

# Pamela A Silver

## List of Publications by Year in descending order

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173  
papers

23,296  
citations

5574

82  
h-index

8396

147  
g-index

227  
all docs

227  
docs citations

227  
times ranked

26824  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-wide analysis of estrogen receptor binding sites. <i>Nature Genetics</i> , 2006, 38, 1289-1297.	21.4	1,227
2	Chromosome-Wide Mapping of Estrogen Receptor Binding Reveals Long-Range Regulation Requiring the Forkhead Protein FoxA1. <i>Cell</i> , 2005, 122, 33-43.	28.9	1,208
3	Water splittingâ€“biosynthetic system with CO <sub>2</sub> reduction efficiencies exceeding photosynthesis. <i>Science</i> , 2016, 352, 1210-1213.	12.6	760
4	Toehold Switches: De-Novo-Designed Regulators of Gene Expression. <i>Cell</i> , 2014, 159, 925-939.	28.9	646
5	How proteins enter the nucleus. <i>Cell</i> , 1991, 64, 489-497.	28.9	599
6	Organization of Intracellular Reactions with Rationally Designed RNA Assemblies. <i>Science</i> , 2011, 333, 470-474.	12.6	574
7	Genome-Wide Localization of the Nuclear Transport Machinery Couples Transcriptional Status and Nuclear Organization. <i>Cell</i> , 2004, 117, 427-439.	28.9	528
8	Engineering cyanobacteria to generate high-value products. <i>Trends in Biotechnology</i> , 2011, 29, 95-103.	9.3	443
9	State of the Arg. <i>Cell</i> , 2001, 106, 5-8.	28.9	414
10	Nuclear transport and cancer: from mechanism to intervention. <i>Nature Reviews Cancer</i> , 2004, 4, 106-117.	28.4	414
11	Elimination of Replication Block Protein Fob1 Extends the Life Span of Yeast Mother Cells. <i>Molecular Cell</i> , 1999, 3, 447-455.	9.7	380
12	Efficient solar-to-fuels production from a hybrid microbialâ€“water-splitting catalyst system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2337-2342.	7.1	366
13	Natural strategies for the spatial optimization of metabolism in synthetic biology. <i>Nature Chemical Biology</i> , 2012, 8, 527-535.	8.0	349
14	A chemical genetic screen identifies inhibitors of regulated nuclear export of a Forkhead transcription factor in PTEN-deficient tumor cells. <i>Cancer Cell</i> , 2003, 4, 463-476.	16.8	329
15	HITS-CLIP and Integrative Modeling Define the Rbfox Splicing-Regulatory Network Linked to Brain Development and Autism. <i>Cell Reports</i> , 2014, 6, 1139-1152.	6.4	326
16	Functional Specificity among Ribosomal Proteins Regulates Gene Expression. <i>Cell</i> , 2007, 131, 557-571.	28.9	323
17	Complex cellular logic computation using ribocomputing devices. <i>Nature</i> , 2017, 548, 117-121.	27.8	321
18	Dynamic Modulation of the Gut Microbiota and Metabolome by Bacteriophages in a Mouse Model. <i>Cell Host and Microbe</i> , 2019, 25, 803-814.e5.	11.0	317

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19	Programmable bacteria detect and record an environmental signal in the mammalian gut. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4838-4843.	7.1	306
20	Emergent cooperation in microbial metabolism. Molecular Systems Biology, 2010, 6, 407.	7.2	301
21	Rerouting Carbon Flux To Enhance Photosynthetic Productivity. Applied and Environmental Microbiology, 2012, 78, 2660-2668.	3.1	298
22	Spatially Ordered Dynamics of the Bacterial Carbon Fixation Machinery. Science, 2010, 327, 1258-1261.	12.6	289
23	Engineered bacteria can function in the mammalian gut long-term as live diagnostics of inflammation. Nature Biotechnology, 2017, 35, 653-658.	17.5	283
24	An Alternative Splicing Network Links Cell-Cycle Control to Apoptosis. Cell, 2010, 142, 625-636.	28.9	273
25	Engineering bacteria for diagnostic and therapeutic applications. Nature Reviews Microbiology, 2018, 16, 214-225.	28.6	267
26	Mutants Affecting the Structure of the Cortical Endoplasmic Reticulum in Saccharomyces cerevisiae. Journal of Cell Biology, 2000, 150, 461-474.	5.2	263
27	Designing biological compartmentalization. Trends in Cell Biology, 2012, 22, 662-670.	7.9	257
28	Identification of an Evolutionarily Conserved Domain in Human Lens Epithelium-derived Growth Factor/Transcriptional Co-activator p75 (LEDGF/p75) That Binds HIV-1 Integrase. Journal of Biological Chemistry, 2004, 279, 48883-48892.	3.4	248
29	Synthetic biology in mammalian cells: next generation research tools and therapeutics. Nature Reviews Molecular Cell Biology, 2014, 15, 95-107.	37.0	246
30	Modularity of a carbon-fixing protein organelle. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 478-483.	7.1	231
31	Better together: engineering and application of microbial symbioses. Current Opinion in Biotechnology, 2015, 36, 40-49.	6.6	226
32	Engineering Cyanobacteria To Synthesize and Export Hydrophilic Products. Applied and Environmental Microbiology, 2010, 76, 3462-3466.	3.1	222
33	Integrating Biological Redesign: Where Synthetic Biology Came From and Where It Needs to Go. Cell, 2014, 157, 151-161.	28.9	211
34	Rational design of memory in eukaryotic cells. Genes and Development, 2007, 21, 2271-2276.	5.9	208
35	Genetically Encoded Short Peptide Tags for Orthogonal Protein Labeling by Sfp and AcpS Phosphopantetheinyl Transferases. ACS Chemical Biology, 2007, 2, 337-346.	3.4	207
36	A GTPase Controlling Nuclear Trafficking: Running the Right Way or Walking RANdomly?. Cell, 1996, 87, 1-4.	28.9	202

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37	The Genome Project-Write. Science, 2016, 353, 126-127.	12.6	194
38	Messenger RNAs are recruited for nuclear export during transcription. Genes and Development, 2001, 15, 1771-1782.	5.9	193
39	Use of time-lapse microscopy to visualize rapid movement of the replication origin region of the chromosome during the cell cycle in <i>Bacillus subtilis</i> . Molecular Microbiology, 1998, 28, 883-892.	2.5	189
40	Genome-wide analysis of RNA-protein interactions illustrates specificity of the mRNA export machinery. Nature Genetics, 2003, 33, 155-161.	21.4	187
41	Coupling and coordination in gene expression processes: a systems biology view. Nature Reviews Genetics, 2008, 9, 38-48.	16.3	184
42	Learning a Prior on Regulatory Potential from eQTL Data. PLoS Genetics, 2009, 5, e1000358.	3.5	177
43	CARM1 Regulates Estrogen-Stimulated Breast Cancer Growth through Up-regulation of <i>E2F1</i> . Cancer Research, 2008, 68, 301-306.	0.9	176
44	Developmentally induced changes in transcriptional program alter spatial organization across chromosomes. Genes and Development, 2005, 19, 1188-1198.	5.9	171
45	Tailored fatty acid synthesis via dynamic control of fatty acid elongation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11290-11295.	7.1	171
46	Ambient nitrogen reduction cycle using a hybrid inorganic-biological system. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6450-6455.	7.1	167
47	Global histone acetylation induces functional genomic reorganization at mammalian nuclear pore complexes. Genes and Development, 2008, 22, 627-639.	5.9	165
48	Pre-mRNA processing factors are required for nuclear export. Rna, 2000, 6, 1737-1749.	3.5	161
49	Dynamics in the mixed microbial concourse. Genes and Development, 2010, 24, 2603-2614.	5.9	159
50	Bipartite Signals Mediate Subcellular Targeting of Tail-anchored Membrane Proteins in <i>Saccharomyces cerevisiae</i> . Journal of Biological Chemistry, 2003, 278, 8219-8223.	3.4	156
51	Identification and Characterization of Two Putative Human Arginine Methyltransferases (HRMT1L1 and Tj ETQq1 1,0,784314 rgBT /Ove	2.9	155
52	A subset of membrane-associated proteins is ubiquitinated in response to mutations in the endoplasmic reticulum degradation machinery. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12735-12740.	7.1	151
53	PRMT3 is a ribosomal protein methyltransferase that affects the cellular levels of ribosomal subunits. EMBO Journal, 2004, 23, 2641-2650.	7.8	148
54	<i>In vivo</i> co-localization of enzymes on RNA scaffolds increases metabolic production in a geometrically dependent manner. Nucleic Acids Research, 2014, 42, 9493-9503.	14.5	143

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55	A systems view of mRNP biology. <i>Genes and Development</i> , 2004, 18, 2845-2860.	5.9	137
56	Engineering synthetic TAL effectors with orthogonal target sites. <i>Nucleic Acids Research</i> , 2012, 40, 7584-7595.	14.5	137
57	Tools for the Microbiome: Nano and Beyond. <i>ACS Nano</i> , 2016, 10, 6-37.	14.6	137
58	Slk19p Is a Centromere Protein That Functions to Stabilize Mitotic Spindles. <i>Journal of Cell Biology</i> , 1999, 146, 415-425.	5.2	136
59	Mapping Interactions between Nuclear Transport Factors in Living Cells Reveals Pathways through the Nuclear Pore Complex. <i>Molecular Cell</i> , 2000, 5, 133-140.	9.7	135
60	The Genome-Wide Localization of Rsc9, a Component of the RSC Chromatin-Remodeling Complex, Changes in Response to Stress. <i>Molecular Cell</i> , 2002, 9, 563-573.	9.7	135
61	In or out? Regulating nuclear transport. <i>Current Opinion in Cell Biology</i> , 1999, 11, 241-247.	5.4	131
62	Improving carbon fixation pathways. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 337-344.	6.1	129
63	Widespread distribution of encapsulin nanocompartments reveals functional diversity. <i>Nature Microbiology</i> , 2017, 2, 17029.	13.3	129
64	Designing biological systems. <i>Genes and Development</i> , 2007, 21, 242-254.	5.9	128
65	Unified nomenclature for subunits of the <i>Saccharomyces cerevisiae</i> proteasome regulatory particle. <i>Trends in Biochemical Sciences</i> , 1998, 23, 244-245.	7.5	127
66	Protein and RNA Export from the Nucleus. <i>Developmental Cell</i> , 2002, 2, 261-272.	7.0	127
67	Interactions between a Nuclear Transporter and a Subset of Nuclear Pore Complex Proteins Depend on Ran GTPase. <i>Molecular and Cellular Biology</i> , 1999, 19, 1547-1557.	2.3	124
68	Arginine methyltransferase affects interactions and recruitment of mRNA processing and export factors. <i>Genes and Development</i> , 2004, 18, 2024-2035.	5.9	119
69	Rewiring hydrogenase-dependent redox circuits in cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3941-3946.	7.1	119
70	Parts plus pipes: Synthetic biology approaches to metabolic engineering. <i>Metabolic Engineering</i> , 2012, 14, 223-232.	7.0	119
71	Class II Integrase Mutants with Changes in Putative Nuclear Localization Signals Are Primarily Blocked at a Postnuclear Entry Step of Human Immunodeficiency Virus Type 1 Replication. <i>Journal of Virology</i> , 2004, 78, 12735-12746.	3.4	115
72	The Bacterial Carbon-Fixing Organelle Is Formed by Shell Envelopment of Preassembled Cargo. <i>PLoS ONE</i> , 2013, 8, e76127.	2.5	114

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73	The structure and oligomerization of the yeast arginine methyltransferase, Hmt1. <i>Nature Structural Biology</i> , 2000, 7, 1165-1171.	9.7	112
74	The Yeast Dynactin Complex Is Involved in Partitioning the Mitotic Spindle between Mother and Daughter Cells during Anaphase B. <i>Molecular Biology of the Cell</i> , 1998, 9, 1741-1756.	2.1	109
75	Cse1p Is Required for Export of Srp1p/Importin- $\beta$ from the Nucleus in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 1998, 273, 35142-35146.	3.4	108
76	Insulation of a synthetic hydrogen metabolism circuit in bacteria. <i>Journal of Biological Engineering</i> , 2010, 4, 3.	4.7	108
77	Rational Design of Evolutionarily Stable Microbial Kill Switches. <i>Molecular Cell</i> , 2017, 68, 686-697.e3.	9.7	108
78	Prokaryotic nanocompartments form synthetic organelles in a eukaryote. <i>Nature Communications</i> , 2018, 9, 1311.	12.8	107
79	A tunable zinc finger-based framework for Boolean logic computation in mammalian cells. <i>Nucleic Acids Research</i> , 2012, 40, 5180-5187.	14.5	105
80	A Catalytic Nanoreactor Based on in Vivo Encapsulation of Multiple Enzymes in an Engineered Protein Nanocompartment. <i>ChemBioChem</i> , 2016, 17, 1931-1935.	2.6	102
81	Synthetic photosynthetic consortia define interactions leading to robustness and photoproduction. <i>Journal of Biological Engineering</i> , 2017, 11, 4.	4.7	97
82	Genetic tool development in marine protists: emerging model organisms for experimental cell biology. <i>Nature Methods</i> , 2020, 17, 481-494.	19.0	97
83	Large protein organelles form a new iron sequestration system with high storage capacity. <i>ELife</i> , 2019, 8, .	6.0	92
84	Defossilizing Fuel: How Synthetic Biology Can Transform Biofuel Production. <i>ACS Chemical Biology</i> , 2008, 3, 13-16.	3.4	91
85	De novo-designed translation-repressing riboregulators for multi-input cellular logic. <i>Nature Chemical Biology</i> , 2019, 15, 1173-1182.	8.0	90
86	Arginine methylation and binding of Hrp1p to the efficiency element for mRNA 3'-end formation. <i>Rna</i> , 1999, 5, 272-280.	3.5	75
87	Expression of the sub-pathways of the <i>Chloroflexus aurantiacus</i> 3-hydroxypropionate carbon fixation bicycle in <i>E. coli</i> : Toward horizontal transfer of autotrophic growth. <i>Metabolic Engineering</i> , 2013, 16, 130-139.	7.0	73
88	Rapid construction of insulated genetic circuits via synthetic sequence-guided isothermal assembly. <i>Nucleic Acids Research</i> , 2014, 42, 681-689.	14.5	72
89	Global analysis of mRNA splicing. <i>Rna</i> , 2008, 14, 197-203.	3.5	69
90	Synthetic memory circuits for tracking human cell fate. <i>Genes and Development</i> , 2012, 26, 1486-1497.	5.9	66

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91	Converting a Natural Protein Compartment into a Nanofactory for the Size-Constrained Synthesis of Antimicrobial Silver Nanoparticles. <i>ACS Synthetic Biology</i> , 2016, 5, 1497-1504.	3.8	65
92	Unique nucleotide sequenceâ€“guided assembly of repetitive DNA parts for synthetic biology applications. <i>Nature Protocols</i> , 2014, 9, 2075-2089.	12.0	64
93	Creating Single-Copy Genetic Circuits. <i>Molecular Cell</i> , 2016, 63, 329-336.	9.7	62
94	Valorization of CO <sub>2</sub> through lithoautotrophic production of sustainable chemicals in <i>Cupriavidus necator</i> . <i>Metabolic Engineering</i> , 2020, 62, 207-220.	7.0	60
95	Two- and three-input TALE-based AND logic computation in embryonic stem cells. <i>Nucleic Acids Research</i> , 2013, 41, 9967-9975.	14.5	59
96	Towards a Synthetic Chloroplast. <i>PLoS ONE</i> , 2011, 6, e18877.	2.5	59
97	Encapsulation as a Strategy for the Design of Biological Compartmentalization. <i>Journal of Molecular Biology</i> , 2016, 428, 916-927.	4.2	58
98	In situ reprogramming of gut bacteria by oral delivery. <i>Nature Communications</i> , 2020, 11, 5030.	12.8	58
99	Designing and using RNA scaffolds to assemble proteins in vivo. <i>Nature Protocols</i> , 2012, 7, 1797-1807.	12.0	57
100	Spatial and Temporal Organization of Chromosome Duplication and Segregation in the Cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>PLoS ONE</i> , 2012, 7, e47837.	2.5	57
101	Synthetic biology: exploring and exploiting genetic modularity through the design of novel biological networks. <i>Molecular BioSystems</i> , 2009, 5, 704.	2.9	55
102	Large-scale recoding of a bacterial genome by iterative recombineering of synthetic DNA. <i>Nucleic Acids Research</i> , 2017, 45, 6971-6980.	14.5	54
103	Bacterial variability in the mammalian gut captured by a single-cell synthetic oscillator. <i>Nature Communications</i> , 2019, 10, 4665.	12.8	54
104	The case for biotech on Mars. <i>Nature Biotechnology</i> , 2020, 38, 401-407.	17.5	53
105	A distributed cell division counter reveals growth dynamics in the gut microbiota. <i>Nature Communications</i> , 2015, 6, 10039.	12.8	50
106	Theranostic cells: emerging clinical applications of synthetic biology. <i>Nature Reviews Genetics</i> , 2021, 22, 730-746.	16.3	49
107	Induction of Biogenic Magnetization and Redox Control by a Component of the Target of Rapamycin Complex 1 Signaling Pathway. <i>PLoS Biology</i> , 2012, 10, e1001269.	5.6	48
108	Building Spatial Synthetic Biology with Compartments, Scaffolds, and Communities. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016, 8, a024018.	5.5	46

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109	Engineering carbon fixation with artificial protein organelles. <i>Current Opinion in Biotechnology</i> , 2017, 46, 42-50.	6.6	45
110	Harnessing nature's toolbox: regulatory elements for synthetic biology. <i>Journal of the Royal Society Interface</i> , 2009, 6, S535-46.	3.4	42
111	Synthetic Lipid-Containing Scaffolds Enhance Production by Colocalizing Enzymes. <i>ACS Synthetic Biology</i> , 2016, 5, 1396-1403.	3.8	39
112	Engineered Interspecies Amino Acid Cross-Feeding Increases Population Evenness in a Synthetic Bacterial Consortium. <i>MSystems</i> , 2019, 4, .	3.8	39
113	Eukaryotic systems broaden the scope of synthetic biology. <i>Journal of Cell Biology</i> , 2009, 187, 589-596.	5.2	38
114	Biological-inorganic hybrid systems as a generalized platform for chemical production. <i>Current Opinion in Chemical Biology</i> , 2017, 41, 107-113.	6.1	36
115	Synthetic Cassettes for pH-Mediated Sensing, Counting, and Containment. <i>Cell Reports</i> , 2020, 30, 3139-3148.e4.	6.4	36
116	Stable Neutralization of a Virulence Factor in Bacteria Using Temperate Phage in the Mammalian Gut. <i>MSystems</i> , 2020, 5, .	3.8	36
117	The Discovery of Twenty-Eight New Encapsulin Sequences, Including Three in Anammox Bacteria. <i>Scientific Reports</i> , 2019, 9, 20122.	3.3	34
118	Synthetic circuit identifies subpopulations with sustained memory of DNA damage. <i>Genes and Development</i> , 2011, 25, 434-439.	5.9	32
119	Grown, Printed, and Biologically Augmented: An Additively Manufactured Microfluidic Wearable, Functionally Templated for Synthetic Microbes. <i>3D Printing and Additive Manufacturing</i> , 2016, 3, 79-89.	2.9	32
120	Synthetic Gene Circuits Enable Systems-Level Biosensor Trigger Discovery at the Host-Microbe Interface. <i>MSystems</i> , 2019, 4, .	3.8	32
121	Systems-Level Engineering of Nonfermentative Metabolism in Yeast. <i>Genetics</i> , 2009, 183, 385-397.	2.9	31
122	Engineering Genetically-Encoded Mineralization and Magnetism via Directed Evolution. <i>Scientific Reports</i> , 2016, 6, 38019.	3.3	31
123	<i>Streptomyces thermoautotrophicus</i> does not fix nitrogen. <i>Scientific Reports</i> , 2016, 6, 20086.	3.3	31
124	Transplantability of a circadian clock to a noncircadian organism. <i>Science Advances</i> , 2015, 1, .	10.3	29
125	Solar-powered CO <sub>2</sub> reduction by a hybrid biological   inorganic system. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 358, 411-415.	3.9	29
126	Controlling the Implementation of Transgenic Microbes: Are We Ready for What Synthetic Biology Has to Offer?. <i>Molecular Cell</i> , 2020, 78, 614-623.	9.7	28



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127	Enhancement of Cell Type Specificity by Quantitative Modulation of a Chimeric Ligand. <i>Journal of Biological Chemistry</i> , 2008, 283, 8469-8476.	3.4	27
128	Synthetic biology expands chemical control of microorganisms. <i>Current Opinion in Chemical Biology</i> , 2015, 28, 20-28.	6.1	27
129	Barcoded microbial system for high-resolution object provenance. <i>Science</i> , 2020, 368, 1135-1140.	12.6	27
130	Using synthetic RNAs as scaffolds and regulators. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 8-10.	8.2	26
131	Quorum Sensing Can Be Repurposed To Promote Information Transfer between Bacteria in the Mammalian Gut. <i>ACS Synthetic Biology</i> , 2018, 7, 2270-2281.	3.8	26
132	A synthetic system links FeFe-hydrogenases to essential <i>E. coli</i> sulfur metabolism. <i>Journal of Biological Engineering</i> , 2011, 5, 7.	4.7	24
133	Identification and selective expansion of functionally superior T cells expressing chimeric antigen receptors. <i>Journal of Translational Medicine</i> , 2015, 13, 161.	4.4	24
134	Exploring targeting peptide-shell interactions in encapsulin nanocompartments. <i>Scientific Reports</i> , 2021, 11, 4951.	3.3	24
135	A BioBrick compatible strategy for genetic modification of plants. <i>Journal of Biological Engineering</i> , 2012, 6, 8.	4.7	22
136	Sun-driven microbial synthesis of chemicals in space. <i>International Journal of Astrobiology</i> , 2011, 10, 359-364.	1.6	19
137	Engineering acyl carrier protein to enhance production of shortened fatty acids. <i>Biotechnology for Biofuels</i> , 2016, 9, 24.	6.2	19
138	A Tunable Protein Piston That Breaks Membranes to Release Encapsulated Cargo. <i>ACS Synthetic Biology</i> , 2016, 5, 303-311.	3.8	19
139	Identification of a Fifth Antibacterial Toxin Produced by a Single <i>Bacteroides fragilis</i> Strain. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	19
140	Efficient size-independent chromosome delivery from yeast to cultured cell lines. <i>Nucleic Acids Research</i> , 2017, 45, gkw1252.	14.5	18
141	A Synthetic System That Senses <i>Candida albicans</i> and Inhibits Virulence Factors. <i>ACS Synthetic Biology</i> , 2019, 8, 434-444.	3.8	18
142	Toward a translationally independent RNA-based synthetic oscillator using deactivated CRISPR-Cas. <i>Nucleic Acids Research</i> , 2020, 48, 8165-8177.	14.5	18
143	Anti-glycophorin single-chain Fv fusion to low-affinity mutant erythropoietin improves red blood cell-lineage specificity. <i>Protein Engineering, Design and Selection</i> , 2010, 23, 251-260.	2.1	17
144	Targeted erythropoietin selectively stimulates red blood cell expansion in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5245-5250.	7.1	16

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145	Synthetic genome recoding: new genetic codes for new features. <i>Current Genetics</i> , 2018, 64, 327-333.	1.7	16
146	Chimeric Fatty Acyl-Acyl Carrier Protein Thioesterases Provide Mechanistic Insight into Enzyme Specificity and Expression. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	15
147	Superresolution microscopy of the $\hat{t}^2$ -carboxysome reveals a homogeneous matrix. <i>Molecular Biology of the Cell</i> , 2017, 28, 2734-2745.	2.1	14
148	$^{13}\text{C}$ -Labeling the carbon-fixation pathway of a highly efficient artificial photosynthetic system. <i>Faraday Discussions</i> , 2017, 198, 529-537.	3.2	11
149	Dynamics simulations for engineering macromolecular interactions. <i>Chaos</i> , 2013, 23, 025110.	2.5	10
150	Systems engineering without an engineer: Why we need systems biology. <i>Complexity</i> , 2007, 13, 22-29.	1.6	9
151	Making Biology Easier to Engineer. <i>BioSocieties</i> , 2009, 4, 283-289.	1.3	9
152	Natural and Designed Proteins Inspired by Extremotolerant Organisms Can Form Condensates and Attenuate Apoptosis in Human Cells. <i>ACS Synthetic Biology</i> , 2022, 11, 1292-1302.	3.8	9
153	Harnessing undomesticated life. <i>Nature Microbiology</i> , 2019, 4, 212-213.	13.3	8
154	Enabling community-based metrology for wood-degrading fungi. <i>Fungal Biology and Biotechnology</i> , 2020, 7, 2.	5.1	8
155	Transient Gene Expression in Tobacco using Gibson Assembly and the Gene Gun. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	7
156	Designing Cell-Targeted Therapeutic Proteins Reveals the Interplay between Domain Connectivity and Cell Binding. <i>Biophysical Journal</i> , 2014, 107, 2456-2466.	0.5	6
157	<i>Escherichia coli</i> NGF-1, a Genetically Tractable, Efficiently Colonizing Murine Gut Isolate. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.6	6
158	Beyond the Four Bases: A Home Run for Synthetic Epigenetic Control?. <i>Molecular Cell</i> , 2019, 74, 5-7.	9.7	6
159	Rational Design of a Bifunctional AND-Gate Ligand To Modulate Cell-Cell Interactions. <i>ACS Synthetic Biology</i> , 2020, 9, 191-197.	3.8	6
160	Induced sensitivity of <i>Bacillus subtilis</i> colony morphology to mechanical media compression. <i>PeerJ</i> , 2014, 2, e597.	2.0	5
161	High-Content Screening and Computational Prediction Reveal Viral Genes That Suppress the Innate Immune Response. <i>MSystems</i> , 2022, 7, e0146621.	3.8	5
162	Genome-wide RNAi screen discovers functional coupling of alternative splicing and cell cycle control to apoptosis regulation. <i>Cell Cycle</i> , 2010, 9, 4419-4421.	2.6	4

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163	Therapeutic potential of retroviral RNAi vectors. Expert Opinion on Biological Therapy, 2004, 4, 319-327.	3.1	3
164	Rational engineering of an erythropoietin fusion protein to treat hypoxia. Protein Engineering, Design and Selection, 2021, 34, .	2.1	3
165	Recording cellular experiences of DNA damage. Cell Cycle, 2011, 10, 2410-2411.	2.6	2
166	Modular and Single-Cell Sensors of Bacterial Ser/Thr Kinase Activity. ACS Synthetic Biology, 2021, 10, 2340-2350.	3.8	2
167	Ribocomputing devices for sophisticated in vivo logic computation. , 2016, , .		1
168	Mammalian Cells Engineered To Produce New Steroids. ChemBioChem, 2018, 19, 1827-1833.	2.6	1
169	Knowing when to change: reprogramming (my) life. Nature Cell Biology, 2010, 12, 730-730.	10.3	0
170	Synthetic meets cell biology. Molecular Biology of the Cell, 2012, 23, 967-967.	2.1	0
171	Early-Career Scientists Shaping the World. MSystems, 2019, 4, .	3.8	0
172	Connecting the Genome to the Cytoplasm. FASEB Journal, 2008, 22, 112.1.	0.5	0
173	Minimizing side effects, maximizing returns: what makes a smart therapeutic design?. Biochemist, 2019, 41, 28-32.	0.5	0