Stephanie Ruf

List of Publications by Year
in descending order

53	4,106	159585 30	168389 53
papers	citations	h-index	g-index

56	56	56	3660
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stable genetic transformation of tomato plastids and expression of a foreign protein in fruit. Nature Biotechnology, 2001, 19, 870-875.	17.5	453
2	Full crop protection from an insect pest by expression of long double-stranded RNAs in plastids. Science, 2015, 347, 991-994.	12.6	353
3	The two largest chloroplast genome-encoded open reading frames of higher plants are essential genes. Plant Journal, 2000, 22, 97-104.	5.7	341
4	High-frequency gene transfer from the chloroplast genome to the nucleus. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8828-8833.	7.1	274
5	Determining the transgene containment level provided by chloroplast transformation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6998-7002.	7.1	226
6	Contained metabolic engineering in tomatoes by expression of carotenoid biosynthesis genes from the plastid genome. Plant Journal, 2007, 49, 276-288.	5.7	182
7	Efficient metabolic pathway engineering in transgenic tobacco and tomato plastids with synthetic multigene operons. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E623-32.	7.1	179
8	Tobacco plastid ribosomal protein S18 is essential for cell survival. Nucleic Acids Research, 2006, 34, 4537-4545.	14.5	170
9	Identification of small non-coding RNAs from mitochondria and chloroplasts. Nucleic Acids Research, 2006, 34, 3842-3852.	14.5	161
10	Targeted Inactivation of a Tobacco Intronâ€“containing Open Reading Frame Reveals a Novel Chloroplast-encoded Photosystem Iâ€“related Gene. Journal of Cell Biology, 1997, 139, 95-102.	5.2	145
11	Plastid protein synthesis is required for plant development in tobacco. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 15730-15735.	7.1	108
12	The Contributions of Wobbling and Superwobbling to the Reading of the Genetic Code. PLoS Genetics, 2012, 8, e1003076.	3.5	90
13	The Plastid Genome-Encoded Ycf4 Protein Functions as a Nonessential Assembly Factor for Photosystem I in Higher Plants Â. Plant Physiology, 2012, 159, 579-591.	4.8	79
14	A Small Chloroplast-Encoded Protein as a Novel Architectural Component of the Light-Harvesting Antenna. Journal of Cell Biology, 2000, 149, 369-378.	5.2	78
15	Y3IP1, a Nucleus-Encoded Thylakoid Protein, Cooperates with the Plastid-Encoded Ycf3 Protein in Photosystem I Assembly of Tobacco and Arabidopsis Â Â. Plant Cell, 2010, 22, 2838-2855.	6.6	72
16	High-efficiency generation of fertile transplastomic Arabidopsis plants. Nature Plants, 2019, 5, 282-289.	9.3	65
17	Horizontal Transfer of a Synthetic Metabolic Pathway between Plant Species. Current Biology, 2017, 27, 3034-3041.e3.	3.9	62
18	Chloramphenicol acetyltransferase as selectable marker for plastid transformation. Plant Molecular Biology, 2011, 76, 443-451.	3.9	60

#	Article	IF	Citations
19	Identification of cisâ€elements conferring high levels of gene expression in nonâ€green plastids. Plant Journal, 2012, 72, 115-128.	5.7	60
20	A leaf-based regeneration and transformation system for maize (Zea mays L.). Transgenic Research, 2007, 16, 437-448.	2.4	59
21	Optimization of the expression of the HIV fusion inhibitor cyanovirinâ€N from the tobacco plastid genome. Plant Biotechnology Journal, 2011, 9, 599-608.	8.3	57
22	Transfer of the cytochrome P450-dependent dhurrin pathway fromSorghum bicolorintoNicotiana tabacumchloroplasts for light-driven synthesis. Journal of Experimental Botany, 2016, 67, 2495-2506.	4.8	57
23	Design of chimeric expression elements that confer highâ€level gene activity in chromoplasts. Plant Journal, 2013, 73, 368-379.	5.7	53
24	Constancy of organellar genome copy numbers during leaf development and senescence in higher plants. Molecular Genetics and Genomics, 2006, 275, 185-192.	2.1	52
25	Contributions of the international plant science community to the fight against human infectious diseases â€“ part 1: epidemic and pandemic diseases. Plant Biotechnology Journal, 2021, 19, 1901-1920.	8.3	44
26	Dual targeting of a mature plastoglobulin/fibrillin fusion protein to chloroplast plastoglobules and thylakoids in transplastomic tobacco plants. Plant Molecular Biology, 2013, 81, 13-25.	3.9	43
27	A highly efficient sulfadiazine selection system for the generation of transgenic plants and algae. Plant Biotechnology Journal, 2019, 17, 638-649.	8.3	41
28	Shine-Dalgarno Sequences Play an Essential Role in the Translation of Plastid mRNAs in Tobacco. Plant Cell, 2017, 29, 3085-3101.	6.6	40
29	Stabilization and translation of synthetic operonâ€derived <scp>mRNA</scp>s in chloroplasts by sequences representing <scp>PPR</scp> proteinâ€binding sites. Plant Journal, 2018, 94, 8-21.	5.7	40
30	Biolistic coâ€transformation of the nuclear and plastid genomes. Plant Journal, 2011, 67, 941-948.	5.7	33
31	Reverse genetics in complex multigene operons by coâ€transformation of the plastid genome and its application to the open reading frame previously designated psbN. Plant Journal, 2013, 75, 1062-1074.	5.7	33
32	Production of dengue virus envelope protein domain III-based antigens in tobacco chloroplasts using inducible and constitutive expression systems. Plant Molecular Biology, 2016, 91, 497-512.	3.9	33
33	The plastid-encoded PsaI subunit stabilizes photosystem I during leaf senescence in tobacco. Journal of Experimental Botany, 2017, 68, 1137-1155.	4.8	31
34	Improving plant drought tolerance and growth under water limitation through combinatorial engineering of signalling networks. Plant Biotechnology Journal, 2021, 19, 74-86.	8.3	31
35	Contributions of the international plant science community to the fight against infectious diseases in humansâ€”part 2: Affordable drugs in edible plants for endemic and reâ€emerging diseases. Plant Biotechnology Journal, 2021, 19, 1921-1936.	8.3	31
36	Insensitivity of chloroplast gene expression to DNA methylation. Molecular Genetics and Genomics, 2009, 282, 17-24.	2.1	26

#	Article	IF	Citations
37	Efficient control of western flower thrips by plastid-mediated RNA interference. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2120081119.	7.1	26
38	Synthetic Lethality in the Tobacco Plastid Ribosome and Its Rescue at Elevated Growth Temperatures. Plant Cell, 2014, 26, 765-776.	6.6	24
39	Isolation of highly active photosystem II core complexes with a His-tagged Cyt b559 subunit from transplastomic tobacco plants. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 1501-1509.	1.0	23
40	Lycopene Î²-cyclase expression influences plant physiology, development, and metabolism in tobacco plants. Journal of Experimental Botany, 2021, 72, 2544-2569.	4.8	21
41	Faithful transcription initiation from a mitochondrial promoter in transgenic plastids. Nucleic Acids Research, 2007, 35, 7256-7266.	14.5	20
42	A bifunctional aminoglycoside acetyltransferase/phosphotransferase conferring tobramycin resistance provides an efficient selectable marker for plastid transformation. Plant Molecular Biology, 2017, 93, 269-281.	3.9	20
43	Riboswitch-mediated inducible expression of an astaxanthin biosynthetic operon in plastids. Plant Physiology, 2022, 188, 637-652.	4.8	20
44	Multi-gene metabolic engineering of tomato plants results in increased fruit yield up to 23%. Scientific Reports, 2020, 10, 17219.	3.3	15
45	Knockdown of the plastid-encoded acetyl-CoA carboxylase gene uncovers functions in metabolism and development. Plant Physiology, 2021, 185, 1091-1110.	4.8	15
46	The Functions of Chloroplast Glutamyl-tRNA in Translation and Tetrapyrrole Biosynthesis. Plant Physiology, 2020, 183, 263-276.	4.8	13
47	Plastid Transformation in Tomato. Methods in Molecular Biology, 2014, 1132, 265-276.	0.9	11
48	Chloroplast Transformation in Arabidopsis. Current Protocols, 2021, 1, e103.	2.9	8
49	In Vivo Analysis of RNA Editing in Plastids. Methods in Molecular Biology, 2011, 718, 137-150.	0.9	7
50	Loopholes for smuggling DNA into pollen. Nature Plants, 2017, 3, 918-919.	9.3	7
51	Correction of frameshift mutations in the atpB gene by translational recoding in chloroplasts of Oenothera and tobacco. Plant Cell, 2021, 33, 1682-1705.	6.6	6
52	The availability of neither D2 nor CP43 limits the biogenesis of photosystem II in tobacco. Plant Physiology, 2021, 185, 1111-1130.	4.8	6
53	Plastid Transformation in Tomato: A Vegetable Crop and Model Species. Methods in Molecular Biology, 2021, 2317, 217-228.	0.9	2