitro: from gene to aptamer. <i>Nucleic Acids Research</i> , 2002, 30, 108e-108.	14.5	155
43	Protein-dependent ribozymes report molecular interactions in real time. <i>Nature Biotechnology</i> , 2002, 20, 717-722.	17.5	154
44	Inhibition of Cell Proliferation by an Anti-EGFR Aptamer. <i>PLoS ONE</i> , 2011, 6, e20299.	2.5	149
45	Labeling tumor cells with fluorescent nanocrystal-aptamer bioconjugates. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1859-1866.	10.1	146
46	Phylogenetic and genetic evidence for base-triples in the catalytic domain of group I introns. <i>Nature</i> , 1990, 347, 578-580.	27.8	143
47	Ultra-high-throughput sequencing of the immune receptor repertoire from millions of lymphocytes. <i>Nature Protocols</i> , 2016, 11, 429-442.	12.0	140
48	Selective optimization of the Rev-binding element of HIV-1. <i>Nucleic Acids Research</i> , 1993, 21, 5509-5516.	14.5	139
49	Selection of fluorescent aptamer beacons that light up in the presence of zinc. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 1067-1075.	3.7	139
50	Automated RNA Selection. <i>Biotechnology Progress</i> , 1998, 14, 845-850.	2.6	138
51	In vitro genetic analysis of the Tetrahymena self-splicing intron. <i>Nature</i> , 1990, 347, 406-408.	27.8	136
52	Production and processing of aptamer microarrays. <i>Methods</i> , 2005, 37, 4-15.	3.8	135
53	Coupling Sensitive Nucleic Acid Amplification with Commercial Pregnancy Test Strips. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 992-996.	13.8	135
54	Crystal structure of an RNA aptamer-protein complex at 2.8 Å resolution. <i>Nature Structural Biology</i> , 1998, 5, 133-139.	9.7	134

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55	Directed evolution of genetic parts and circuits by compartmentalized partnered replication. <i>Nature Biotechnology</i> , 2014, 32, 97-101.	17.5	133
56	Robust Strand Exchange Reactions for the Sequence-Specific, Real-Time Detection of Nucleic Acid Amplicons. <i>Analytical Chemistry</i> , 2015, 87, 3314-3320.	6.5	128
57	Structure-Based Design of Supercharged, Highly Thermoresistant Antibodies. <i>Chemistry and Biology</i> , 2012, 19, 449-455.	6.0	127
58	Pattern transformation with DNA circuits. <i>Nature Chemistry</i> , 2013, 5, 1000-1005.	13.6	122
59	Real-Time Sequence-Validated Loop-Mediated Isothermal Amplification Assays for Detection of Middle East Respiratory Syndrome Coronavirus (MERS-CoV). <i>PLoS ONE</i> , 2015, 10, e0123126.	2.5	122
60	AANT: the Amino Acid-Nucleotide Interaction Database. <i>Nucleic Acids Research</i> , 2004, 32, 174D-181.	14.5	120
61	Synthetic evolutionary origin of a proofreading reverse transcriptase. <i>Science</i> , 2016, 352, 1590-1593.	12.6	119
62	Design and optimization of effector-activated ribozyme ligases. <i>Nucleic Acids Research</i> , 2000, 28, 1751-1759.	14.5	109
63	DNA Detection Using Origami Paper Analytical Devices. <i>Analytical Chemistry</i> , 2013, 85, 9713-9720.	6.5	109
64	Functional interrogation and mining of natively paired human VH:VL antibody repertoires. <i>Nature Biotechnology</i> , 2018, 36, 152-155.	17.5	109
65	In vitro selection of RNA lectins: using combinatorial chemistry to interpret ribozyme evolution. <i>Chemistry and Biology</i> , 1995, 2, 291-303.	6.0	108
66	A Simple, Cleated DNA Walker That Hangs on to Surfaces. <i>ACS Nano</i> , 2017, 11, 8047-8054.	14.6	107
67	Arginine-rich motifs present multiple interfaces for specific binding by RNA. <i>Rna</i> , 2005, 11, 1848-1857.	3.5	104
68	RNA Selection: Aptamers achieve the desired recognition. <i>Current Biology</i> , 1994, 4, 427-429.	3.9	99
69	Massively Parallel Biophysical Analysis of CRISPR-Cas Complexes on Next Generation Sequencing Chips. <i>Cell</i> , 2017, 170, 35-47.e13.	28.9	96
70	Effective design principles for leakless strand displacement systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E12182-E12191.	7.1	94
71	In vitro selection of molecular beacons. <i>Nucleic Acids Research</i> , 2003, 31, 5700-5713.	14.5	92
72	In vitro selection of nucleic acids for diagnostic applications. <i>Reviews in Molecular Biotechnology</i> , 2000, 74, 15-25.	2.8	90

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73	Technical and Biological Issues Relevant to Cell Typing with Aptamers. <i>Journal of Proteome Research</i> , 2009, 8, 2438-2448.	3.7	90
74	Adapting Enzyme-Free DNA Circuits to the Detection of Loop-Mediated Isothermal Amplification Reactions. <i>Analytical Chemistry</i> , 2012, 84, 8371-8377.	6.5	90
75	Functional RNA microarrays for high-throughput screening of antiprotein aptamers. <i>Analytical Biochemistry</i> , 2005, 338, 113-123.	2.4	88
76	In vitro selection of nucleoprotein enzymes. <i>Nature Biotechnology</i> , 2001, 19, 650-655.	17.5	87
77	Genetic Engineering of Bee Gut Microbiome Bacteria with a Toolkit for Modular Assembly of Broad-Host-Range Plasmids. <i>ACS Synthetic Biology</i> , 2018, 7, 1279-1290.	3.8	87
78	Gas-Phase DNA: Oligothymidine Ion Conformers. <i>Journal of the American Chemical Society</i> , 1997, 119, 9051-9052.	13.7	86
79	Strand Displacement Probes Combined with Isothermal Nucleic Acid Amplification for Instrument-Free Detection from Complex Samples. <i>Analytical Chemistry</i> , 2018, 90, 6580-6586.	6.5	86
80	Bioinformatic Analysis of the Contribution of Primer Sequences to Aptamer Structures. <i>Journal of Molecular Evolution</i> , 2008, 67, 95-102.	1.8	85
81	Expanding the limits of the second genetic code with ribozymes. <i>Nature Communications</i> , 2019, 10, 5097.	12.8	83
82	Group I aptazymes as genetic regulatory switches. <i>BMC Biotechnology</i> , 2002, 2, 21.	3.3	82
83	DNA circuits as amplifiers for the detection of nucleic acids on a paperfluidic platform. <i>Lab on A Chip</i> , 2012, 12, 2951.	6.0	80
84	Discovery of Novel Gain-of-Function Mutations Guided by Structure-Based Deep Learning. <i>ACS Synthetic Biology</i> , 2020, 9, 2927-2935.	3.8	80
85	Fine-tuning citrate synthase flux potentiates and refines metabolic innovation in the Lenski evolution experiment. <i>ELife</i> , 2015, 4, .	6.0	79
86	Dynamic Programming of a DNA Walker Controlled by Protons. <i>ACS Nano</i> , 2020, 14, 4007-4013.	14.6	78
87	Directed evolution of the surface chemistry of the reporter enzyme $\beta$ -glucuronidase. <i>Nature Biotechnology</i> , 1999, 17, 696-701.	17.5	76
88	Selection and Characterization of <i>Escherichia coli</i> Variants Capable of Growth on an Otherwise Toxic Tryptophan Analogue. <i>Journal of Bacteriology</i> , 2001, 183, 5414-5425.	2.2	75
89	Recursive genomewide recombination and sequencing reveals a key refinement step in the evolution of a metabolic innovation in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2217-2222.	7.1	75
90	Exponential growth by cross-catalytic cleavage of deoxyribozymogens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 6416-6421.	7.1	74

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91	Simultaneous detection of diverse analytes with an aptazyme ligase array. <i>Analytical Biochemistry</i> , 2003, 312, 106-112.	2.4	73
92	Phosphorothioated Primers Lead to Loop-Mediated Isothermal Amplification at Low Temperatures. <i>Analytical Chemistry</i> , 2018, 90, 8290-8294.	6.5	73
93	Alternative Computational Protocols for Supercharging Protein Surfaces for Reversible Unfolding and Retention of Stability. <i>PLoS ONE</i> , 2013, 8, e64363.	2.5	73
94	Design and application of cotranscriptional non-enzymatic RNA circuits and signal transducers. <i>Nucleic Acids Research</i> , 2014, 42, e58-e58.	14.5	71
95	Generalized bacterial genome editing using mobile group II introns and Cre-lox. <i>Molecular Systems Biology</i> , 2013, 9, 685.	7.2	70
96	Supercharging enables organized assembly of synthetic biomolecules. <i>Nature Chemistry</i> , 2019, 11, 204-212.	13.6	70
97	Structural Characterization of Dihydrofolate Reductase Complexes by Top-Down Ultraviolet Photodissociation Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2015, 137, 9128-9135.	13.7	69
98	A Sweet Spot for Molecular Diagnostics: Coupling Isothermal Amplification and Strand Exchange Circuits to Glucometers. <i>Scientific Reports</i> , 2015, 5, 11039.	3.3	66
99	NMR Mapping of the Recombinant Mouse Major Urinary Protein I Binding Site Occupied by the Pheromone 2-sec-Butyl-4,5-dihydrothiazole. <i>Biochemistry</i> , 1999, 38, 9850-9861.	2.5	65
100	Evolutionary origins and directed evolution of RNA. <i>International Journal of Biochemistry and Cell Biology</i> , 2009, 41, 254-265.	2.8	65
101	Selection and design of high-affinity rna ligands for hiv-1 rev. <i>Gene</i> , 1993, 137, 19-24.	2.2	63
102	Synthetic evolution. <i>Nature Biotechnology</i> , 2019, 37, 730-743.	17.5	63
103	Increasing the thermal stability of an oligomeric protein, beta-glucuronidase. <i>Journal of Molecular Biology</i> , 2002, 315, 325-337.	4.2	62
104	Effect of Complementary Nucleobase Interactions on the Copolymer Composition of RAFT Copolymerizations. <i>ACS Macro Letters</i> , 2013, 2, 581-586.	4.8	62
105	Automated Acquisition of Aptamer Sequences. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2002, 5, 289-299.	1.1	61
106	Retrons and their applications in genome engineering. <i>Nucleic Acids Research</i> , 2019, 47, 11007-11019.	14.5	60
107	Transcription yield of fully 2'-modified RNA can be increased by the addition of thermostabilizing mutations to T7 RNA polymerase mutants. <i>Nucleic Acids Research</i> , 2015, 43, 7480-7488.	14.5	57
108	A three-dimensional model of the Rev-binding element of HIV-1 derived from analyses of aptamers. <i>Nature Structural and Molecular Biology</i> , 1994, 1, 293-300.	8.2	56

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109	The limits of specificity: an experimental analysis with RNA aptamers to MS2 coat protein variants. <i>Molecular Diversity</i> , 1998, 4, 75-89.	3.9	56
110	Direct selection of trans-acting ligase ribozymes by in vitro compartmentalization. <i>Rna</i> , 2005, 11, 1555-1562.	3.5	56
111	Selecting Nucleic Acids for Biosensor Applications. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2002, 5, 263-270.	1.1	55
112	Addicting diverse bacteria to a noncanonical amino acid. <i>Nature Chemical Biology</i> , 2016, 12, 138-140.	8.0	55
113	Shaping up nucleic acid computation. <i>Current Opinion in Biotechnology</i> , 2010, 21, 392-400.	6.6	54
114	A Spinach molecular beacon triggered by strand displacement. <i>Rna</i> , 2014, 20, 1183-1194.	3.5	54
115	A proteomic survey of widespread protein aggregation in yeast. <i>Molecular BioSystems</i> , 2014, 10, 851.	2.9	53
116	Directed evolution of a synthetic phylogeny of programmable Trp repressors. <i>Nature Chemical Biology</i> , 2018, 14, 361-367.	8.0	53
117	Re-creating the RNA world. <i>Current Biology</i> , 1995, 5, 1017-1022.	3.9	52
118	RNA Molecules That Bind to and Inhibit the Active Site of a Tyrosine Phosphatase. <i>Journal of Biological Chemistry</i> , 1998, 273, 14309-14314.	3.4	52
119	High-Surety Isothermal Amplification and Detection of SARS-CoV-2. <i>MSphere</i> , 2021, 6, .	2.9	52
120	Directed Evolution of a Panel of Orthogonal T7 RNA Polymerase Variants for <i>in Vivo</i> or <i>in Vitro</i> Synthetic Circuitry. <i>ACS Synthetic Biology</i> , 2015, 4, 1070-1076.	3.8	51
121	Cofactor-Assisted Self-Cleavage in DNA Libraries with a 5'-Phosphoramidate Bond. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 1321-1324.	4.4	50
122	In vitro selection of ribozymes dependent on peptides for activity. <i>Rna</i> , 2004, 10, 114-127.	3.5	47
123	Synthetic RNA circuits. <i>Nature Chemical Biology</i> , 2007, 3, 23-28.	8.0	47
124	Recombineering and MAGE. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	47
125	Anchoring an extended HTLV-1 Rex peptide within an RNA major groove containing junctional base triples. <i>Structure</i> , 1999, 7, 1461-S12.	3.3	45
126	Bacteriophages use an expanded genetic code on evolutionary paths to higher fitness. <i>Nature Chemical Biology</i> , 2014, 10, 178-180.	8.0	44



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127	Retroelement-Based Genome Editing and Evolution. <i>ACS Synthetic Biology</i> , 2018, 7, 2600-2611.	3.8	44
128	High resolution matrix-assisted laser desorption/ionization time-of-flight analysis of single-stranded DNA of 27 to 68 nucleotides in length. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 1061-1066.	1.5	43
129	Design Principles for Ligand-Sensing, Conformation-Switching Ribozymes. <i>PLoS Computational Biology</i> , 2009, 5, e1000620.	3.2	43
130	Surprising fidelity of template-directed chemical ligation of oligonucleotides. <i>Chemistry and Biology</i> , 1997, 4, 595-605.	6.0	42
131	The scene of a frozen accident. <i>Rna</i> , 2000, 6, 485-498.	3.5	42
132	Real-time PCR detection of protein analytes with conformation-switching aptamers. <i>Analytical Biochemistry</i> , 2008, 380, 164-173.	2.4	42
133	The fidelity of template-directed oligonucleotide ligation and the inevitability of polymerase function. , 1999, 29, 375-390.		41
134	Evolving new genetic codes. <i>Trends in Ecology and Evolution</i> , 2004, 19, 69-75.	8.7	41
135	Ribozyme-Mediated Signal Augmentation on a Mass-Sensitive Biosensor. <i>Journal of the American Chemical Society</i> , 2006, 128, 15936-15937.	13.7	41
136	The search for missing links between self-replicating nucleic ACIDs and the RNA world. <i>Origins of Life and Evolution of Biospheres</i> , 1995, 25, 515-530.	1.9	40
137	Computational selection of nucleic acid biosensors via a slip structure model. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1939-1947.	10.1	40
138	High-affinity RNA Aptamers Against the HIV-1 Protease Inhibit Both In Vitro Protease Activity and Late Events of Viral Replication. <i>Molecular Therapy - Nucleic Acids</i> , 2015, 4, e228.	5.1	40
139	Fingerprinting Non-Terran Biosignatures. <i>Astrobiology</i> , 2018, 18, 915-922.	3.0	40
140	Pattern Generation with Nucleic Acid Chemical Reaction Networks. <i>Chemical Reviews</i> , 2019, 119, 6370-6383.	47.7	40
141	Custom selenoprotein production enabled by laboratory evolution of recoded bacterial strains. <i>Nature Biotechnology</i> , 2018, 36, 624-631.	17.5	39
142	Artificial evolution and natural ribozymes. <i>FASEB Journal</i> , 1995, 9, 1183-1195.	0.5	38
143	Portable platform for rapid in-field identification of human fecal pollution in water. <i>Water Research</i> , 2018, 131, 186-195.	11.3	37
144	Evolution of phage with chemically ambiguous proteomes. <i>BMC Evolutionary Biology</i> , 2003, 3, 24.	3.2	36

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145	A General RNA Motif for Cellular Transfection. <i>Molecular Therapy</i> , 2012, 20, 616-624.	8.2	36
146	Continuous directed evolution for strain and protein engineering. <i>Current Opinion in Biotechnology</i> , 2018, 53, 158-163.	6.6	36
147	Optimization and optimality of a short ribozyme ligase that joins non-Watson-Crick base pairings. <i>Rna</i> , 2001, 7, 513-523.	3.5	35
148	Using fungible biosensors to evolve improved alkaloid biosyntheses. <i>Nature Chemical Biology</i> , 2022, 18, 981-989.	8.0	35
149	Beyond allostery: Catalytic regulation of a deoxyribozyme through an entropy-driven DNA amplifier. <i>Journal of Systems Chemistry</i> , 2010, 1, .	1.7	34
150	Characterization of trimethoprim resistant <i>E. coli</i> dihydrofolate reductase mutants by mass spectrometry and inhibition by propargyl-linked antifolates. <i>Chemical Science</i> , 2017, 8, 4062-4072.	7.4	34
151	An amino acid depleted cell-free protein synthesis system for the incorporation of non-canonical amino acid analogs into proteins. <i>Journal of Biotechnology</i> , 2014, 178, 12-22.	3.8	33
152	Evolving Orthogonal Suppressor tRNAs To Incorporate Modified Amino Acids. <i>ACS Synthetic Biology</i> , 2017, 6, 108-119.	3.8	33
153	Photoactivated DNA cleavage via charge transfer promoted N <sub>2</sub> release from tris[3-hydroxy-1,2,3-benzotriazine-4(3H)-one]iron(III). <i>Chemical Communications</i> , 2000, , 69-70.	4.1	32
154	Proliferation and migration of tumor cells in tapered channels. <i>Biomedical Microdevices</i> , 2013, 15, 635-643.	2.8	32
155	Evolution of a Thermophilic Strand-Displacing Polymerase Using High-Temperature Isothermal Compartmentalized Self-Replication. <i>Biochemistry</i> , 2018, 57, 4607-4619.	2.5	32
156	Evolving a Generalist Biosensor for Bicyclic Monoterpenes. <i>ACS Synthetic Biology</i> , 2022, 11, 265-272.	3.8	31
157	In Vitro Selection Using Modified or Unnatural Nucleotides. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2014, 56, 9.6.1-33.	0.5	30
158	Peptide-Templated Nucleic Acid Ligation. <i>Journal of Molecular Evolution</i> , 2003, 56, 607-615.	1.8	29
159	Binding of herpes simplex virus-1 US11 to specific RNA sequences. <i>Nucleic Acids Research</i> , 2005, 33, 6090-6100.	14.5	28
160	Exploration of plasticizer and plastic explosive detection and differentiation with serum albumin cross-reactive arrays. <i>Chemical Science</i> , 2012, 3, 1773.	7.4	28
161	Ribosomal incorporation of cyclic $\beta$ -amino acids into peptides using <i>in vitro</i> translation. <i>Chemical Communications</i> , 2020, 56, 5597-5600.	4.1	28
162	Anti-Rex Aptamers as Mimics of the Rex-Binding Element. <i>Journal of Virology</i> , 1999, 73, 4962-4971.	3.4	28

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163	A modified consensus approach to mutagenesis inverts the cofactor specificity of <i>Bacillus stearothermophilus</i> lactate dehydrogenase. <i>Protein Engineering, Design and Selection</i> , 2005, 18, 369-377.	2.1	27
164	In vitro evolution of thermostable p53 variants. <i>Protein Science</i> , 1999, 8, 731-740.	7.6	27
165	Charge Shielding Prevents Aggregation of Supercharged GFP Variants at High Protein Concentration. <i>Molecular Pharmaceutics</i> , 2017, 14, 3269-3280.	4.6	27
166	Directed Evolution of Streptavidin Variants Using In Vitro Compartmentalization. <i>Chemistry and Biology</i> , 2008, 15, 979-989.	6.0	26
167	A biopolymer by any other name would bind as well: a comparison of the ligand-binding pockets of nucleic acids and proteins. <i>Structure</i> , 1997, 5, 729-734.	3.3	25
168	The descent of polymerization. , 2001, 8, 580-582.		25
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