Jim Haseloff

List of Publications by Year
in descending order

90 papers	12,464 citations	44069 48 h-index	51608 86 g-index
98 all docs	98 docs citations	98 times ranked	11241 citing authors

#	Article	IF	Citations
1	Constructing Cell-Free Expression Systems for Low-Cost Access. ACS Synthetic Biology, 2022, 11, 1114-1128.	3.8	22
2	Rapid and Modular DNA Assembly for Transformation of Marchantia Chloroplasts. Methods in Molecular Biology, 2021, 2317, 343-365.	0.9	0
3	Construction of DNA Tools for Hyperexpression in <i>Marchantia</i> Chloroplasts. ACS Synthetic Biology, 2021, 10, 1651-1666.	3.8	11
4	Decentralizing Cell-Free RNA Sensing With the Use of Low-Cost Cell Extracts. Frontiers in Bioengineering and Biotechnology, 2021, 9, 727584.	4.1	24
5	Interpretation of morphogen gradients by a synthetic bistable circuit. Nature Communications, 2020, 11, 5545.	12.8	16
6	Systematic Tools for Reprogramming Plant Gene Expression in a Simple Model, <i>Marchantia polymorpha</i>. ACS Synthetic Biology, 2020, 9, 864-882.	3.8	51
7	<scp>DNA</scp> methylation in <i>Marchantia polymorpha</i>. New Phytologist, 2019, 223, 575-581.	7.3	8
8	Loop assembly: a simple and open system for recursive fabrication of <scp>DNA</scp> circuits. New Phytologist, 2019, 222, 628-640.	7.3	88
9	Programmed hierarchical patterning of bacterial populations. Nature Communications, 2018, 9, 776.	12.8	32
10	Intercellular adhesion promotes clonal mixing in growing bacterial populations. Journal of the Royal Society Interface, 2018, 15, 20180406.	3.4	24
11	Opening options for material transfer. Nature Biotechnology, 2018, 36, 923-927.	17.5	44
12	Droplet-based microfluidic analysis and screening of single plant cells. PLoS ONE, 2018, 13, e0196810.	2.5	23
13	Synthetic Botany. Cold Spring Harbor Perspectives in Biology, 2017, 9, a023887.	5.5	39
14	Insights into Land Plant Evolution Garnered from the Marchantia polymorpha Genome. Cell, 2017, 171, 287-304.e15.	28.9	973
15	Artificial Symmetry-Breaking for Morphogenetic Engineering Bacterial Colonies. ACS Synthetic Biology, 2017, 6, 256-265.	3.8	36
16	MarpoDB: An open registry for <i>Marchantia polymorpha</i> genetic parts. Plant and Cell Physiology, 2017, 58, pcw201.	3.1	21
17	Orthogonal intercellular signaling for programmed spatial behavior. Molecular Systems Biology, 2016, 12, 849.	7.2	67
18	The Naming of Names: Guidelines for Gene Nomenclature in<i>Marchantia</i>. Plant and Cell Physiology, 2016, 57, 257-261.	3.1	60

#	Article	IF	Citations
19	A Cyan Fluorescent Reporter Expressed from the Chloroplast Genome of<i>Marchantia polymorpha</i>. Plant and Cell Physiology, 2016, 57, 291-299.	3.1	22
20	Characterization of Intrinsic Properties of Promoters. ACS Synthetic Biology, 2016, 5, 89-98.	3.8	52
21	Standards for plant synthetic biology: a common syntax for exchange of <scp>DNA</scp> parts. New Phytologist, 2015, 208, 13-19.	7.3	263
22	A Computational Method for Automated Characterization of Genetic Components. ACS Synthetic Biology, 2014, 3, 578-588.	3.8	23
23	Cell Polarity-Driven Instability Generates Self-Organized, Fractal Patterning of Cell Layers. ACS Synthetic Biology, 2013, 2, 705-714.	3.8	91
24	Synthetic Biology: opportunities for Chilean bioindustry and education. Biological Research, 2013, 46, 383-393.	3.4	3
25	Ectopic divisions in vascular and ground tissues of Arabidopsis thaliana result in distinct leaf venation defects. Journal of Experimental Botany, 2012, 63, 5351-5364.	4.8	21
26	Integrated genetic and computation methods for in planta cytometry. Nature Methods, 2012, 9, 483-485.	19.0	92
27	Computational Modeling of Synthetic Microbial Biofilms. ACS Synthetic Biology, 2012, 1, 345-352.	3.8	152
28	A molecular framework for the inhibition of <i>Arabidopsis</i> root growth in response to boron toxicity. Plant, Cell and Environment, 2012, 35, 719-734.	5.7	97
29	Highâ€resolution live imaging of plant growth in near physiological bright conditions using light sheet fluorescence microscopy. Plant Journal, 2011, 68, 377-385.	5.7	169
30	Coordination of plant cell division and expansion in a simple morphogenetic system. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2711-2716.	7.1	118
31	GAL4 GFP enhancer trap lines for analysis of stomatal guard cell development and gene expression. Journal of Experimental Botany, 2009, 60, 213-226.	4.8	82
32	Shoot Na+ Exclusion and Increased Salinity Tolerance Engineered by Cell Typeâ€"Specific Alteration of Na+ Transport in <i>Arabidopsis</i> Â Â. Plant Cell, 2009, 21, 2163-2178.	6.6	480
33	Synthetic biology: history, challenges and prospects. Journal of the Royal Society Interface, 2009, 6, S389-91.	3.4	33
34	Gibberellin Signaling in the Endodermis Controls Arabidopsis Root Meristem Size. Current Biology, 2009, 19, 1194-1199.	3.9	360
35	Arabidopsis thaliana outer ovule integument morphogenesis: Ectopic expression of KNAT1 reveals a compensation mechanism. BMC Plant Biology, 2008, 8, 35.	3.6	30
36	A simple way to identify non-viable cells within living plant tissue using confocal microscopy. Plant Methods, 2008, 4, 15.	4.3	103

#	Article	IF	Citations
37	The NAC Domain Transcription Factors FEZ and SOMBRERO Control the Orientation of Cell Division Plane in Arabidopsis Root Stem Cells. Developmental Cell, 2008, 15, 913-922.	7.0	229
38	Diarch Symmetry of the Vascular Bundle in Arabidopsis Root Encompasses the Pericycle and Is Reflected in Distich Lateral Root Initiation. Plant Physiology, 2008, 146, 140-148.	4.8	163
39	A System for Modelling Cellâ€"Cell Interactions during Plant Morphogenesis. Annals of Botany, 2008, 101, 1255-1265.	2.9	83
40	A Role for KNAT Class II Genes in Root Development. Plant Signaling and Behavior, 2007, 2, 10-12.	2.4	34
41	New tools for self-organised pattern formation. IET Synthetic Biology, 2007, 1, 29-31.	0.2	3
42	Editorial: IET Synthetic Biology. IET Synthetic Biology, 2007, 1, 1-2.	0.2	1
43	Imaging Plant Cells. , 2006, , 769-787.		57
44	Time of day modulates low-temperature Ca2+signals in Arabidopsis. Plant Journal, 2006, 48, 962-973.	5.7	145
45	A Map of KNAT Gene Expression in the Arabidopsis Root. Plant Molecular Biology, 2006, 60, 1-20.	3.9	97
46	Armadillo-related proteins promote lateral root development in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1621-1626.	7.1	90
47	The uses of green fluorescent protein in plants. Methods of Biochemical Analysis, 2006, 47, 259-84.	0.2	16
48	Spatial control of transgene expression in rice (Oryza sativa L.) using the GAL4 enhancer trapping system. Plant Journal, 2005, 41, 779-789.	5.7	86
49	Marking cell lineages in living tissues. Plant Journal, 2005, 42, 444-453.	5.7	141
50	Polycomb group genes control developmental timing of endosperm. Plant Journal, 2005, 42, 663-674.	5.7	91
51	Root gravitropism requires lateral root cap and epidermal cells for transport and response to a mobile auxin signal. Nature Cell Biology, 2005, 7, 1057-1065.	10.3	514
52	The Uses of Green Fluorescent Protein in Plants. Methods of Biochemical Analysis, 2005, , 259-284.	0.2	18
53	GAL4-GFP enhancer trap lines for genetic manipulation of lateral root development in Arabidopsis thaliana. Journal of Experimental Botany, 2005, 56, 2433-2442.	4.8	168
54	cg12 Expression Is Specifically Linked to Infection of Root Hairs and Cortical Cells during Casuarina glauca and Allocasuarina verticillata Actinorhizal Nodule Development. Molecular Plant-Microbe Interactions, 2003, 16, 600-607.	2.6	78

#	Article	IF	Citations
55	Old Botanical Techniques for New Microscopes. BioTechniques, 2003, 34, 1174-1182.	1.8	58
56	Optimization of trans-splicing ribozyme efficiency and specificity by in vivo genetic selection. Nucleic Acids Research, 2002, 30, 141e-141.	14.5	26
57	Dynamic Analyses of the Expression of the HISTONE::YFP Fusion Protein in Arabidopsis Show That Syncytial Endosperm Is Divided in Mitotic Domains. Plant Cell, 2001, 13, 495.	6.6	4
58	Dynamic Analyses of the Expression of the HISTONE::YFP Fusion Protein in Arabidopsis Show That Syncytial Endosperm Is Divided in Mitotic Domains. Plant Cell, 2001, 13, 495-509.	6.6	348
59	Hyperpolarisation-activated calcium currents found only in cells from the elongation zone of Arabidopsis thaliana roots. Plant Journal, 2000, 21, 225-229.	5.7	138
60	Cell-type-specific calcium responses to drought, salt and cold in theArabidopsisroot. Plant Journal, 2000, 23, 267-278.	5.7	353
61	Promiscuous and specific phospholipid binding by domains in ZAC, a membrane-associated Arabidopsis protein with an ARF GAP zinc finger and a C2 domain. Plant Molecular Biology, 2000, 44, 799-814.	3.9	35
62	An aniline blue staining procedure for confocal microscopy and 3D imaging of normal and perturbed cellular phenotypes in mature <i>Arabidopsis</i> embryos. Plant Journal, 2000, 24, 543-550.	5.7	11
63	An aniline blue staining procedure for confocal microscopy and 3D imaging of normal and perturbed cellular phenotypes in mature Arabidopsis embryos. Plant Journal, 2000, 24, 543-550.	5.7	107
64	Live Imaging with Green Fluorescent Protein. , 1999, 122, 241-260.		28
65	Design of highly specific cytotoxins by using trans-splicing ribozymes. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 3507-3512.	7.1	48
66	Trans -splicing ribozymes for targeted gene delivery 1 1Edited by J. Karn. Journal of Molecular Biology, 1999, 285, 1935-1950.	4.2	85
67	Imaging Green Fluorescent Protein in Transgenic Plants. , 1999, , 362-394.		0
68	Positional information in root epidermis is defined during embryogenesis and acts in domains with strict boundaries. Current Biology, 1998, 8, 421-430.	3.9	162
69	Stomata Patterning on the Hypocotyl ofArabidopsis thalianaIs Controlled by Genes Involved in the Control of Root Epidermis Patterning. Developmental Biology, 1998, 194, 226-234.	2.0	118
70	Chapter 9: GFP Variants for Multispectral Imaging of Living Cells. Methods in Cell Biology, 1998, 58, 139-151.	1.1	234
71	Miranda mediates asymmetric protein and RNA localization in the developing nervousâ€‰system. Genes and Development, 1998, 12, 1847-1857.	5.9	226
72	Removal of a cryptic intron and subcellular localization of green fluorescent protein are required to mark transgenic Arabidopsis plants brightly. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 2122-2127.	7.1	1,278

#	Article	IF	Citations
73	Following cell fate in the living mouse embryo. Development (Cambridge), 1997, 124, 1133-1137.	2.5	133
74	Mutations that suppress the thermosensitivity of green fluorescent protein. Current Biology, 1996, 6, 1653-1663.	3.9	494
75	GFP in plants. Trends in Genetics, 1995, 11, 328-329.	6.7	239
76	Molecular Characterization of Recombinant Green Fluorescent Protein by Fluorescence Correlation Microscopy. Biochemical and Biophysical Research Communications, 1995, 217, 21-27.	2.1	146
77	Evolution and replication of tobacco ringspot virus satellite RNA mutants.. EMBO Journal, 1993, 12, 2969-2976.	7.8	13
78	Evolution and replication of tobacco ringspot virus satellite RNA mutants. EMBO Journal, 1993, 12, 2969-76.	7.8	4
79	Structure, self-cleavage, and replication of two viroid-like satellite RNAs (virusoids) of subterranean clover mottle virus. Virology, 1990, 177, 216-224.	2.4	51
80	Sequences required for self-catalysed cleavage of the satellite RNA of tobacco ringspot virus. Gene, 1989, 82, 43-52.	2.2	147
81	Sequences required for self-catalysed cleavage of the satellite RNA of tobacco ringspot virus**Presented at the Albany Conference on â€˜RNA: Catalysis, Splicing, Evolutionâ€™, Rensselaerville, NY (U.S.A.) 22-25 September, 1988.. , 1989, , 43-52.		0
82	Simple RNA enzymes with new and highly specific endoribonuclease activities. Nature, 1988, 334, 585-591.	27.8	1,175
83	Construction of a plant disease resistance gene from the satellite RNA of tobacco ringspot virus. Nature, 1987, 328, 802-805.	27.8	190
84	2â€² phosphomonoester, 3â€²-5â€² phosphodiester bond at a unique site in a circular viral RNA.. EMBO Journal, 1985, 4, 817-822.	7.8	48
85	Sindbis virus proteins nsP1 and nsP2 contain homology to nonstructural proteins from several RNA plant viruses. Journal of Virology, 1985, 53, 536-542.	3.4	246
86	2' phosphomonoester, 3'-5' phosphodiester bond at a unique site in a circular viral RNA. EMBO Journal, 1985, 4, 817-22.	7.8	16
87	Striking similarities in amino acid sequence among nonstructural proteins encoded by RNA viruses that have dissimilar genomic organization.. Proceedings of the National Academy of Sciences of the United States of America, 1984, 81, 4358-4362.	7.1	261
88	Comparative sequence and structure of viroid-like RNAs of two plant viruses. Nucleic Acids Research, 1982, 10, 3681-3691.	14.5	82
89	Characterization of the Different Electrophoretic Forms of the Cadang-Cadang Viroid. Journal of General Virology, 1982, 63, 181-188.	2.9	22
90	Chrysanthemum stunt viroid: primary sequence and secondary structure. Nucleic Acids Research, 1981, 9, 2741-2752.	14.5	163