

Andrew D Ellington

List of Publications by Year in descending order

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Version: 2024-02-01

303
papers

32,666
citations

7672

79
h-index

5102

172
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326
all docs

326
docs citations

326
times ranked

26084
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved Bst DNA Polymerase Variants Derived <i>in vitro</i> via a Machine Learning Approach. <i>Biochemistry</i> , 2023, 62, 410-418.	1.2	20
2	Biocompatible Materials Enabled by Biobased Production of Pyomelanin Isoforms Using an Engineered <i>Yarrowia lipolytica</i> . <i>Advanced Functional Materials</i> , 2022, 32, 2109366.	7.8	5
3	Evolving a Generalist Biosensor for Bicyclic Monoterpenes. <i>ACS Synthetic Biology</i> , 2022, 11, 265-272.	1.9	31
4	Recovery of Information Stored in Modified DNA with an Evolved Polymerase. <i>ACS Synthetic Biology</i> , 2022, 11, 554-561.	1.9	3
5	Making Security Viral: Shifting Engineering Biology Culture and Publishing. <i>ACS Synthetic Biology</i> , 2022, 11, 522-527.	1.9	6
6	Preparation and Use of Cellular Reagents: A Low-resource Molecular Biology Reagent Platform. <i>Current Protocols</i> , 2022, 2, e387.	1.3	4
7	Charge Engineering Improves the Performance of Bst DNA Polymerase Fusions. <i>ACS Synthetic Biology</i> , 2022, 11, 1488-1496.	1.9	14
8	Chemical insights into flexizyme-mediated tRNA acylation. <i>Cell Chemical Biology</i> , 2022, 29, 1071-1112.	2.5	7
9	Systematic Review of Aptamer Sequence Reporting in the Literature Reveals Widespread Unexplained Sequence Alterations. <i>Analytical Chemistry</i> , 2022, 94, 7731-7737.	3.2	11
10	Machine learning-aided engineering of hydrolases for PET depolymerization. <i>Nature</i> , 2022, 604, 662-667.	13.7	396
11	Developing predictive hybridization models for phosphorothioate oligonucleotides using high-resolution melting. <i>PLoS ONE</i> , 2022, 17, e0268575.	1.1	1
12	Functional expression of opioid receptors and other human GPCRs in yeast engineered to produce human sterols. <i>Nature Communications</i> , 2022, 13, .	5.8	13
13	Using fungible biosensors to evolve improved alkaloid biosyntheses. <i>Nature Chemical Biology</i> , 2022, 18, 981-989.	3.9	35
14	Hurdling and Hurling Toward New Genetic Codes. <i>ACS Central Science</i> , 2021, 7, 7-10.	5.3	1
15	Ribosome-mediated incorporation of fluorescent amino acids into peptides <i>in vitro</i> . <i>Chemical Communications</i> , 2021, 57, 2661-2664.	2.2	12
16	High-Surety Isothermal Amplification and Detection of SARS-CoV-2. <i>MSphere</i> , 2021, 6, .	1.3	52
17	Guiding Ethical Principles in Engineering Biology Research. <i>ACS Synthetic Biology</i> , 2021, 10, 907-910.	1.9	10
18	Directed Evolution of an Improved Aminoacyl-tRNA Synthetase for Incorporation of L-tyrosine (L-Tyr) into Polypeptides. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14811-14816.	7.2	14

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19	Directed Evolution of an Improved Aminoacyl-tRNA Synthetase for Incorporation of L-tryptophan (L-Trp). <i>Angewandte Chemie</i> , 2021, 133, 14937-14942.	1.6	6
20	Minimizing Leakage in Stacked Strand Exchange Amplification Circuits. <i>ACS Synthetic Biology</i> , 2021, 10, 1277-1283.	1.9	3
21	Producing molecular biology reagents without purification. <i>PLoS ONE</i> , 2021, 16, e0252507.	1.1	9
22	Recombineering and MAGE. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	47
23	Learning the local landscape of protein structures with convolutional neural networks. <i>Journal of Biological Physics</i> , 2021, 47, 435-454.	0.7	13
24	Heat Adaptation of Phage T7 Under an Extended Genetic Code. <i>Virus Evolution</i> , 2021, 7, veab100.	2.2	4
25	Delineation of the Ancestral Tus-Dependent Replication Fork Trap. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13533.	1.8	4
26	Bringing Microscopy-By-Sequencing into View. <i>Trends in Biotechnology</i> , 2020, 38, 154-162.	4.9	10
27	Oligonucleotide-functionalized hydrogels for sustained release of small molecule (aptamer) therapeutics. <i>Acta Biomaterialia</i> , 2020, 102, 315-325.	4.1	16
28	Discovery of Novel Gain-of-Function Mutations Guided by Structure-Based Deep Learning. <i>ACS Synthetic Biology</i> , 2020, 9, 2927-2935.	1.9	80
29	One-Enzyme Reverse Transcription qPCR Using Taq DNA Polymerase. <i>Biochemistry</i> , 2020, 59, 4638-4645.	1.2	20
30	How a B family DNA polymerase has been evolved to copy RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21274-21280.	3.3	10
31	Dynamic Programming of a DNA Walker Controlled by Protons. <i>ACS Nano</i> , 2020, 14, 4007-4013.	7.3	78
32	Site-specific 5-hydroxytryptophan incorporation into apolipoprotein A-I impairs cholesterol efflux activity and high-density lipoprotein biogenesis. <i>Journal of Biological Chemistry</i> , 2020, 295, 4836-4848.	1.6	13
33	Engineered symbionts activate honey bee immunity and limit pathogens. <i>Science</i> , 2020, 367, 573-576.	6.0	161
34	A facile technology for the high-throughput sequencing of the paired VH:VL and TCR β :TCR α repertoires. <i>Science Advances</i> , 2020, 6, eaay9093.	4.7	18
35	Ribosomal incorporation of cyclic β -amino acids into peptides using <i>in vitro</i> translation. <i>Chemical Communications</i> , 2020, 56, 5597-5600.	2.2	28
36	Emulsion-based directed evolution of enzymes and proteins in yeast. <i>Methods in Enzymology</i> , 2020, 643, 87-110.	0.4	1

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37	Aptamers in Education: Undergraduates Make Aptamers and Acquire 21st Century Skills Along the Way. <i>Sensors</i> , 2019, 19, 3270.	2.1	3
38	Selection of self-priming molecular replicators. <i>Nucleic Acids Research</i> , 2019, 47, 2169-2176.	6.5	7
39	Expanding the limits of the second genetic code with ribozymes. <i>Nature Communications</i> , 2019, 10, 5097.	5.8	83
40	Retrons and their applications in genome engineering. <i>Nucleic Acids Research</i> , 2019, 47, 11007-11019.	6.5	60
41	Employing 25-Residue Docking Motifs from Modular Polyketide Synthases as Orthogonal Protein Connectors. <i>ACS Synthetic Biology</i> , 2019, 8, 2017-2024.	1.9	5
42	Single-Molecule Mechanistic Study of Enzyme Hysteresis. <i>ACS Central Science</i> , 2019, 5, 1691-1698.	5.3	23
43	Synthetic evolution. <i>Nature Biotechnology</i> , 2019, 37, 730-743.	9.4	63
44	Pattern Generation with Nucleic Acid Chemical Reaction Networks. <i>Chemical Reviews</i> , 2019, 119, 6370-6383.	23.0	40
45	Hachimoji DNA and RNA: A genetic system with eight building blocks. <i>Science</i> , 2019, 363, 884-887.	6.0	337
46	Reprogramming the brain with synthetic neurobiology. <i>Current Opinion in Biotechnology</i> , 2019, 58, 37-44.	3.3	2
47	Supercharging enables organized assembly of synthetic biomolecules. <i>Nature Chemistry</i> , 2019, 11, 204-212.	6.6	70
48	Synthesis of Ferrocene Derivatives Allowing Linear Free Energy Studies of Redox Potentials. <i>Helvetica Chimica Acta</i> , 2019, 102, e1800186.	1.0	2
49	Synthetic GPCRs and signal transduction cascades. <i>Emerging Topics in Life Sciences</i> , 2019, 3, 609-614.	1.1	1
50	Evolving Bacterial Fitness with an Expanded Genetic Code. <i>Scientific Reports</i> , 2018, 8, 3288.	1.6	8
51	Directed evolution of a synthetic phylogeny of programmable Trp repressors. <i>Nature Chemical Biology</i> , 2018, 14, 361-367.	3.9	53
52	Construction of synthetic T7 RNA polymerase expression systems. <i>Methods</i> , 2018, 143, 110-120.	1.9	18
53	Strand Displacement Probes Combined with Isothermal Nucleic Acid Amplification for Instrument-Free Detection from Complex Samples. <i>Analytical Chemistry</i> , 2018, 90, 6580-6586.	3.2	86
54	Evolution of a Thermophilic Strand-Displacing Polymerase Using High-Temperature Isothermal Compartmentalized Self-Replication. <i>Biochemistry</i> , 2018, 57, 4607-4619.	1.2	32

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55	Continuous directed evolution for strain and protein engineering. <i>Current Opinion in Biotechnology</i> , 2018, 53, 158-163.	3.3	36
56	Portable platform for rapid in-field identification of human fecal pollution in water. <i>Water Research</i> , 2018, 131, 186-195.	5.3	37
57	Functional interrogation and mining of natively paired human VH:VL antibody repertoires. <i>Nature Biotechnology</i> , 2018, 36, 152-155.	9.4	109
58	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.	1.9	87
59	Fingerprinting Non-Terran Biosignatures. <i>Astrobiology</i> , 2018, 18, 915-922.	1.5	40
60	A highly parallel strategy for storage of digital information in living cells. <i>BMC Biotechnology</i> , 2018, 18, 64.	1.7	10
61	Simultaneous Detection of Different Zika Virus Lineages via Molecular Computation in a Point-of-Care Assay. <i>Viruses</i> , 2018, 10, 714.	1.5	13
62	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.	3.3	94
63	Viral attenuation by engineered protein fragmentation. <i>Virus Evolution</i> , 2018, 4, vey017.	2.2	2
64	Retroelement-Based Genome Editing and Evolution. <i>ACS Synthetic Biology</i> , 2018, 7, 2600-2611.	1.9	44
65	Predicting Evolution of the Transcription Regulatory Network in a Bacteriophage. <i>Genome Biology and Evolution</i> , 2018, 10, 2614-2628.	1.1	1
66	Direct nucleic acid analysis of mosquitoes for high fidelity species identification and detection of Wolbachia using a cellphone. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006671.	1.3	24
67	Phosphorothioated Primers Lead to Loop-Mediated Isothermal Amplification at Low Temperatures. <i>Analytical Chemistry</i> , 2018, 90, 8290-8294.	3.2	73
68	<i>In Vitro</i> Transcription Networks Based on Hairpin Promoter Switches. <i>ACS Synthetic Biology</i> , 2018, 7, 1937-1945.	1.9	13
69	Cellular reagents for diagnostics and synthetic biology. <i>PLoS ONE</i> , 2018, 13, e0201681.	1.1	17
70	Custom selenoprotein production enabled by laboratory evolution of recoded bacterial strains. <i>Nature Biotechnology</i> , 2018, 36, 624-631.	9.4	39
71	Compartmentalized Self-Replication for Evolution of a DNA Polymerase. <i>Current Protocols in Chemical Biology</i> , 2018, 10, 1-17.	1.7	6
72	How to Balance the Many Roles of tRNAs During the Creation of New Genetic Codes. <i>FASEB Journal</i> , 2018, 32, 105.2.	0.2	0

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73	Amplicon Competition Enables End-Point Quantitation of Nucleic Acids Following Isothermal Amplification. <i>ChemBioChem</i> , 2017, 18, 1692-1695.	1.3	16
74	Characterization of trimethoprim resistant E. coli dihydrofolate reductase mutants by mass spectrometry and inhibition by propargyl-linked antifolates. <i>Chemical Science</i> , 2017, 8, 4062-4072.	3.7	34
75	Synthetic DNA Synthesis and Assembly: Putting the Synthetic in Synthetic Biology. <i>Cold Spring Harbor Perspectives in Biology</i> , 2017, 9, a023812.	2.3	271
76	Coupling Sensitive Nucleic Acid Amplification with Commercial Pregnancy Test Strips. <i>Angewandte Chemie</i> , 2017, 129, 1012-1016.	1.6	21
77	Coupling Sensitive Nucleic Acid Amplification with Commercial Pregnancy Test Strips. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 992-996.	7.2	135
78	Genetic alphabet expansion transcription generating functional RNA molecules containing a five-letter alphabet including modified unnatural and natural base nucleotides by thermostable T7 RNA polymerase variants. <i>Chemical Communications</i> , 2017, 53, 12309-12312.	2.2	21
79	The Design Space of Strand Displacement Cascades with Toehold-Size Clamps. <i>Lecture Notes in Computer Science</i> , 2017, , 64-81.	1.0	8
80	Charge Shielding Prevents Aggregation of Supercharged GFP Variants at High Protein Concentration. <i>Molecular Pharmaceutics</i> , 2017, 14, 3269-3280.	2.3	27
81	A Simple, Cleated DNA Walker That Hangs on to Surfaces. <i>ACS Nano</i> , 2017, 11, 8047-8054.	7.3	107
82	Compartmentalized partnered replication for the directed evolution of genetic parts and circuits. <i>Nature Protocols</i> , 2017, 12, 2493-2512.	5.5	19
83	Differential array sensing for cancer cell classification and novelty detection. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 9866-9874.	1.5	19
84	Massively Parallel Biophysical Analysis of CRISPR-Cas Complexes on Next Generation Sequencing Chips. <i>Cell</i> , 2017, 170, 35-47.e13.	13.5	96
85	Evolving Orthogonal Suppressor tRNAs To Incorporate Modified Amino Acids. <i>ACS Synthetic Biology</i> , 2017, 6, 108-119.	1.9	33
86	Purification of single-stranded DNA by co-polymerization with acrylamide and electrophoresis. <i>BioTechniques</i> , 2017, 62, 275-282.	0.8	20
87	Recent advances in synthetic biosafety. <i>F1000Research</i> , 2016, 5, 2118.	0.8	17
88	Strand-Exchange Nucleic Acid Circuitry with Enhanced Thermo- and Structure- Buffering Abilities Turns Gene Diagnostics Ultra-Reliable and Environmental Compatible. <i>Scientific Reports</i> , 2016, 6, 36605.	1.6	16
89	A primerless molecular diagnostic: phosphorothioated-terminal hairpin formation and self-priming extension (PS-THSP). <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 8583-8591.	1.9	20
90	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.	3.3	179

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91	Expanded Genetic Codes Create New Mutational Routes to Rifampicin Resistance in <i>Escherichia coli</i> . <i>Molecular Biology and Evolution</i> , 2016, 33, 2054-2063.	3.5	14
92	Synthesis of alanyl nucleobase amino acids and their incorporation into proteins. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 4177-4187.	1.4	11
93	Design and engineering of a transmissible antiviral defense. <i>Journal of Biological Engineering</i> , 2016, 10, 12.	2.0	0
94	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.	15.2	271
95	Synthesis and structural analyses of phenylethynyl-substituted tris(2-pyridylmethyl)amines and their copper(ii) complexes. <i>Dalton Transactions</i> , 2016, 45, 10585-10598.	1.6	3
96	Synthetic evolutionary origin of a proofreading reverse transcriptase. <i>Science</i> , 2016, 352, 1590-1593.	6.0	119
97	Engineering Signaling Aptamers That Rely on Kinetic Rather Than Equilibrium Competition. <i>Analytical Chemistry</i> , 2016, 88, 2250-2257.	3.2	16
98	Addicting diverse bacteria to a noncanonical amino acid. <i>Nature Chemical Biology</i> , 2016, 12, 138-140.	3.9	55
99	Ultra-high-throughput sequencing of the immune receptor repertoire from millions of lymphocytes. <i>Nature Protocols</i> , 2016, 11, 429-442.	5.5	140
100	An in vitro selection for small molecule induced switching RNA molecules. <i>Methods</i> , 2016, 106, 51-57.	1.9	9
101	Virus wars: using one virus to block the spread of another. <i>PeerJ</i> , 2016, 4, e2166.	0.9	5
102	Next-Generation Sequencing as Input for Chemometrics in Differential Sensing Routines. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6339-6342.	7.2	5
103	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.	1.1	122
104	One-step tumor detection from dynamic morphology tracking on aptamer-grafted surfaces. <i>Technology</i> , 2015, 03, 194-200.	1.4	8
105	Industrialization of Biology. <i>ACS Synthetic Biology</i> , 2015, 4, 1053-1055.	1.9	14
106	Landscape-Based Biology. <i>Journal of Molecular Evolution</i> , 2015, 81, 144-145.	0.8	2
107	Chemical Tools To Decipher Regulation of Phosphatases by Proline Isomerization on Eukaryotic RNA Polymerase II. <i>ACS Chemical Biology</i> , 2015, 10, 2405-2414.	1.6	22
108	3D Printing with Nucleic Acid Adhesives. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 19-26.	2.6	23

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109	Controlled Assembly of Artificial Protein-Protein Complexes via DNA Duplex Formation. <i>Bioconjugate Chemistry</i> , 2015, 26, 427-434.	1.8	2
110	Design, Synthesis, and Application of Spinach Molecular Beacons Triggered by Strand Displacement. <i>Methods in Enzymology</i> , 2015, 550, 215-249.	0.4	8
111	Six pack and stack. <i>Nature Chemistry</i> , 2015, 7, 617-619.	6.6	2
112	A Sweet Spot for Molecular Diagnostics: Coupling Isothermal Amplification and Strand Exchange Circuits to Glucometers. <i>Scientific Reports</i> , 2015, 5, 11039.	1.6	66
113	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.	6.6	69
114	Robust Strand Exchange Reactions for the Sequence-Specific, Real-Time Detection of Nucleic Acid Amplicons. <i>Analytical Chemistry</i> , 2015, 87, 3314-3320.	3.2	128
115	A microbial model of economic trading and comparative advantage. <i>Journal of Theoretical Biology</i> , 2015, 364, 326-343.	0.8	14
116	<i>In Vitro</i> Selection for Small-Molecule-Triggered Strand Displacement and Riboswitch Activity. <i>ACS Synthetic Biology</i> , 2015, 4, 1144-1150.	1.9	23
117	High-affinity RNA Aptamers Against the HIV-1 Protease Inhibit Both <i>In Vitro</i> Protease Activity and Late Events of Viral Replication. <i>Molecular Therapy - Nucleic Acids</i> , 2015, 4, e228.	2.3	40
118	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.	6.5	57
119	RNA as a conception. <i>Rna</i> , 2015, 21, 608-608.	1.6	0
120	In-depth determination and analysis of the human paired heavy- and light-chain antibody repertoire. <i>Nature Medicine</i> , 2015, 21, 86-91.	15.2	345
121	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.	1.9	51
122	Fine-tuning citrate synthase flux potentiates and refines metabolic innovation in the Lenski evolution experiment. <i>ELife</i> , 2015, 4, .	2.8	79
123	Alternative ELISA Using a RNA Aptamer against Calf Intestinal Alkaline Phosphatase. <i>FASEB Journal</i> , 2015, 29, 562.6.	0.2	0
124	Mismatches Improve the Performance of Strand Displacement Nucleic Acid Circuits. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1845-1848.	7.2	164
125	Design and application of cotranscriptional non-enzymatic RNA circuits and signal transducers. <i>Nucleic Acids Research</i> , 2014, 42, e58-e58.	6.5	71
126	Exquisite allele discrimination by toehold hairpin primers. <i>Nucleic Acids Research</i> , 2014, 42, e120-e120.	6.5	8

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127	Diagnostic Applications of Nucleic Acid Circuits. <i>Accounts of Chemical Research</i> , 2014, 47, 1825-1835.	7.6	269
128	Structure-based non-canonical amino acid design to covalently crosslink an antibody-antigen complex. <i>Journal of Structural Biology</i> , 2014, 185, 215-222.	1.3	20
129	Directed evolution of genetic parts and circuits by compartmentalized partnered replication. <i>Nature Biotechnology</i> , 2014, 32, 97-101.	9.4	133
130	Bacteriophages use an expanded genetic code on evolutionary paths to higher fitness. <i>Nature Chemical Biology</i> , 2014, 10, 178-180.	3.9	44
131	A proteomic survey of widespread protein aggregation in yeast. <i>Molecular BioSystems</i> , 2014, 10, 851.	2.9	53
132	A Spinach molecular beacon triggered by strand displacement. <i>Rna</i> , 2014, 20, 1183-1194.	1.6	54
133	Progress Report on the Generation of Polyfunctional Microscale Particles for Programmed Self-Assembly. <i>Chemistry of Materials</i> , 2014, 26, 1457-1462.	3.2	4
134	Directed evolution of the substrate specificity of biotin ligase. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1071-1081.	1.7	18
135	Modeling scalable pattern generation in DNA reaction networks. <i>Natural Computing</i> , 2014, 13, 583-595.	1.8	4
136	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
137	Design and Selection of a Synthetic Operon. <i>ACS Synthetic Biology</i> , 2014, 3, 410-415.	1.9	2
138	Library Generation by Gene Shuffling. <i>Current Protocols in Molecular Biology</i> , 2014, 105, Unit 15.12..	2.9	16
139	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.	3.3	75
140	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.	1.9	33
141	Analyzing machupo virus-receptor binding by molecular dynamics simulations. <i>PeerJ</i> , 2014, 2, e266.	0.9	9
142	Proliferation and migration of tumor cells in tapered channels. <i>Biomedical Microdevices</i> , 2013, 15, 635-643.	1.4	32
143	Generalized bacterial genome editing using mobile group II introns and Cre-lox. <i>Molecular Systems Biology</i> , 2013, 9, 685.	3.2	70
144	Pattern transformation with DNA circuits. <i>Nature Chemistry</i> , 2013, 5, 1000-1005.	6.6	122

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145	In vitro selection of proteins via emulsion compartments. <i>Methods</i> , 2013, 60, 75-80.	1.9	24
146	Real-Time Detection of Isothermal Amplification Reactions with Thermostable Catalytic Hairpin Assembly. <i>Journal of the American Chemical Society</i> , 2013, 135, 7430-7433.	6.6	243
147	Effect of Complementary Nucleobase Interactions on the Copolymer Composition of RAFT Copolymerizations. <i>ACS Macro Letters</i> , 2013, 2, 581-586.	2.3	62
148	DNA Detection Using Origami Paper Analytical Devices. <i>Analytical Chemistry</i> , 2013, 85, 9713-9720.	3.2	109
149	Continuous <i>In Vitro</i> evolution of a ribozyme ligase: A model experiment for the evolution of a biomolecule. <i>Biochemistry and Molecular Biology Education</i> , 2013, 41, 433-442.	0.5	0
150	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.	3.3	223
151	Alternative Computational Protocols for Supercharging Protein Surfaces for Reversible Unfolding and Retention of Stability. <i>PLoS ONE</i> , 2013, 8, e64363.	1.1	73
152	A General RNA Motif for Cellular Transfection. <i>Molecular Therapy</i> , 2012, 20, 616-624.	3.7	36
153	An <i>in vitro</i> Autogene. <i>ACS Synthetic Biology</i> , 2012, 1, 190-196.	1.9	16
154	Probing Spatial Organization of DNA Strands Using Enzyme-Free Hairpin Assembly Circuits. <i>Journal of the American Chemical Society</i> , 2012, 134, 13918-13921.	6.6	217
155	Origins for Everyone. <i>Evolution: Education and Outreach</i> , 2012, 5, 361-366.	0.3	7
156	Exploration of plasticizer and plastic explosive detection and differentiation with serum albumin cross-reactive arrays. <i>Chemical Science</i> , 2012, 3, 1773.	3.7	28
157	Adapting Enzyme-Free DNA Circuits to the Detection of Loop-Mediated Isothermal Amplification Reactions. <i>Analytical Chemistry</i> , 2012, 84, 8371-8377.	3.2	90
158	Spatial Control of DNA Reaction Networks by DNA Sequence. <i>Molecules</i> , 2012, 17, 13390-13402.	1.7	15
159	DNA circuits as amplifiers for the detection of nucleic acids on a paperfluidic platform. <i>Lab on A Chip</i> , 2012, 12, 2951.	3.1	80
160	A fully-electronic charge-based DNA sequencing CMOS biochip. , 2012, , .		16
161	Structure-Based Design of Supercharged, Highly Thermoresistant Antibodies. <i>Chemistry and Biology</i> , 2012, 19, 449-455.	6.2	127
162	Ribozymes as Molecular Biology Reagents. , 2012, , 293-312.		0

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163	Rational, modular adaptation of enzyme-free DNA circuits to multiple detection methods. <i>Nucleic Acids Research</i> , 2011, 39, e110-e110.	6.5	438
164	Inhibition of Cell Proliferation by an Anti-EGFR Aptamer. <i>PLoS ONE</i> , 2011, 6, e20299.	1.1	149
165	Identifying Protein Variants with Cross-reactive Aptamer Arrays. <i>ChemBioChem</i> , 2011, 12, 2021-2024.	1.3	16
166	Shaping up nucleic acid computation. <i>Current Opinion in Biotechnology</i> , 2010, 21, 392-400.	3.3	54
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