Daniel F Voytas

List of Publications by Year
in descending order

181 papers	30,769 citations	5268 83 h-index	4885 168 g-index
197 all docs	197 docs citations	197 times ranked	22790 citing authors

#	Article	IF	Citations
1	Efficient design and assembly of custom TALEN and other TAL effector-based constructs for DNA targeting. Nucleic Acids Research, 2011, 39, e82-e82.	14.5	1,793
2	Targeting DNA Double-Strand Breaks with TAL Effector Nucleases. Genetics, 2010, 186, 757-761.	2.9	1,618
3	RNA targeting with CRISPRâ€“Cas13. Nature, 2017, 550, 280-284.	27.8	1,442
4	TAL Effectors: Customizable Proteins for DNA Targeting. Science, 2011, 333, 1843-1846.	12.6	884
5	In vivo genome editing using a high-efficiency TALEN system. Nature, 2012, 491, 114-118.	27.8	849
6	High-frequency modification of plant genes using engineered zinc-finger nucleases. Nature, 2009, 459, 442-445.	27.8	682
7	Rapid â€œOpen-Sourceâ€•Engineering of Customized Zinc-Finger Nucleases for Highly Efficient Gene Modification. Molecular Cell, 2008, 31, 294-301.	9.7	660
8	De novo domestication of wild tomato using genome editing. Nature Biotechnology, 2018, 36, 1211-1216.	17.5	559
9	TAL Effector-Nucleotide Targeter (TALE-NT) 2.0: tools for TAL effector design and target prediction. Nucleic Acids Research, 2012, 40, W117-W122.	14.5	549
10	A CRISPR/Cas9 Toolbox for Multiplexed Plant Genome Editing and Transcriptional Regulation. Plant Physiology, 2015, 169, 971-985.	4.8	532
11	Efficient TALEN-mediated gene knockout in livestock. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17382-17387.	7.1	524
12	High-frequency, precise modification of the tomato genome. Genome Biology, 2015, 16, 232.	8.8	521
13	Transposable Elements and Genome Organization: A Comprehensive Survey of Retrotransposons Revealed by the Complete <i>Saccharomyces cerevisiae</i> Genomeâ€‰Sequence. Genome Research, 1998, 8, 464-478.	5.5	512
14	Selection-free zinc-finger-nuclease engineering by context-dependent assembly (CoDA). Nature Methods, 2011, 8, 67-69.	19.0	480
15	A Multipurpose Toolkit to Enable Advanced Genome Engineering in Plants. Plant Cell, 2017, 29, 1196-1217.	6.6	469
16	DNA Replicons for Plant Genome Engineering Â. Plant Cell, 2014, 26, 151-163.	6.6	464
17	Lowâ€gluten, nontransgenic wheat engineered with CRISPR/Cas9. Plant Biotechnology Journal, 2018, 16, 902-910.	8.3	455
18	Plant Genome Engineering with Sequence-Specific Nucleases. Annual Review of Plant Biology, 2013, 64, 327-350.	18.7	444

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19	Improved soybean oil quality by targeted mutagenesis of the fatty acid desaturase 2 gene family. Plant Biotechnology Journal, 2014, 12, 934-940.	8.3	433
20	Advancing Crop Transformation in the Era of Genome Editing. Plant Cell, 2016, 28, tpc.00196.2016.	6.6	429
21	A CRISPRâ€“Cpf1 system for efficient genome editing and transcriptional repression in plants. Nature Plants, 2017, 3, 17018.	9.3	425
22	Simple Methods for Generating and Detecting Locus-Specific Mutations Induced with TALENs in the Zebrafish Genome. PLoS Genetics, 2012, 8, e1002861.	3.5	422
23	Transcription Activator-Like Effector Nucleases Enable Efficient Plant Genome Engineering Â Â. Plant Physiology, 2012, 161, 20-27.	4.8	407
24	Unexpected failure rates for modular assembly of engineered zinc fingers. Nature Methods, 2008, 5, 374-375.	19.0	385
25	Precision Genome Engineering and Agriculture: Opportunities and Regulatory Challenges. PLoS Biology, 2014, 12, e1001877.	5.6	367
26	ZiFiT (Zinc Finger Targeter): an updated zinc finger engineering tool. Nucleic Acids Research, 2010, 38, W462-W468.	14.5	365
27	Genome engineering empowers the diatom Phaeodactylum tricornutum for biotechnology. Nature Communications, 2014, 5, 3831.	12.8	351
28	High frequency targeted mutagenesis in <i>Arabidopsis thaliana</i> using zinc finger nucleases. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12028-12033.	7.1	347
29	Plant gene editing through de novo induction of meristems. Nature Biotechnology, 2020, 38, 84-89.	17.5	329
30	High-frequency homologous recombination in plants mediated by zinc-finger nucleases. Plant Journal, 2005, 44, 693-705.	5.7	328
31	Conferring resistance to geminiviruses with the CRISPRâ€“Cas prokaryotic immune system. Nature Plants, 2015, 1, .	9.3	327
32	Improving cold storage and processing traits in potato through targeted gene knockout. Plant Biotechnology Journal, 2016, 14, 169-176.	8.3	324
33	Novel alleles of rice <i>eIF4G</i> generated by CRISPR/Cas9â€targeted mutagenesis confer resistance to <i>Rice tungro spherical virus</i>. Plant Biotechnology Journal, 2018, 16, 1918-1927.	8.3	307
34	Highâ€efficiency gene targeting in hexaploid wheat using <scp>DNA</scp> replicons and <scp>CRISPR</scp>/Cas9. Plant Journal, 2017, 89, 1251-1262.	5.7	305
35	The IMMUTANS Variegation Locus of Arabidopsis Defines a Mitochondrial Alternative Oxidase Homolog That Functions during Early Chloroplast Biogenesis. Plant Cell, 1999, 11, 43-55.	6.6	289
36	Mutations in the Arabidopsis VAR2 locus cause leaf variegation due to the loss of a chloroplast FtsH protease. Plant Journal, 2000, 22, 303-313.	5.7	264

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37	Targeted Mutagenesis of Duplicated Genes in Soybean with Zinc-Finger Nucleases Â Â. Plant Physiology, 2011, 156, 466-473.	4.8	260
38	Zinc Finger Targeter (ZiFiT): an engineered zinc finger/target site design tool. Nucleic Acids Research, 2007, 35, W599-W605.	14.5	256
39	Efficient Virus-Mediated Genome Editing in Plants Using the CRISPR/Cas9 System. Molecular Plant, 2015, 8, 1288-1291.	8.3	255
40	Geminivirus-Mediated Genome Editing in Potato (Solanum tuberosum L.) Using Sequence-Specific Nucleases. Frontiers in Plant Science, 2016, 7, 1045.	3.6	252
41	Common Physical Properties of DNA Affecting Target Site Selection of Sleeping Beauty and other Tc1/mariner Transposable Elements. Journal of Molecular Biology, 2002, 323, 441-452.	4.2	247
42	Rapid and Efficient Gene Modification in Rice and Brachypodium Using TALENs. Molecular Plant, 2013, 6, 1365-1368.	8.3	245
43	The ULK1 complex mediates MTORC1 signaling to the autophagy initiation machinery via binding and phosphorylating ATG14. Autophagy, 2016, 12, 547-564.	9.1	243
44	The diversity of LTR retrotransposons. Genome Biology, 2004, 5, 225.	9.6	236
45	TALEN-based Gene Correction for Epidermolysis Bullosa. Molecular Therapy, 2013, 21, 1151-1159.	8.2	232
46	A copia-like transposable element family in Arabidopsis thaliana. Nature, 1988, 336, 242-244.	27.8	217
47	Generation and Inheritance of Targeted Mutations in Potato (Solanum tuberosum L.) Using the CRISPR/Cas System. PLoS ONE, 2015, 10, e0144591.	2.5	211
48	Enabling plant synthetic biology through genome engineering. Trends in Biotechnology, 2015, 33, 120-131.	9.3	203
49	Agarose Gel Electrophoresis. , 2001, Chapter 2, Unit2.5A.		200
50	Multiplexed heritable gene editing using RNA viruses and mobile single guide RNAs. Nature Plants, 2020, 6, 620-624.	9.3	198
51	Oligomerized pool engineering (OPEN): an 'open-source' protocol for making customized zinc-finger arrays. Nature Protocols, 2009, 4, 1471-1501.	12.0	187
52	Standardized reagents and protocols for engineering zinc finger nucleases by modular assembly. Nature Protocols, 2006, 1, 1637-1652.	12.0	180
53	Robust Transcriptional Activation in Plants Using Multiplexed CRISPR-Act2.0 and mTALE-Act Systems. Molecular Plant, 2018, 11, 245-256.	8.3	179
54	Chromodomains direct integration of retrotransposons to heterochromatin. Genome Research, 2008, 18, 359-369.	5.5	178

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55	Nuclear-organelle interactions: the immutans variegation mutant of Arabidopsis is plastid autonomous and impaired in carotenoid biosynthesis. Plant Journal, 1994, 6, 161-175.	5.7	177
56	Vimentin Intermediate Filaments Template Microtubule Networks to Enhance Persistence in Cell Polarity and Directed Migration. Cell Systems, 2016, 3, 252-263.e8.	6.2	172
57	TAL effector nucleases induce mutations at a pre-selected location in the genome of primary barley transformants. Plant Molecular Biology, 2013, 83, 279-285.	3.9	171
58	Evaluation of TCR Gene Editing Achieved by TALENs, CRISPR/Cas9, and megaTAL Nucleases. Molecular Therapy, 2016, 24, 570-581.	8.2	168
59	Threshold-dependent repression of SPL gene expression by miR156/miR157 controls vegetative phase change in Arabidopsis thaliana. PLoS Genetics, 2018, 14, e1007337.	3.5	161
60	Direct stacking of sequence-specific nuclease-induced mutations to produce high oleic and low linolenic soybean oil. BMC Plant Biology, 2016, 16, 225.	3.6	160
61	TALEN-engineered AR gene rearrangements reveal endocrine uncoupling of androgen receptor in prostate cancer. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17492-17497.	7.1	147
62	<scp>CRISPR</scp>/Cas9 and <scp>TALEN</scp>s generate heritable mutations for genes involved in small <scp>RNA</scp> processing of <i>Glycine max</i> and <i>Medicago truncatula</i>. Plant Biotechnology Journal, 2018, 16, 1125-1137.	8.3	147
63	A Single Transcript CRISPR-Cas9 System for Efficient Genome Editing in Plants. Molecular Plant, 2016, 9, 1088-1091.	8.3	144
64	Targeting of the Yeast Ty5 Retrotransposon to Silent Chromatin Is Mediated by Interactions between Integrase and Sir4p. Molecular and Cellular Biology, 2001, 21, 6606-6614.	2.3	143
65	Increasing frequencies of site-specific mutagenesis and gene targeting in <i>Arabidopsis</i> by manipulating DNA repair pathways. Genome Research, 2013, 23, 547-554.	5.5	142
66	Allele exchange at the <scp>EPSPS</scp> locus confers glyphosate tolerance in cassava. Plant Biotechnology Journal, 2018, 16, 1275-1282.	8.3	137
67	Targeted Mutagenesis of the Tomato <i>PROCERA</i> Gene Using Transcription Activator-Like Effector Nucleases Â. Plant Physiology, 2014, 166, 1288-1291.	4.8	133
68	Targeted Mutagenesis of<i>Arabidopsis thaliana</i>Using Engineered TAL Effector Nucleases. G3: Genes, Genomes, Genetics, 2013, 3, 1697-1705.	1.8	127
69	Genome editing as a tool to achieve the crop ideotype and de novo domestication of wild relatives: Case study in tomato. Plant Science, 2017, 256, 120-130.	3.6	121
70	Potential Retroviruses in Plants: Tat1 Is Related to a Group of Arabidopsis thaliana Ty3/gypsy Retrotransposons That Encode Envelope-Like Proteins. Genetics, 1998, 149, 703-715.	2.9	121
71	TAL effectors: highly adaptable phytobacterial virulence factors and readily engineered DNA-targeting proteins. Trends in Cell Biology, 2013, 23, 390-398.	7.9	120
72	TALEN-mediated editing of the mouse Y chromosome. Nature Biotechnology, 2013, 31, 530-532.	17.5	119

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73	Controlling integration specificity of a yeast retrotransposon. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5891-5895.	7.1	115
74	Copia-like retrotransposable element evolution in diploid and polyploid cotton (Gossypium L.). Journal of Molecular Evolution, 1993, 36, 429-447.	1.8	104
75	Genome Engineering of Crops with Designer Nucleases. Plant Genome, 2012, 5, 42-50.	2.8	102
76	<i>Athila4</i> of <i>Arabidopsis</i> and <i>Calypso</i> of Soybean Define a Lineage of Endogenous Plant Retroviruses. Genome Research, 2002, 12, 122-131.	5.5	100
77	Targeting G with TAL Effectors: A Comparison of Activities of TALENs Constructed with NN and NK Repeat Variable Di-Residues. PLoS ONE, 2012, 7, e45383.	2.5	100
78	Targeted mutagenesis in wheat microspores using CRISPR/Cas9. Scientific Reports, 2018, 8, 6502.	3.3	98
79	Yeast retrotransposons and tRNAs. Trends in Genetics, 1993, 9, 421-427.	6.7	97
80	Genes of the Pseudoviridae (Ty1/copia Retrotransposons). Molecular Biology and Evolution, 2002, 19, 1832-1845.	8.9	97
81	Multiplexed, targeted gene editing in <i>Nicotiana benthamiana</i> for glycoâ€engineering and monoclonal antibody production. Plant Biotechnology Journal, 2016, 14, 533-542.	8.3	95
82	Fanconi Anemia Gene Editing by the CRISPR/Cas9 System. Human Gene Therapy, 2015, 26, 114-126.	2.7	94
83	Retroviruses in plants?. Trends in Genetics, 2000, 16, 151-152.	6.7	93
84	Gene expression atlas for the food security crop cassava. New Phytologist, 2017, 213, 1632-1641.	7.3	93
85	Genome Engineering and Agriculture: Opportunities and Challenges. Progress in Molecular Biology and Translational Science, 2017, 149, 1-26.	1.7	88
86	Compact designer TALENs for efficient genome engineering. Nature Communications, 2013, 4, 1762.	12.8	83
87	Yeast retrotransposon revealed. Nature, 1992, 358, 717-717.	27.8	82
88	Multiple Non-LTR Retrotransposons in the Genome of <i>Arabidopsis thaliana</i>. Genetics, 1996, 142, 569-578.	2.9	82
89	Translational recoding signals between gag and pol in diverse LTR retrotransposons. Rna, 2003, 9, 1422-1430.	3.5	80
90	Phosphorylation Regulates Integration of the Yeast Ty5 Retrotransposon into Heterochromatin. Molecular Cell, 2007, 27, 289-299.	9.7	72

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91	Targeted Deletion and Inversion of Tandemly Arrayed Genes in <i>Arabidopsis thaliana</i> Using Zinc Finger Nucleases. G3: Genes, Genomes, Genetics, 2013, 3, 1707-1715.	1.8	72
92	Reply to â€œGenome editing with modularly assembled zinc-finger nucleasesâ€. Nature Methods, 2010, 7, 91-92.	19.0	71
93	Validating Genome-Wide Association Candidates Controlling Quantitative Variation in Nodulation. Plant Physiology, 2017, 173, 921-931.	4.8	71
94	Evaluation of the mature grain phytase candidate HvPAPhy_a gene in barley (Hordeum vulgare L.) using CRISPR/Cas9 and TALENs. Plant Molecular Biology, 2017, 95, 111-121.	3.9	71
95	Overcoming bottlenecks in plant gene editing. Current Opinion in Plant Biology, 2020, 54, 79-84.	7.1	71
96	Genomic neighborhoods for Arabidopsis retrotransposons: a role for targeted integration in the distribution of the Metaviridae. Genome Biology, 2004, 5, R78.	9.6	70
97	An RNA polymerase III subunit determines sites of retrotransposon integration. Science, 2015, 348, 585-588.	12.6	70
98	Zinc Finger Database (ZiFDB): a repository for information on C2H2 zinc fingers and engineered zinc-finger arrays. Nucleic Acids Research, 2009, 37, D279-D283.	14.5	69
99	Genome Editing for Crop Improvement â€“ Applications in Clonally Propagated Polyploids With a Focus on Potato (Solanum tuberosum L.). Frontiers in Plant Science, 2018, 9, 1607.	3.6	65
100	A TALE of Two Nucleases: Gene Targeting for the Masses?. Zebrafish, 2011, 8, 147-149.	1.1	61
101	A nucleosomal surface defines an integration hotspot for the <i>Saccharomyces cerevisiae</i> Ty1 retrotransposon. Genome Research, 2012, 22, 704-713.	5.5	61
102	Comparing Zinc Finger Nucleases and Transcription Activator-Like Effector Nucleases for Gene Targeting in Drosophila. G3: Genes, Genomes, Genetics, 2013, 3, 1717-1725.	1.8	61
103	Protein expression and gene editing in monocots using foxtail mosaic virus vectors. Plant Direct, 2019, 3, e00181.	1.9	56
104	A Single Amino Acid Change in the Yeast Retrotransposon Ty5 Abolishes Targeting to Silent Chromatin. Molecular Cell, 1998, 1, 1051-1055.	9.7	55
105	Non-transgenic Plant Genome Editing Using Purified Sequence-Specific Nucleases. Molecular Plant, 2015, 8, 1425-1427.	8.3	52
106	Targeting a Single Alternative Polyadenylation Site Coordinately Blocks Expression of Androgen Receptor mRNA Splice Variants in Prostate Cancer. Cancer Research, 2017, 77, 5228-5235.	0.9	52
107	Attaining the promise of plant gene editing at scale. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	51
108	Optimization of multiplexed CRISPR/Cas9 system for highly efficient genome editing in <i>Setaria viridis</i>. Plant Journal, 2020, 104, 828-838.	5.7	48

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109	A Defect in DNA Ligase4 Enhances the Frequency of TALEN-Mediated Targeted Mutagenesis in Rice. Plant Physiology, 2016, 170, 653-666.	4.8	47
110	Rapid flux in plant genomes. Nature Genetics, 1998, 20, 6-6.	21.4	46
111	ZFNGenome: A comprehensive resource for locating zinc finger nuclease target sites in model organisms. BMC Genomics, 2011, 12, 83.	2.8	45
112	SIRE1, an Endogenous Retrovirus Family from Glycine max, Is Highly Homogeneous and Evolutionarily Young. Molecular Biology and Evolution, 2003, 20, 1222-1230.	8.9	42
113	An affinity-based scoring scheme for predicting DNA-binding activities of modularly assembled zinc-finger proteins. Nucleic Acids Research, 2009, 37, 506-515.	14.5	42
114	Downregulation of <i>Plzf</i> Gene Ameliorates Metabolic and Cardiac Traits in the Spontaneously Hypertensive Rat. Hypertension, 2017, 69, 1084-1091.	2.7	41
115	Gibberellin-Induced Changes in the Populations of Translatable mRNAs and Accumulated Polypeptides in Dwarfs of Maize and Pea. Plant Physiology, 1987, 83, 15-23.	4.8	38
116	Efficient Design and Assembly of Custom TALENs Using the Golden Gate Platform. Methods in Molecular Biology, 2015, 1239, 133-159.	0.9	38
117	TAL Effector Specificity for base 0 of the DNA Target Is AlteredÂin a Complex, Effector- and Assay-Dependent MannerÂby Substitutions forÂthe Tryptophan in Cryptic Repeat â€“1. PLoS ONE, 2013, 8, e82120.	2.5	37
118	Building customizable auto-luminescent luciferase-based reporters in plants. ELife, 2020, 9, .	6.0	36
119	The Sireviruses, a Plant-Specific Lineage of the Ty1/copia Retrotransposons, Interact with a Family of Proteins Related to Dynein Light Chain 8. Plant Physiology, 2005, 139, 857-868.	4.8	35
120	Regulate genome-edited products, not genome editing itself. Nature Biotechnology, 2016, 34, 477-479.	17.5	34
121	High Frequency cDNA Recombination of the Saccharomyces Retrotransposon Ty5: The LTR Mediates Formation of Tandem Elements. Genetics, 1997, 147, 545-556.	2.9	34
122	A eukaryotic gene family related to retroelement integrases. Trends in Genetics, 2005, 21, 133-137.	6.7	32
123	DNA Binding Made Easy. Science, 2009, 326, 1491-1492.	12.6	31
124	The yeast retrotransposon Ty5 uses the anticodon stem-loop of the initiator methionine tRNA as a primer for reverse transcription. Rna, 1999, 5, 929-938.	3.5	28
125	Essential nucleotide- and protein-dependent functions of <i>Actb</i> /Î²-actin. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7973-7978.	7.1	27
126	Access to DNA establishes a secondary target site bias for the yeast retrotransposon Ty5. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20351-20356.	7.1	24

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127	Gene editing and its application for hematological diseases. International Journal of Hematology, 2016, 104, 18-28.	1.6	24
128	Targeted Mutagenesis in Arabidopsis Using Zinc-Finger Nucleases. Methods in Molecular Biology, 2011, 701, 167-177.	0.9	24
129	MicroRNA Maturation and MicroRNA Target Gene Expression Regulation Are Severely Disrupted in Soybean dicer-like1 Double Mutants. G3: Genes, Genomes, Genetics, 2016, 6, 423-433.	1.8	23
130	Expression and Processing of Proteins Encoded by the <i>Saccharomyces</i> Retrotransposon Ty5. Journal of Virology, 2001, 75, 1790-1797.	3.4	22
131	Histone H2AX and the small RNA pathway modulate both non-homologous end-joining and homologous recombination in plants. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2016, 783, 9-14.	1.0	22
132	High-efficiency multiplex biallelic heritable editing in Arabidopsis using an RNA virus. Plant Physiology, 2022, 189, 1241-1245.	4.8	22
133	Predicting success of oligomerized pool engineering (OPEN) for zinc finger target site sequences. BMC Bioinformatics, 2010, 11, 543.	2.6	21
134	Zinc Finger Database (ZiFDB) v2.0: a comprehensive database of C2H2 zinc fingers and engineered zinc finger arrays. Nucleic Acids Research, 2012, 41, D452-D455.	14.5	21
135	ZFN, TALEN and CRISPR-Cas9 mediated homology directed gene insertion in Arabidopsis: A disconnect between somatic and germinal cells. Journal of Genetics and Genomics, 2018, 45, 681-684.	3.9	21
136	Evaluation of Methods to Assess in vivo Activity of Engineered Genome-Editing Nucleases in Protoplasts. Frontiers in Plant Science, 2019, 10, 110.	3.6	21
137	The IMMUTANS Variegation Locus of Arabidopsis Defines a Mitochondrial Alternative Oxidase Homolog That Functions during Early Chloroplast Biogenesis. Plant Cell, 1999, 11, 43.	6.6	20
138	Targeted Mutagenesis for Functional Analysis of Gene Duplication in Legumes. Methods in Molecular Biology, 2013, 1069, 25-42.	0.9	20
139	Targeted Mutagenesis in Plant Cells through Transformation of Sequence-Specific Nuclease mRNA. PLoS ONE, 2016, 11, e0154634.	2.5	20
140	Retrotransposon Target Site Selection by Imitation of a Cellular Protein. Molecular and Cellular Biology, 2008, 28, 1230-1239.	2.3	18
141	Targeting Integration of the Saccharomyces Ty5 Retrotransposon. Methods in Molecular Biology, 2008, 435, 153-163.	0.9	18
142	Highly efficient gene tagging in the bryophyte <i>Physcomitrella patens</i> using the tobacco (<i>Nicotiana tabacum</i>) Tnt1 retrotransposon. New Phytologist, 2016, 212, 759-769.	7.3	17
143	Heritable base-editing in <i>Arabidopsis</i> using RNA viral vectors. Plant Physiology, 2022, 189, 1920-1924.	4.8	17
144	cDNA of the Yeast Retrotransposon Ty5 Preferentially Recombines with Substrates in Silent Chromatin. Molecular and Cellular Biology, 1999, 19, 484-494.	2.3	16

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145	Agrobacterium rhizogenes-mediated transformation of a dioecious plant model Silene latifolia. New Biotechnology, 2019, 48, 20-28.	4.4	16
146	VipariNama: RNA viral vectors to rapidly elucidate the relationship between gene expression and phenotype. Plant Physiology, 2021, 186, 2222-2238.	4.8	16
147	The soybean retroelement SIRE 1 uses stop codon suppression to express its envelopeâ€like protein. EMBO Reports, 2003, 4, 274-277.	4.5	15
148	Welcome to Mobile DNA. Mobile DNA, 2010, 1, 1.	3.6	15
149	Agarose Gel Electrophoresis. Current Protocols in Immunology, 1992, 2, Unit 10.4.	3.6	14
150	Detection and Quantitation of Radiolabeled Proteins and DNA in Gels and Blots. Current Protocols in Molecular Biology, 1999, 48, Appendix 3A.	2.9	14
151	RNA Viral Vectors for Accelerating Plant Synthetic Biology. Frontiers in Plant Science, 2021, 12, 668580.	3.6	13
152	Targeting of the Plzf Gene in the Rat by Transcription Activator-Like Effector Nuclease Results in Caudal Regression Syndrome in Spontaneously Hypertensive Rats. PLoS ONE, 2016, 11, e0164206.	2.5	13
153	Editing plant genes one base at a time. Nature Plants, 2018, 4, 412-413.	9.3	12
154	Fine Mapping of Leaf Trichome Density Revealed a 747-kb Region on Chromosome 1 in Cold-Hardy Hybrid Wine Grape Populations. Frontiers in Plant Science, 2021, 12, 587640.	3.6	12
155	Wheat rescued from fungal disease. Nature Biotechnology, 2014, 32, 886-887.	17.5	11
156	Mouse Genome Engineering Using Designer Nucleases. Journal of Visualized Experiments, 2014, , .	0.3	11
157	Genome Editing in Potato with CRISPR/Cas9. Methods in Molecular Biology, 2019, 1917, 183-201.	0.9	11
158	Retrotransposon vectors for gene delivery in plants. Mobile DNA, 2010, 1, 19.	3.6	9
159	Synthetic genomes engineered by SCRaMbLEing. Science China Life Sciences, 2018, 61, 975-977.	4.9	9
160	SplitTester: software to identify domains responsible for functional divergence in protein family. BMC Bioinformatics, 2005, 6, 137.	2.6	8
161	Editing through infection. Nature Plants, 2020, 6, 738-739.	9.3	8
162	A Transient Assay for Monitoring Zinc Finger Nuclease Activity at Endogenous Plant Gene Targets. Methods in Molecular Biology, 2010, 649, 299-313.	0.9	7

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163	Tailor-Made Mutations in Arabidopsis Using Zinc Finger Nucleases. Methods in Molecular Biology, 2014, 1062, 193-209.	0.9	7
164	Ty5 gag Mutations Increase Retrotransposition and Suggest a Role for Hydrogen Bonding in the Function of the Nucleocapsid Zinc Finger. Journal of Virology, 2002, 76, 3240-3247.	3.4	6
165	CEN plasmid segregation is destabilized by tethered determinants of Ty 5 integration specificity: a role for double-strand breaks in CEN antagonism. Chromosoma, 2003, 112, 58-65.	2.2	4
166	Technology Turbocharges Functional Genomics. Plant Cell, 2017, 29, 1179-1180.	6.6	4
167	Fast-TrACC: A Rapid Method for Delivering and Testing Gene Editing Reagents in Somatic Plant Cells. Frontiers in Genome Editing, 2021, 2, .	5.2	4
168	Plant genome engineering from lab to fieldâ€"a Keystone Symposia report. Annals of the New York Academy of Sciences, 2021, 1506, 35-54.	3.8	4
169	Constructing Nested Deletions for Use in DNA Sequencing. , 2001, Chapter 7, Unit7.2.		3
170	Fighting fire with fire. Nature, 2008, 451, 412-413.	27.8	3
171	Detection and Quantitation of Radiolabeled Proteins in Gels and Blots. , 2001, Chapter 6, Unit 6.3.		2
172	Detection and Quantitation of Radiolabeled Proteins and DNA in Gels and Blots. Current Protocols in Immunology, 2002, 50, Appendix 3J.	3.6	2
173	Engineered TAL Effector Proteins: Versatile Reagents for Manipulating Plant Genomes. , 2015, , 55-72.		2
174	Editorial Prerogative and the Plant Genome. Journal of Genetics and Genomics, 2016, 43, 229-232.	3.9	2
175	Modulating gene translational control through genome editing. National Science Review, 2019, 6, 391-391.	9.5	2
176	Detection and Quantitation of Radiolabeled Proteins in Gels and Blots. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2001, 7, A.3D.1-10.	1.1	2
177	Agarose Gel Electrophoresis. Current Protocols in Molecular Biology, 1988, 4, 2.5.1-2.5.9.	2.9	2
178	Analyzing Plant Gene Targeting Outcomes and Conversion Tracts with Nanopore Sequencing. International Journal of Molecular Sciences, 2021, 22, 9723.	4.1	1
179	Meeting Report for Mobile DNA 2010. Mobile DNA, 2010, 1, 20.	3.6	0
180	Reviewer acknowledgement 2013. Mobile DNA, 2013, 4, 4.	3.6	0

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181	Hemivirus. , 2011, , 1549-1553.		0