

# Karl H Hasenstein

## List of Publications by Year in descending order

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73  
papers

1,778  
citations

304743

22  
h-index

289244

40  
g-index

73  
all docs

73  
docs citations

73  
times ranked

1935  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of salinity on endogenous ABA, IAA, JA, AND SA in <i>Iris hexagona</i> . <i>Journal of Chemical Ecology</i> , 2001, 27, 327-342.	1.8	234
2	Intracellular magnetophoresis of amyloplasts and induction of root curvature. <i>Planta</i> , 1996, 198, 87-94.	3.2	133
3	Comparison of Microgravity Analogs to Spaceflight in Studies of Plant Growth and Development. <i>Frontiers in Plant Science</i> , 2019, 10, 1577.	3.6	81
4	Curvature in <i>Arabidopsis</i> Inflorescence Stems Is Limited to the Region of Amyloplast Displacement. <i>Plant and Cell Physiology</i> , 2000, 41, 702-709.	3.1	79
5	Positive and negative consequences of salinity stress for the growth and reproduction of the clonal plant, <i>Iris hexagona</i> . <i>Journal of Ecology</i> , 2003, 91, 837-846.	4.0	64
6	<i>N</i> -Acylethanolamine Metabolism Interacts with Abscisic Acid Signaling in <i>Arabidopsis thaliana</i> Seedlings. <i>Plant Cell</i> , 2007, 19, 2454-2469.	6.6	64
7	Magnetophoretic induction of curvature in coleoptiles and hypocotyls. <i>Journal of Experimental Botany</i> , 1997, 48, 1951-1957.	4.8	62
8	Growth and Microtubule Orientation of <i>Zea mays</i> Roots Subjected to Osmotic Stress. <i>International Journal of Plant Sciences</i> , 1995, 156, 774-783.	1.3	57
9	<i>Moniliophthora perniciosa</i> produces hormones and alters endogenous auxin and salicylic acid in infected cocoa leaves. <i>FEMS Microbiology Letters</i> , 2007, 274, 238-244.	1.8	57
10	Initiation and Elongation of Lateral Roots in <i>Lactuca sativa</i> . <i>International Journal of Plant Sciences</i> , 1999, 160, 511-519.	1.3	46
11	$La^{3+}$ uptake and its effect on the cytoskeleton in root protoplasts of <i>Zea mays</i> L.. <i>Planta</i> , 2005, 220, 658-666.	3.2	44
12	Curvature Induced by Amyloplast Magnetophoresis in Protonemata of the Moss <i>Ceratodon purpureus</i> . <i>Plant Physiology</i> , 1999, 119, 645-650.	4.8	43
13	The Onset of Gravisensitivity in the Embryonic Root of Flax. <i>Plant Physiology</i> , 2006, 140, 159-166.	4.8	42
14	Invasion, Disturbance, and Competition: Modeling the Fate of Coastal Plant Populations. <i>Conservation Biology</i> , 2009, 23, 164-173.	4.7	39
15	Biochemical analysis of elastic and rigid cuticles of <i>Cirsium horridulum</i> . <i>Planta</i> , 2001, 213, 841-848.	3.2	37
16	Transcriptome profiling characterizes phosphate deficiency effects on carbohydrate metabolism in rice leaves. <i>Journal of Plant Physiology</i> , 2012, 169, 193-205.	3.5	37
17	Distribution of Expansins in Gravidresponding Maize Roots. <i>Plant and Cell Physiology</i> , 2000, 41, 1305-1312.	3.1	36
18	SSR markers linked to kernel weight and tiller number in sorghum identified by association mapping. <i>Euphytica</i> , 2012, 187, 401-410.	1.2	35

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19	The internal cuticle of <i>Cirsium horridulum</i> (Asteraceae) leaves. <i>American Journal of Botany</i> , 1999, 86, 923-928.	1.7	28
20	The response of lazy-2 tomato seedlings to curvature-inducing magnetic gradients is modulated by light. <i>Planta</i> , 1999, 208, 59-65.	3.2	27
21	IRIS HEXAGONA HORMONAL RESPONSES TO SALINITY STRESS, LEAFMINER HERBIVORY, AND PHENOLOGY. <i>Ecology</i> , 2004, 85, 38-47.	3.2	26
22	Hormonal Changes after Compatible and Incompatible Pollination in <i>Theobroma cacao</i> L.. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 1997, 32, 1231-1234.	1.0	24
23	Development and Pathogenicity of the Fungus <i>Crinipellis pernicioso</i> on Interaction with Cacao Leaves. <i>Phytopathology</i> , 2005, 95, 101-107.	2.2	22
24	Auxin and cytoskeletal organization in algae. <i>Cell Biology International</i> , 2008, 32, 542-545.	3.0	22
25	Plant biology for space exploration “ Building on the past, preparing for the future. <i>Life Sciences in Space Research</i> , 2021, 29, 1-7.	2.3	22
26	Studies on contact sex pheromones of the caridean shrimp <i>Palaemonetes pugio</i> : I. Cuticular hydrocarbons associated with mate recognition. <i>Invertebrate Reproduction and Development</i> , 2009, 53, 93-103.	0.8	21
27	Growth and reproduction of a clonal plant in response to salinity and florivory. <i>Wetlands</i> , 2006, 26, 803-812.	1.5	20
28	Primary Root Growth Regulation: The Role of Auxin and Ethylene Antagonists. <i>Journal of Plant Growth Regulation</i> , 2009, 28, 309-320.	5.1	20
29	Cell wall components affect mechanical properties: studies with thistle flowers. <i>Plant Physiology and Biochemistry</i> , 2003, 41, 792-797.	5.8	19
30	The role of peltate scales in desiccation tolerance of <i>Pleopeltis polypodioides</i> . <i>Planta</i> , 2017, 245, 207-220.	3.2	19
31	Analysis of Magnetic Gradients to Study Gravitropism. <i>American Journal of Botany</i> , 2013, 100, 249-255.	1.7	16
32	Lab-on-a-chip mRNA purification and reverse transcription via a solid-phase gene extraction technique. <i>Lab on A Chip</i> , 2017, 17, 1128-1136.	6.0	16
33	Biochemical responses of the desiccation-tolerant resurrection fern <i>Pleopeltis polypodioides</i> to dehydration and rehydration. <i>Journal of Plant Physiology</i> , 2018, 228, 12-18.	3.5	16
34	Halogenated Auxins Affect Microtubules and Root Elongation in <i>Lactuca sativa</i> . <i>Journal of Plant Growth Regulation</i> , 2000, 19, 397-405.	5.1	15
35	Anisotropic viscosity of the <i>Chara</i> (Characeae) rhizoid cytoplasm. <i>American Journal of Botany</i> , 2007, 94, 1930-1934.	1.7	15
36	Oxygen dependency of germinating Brassica seeds. <i>Life Sciences in Space Research</i> , 2016, 8, 30-37.	2.3	14

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37	Effect of calmodulin antagonists on the growth and graviresponsiveness of primary roots of maize. <i>Plant Growth Regulation</i> , 1992, 11, 419-427.	3.4	13
38	The role of calcium in the regulation of hormone transport in gravistimulated roots. <i>Advances in Space Research</i> , 1992, 12, 211-218.	2.6	13
39	Physiological interactions of antiauxins with auxin in roots. <i>Journal of Plant Physiology</i> , 2010, 167, 879-884.	3.5	13
40	Intracellular magnetophoresis of statoliths in <i>Chara</i> rhizoids and analysis of cytoplasm viscoelasticity. <i>Advances in Space Research</i> , 2001, 27, 887-892.	2.6	11
41	Effects of mechanostimulation on gravitropism and signal persistence in flax roots. <i>Plant Signaling and Behavior</i> , 2011, 6, 1365-1370.	2.4	11
42	Profiling Gene Expression in Germinating Brassica Roots. <i>Plant Molecular Biology Reporter</i> , 2014, 32, 541-548.	1.8	11
43	Germination and elongation of flax in microgravity. <i>Advances in Space Research</i> , 2003, 31, 2261-2268.	2.6	10
44	Irradiation effects of MeV protons on dry and hydrated <i>Brassica rapa</i> seeds. <i>Life Sciences in Space Research</i> , 2018, 19, 24-30.	2.3	10
45	Abscisic Acid Response of Corn ( <i>Zea mays</i> L.) Roots and Protoplasts to Lanthanum. <i>Journal of Plant Growth Regulation</i> , 2008, 27, 19-25.	5.1	9
46	Solid phase gene extraction isolates mRNA at high spatial and temporal resolution. <i>BioTechniques</i> , 2008, 45, 172-178.	1.8	9
47	Osmolytes in salinity-stressed <i>Iris hexagona</i> . <i>Acta Physiologiae Plantarum</i> , 2008, 30, 715-721.	2.1	8
48	Hormone-Induced Gene Expression During Gravicurvature of Brassica Roots. <i>Journal of Plant Growth Regulation</i> , 2016, 35, 190-201.	5.1	8
49	Tissue accumulation patterns and concentrations of potassium, phosphorus, and carboxyfluorescein translocated from pine seed to the root. <i>Planta</i> , 2018, 248, 393-407.	3.2	8
50	Desiccation Mitigates Heat Stress in the Resurrection Fern, <i>Pleopeltis polypodioides</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 597731.	3.6	8
51	Occurrence of a <i>Cylindrospermopsis</i> bloom in Louisiana. <i>Journal of Great Lakes Research</i> , 2010, 36, 458-464.	1.9	7
52	4,4,4-Trifluoro-3-(indole-3-)butyric acid promotes root elongation in <i>Lactuca sativa</i> independent of ethylene synthesis and pH. <i>Physiologia Plantarum</i> , 2002, 116, 383-388.	5.2	6
53	Oxygen requirement of germinating flax seeds. <i>Advances in Space Research</i> , 2003, 31, 2211-2214.	2.6	6
54	Noise amplification of plant gravisensing. <i>Advances in Space Research</i> , 2007, 39, 1119-1126.	2.6	6

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55	Involvement of actin and microtubules in regulation of bioluminescence and translocation of chloroplasts in the dinoflagellate <i>Pyrocystis lunula</i> . <i>Botanica Marina</i> , 2009, 52, 170-177.	1.2	6
56	Status of the Louisiana accelerator center. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	6
57	Purification and identification of ABA-binding proteins and antibody preparation. , 1996, 9, 722-727.		5
58	Seed coat stomata of several <i>Iris</i> species. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2016, 224, 24-29.	1.2	5
59	Space Flight Cultivation for Radish ( <i>Raphanus sativus</i> ) in the Advanced Plant Habitat. <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2021, 9, 121-132.	0.8	5
60	Beware of Fixation—It Might Affect Your Experiments. <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2016, 4, 47-57.	0.8	5
61	THE CONNECTIVE BASE OF <i>CIRSILUM HORRIDULUM</i> (ASTERACEAE): DESCRIPTION AND COMPARISON WITH THE VISCOELASTIC FILAMENT. <i>American Journal of Botany</i> , 1993, 80, 411-418.	1.7	4
62	Augmentation of root gravitropism by hypocotyl curvature in <i>Brassica rapa</i> seedlings. <i>Plant Science</i> , 2019, 285, 214-223.	3.6	4
63	“Flower Angel™: A New <i>Iris sanguinea</i> Cultivar. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2021, 56, 617-618.	1.0	4
64	Transcription Profile of Auxin Related Genes during Positively Gravitropic Hypocotyl Curvature of <i>Brassica rapa</i> . <i>Plants</i> , 2022, 11, 1191.	3.5	4
65	Gravisensing in flax roots “ results from STS-107. <i>Advances in Space Research</i> , 2005, 36, 1189-1195.	2.6	3
66	Cytoskeletal control of sperm release in <i>Chara contraria</i> . <i>Botanica Marina</i> , 2009, 52, 162-169.	1.2	3
67	Blueprints for Constructing Microgravity Analogs. <i>Methods in Molecular Biology</i> , 2022, 2368, 215-232.	0.9	3
68	Embryology of <i>Iris sanguinea</i> Donn ex Horn. and its systematic relationship. <i>Journal of Forestry Research</i> , 2019, 30, 2007-2020.	3.6	1
69	Biotechnology in Space: Challenges and Opportunities for Solid Phase Gene Extraction. <i>Current Biotechnology</i> , 2013, 2, 175-178.	0.4	1
70	A survey of autofluorescent patterns in the staminal connective base epidermis in 60 species of Asteraceae. <i>American Journal of Botany</i> , 1994, 81, 1119-1127.	1.7	0
71	The Cytoskeleton: Problems, Paradigms and Prospects. <i>Journal of Plant Growth Regulation</i> , 2000, 19, 369-370.	5.1	0
72	Response to commentary on “radiation effects of MeV protons on dry and hydrated <i>Brassica rapa</i> seeds” by Bevelacqua et al.. <i>Life Sciences in Space Research</i> , 2018, 19, 52.	2.3	0

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73	Use of High Gradient Magnetic Fields to Evaluate Gravity Perception and Response Mechanisms in Plants and Algae. <i>Methods in Molecular Biology</i> , 2015, 1309, 227-237.	0.9	0