C Neal Stewart Jr

List of Publications by Year
in descending order

286 papers	15,815 citations	16451 64 h-index	22166 113 g-index
301 all docs	301 docs citations	301 times ranked	16880 citing authors

#	Article	IF	Citations
1	Statistical analysis of real-time PCR data. BMC Bioinformatics, 2006, 7, 85.	2.6	1,651
2	Non-target-site herbicide resistance: a family business. Trends in Plant Science, 2007, 12, 6-13.	8.8	451
3	Advancing Crop Transformation in the Era of Genome Editing. Plant Cell, 2016, 28, tpc.00196.2016.	6.6	429
4	Plants to power: bioenergy to fuel the future. Trends in Plant Science, 2008, 13, 421-429.	8.8	392
5	Transgene introgression from genetically modified crops to their wild relatives. Nature Reviews Genetics, 2003, 4, 806-817.	16.3	355
6	Overexpression of miR156 in switchgrass (<i>Panicum virgatum</i> L.) results in various morphological alterations and leads to improved biomass production. Plant Biotechnology Journal, 2012, 10, 443-452.	8.3	293
7	Functional characterization of the switchgrass (<i>Panicum virgatum</i>) R2R3â€MYB transcription factor <i>PvMYB4</i> for improvement of lignocellulosic feedstocks. New Phytologist, 2012, 193, 121-136.	7.3	264
8	Hybridization between transgenic Brassica napus L. and its wild relatives: Brassica rapa L., Raphanus raphanistrum L., Sinapis arvensis L., and Erucastrum gallicum (Willd.) O.E. Schulz. Theoretical and Applied Genetics, 2003, 107, 528-539.	3.6	241
9	Genetic Transformation, Recovery, and Characterization of Fertile Soybean Transgenic for a Synthetic Bacillus thuringiensis cryIAc Gene. Plant Physiology, 1996, 112, 121-129.	4.8	237
10	Assessing population genetic structure and variability with RAPD data: Application to Vaccinium macrocarpon (American Cranberry). Journal of Evolutionary Biology, 1996, 9, 153-171.	1.7	217
11	Statistical methods for efficiency adjusted realâ€time PCR quantification. Biotechnology Journal, 2008, 3, 112-123.	3.5	204
12	Transcriptional responses of Arabidopsis thaliana plants to As (V) stress. BMC Plant Biology, 2008, 8, 87.	3.6	197
13	Smelling global climate change: mitigation of function for plant volatile organic compounds. Trends in Ecology and Evolution, 2009, 24, 323-331.	8.7	192
14	Comparative genome analysis of lignin biosynthesis gene families across the plant kingdom. BMC Bioinformatics, 2009, 10, S3.	2.6	190
15	Advanced genetic tools for plant biotechnology. Nature Reviews Genetics, 2013, 14, 781-793.	16.3	188
16	The utility of green fluorescent protein in transgenic plants. Plant Cell Reports, 2001, 20, 376-382.	5.6	181
17	Evaluating Methods for Isolating Total RNA and Predicting the Success of Sequencing Phylogenetically Diverse Plant Transcriptomes. PLoS ONE, 2012, 7, e50226.	2.5	172
18	Introgression of Crop Alleles into Wild or Weedy Populations. Annual Review of Ecology, Evolution, and Systematics, 2013, 44, 325-345.	8.3	169

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19	'GM-gene-deletor': fused loxP-FRT recognition sequences dramatically improve the efficiency of FLP or CRE recombinase on transgene excision from pollen and seed of tobacco plants. Plant Biotechnology Journal, 2007, 5, 263-374.	8.3	168
20	Plant systems biology comes of age. Trends in Plant Science, 2008, 13, 165-171.	8.8	165
21	The evolutionary history of ferns inferred from 25 lowâ€copy nuclear genes. American Journal of Botany, 2015, 102, 1089-1107.	1.7	157
22	Increased Agrobacterium-mediated transformation and rooting efficiencies in canola (Brassica napus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	5.6	150
23	Gatewayâ€compatible vectors for highâ€throughput gene functional analysis in switchgrass (<i>Panicum) Tj ETQq1 1 0.784314 rgBT /O	8.3	150
24	Plant synthetic biology. Trends in Plant Science, 2015, 20, 309-317.	8.8	144
25	Shikimate Accumulates in Both Glyphosate-Sensitive and Glyphosate-Resistant Horseweed (Conyza) Tj ETQq1 1 0.784314 rgBT /Overlo	5.2	142
26	Sugar release and growth of biofuel crops are improved by downregulation of pectin biosynthesis. Nature Biotechnology, 2018, 36, 249-257.	17.5	136
27	Highâ€throughput deep sequencing shows that micro<scp>RNA</scp>s play important roles in switchgrass responses to drought and salinity stress. Plant Biotechnology Journal, 2014, 12, 354-366.	8.3	131
28	Insect Control and Dosage Effects in Transgenic Canola Containing a Synthetic Bacillus thuringiensis cryIAc Gene. Plant Physiology, 1996, 112, 115-120.	4.8	130
29	Expression of GFP and Bt transgenes in Brassica napus and hybridization with Brassica rapa. Theoretical and Applied Genetics, 2001, 103, 659-667.	3.6	128
30	Larvicidal Cry proteins from Bacillus thuringiensis are released in root exudates of transgenic B. thuringiensis corn, potato, and rice but not of B. thuringiensis canola, cotton, and tobacco. Plant Physiology and Biochemistry, 2004, 42, 383-387.	5.8	124
31	Overexpression of an Arabidopsis thaliana ABC transporter confers kanamycin resistance to transgenic plants. Nature Biotechnology, 2005, 23, 1177-1180.	17.5	123
32	Methods to produce marker-free transgenic plants. Biotechnology Journal, 2007, 2, 83-90.	3.5	122
33	Enhanced characteristics of genetically modified switchgrass (Panicum virgatum L.) for high biofuel production. Biotechnology for Biofuels, 2013, 6, 71.	6.2	118
34	Increased fitness of transgenic insecticidal rapeseed under insect selection pressure. Molecular Ecology, 1997, 6, 773-779.	3.9	117
35	Identification and overexpression of <i>gibberellin 2â€oxidase</i> (<i><scp>GA</scp>2ox</i>) in switchgrass (<i><scp>P</scp>anicum virgatum</i> L.) for improved plant architecture and reduced biomass recalcitrance. Plant Biotechnology Journal, 2015, 13, 636-647.	8.3	117
36	Plant synthetic promoters and transcription factors. Current Opinion in Biotechnology, 2016, 37, 36-44.	6.6	115

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37	Applications of Green Fluorescent Protein in Plants. BioTechniques, 1997, 23, 912-918.	1.8	112
38	Characterization of the horseweed (<i>Conyza canadensis</i>) transcriptome using GSâ€FLX 454 pyrosequencing and its application for expression analysis of candidate nonâ€target herbicide resistance genes. Pest Management Science, 2010, 66, 1053-1062.	3.4	112
39	Genome engineering via TALENs and CRISPR/Cas9 systems: challenges and perspectives. Plant Biotechnology Journal, 2014, 12, 1006-1014.	8.3	110
40	A Genomics Approach to Deciphering Lignin Biosynthesis in Switchgrass. Plant Cell, 2013, 25, 4342-4361.	6.6	109
41	Less is more: strategies to remove marker genes from transgenic plants. BMC Biotechnology, 2013, 13, 36.	3.3	107
42	Green fluorescent protein as a marker for expression of a second gene in transgenic plants. Nature Biotechnology, 1999, 17, 1125-1129.	17.5	106
43	Twoâ€year field analysis of reduced recalcitrance transgenic switchgrass. Plant Biotechnology Journal, 2014, 12, 914-924.	8.3	104
44	De Novo Genome Assembly of the Economically Important Weed Horseweed Using Integrated Data from Multiple Sequencing Platforms Â Â Â. Plant Physiology, 2014, 166, 1241-1254.	4.8	101
45	Brassica biotechnology: Progress in cellular and molecular biology. In Vitro Cellular and Developmental Biology - Plant, 2004, 40, 542-551.	2.1	97
46	Go with the glow: fluorescent proteins to light transgenic organisms. Trends in Biotechnology, 2006, 24, 155-162.	9.3	96
47	Effects of elevated carbon dioxide and ozone on volatile terpenoid emissions and multitrophic communication of transgenic insecticidal oilseed rape (<i>Brassica napus</i>). New Phytologist, 2009, 181, 174-186.	7.3	94
48	Weed genomics: new tools to understand weed biology. Trends in Plant Science, 2004, 9, 391-398.	8.8	92
49	Transgene introgression in crop relatives: molecular evidence and mitigation strategies. Trends in Biotechnology, 2011, 29, 284-293.	9.3	92
50	Diversity of ABC transporter genes across the plant kingdom and their potential utility in biotechnology. BMC Biotechnology, 2016, 16, 47.	3.3	91
51	Effects of Bt plants on the development and survival of the parasitoid Cotesia plutellae (Hymenoptera:) Tj ETQq1 1 0.784314 rgBT /Ov (Lepidoptera: Plutellidae). Journal of Insect Physiology, 2004, 50, 435-443.	2.0	90
52	The Potential of Systems Biology to Discover Antibacterial Mechanisms of Plant Phenolics. Frontiers in Microbiology, 2017, 8, 422.	3.5	90
53	Characterization of <i>de novo</i> transcriptome for waterhemp (<i>Amaranthus tuberculatus</i>) using GSâ€FLX 454 pyrosequencing and its application for studies of herbicide targetâ€site genes. Pest Management Science, 2010, 66, 1042-1052.	3.4	89
54	Standardization of Switchgrass Sample Collection for Cell Wall and Biomass Trait Analysis. Bioenergy Research, 2013, 6, 755-762.	3.9	87

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55	MicroRNA Expression Analysis in the Cellulosic Biofuel Crop Switchgrass (Panicum virgatum) under Abiotic Stress. PLoS ONE, 2012, 7, e32017.	2.5	87
56	Defenses Against ROS in Crops and Weeds: The Effects of Interference and Herbicides. International Journal of Molecular Sciences, 2019, 20, 1086.	4.1	86
57	Survival, Development, and Oviposition of Resistant Diamondback Moth (Lepidoptera: Plutellidae) on Transgenic Canola Producing a Bacillus thuringiensis Toxin. Journal of Economic Entomology, 1998, 91, 1239-1244.	1.8	83
58	Evolution of Weediness and Invasiveness: Charting the Course for Weed Genomics. Weed Science, 2009, 57, 451-462.	1.5	82
59	Rapid Assessment of Lignin Content and Structure in Switchgrass (Panicum virgatum L.) Grown Under Different Environmental Conditions. Bioenergy Research, 2009, 2, 246-256.	3.9	82
60	An Improved Tissue Culture System for Embryogenic Callus Production and Plant Regeneration in Switchgrass (Panicum virgatum L.). Bioenergy Research, 2009, 2, 267-274.	3.9	80
61	Transgenic Plants and Biosafety: Science, Misconceptions and Public Perceptions. BioTechniques, 2000, 29, 832-843.	1.8	76
62	Tritrophic choice experiments with bt plants, the diamondback moth (Plutella xylostella) and the parasitoid Cotesia plutellae. Transgenic Research, 2003, 12, 351-361.	2.4	72
63	Growth, productivity, and competitiveness of introgressed weedy Brassica rapa hybrids selected for the presence of Bt cry1Ac and gfp transgenes. Molecular Ecology, 2005, 14, 3177-3189.	3.9	72
64	The Methylome of Soybean Roots during the Compatible Interaction with the Soybean Cyst Nematode. Plant Physiology, 2015, 168, 1364-1377.	4.8	70
65	Quantitative GFP fluorescence as an indicator of recombinant protein synthesis in transgenic plants. Plant Cell Reports, 2003, 22, 117-121.	5.6	69
66	Lipofection-mediated genome editing using DNA-free delivery of the Cas9/gRNA ribonucleoprotein into plant cells. Plant Cell Reports, 2020, 39, 245-257.	5.6	66
67	Bt-transgenic oilseed rape hybridization with its weedy relative,Brassica rapa. Environmental Biosafety Research, 2002, 1, 19-28.	1.1	64
68	Genome Editing, Gene Drives, and Synthetic Biology: Will They Contribute to Disease-Resistant Crops, and Who Will Benefit?. Annual Review of Phytopathology, 2019, 57, 165-188.	7.8	64
69	Monitoring the presence and expression of transgenes in living plants. Trends in Plant Science, 2005, 10, 390-396.	8.8	61
70	Statistical tools for transgene copy number estimation based on real-time PCR. BMC Bioinformatics, 2007, 8, S6.	2.6	61
71	Development of a rapid, low-cost protoplast transfection system for switchgrass (Panicum virgatum) Tj ETQq1 1 0.784314 rgBT /Overlo	5.6	61
72	An (<i>E,E</i>)â€î±â€farnesene synthase gene of soybean has a role in defence against nematodes and is involved in synthesizing insectâ€induced volatiles. Plant Biotechnology Journal, 2017, 15, 510-519.	8.3	61

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73	Functional Genomics Analysis of Horseweed (<i>Conyza canadensis</i>) with Special Reference to the Evolution of Nonâ€“Target-Site Glyphosate Resistance. Weed Science, 2010, 58, 109-117.	1.5	60
74	Effects of altered lignin biosynthesis on phenylpropanoid metabolism and plant stress. Biofuels, 2013, 4, 635-650.	2.4	59
75	Field Evaluation of Transgenic Switchgrass Plants Overexpressing PvMYB4 for Reduced Biomass Recalcitrance. Bioenergy Research, 2015, 8, 910-921.	3.9	57
76	Hybridization and backcrossing between transgenic oilseed rape and two related weed species under field conditions. Environmental Biosafety Research, 2004, 3, 73-81.	1.1	56
77	Keeping the genie in the bottle: transgene biocontainment by excision in pollen. Trends in Biotechnology, 2010, 28, 3-8.	9.3	55
78	Functional Markers for Precision Plant Breeding. International Journal of Molecular Sciences, 2020, 21, 4792.	4.1	55
79	RAPD profiling in biological conservation: An application to estimating clonal variation in rare and endangered Iliamna in Virginia. Biological Conservation, 1995, 74, 135-142.	4.1	53
80	Protoplast isolation and transient gene expression in switchgrass, <i>Panicum virgatum</i> L.. Biotechnology Journal, 2008, 3, 354-359.	3.5	53
81	Evolution and spread of glyphosate resistance in <i><scp>C</scp>onyza canadensis</i> in <scp>C</scp>alifornia. Evolutionary Applications, 2013, 6, 761-777.	3.1	53
82	Additive transgene expression and genetic introgression in multiple green-fluorescent protein transgenic crop Ã— weed hybrid generations. Theoretical and Applied Genetics, 2003, 107, 1533-1540.	3.6	51
83	Safety Assessment of Recombinant Green Fluorescent Protein Orally Administered to Weaned Rats. Journal of Nutrition, 2003, 133, 1909-1912.	2.9	51
84	Gene expression analysis in soybean in response to the causal agent of Asian soybean rust (Phakopsora) Tj ETQq0 0 0 rgBT /Overlock 10	3.5	51
85	Rapid in vivo analysis of synthetic promoters for plant pathogen phytosensing. BMC Biotechnology, 2011, 11, 108.	3.3	50
86	Gene expression profiling of resistant and susceptible soybean lines infected with soybean cyst nematode. Theoretical and Applied Genetics, 2011, 123, 1193-206.	3.6	49
87	Identification and Molecular Characterization of the Switchgrass AP2/ERF Transcription Factor Superfamily, and Overexpression of PvERF001 for Improvement of Biomass Characteristics for Biofuel. Frontiers in Bioengineering and Biotechnology, 2015, 3, 101.	4.1	49
88	Instrumentation and Methodology for Quantifying GFP Fluorescence in Intact Plant Organs. BioTechniques, 2003, 34, 638-643.	1.8	48
89	Transgenic perennial biofuel feedstocks and strategies for bioconfinement. Biofuels, 2010, 1, 163-176.	2.4	47
90	Multiple levers for overcoming the recalcitrance of lignocellulosic biomass. Biotechnology for Biofuels, 2019, 12, 15.	6.2	47

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91	ATP-Dependent Binding Cassette Transporter G Family Member 16 Increases Plant Tolerance to Abscisic Acid and Assists in Basal Resistance against <i>Pseudomonas syringae</i> DC3000 Â Â. Plant Physiology, 2014, 166, 879-888.	4.8	46
92	Constitutive and herbivore-inducible glucosinolate concentrations in oilseed rape (Brassica napus) leaves are not affected by Bt Cry1Ac insertion but change under elevated atmospheric CO2 and O3. Planta, 2008, 227, 427-37.	3.2	45
93	Interactions of elevated carbon dioxide and temperature with aphid feeding on transgenic oilseed rape: Are <i>Bacillus thuringiensis</i> (Bt) plants more susceptible to nontarget herbivores in future climate?. Global Change Biology, 2008, 14, 1437-1454.	9.5	45
94	Pathogen Phytosensing: Plants to Report Plant Pathogens. Sensors, 2008, 8, 2628-2641.	3.8	45
95	Aqueous extracts of Hibiscus sabdariffa calyces as an antimicrobial rinse on hot dogs against Listeria monocytogenes and methicillin-resistant Staphylococcus aureus. Food Control, 2014, 40, 274-277.	5.5	45
96	Transgenic switchgrass (<i>Panicum virgatum</i> L.) biomass is increased by overexpression of switchgrass sucrose synthase (<i>PvSUS1</i>). Biotechnology Journal, 2015, 10, 552-563.	3.5	45
97	Stable Transformation of Ferns Using Spores as Targets: Pteris vittata and Ceratopteris thalictroides. Plant Physiology, 2013, 163, 648-658.	4.8	44
98	Biofuels and biocontainment. Nature Biotechnology, 2007, 25, 283-284.	17.5	43
99	Soybean kinome: functional classification and gene expression patterns. Journal of Experimental Botany, 2015, 66, 1919-1934.	4.8	43
100	Progress of targeted genome modification approaches in higher plants. Plant Cell Reports, 2016, 35, 1401-1416.	5.6	43
101	Computational discovery of soybean promoter <i>cis</i>â€regulatory elements for the construction of soybean cyst nematodeâ€inducible synthetic promoters. Plant Biotechnology Journal, 2014, 12, 1015-1026.	8.3	42
102	Fluorescent nanoparticles: Sensing pathogens and toxins in foods and crops. Trends in Food Science and Technology, 2012, 28, 143-152.	15.1	41
103	Phenotypic Plasticity and Genetic Variation of Vaccinium macrocarpon, the American Cranberry. I. Reaction Norms of Clones from Central and Marginal Populations in a Common Garden. International Journal of Plant Sciences, 1995, 156, 687-697.	1.3	40
104	Monitoring transgenic plants using in vivo markers. Nature Biotechnology, 1996, 14, 682-682.	17.5	40
105	Genetic load and transgenic mitigating genes in transgenic Brassica rapa (field mustard) Ã— Brassica napus (oilseed rape) hybrid populations. BMC Biotechnology, 2009, 9, 93.	3.3	40
106	Misconduct versus Honest Error and Scientific Disagreement. Accountability in Research, 2012, 19, 56-63.	2.4	39
107	Advances in biotechnology and genomics of switchgrass. Biotechnology for Biofuels, 2013, 6, 77.	6.2	39
108	Identification and Overexpression of a Knotted1-Like Transcription Factor in Switchgrass (Panicum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.6	39

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109	TransgenicBt-producingBrassica napus:Plutella xylostellaselection pressure and fitness of weedy relatives. Environmental Biosafety Research, 2003, 2, 263-276.	1.1	39
110	Manipulating micro<scp>RNA</scp>s for improved biomass and biofuels from plant feedstocks. Plant Biotechnology Journal, 2015, 13, 337-354.	8.3	37
111	Spatial and temporal patterns of green fluorescent protein (GFP) fluorescence during leaf canopy development in transgenic oilseed rape, Brassica napus L.. Plant Cell Reports, 2003, 22, 338-343.	5.6	36
112	Evaluation of Fern and Moss Proteinâ€Based Defenses Against Phytophagous Insects. International Journal of Plant Sciences, 2006, 167, 111-117.	1.3	36
113	Antimicrobial Activity of Hibiscus sabdariffa Aqueous Extracts against Escherichia coli O157:H7 and Staphylococcus aureus in a Microbiological Medium and Milk of Various Fat Concentrations. Journal of Food Protection, 2014, 77, 262-268.	1.7	36
114	MoChlo: A Versatile, Modular Cloning Toolbox for Chloroplast Biotechnology. Plant Physiology, 2019, 179, 943-957.	4.8	36
115	Stable Bacillus thuringiensis (Bt) toxin content in interspecific F1 and backcross populations of wild Brassica rapa after Bt gene transfer. Molecular Ecology, 2004, 13, 237-241.	3.9	35
116	Differential expression of genes in soybean in response to the causal agent of Asian soybean rust (Phakopsora pachyrhizi Sydow) is soybean growth stage-specific. Theoretical and Applied Genetics, 2009, 118, 359-70.	3.6	35
117	Fitness and maternal effects in hybrids formed between transgenic oilseed rape (<i>Brassica napus</i>) Tj ETQq1 1 0.784314 rgBT /Ove 2009, 65, 753-760.	3.4	35
118	Agroinfiltration as a technique for rapid assays for evaluating candidate insect resistance transgenes in plants. Plant Cell Reports, 2011, 30, 325-334.	5.6	34
119	Very bright orange fluorescent plants: endoplasmic reticulum targeting of orange fluorescent proteins as visual reporters in transgenic plants. BMC Biotechnology, 2012, 12, 17.	3.3	34
120	Functional Analysis of Cellulose Synthase CesA4 and CesA6 Genes in Switchgrass (Panicum virgatum) by Overexpression and RNAi-Mediated Gene Silencing. Frontiers in Plant Science, 2018, 9, 1114.	3.6	34
121	Transcriptomic Analysis Identifies New Non-Target Site Glyphosate-Resistance Genes in Conyza bonariensis. Plants, 2019, 8, 157.	3.5	31
122	Prey-mediated effects of transgenic canola on a beneficial, non-target, carabid beetle. Transgenic Research, 2006, 15, 501-514.	2.4	30
123	Bacterial pathogen phytosensing in transgenic tobacco and <i><scp>A</scp>rabidopsis</i> plants. Plant Biotechnology Journal, 2013, 11, 43-52.	8.3	30
124	Study of traits and recalcitrance reduction of field-grown COMT down-regulated switchgrass. Biotechnology for Biofuels, 2017, 10, 12.	6.2	30
125	Phytopathogen-induced changes to plant methylomes. Plant Cell Reports, 2018, 37, 17-23.	5.6	30
126	Transgenic switchgrass (<i>Panicum virgatum</i> L.) targeted for reduced recalcitrance to bioconversion: a 2â€year comparative analysis of fieldâ€grown lines modified for target gene or genetic element expression. Plant Biotechnology Journal, 2017, 15, 688-697.	8.3	29

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127	Aqueous Extracts of Yerba Mate (Ilex paraguariensis) as a Natural Antimicrobial against Escherichia coli O157:H7 in a Microbiological Medium and pH 6.0 Apple Juice. Journal of Food Protection, 2012, 75, 753-757.	1.7	28
128	Gene flow matters in switchgrass (<i>Panicum virgatum</i>L.), a potential widespread biofuel feedstock. Ecological Applications, 2012, 22, 3-7.	3.8	28
129	Climbing plants: attachment adaptations and bioinspired innovations. Plant Cell Reports, 2018, 37, 565-574.	5.6	28
130	Selection of Bioassay Method Influences Detection of Annual Bluegrass Resistance to Mitoticâ€Inhibiting Herbicides. Crop Science, 2009, 49, 1088-1095.	1.8	27
131	Identification of introduced and stably inherited DNA methylation variants in soybean associated with soybean cyst nematode parasitism. New Phytologist, 2020, 227, 168-184.	7.3	27
132	Rational design and testing of abiotic stressâ€inducible synthetic promoters from poplar <i>cis</i>â€regulatory elements. Plant Biotechnology Journal, 2021, 19, 1354-1369.	8.3	27
133	Drosera rotundifolia growth and nutrition in a natural population with special reference to the significance of insectivory. Canadian Journal of Botany, 1992, 70, 1409-1416.	1.1	26
134	Movement and Survival of Diamondback Moth (Lepidoptera: Plutellidae) Larvae in Mixtures of Nontransgenic and Transgenic Canola Containing a cryla (c) Gene of Bacillus thuringiensis. Environmental Entomology, 1998, 27, 649-656.	1.4	26
135	capability from immature cotyledons. In Vitro Cellular and Developmental Biology - Plant, 2002, 38, 543-548.	2.1	26
136	Characterization of English ivy (Hedera helix) adhesion force and imaging using atomic force microscopy. Journal of Nanoparticle Research, 2011, 13, 1029-1037.	1.9	26
137	Development and use of a switchgrass (Panicum virgatum L.) transformation pipeline by the BioEnergy Science Center to evaluate plants for reduced cell wall recalcitrance. Biotechnology for Biofuels, 2017, 10, 309.	6.2	26
138	Advanced editing of the nuclear and plastid genomes in plants. Plant Science, 2018, 273, 42-49.	3.6	26
139	Transgenic miR156 switchgrass in the field: growth, recalcitrance and rust susceptibility. Plant Biotechnology Journal, 2018, 16, 39-49.	8.3	26
140	Genomic analysis of the response of Arabidopsis thaliana to trinitrotoluene as revealed by cDNA microarrays. Plant Science, 2005, 168, 1409-1424.	3.6	25
141	Phytoremediation and phytosensing of chemical contaminants, RDX and TNT: identification of the required target genes. Functional and Integrative Genomics, 2009, 9, 537-47.	3.5	25
142	Nanoparticle biofabrication using English ivy (Hedera helix). Journal of Nanobiotechnology, 2012, 10, 41.	9.1	25
143	Effects of Produced Water on Soil Characteristics, Plant Biomass, and Secondary Metabolites. Journal of Environmental Quality, 2015, 44, 1938-1947.	2.0	25
144	Switchgrass (Panicum virgatum L.) cell suspension cultures: Establishment, characterization, and application. Plant Science, 2011, 181, 712-715.	3.6	24

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145	Characterization of physicochemical properties of ivy nanoparticles for cosmetic application. Journal of Nanobiotechnology, 2013, 11, 3.	9.1	24
146	Movement of transgenic plantâ€expressed Bt Cry1Ac proteins through high trophic levels. Journal of Applied Entomology, 2008, 132, 1-11.	1.8	23
147	Transgenic soybean overexpressing <i>Gm<scp>SAMT</scp>1</i> exhibits resistance to multipleâ€<scp>HG</scp> types of soybean cyst nematode <i>Heterodera glycines</i>. Plant Biotechnology Journal, 2016, 14, 2100-2109.	8.3	23
148	GM crop dataâ€”agronomy and ecology in tandem. Nature Biotechnology, 2001, 19, 3-3.	17.5	22
149	Isolation and chemical analysis of nanoparticles from English ivy (<i>Hedera helix</i> L.). Journal of the Royal Society Interface, 2013, 10, 20130392.	3.4	22
150	The effects of the presence of Bt-transgenic oilseed rape in wild mustard populations on the rhizosphere nematode and microbial communities. Science of the Total Environment, 2015, 530-531, 263-270.	8.0	22
151	Differential gene expression of Chlamydomonas reinhardtii in response to 2,4,6-trinitrotoluene (TNT) using microarray analysis. Plant Science, 2004, 167, 1109-1122.	3.6	21
152	Physiological and transcriptional responses of Baccharis halimifolia to the explosive â€œcomposition Bâ€• (RDX/TNT) in amended soil. Environmental Science and Pollution Research, 2014, 21, 8261-8270.	5.3	21
153	Fieldâ€grown transgenic switchgrass (<i>Panicum virgatum</i> L.) with altered lignin does not affect soil chemistry, microbiology, and carbon storage potential. GCB Bioenergy, 2017, 9, 1100-1109.	5.6	20
154	High-Throughput Switchgrass Phenotyping and Biomass Modeling by UAV. Frontiers in Plant Science, 2020, 11, 574073.	3.6	20
155	Epigenetic Footprints of CRISPR/Cas9-Mediated Genome Editing in Plants. Frontiers in Plant Science, 2019, 10, 1720.	3.6	20
156	Association of Edaphic Factors and Vegetation in Several Isolated Appalachian Peat Bogs. Bulletin of the Torrey Botanical Club, 1993, 120, 128.	0.6	19
157	Characterization of directly transformed weedy Brassica rapa and introgressed B. rapa with Bt cry1Ac and gfp genes. Plant Cell Reports, 2007, 26, 1001-1010.	5.6	19
158	Sustainable Use of Biotechnology for Bioenergy Feedstocks. Environmental Management, 2010, 46, 531-538.	2.7	19
159	An efficient and rapid transgenic pollen screening and detection method using flow cytometry. Biotechnology Journal, 2011, 6, 118-123.	3.5	19
160	Gene use restriction technologies for transgenic plant bioconfinement. Plant Biotechnology Journal, 2013, 11, 649-658.	8.3	19
161	Next-generation precision genome engineering and plant biotechnology. Plant Cell Reports, 2016, 35, 1397-1399.	5.6	19
162	The Q-System as a Synthetic Transcriptional Regulator in Plants. Frontiers in Plant Science, 2020, 11, 245.	3.6	19

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163	Pathogen inducible reporting in transgenic tobacco using a GFP construct. Plant Science, 2003, 165, 213-219.	3.6	18
164	Effects of pollen-synthesized green fluorescent protein on pollen grain fitness. Sexual Plant Reproduction, 2004, 17, 49-53.	2.2	18
165	Laser-Induced Fluorescence Imaging and Spectroscopy of GFP Transgenic Plants. Journal of Fluorescence, 2005, 15, 697-705.	2.5	18
166	Narrow terahertz attenuation signatures <i>in Bacillus thuringiensis</i>. Journal of Biophotonics, 2014, 7, 818-824.	2.3	18
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