

# Jim Haseloff

## List of Publications by Year in descending order

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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	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
2	Simple RNA enzymes with new and highly specific endoribonuclease activities. Nature, 1988, 334, 585-591.	27.8	1,175
3	Insights into Land Plant Evolution Garnered from the Marchantia polymorpha Genome. Cell, 2017, 171, 287-304.e15.	28.9	973
4	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
5	Mutations that suppress the thermosensitivity of green fluorescent protein. Current Biology, 1996, 6, 1653-1663.	3.9	494
6	Shoot Na <sup>+</sup> Exclusion and Increased Salinity Tolerance Engineered by Cell Type-Specific Alteration of Na <sup>+</sup> Transport in Arabidopsis. Plant Cell, 2009, 21, 2163-2178.	6.6	480
7	Gibberellin Signaling in the Endodermis Controls Arabidopsis Root Meristem Size. Current Biology, 2009, 19, 1194-1199.	3.9	360
8	Cell-type-specific calcium responses to drought, salt and cold in the Arabidopsis root. Plant Journal, 2000, 23, 267-278.	5.7	353
9	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
10	Standards for plant synthetic biology: a common syntax for exchange of DNA parts. New Phytologist, 2015, 208, 13-19.	7.3	263
11	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
12	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
13	GFP in plants. Trends in Genetics, 1995, 11, 328-329.	6.7	239
14	Chapter 9: GFP Variants for Multispectral Imaging of Living Cells. Methods in Cell Biology, 1998, 58, 139-151.	1.1	234
15	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
16	Miranda mediates asymmetric protein and RNA localization in the developing nervous system. Genes and Development, 1998, 12, 1847-1857.	5.9	226
17	Construction of a plant disease resistance gene from the satellite RNA of tobacco ringspot virus. Nature, 1987, 328, 802-805.	27.8	190
18	High-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

#	ARTICLE	IF	CITATIONS
19	GAL4-GFP enhancer trap lines for genetic manipulation of lateral root development in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2005, 56, 2433-2442.	4.8	168
20	<i>Chrysanthemum stunt viroid</i> : primary sequence and secondary structure. <i>Nucleic Acids Research</i> , 1981, 9, 2741-2752.	14.5	163
21	Diarch Symmetry of the Vascular Bundle in <i>Arabidopsis</i> Root Encompasses the Pericycle and Is Reflected in Distich Lateral Root Initiation. <i>Plant Physiology</i> , 2008, 146, 140-148.	4.8	163
22	Positional information in root epidermis is defined during embryogenesis and acts in domains with strict boundaries. <i>Current Biology</i> , 1998, 8, 421-430.	3.9	162
23	Computational Modeling of Synthetic Microbial Biofilms. <i>ACS Synthetic Biology</i> , 2012, 1, 345-352.	3.8	152
24	Sequences required for self-catalysed cleavage of the satellite RNA of tobacco ringspot virus. <i>Gene</i> , 1989, 82, 43-52.	2.2	147
25	Molecular Characterization of Recombinant Green Fluorescent Protein by Fluorescence Correlation Microscopy. <i>Biochemical and Biophysical Research Communications</i> , 1995, 217, 21-27.	2.1	146
26	Time of day modulates low-temperature Ca <sup>2+</sup> signals in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2006, 48, 962-973.	5.7	145
27	Marking cell lineages in living tissues. <i>Plant Journal</i> , 2005, 42, 444-453.	5.7	141
28	Hyperpolarisation-activated calcium currents found only in cells from the elongation zone of <i>Arabidopsis thaliana</i> roots. <i>Plant Journal</i> , 2000, 21, 225-229.	5.7	138
29	Following cell fate in the living mouse embryo. <i>Development (Cambridge)</i> , 1997, 124, 1133-1137.	2.5	133
30	Stomata Patterning on the Hypocotyl of <i>Arabidopsis thaliana</i> Controlled by Genes Involved in the Control of Root Epidermis Patterning. <i>Developmental Biology</i> , 1998, 194, 226-234.	2.0	118
31	Coordination of plant cell division and expansion in a simple morphogenetic system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2711-2716.	7.1	118
32	An aniline blue staining procedure for confocal microscopy and 3D imaging of normal and perturbed cellular phenotypes in mature <i>Arabidopsis</i> embryos. <i>Plant Journal</i> , 2000, 24, 543-550.	5.7	107
33	A simple way to identify non-viable cells within living plant tissue using confocal microscopy. <i>Plant Methods</i> , 2008, 4, 15.	4.3	103
34	A Map of KNAT Gene Expression in the <i>Arabidopsis</i> Root. <i>Plant Molecular Biology</i> , 2006, 60, 1-20.	3.9	97
35	A molecular framework for the inhibition of <i>Arabidopsis</i> root growth in response to boron toxicity. <i>Plant, Cell and Environment</i> , 2012, 35, 719-734.	5.7	97
36	Integrated genetic and computation methods for in planta cytometry. <i>Nature Methods</i> , 2012, 9, 483-485.	19.0	92

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37	Polycomb group genes control developmental timing of endosperm. <i>Plant Journal</i> , 2005, 42, 663-674.	5.7	91
38	Cell Polarity-Driven Instability Generates Self-Organized, Fractal Patterning of Cell Layers. <i>ACS Synthetic Biology</i> , 2013, 2, 705-714.	3.8	91
39	Armadillo-related proteins promote lateral root development in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1621-1626.	7.1	90
40	Loop assembly: a simple and open system for recursive fabrication of <sc>DNA</sc> circuits. <i>New Phytologist</i> , 2019, 222, 628-640.	7.3	88
41	Spatial control of transgene expression in rice ( <i>Oryza sativa</i> L.) using the GAL4 enhancer trapping system. <i>Plant Journal</i> , 2005, 41, 779-789.	5.7	86
42	Trans-splicing ribozymes for targeted gene delivery 1 Edited by J. Karn. <i>Journal of Molecular Biology</i> , 1999, 285, 1935-1950.	4.2	85
43	A System for Modelling Cell-Cell Interactions during Plant Morphogenesis. <i>Annals of Botany</i> , 2008, 101, 1255-1265.	2.9	83
44	Comparative sequence and structure of viroid-like RNAs of two plant viruses. <i>Nucleic Acids Research</i> , 1982, 10, 3681-3691.	14.5	82
45	GAL4 GFP enhancer trap lines for analysis of stomatal guard cell development and gene expression. <i>Journal of Experimental Botany</i> , 2009, 60, 213-226.	4.8	82
46	cg12 Expression Is Specifically Linked to Infection of Root Hairs and Cortical Cells during <i>Casuarina glauca</i> and <i>Allocauarina verticillata</i> Actinorhizal Nodule Development. <i>Molecular Plant-Microbe Interactions</i> , 2003, 16, 600-607.	2.6	78
47	Orthogonal intercellular signaling for programmed spatial behavior. <i>Molecular Systems Biology</i> , 2016, 12, 849.	7.2	67
48	The Naming of Names: Guidelines for Gene Nomenclature in <i>Marchantia</i> . <i>Plant and Cell Physiology</i> , 2016, 57, 257-261.	3.1	60
49	Old Botanical Techniques for New Microscopes. <i>BioTechniques</i> , 2003, 34, 1174-1182.	1.8	58
50	Imaging Plant Cells. , 2006, , 769-787.		57
51	Characterization of Intrinsic Properties of Promoters. <i>ACS Synthetic Biology</i> , 2016, 5, 89-98.	3.8	52
52	Structure, self-cleavage, and replication of two viroid-like satellite RNAs (virusoids) of subterranean clover mottle virus. <i>Virology</i> , 1990, 177, 216-224.	2.4	51
53	Systematic Tools for Reprogramming Plant Gene Expression in a Simple Model, <i>Marchantia polymorpha</i> . <i>ACS Synthetic Biology</i> , 2020, 9, 864-882.	3.8	51
54	2'-phosphomonoester, 3'-5'-phosphodiester bond at a unique site in a circular viral RNA.. <i>EMBO Journal</i> , 1985, 4, 817-822.	7.8	48

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55	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
56	Opening options for material transfer. Nature Biotechnology, 2018, 36, 923-927.	17.5	44
57	Synthetic Botany. Cold Spring Harbor Perspectives in Biology, 2017, 9, a023887.	5.5	39
58	Artificial Symmetry-Breaking for Morphogenetic Engineering Bacterial Colonies. ACS Synthetic Biology, 2017, 6, 256-265.	3.8	36
59	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
60	A Role for KNAT Class II Genes in Root Development. Plant Signaling and Behavior, 2007, 2, 10-12.	2.4	34
61	Synthetic biology: history, challenges and prospects. Journal of the Royal Society Interface, 2009, 6, S389-91.	3.4	33
62	Programmed hierarchical patterning of bacterial populations. Nature Communications, 2018, 9, 776.	12.8	32
63	Arabidopsis thaliana outer ovule integument morphogenesis: Ectopic expression of KNAT1 reveals a compensation mechanism. BMC Plant Biology, 2008, 8, 35.	3.6	30
64	Live Imaging with Green Fluorescent Protein. , 1999, 122, 241-260.		28
65	Optimization of trans-splicing ribozyme efficiency and specificity by in vivo genetic selection. Nucleic Acids Research, 2002, 30, 141e-141.	14.5	26
66	Intercellular adhesion promotes clonal mixing in growing bacterial populations. Journal of the Royal Society Interface, 2018, 15, 20180406.	3.4	24
67	Decentralizing Cell-Free RNA Sensing With the Use of Low-Cost Cell Extracts. Frontiers in Bioengineering and Biotechnology, 2021, 9, 727584.	4.1	24
68	A Computational Method for Automated Characterization of Genetic Components. ACS Synthetic Biology, 2014, 3, 578-588.	3.8	23
69	Droplet-based microfluidic analysis and screening of single plant cells. PLoS ONE, 2018, 13, e0196810.	2.5	23
70	Characterization of the Different Electrophoretic Forms of the Cadang-Cadang Viroid. Journal of General Virology, 1982, 63, 181-188.	2.9	22
71	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
72	Constructing Cell-Free Expression Systems for Low-Cost Access. ACS Synthetic Biology, 2022, 11, 1114-1128.	3.8	22

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73	Ectopic divisions in vascular and ground tissues of <i>Arabidopsis thaliana</i> result in distinct leaf venation defects. <i>Journal of Experimental Botany</i> , 2012, 63, 5351-5364.	4.8	21
74	MarpoDB: An open registry for <i>Marchantia polymorpha</i> genetic parts. <i>Plant and Cell Physiology</i> , 2017, 58, pcw201.	3.1	21
75	The Uses of Green Fluorescent Protein in Plants. <i>Methods of Biochemical Analysis</i> , 2005, , 259-284.	0.2	18
76	Interpretation of morphogen gradients by a synthetic bistable circuit. <i>Nature Communications</i> , 2020, 11, 5545.	12.8	16
77	2' phosphomonoester, 3'-5' phosphodiester bond at a unique site in a circular viral RNA. <i>EMBO Journal</i> , 1985, 4, 817-22.	7.8	16
78	The uses of green fluorescent protein in plants. <i>Methods of Biochemical Analysis</i> , 2006, 47, 259-84.	0.2	16
79	Evolution and replication of tobacco ringspot virus satellite RNA mutants.. <i>EMBO Journal</i> , 1993, 12, 2969-2976.	7.8	13
80	An aniline blue staining procedure for confocal microscopy and 3D imaging of normal and perturbed cellular phenotypes in mature <i>Arabidopsis</i> embryos. <i>Plant Journal</i> , 2000, 24, 543-550.	5.7	11
81	Construction of DNA Tools for Hyperexpression in <i>Marchantia</i> Chloroplasts. <i>ACS Synthetic Biology</i> , 2021, 10, 1651-1666.	3.8	11
82	<scp>DNA</scp> methylation in <i>Marchantia polymorpha</i> . <i>New Phytologist</i> , 2019, 223, 575-581.	7.3	8
83	Dynamic Analyses of the Expression of the HISTONE::YFP Fusion Protein in <i>Arabidopsis</i> Show That Syncytial Endosperm Is Divided in Mitotic Domains. <i>Plant Cell</i> , 2001, 13, 495.	6.6	4
84	Evolution and replication of tobacco ringspot virus satellite RNA mutants. <i>EMBO Journal</i> , 1993, 12, 2969-76.	7.8	4
85	New tools for self-organised pattern formation. <i>IET Synthetic Biology</i> , 2007, 1, 29-31.	0.2	3
86	Synthetic Biology: opportunities for Chilean bioindustry and education. <i>Biological Research</i> , 2013, 46, 383-393.	3.4	3
87	Editorial: IET Synthetic Biology. <i>IET Synthetic Biology</i> , 2007, 1, 1-2.	0.2	1
88	Rapid and Modular DNA Assembly for Transformation of <i>Marchantia</i> Chloroplasts. <i>Methods in Molecular Biology</i> , 2021, 2317, 343-365.	0.9	0
89	Sequences required for self-catalysed cleavage of the satellite RNA of tobacco ringspot virus**Presented at the Albany Conference on $\hat{\epsilon}$ RNA: Catalysis, Splicing, Evolution $\hat{\epsilon}$ ™, Rensselaerville, NY (U.S.A.) 22-25 September, 1988.. , 1989, , 43-52.		0
90	Imaging Green Fluorescent Protein in Transgenic Plants. , 1999, , 362-394.		0