Karl H Hasenstein

List of Publications by Year
in descending order

73	1,778	304743	289244
papers	citations	22 h-index	40 g-index

73	73	73	1935
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Blueprints for Constructing Microgravity Analogs. Methods in Molecular Biology, 2022, 2368, 215-232.	0.9	3
2	Transcription Profile of Auxin Related Genes during Positively Gravitropic Hypocotyl Curvature of Brassica rapa. Plants, 2022, 11, 1191.	3.5	4
3	â€˜Flower Angelâ€™: A New Iris sanguinea Cultivar. Hortscience: A Publication of the American Society for Hortcultural Science, 2021, 56, 617-618.	1.0	4
4	Plant biology for space exploration â€“ Building on the past, preparing for the future. Life Sciences in Space Research, 2021, 29, 1-7.	2.3	22
5	Space Flight Cultivation for Radish (Raphanus sativus) in the Advanced Plant Habitat. Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research, 2021, 9, 121-132.	0.8	5
6	Desiccation Mitigates Heat Stress in the Resurrection Fern, Pleopeltis polypodioides. Frontiers in Plant Science, 2020, 11, 597731.	3.6	8
7	Embryology of Iris sanguinea Donn ex Horn. and its systematic relationship. Journal of Forestry Research, 2019, 30, 2007-2020.	3.6	1
8	Augmentation of root gravitropism by hypocotyl curvature in Brassica rapa seedlings. Plant Science, 2019, 285, 214-223.	3.6	4
9	Status of the Louisiana accelerator center. AIP Conference Proceedings, 2019, , .	0.4	6
10	Comparison of Microgravity Analogs to Spaceflight in Studies of Plant Growth and Development. Frontiers in Plant Science, 2019, 10, 1577.	3.6	81
11	Response to commentary on â€œIrradiation effects of MeV protons on dry and hydrated Brassica rapa seedsâ€•by Bevelacqua etÂal.. Life Sciences in Space Research, 2018, 19, 52.	2.3	0
12	Biochemical responses of the desiccation-tolerant resurrection fern Pleopeltis polypodioides to dehydration and rehydration. Journal of Plant Physiology, 2018, 228, 12-18.	3.5	16
13	Tissue accumulation patterns and concentrations of potassium, phosphorus, and carboxyfluorescein translocated from pine seed to the root. Planta, 2018, 248, 393-407.	3.2	8
14	Irradiation effects of MeV protons on dry and hydrated Brassica rapa seeds. Life Sciences in Space Research, 2018, 19, 24-30.	2.3	10
15	Lab-on-a-chip mRNA purification and reverse transcription via a solid-phase gene extraction technique. Lab on A Chip, 2017, 17, 1128-1136.	6.0	16
16	The role of peltate scales in desiccation tolerance of Pleopeltis polypodioides. Planta, 2017, 245, 207-220.	3.2	19
17	Seed coat stomata of several Iris species. Flora: Morphology, Distribution, Functional Ecology of Plants, 2016, 224, 24-29.	1.2	5
18	Oxygen dependency of germinating Brassica seeds. Life Sciences in Space Research, 2016, 8, 30-37.	2.3	14

#	Article	IF	Citations
19	Hormone-Induced Gene Expression During Gravicurvature of Brassica Roots. Journal of Plant Growth Regulation, 2016, 35, 190-201.	5.1	8
20	Beware of Fixationâ€"It Might Affect Your Experiments. Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research, 2016, 4, 47-57.	0.8	5
21	Use of High Gradient Magnetic Fields to Evaluate Gravity Perception and Response Mechanisms in Plants and Algae. Methods in Molecular Biology, 2015, 1309, 227-237.	0.9	0
22	Profiling Gene Expression in Germinating Brassica Roots. Plant Molecular Biology Reporter, 2014, 32, 541-548.	1.8	11
23	Analysis of Magnetic Gradients to Study Gravitropism. American Journal of Botany, 2013, 100, 249-255.	1.7	16
24	Biotechnology in Space: Challenges and Opportunities for Solid Phase Gene Extraction. Current Biotechnology, 2013, 2, 175-178.	0.4	1
25	SSR markers linked to kernel weight and tiller number in sorghum identified by association mapping. Euphytica, 2012, 187, 401-410.	1.2	35
26	Transcriptome profiling characterizes phosphate deficiency effects on carbohydrate metabolism in rice leaves. Journal of Plant Physiology, 2012, 169, 193-205.	3.5	37
27	Effects of mechanostimulation on gravitropism and signal persistence in flax roots. Plant Signaling and Behavior, 2011, 6, 1365-1370.	2.4	11
28	Physiological interactions of antiauxins with auxin in roots. Journal of Plant Physiology, 2010, 167, 879-884.	3.5	13
29	Occurrence of a Cylindrospermopsis bloom in Louisiana. Journal of Great Lakes Research, 2010, 36, 458-464.	1.9	7
30	Involvement of actin and microtubules in regulation of bioluminescence and translocation of chloroplasts in the dinoflagellate Pyrocystis lunula. Botanica Marina, 2009, 52, 170-177.	1.2	6
31	Primary Root Growth Regulation: The Role of Auxin and Ethylene Antagonists. Journal of Plant Growth Regulation, 2009, 28, 309-320.	5.1	20
32	Invasion, Disturbance, and Competition: Modeling the Fate of Coastal Plant Populations. Conservation Biology, 2009, 23, 164-173.	4.7	39
33	Cytoskeletal control of sperm release in Chara contraria. Botanica Marina, 2009, 52, 162-169.	1.2	3
34	Studies on contact sex pheromones of the caridean shrimpPalaemonetes pugio: I. Cuticular hydrocarbons associated with mate recognition. Invertebrate Reproduction and Development, 2009, 53, 93-103.	0.8	21
35	Abscisic Acid Response of Corn (Zea mays L.) Roots and Protoplasts to Lanthanum. Journal of Plant Growth Regulation, 2008, 27, 19-25.	5.1	9
36	Osmolytes in salinity-stressed Iris hexagona. Acta Physiologiae Plantarum, 2008, 30, 715-721.	2.1	8

#	Article	IF	Citations
37	Auxin and cytoskeletal organization in algae. Cell Biology International, 2008, 32, 542-545.	3.0	22
38	Solid phase gene extraction isolates mRNA at high spatial and temporal resolution. BioTechniques, 2008, 45, 172-178.	1.8	9
39	N-Acylethanolamine Metabolism Interacts with Abscisic Acid Signaling inArabidopsis thalianaSeedlings. Plant Cell, 2007, 19, 2454-2469.	6.6	64
40	Anisotropic viscosity of the Chara (Characeae) rhizoid cytoplasm. American Journal of Botany, 2007, 94, 1930-1934.	1.7	15
41	Noise amplification of plant gravisensing. Advances in Space Research, 2007, 39, 1119-1126.	2.6	6
42	Moniliophthora perniciosaproduces hormones and alters endogenous auxin and salicylic acid in infected cocoa leaves. FEMS Microbiology Letters, 2007, 274, 238-244.	1.8	57
43	Growth and reproduction of a clonal plant in response to salinity and florivory. Wetlands, 2006, 26, 803-812.	1.5	20
44	The Onset of Gravisensitivity in the Embryonic Root of Flax. Plant Physiology, 2006, 140, 159-166.	4.8	42
45	Development and Pathogenicity of the Fungus Crinipellis perniciosa on Interaction with Cacao Leaves. Phytopathology, 2005, 95, 101-107.	2.2	22
46	Gravisensing in flax roots â€“ results from STS-107. Advances in Space Research, 2005, 36, 1189-1195.	2.6	3
47	La3+ uptake and its effect on the cytoskeleton in root protoplasts of Zea mays L.. Planta, 2005, 220, 658-666.	3.2	44
48	IRIS HEXAGONA HORMONAL RESPONSES TO SALINITY STRESS, LEAFMINER HERBIVORY, AND PHENOLOGY. Ecology, 2004, 85, 38-47.	3.2	26
49	Oxygen requirement of germinating flax seeds. Advances in Space Research, 2003, 31, 2211-2214.	2.6	6
50	Cell wall components affect mechanical properties: studies with thistle flowers. Plant Physiology and Biochemistry, 2003, 41, 792-797.	5.8	19
51	Positive and negative consequences of salinity stress for the growth and reproduction of the clonal plant,Iris hexagona. Journal of Ecology, 2003, 91, 837-846.	4.0	64
52	Germination and elongation of flax in microgravity. Advances in Space Research, 2003, 31, 2261-2268.	2.6	10
53	4,4,4-Trifluoro-3-(indole-3-)butyric acid promotes root elongation in Lactuca sativa independent of ethylene synthesis and pH. Physiologia Plantarum, 2002, 116, 383-388.	5.2	6
54	Biochemical analysis of elastic and rigid cuticles of Cirsium horridulum. Planta, 2001, 213, 841-848.	3.2	37

#	Article	IF	Citations
55	Intracellular magnetophoresis of statoliths in Chara rhizoids and analysis of cytoplasm viscoelasticity. Advances in Space Research, 2001, 27, 887-892.	2.6	11
56	Effects of salinity on endogenous ABA, IAA, JA, AND SA in Iris hexagona. Journal of Chemical Ecology, 2001, 27, 327-342.	1.8	234
57	Halogenated Auxins Affect Microtubules and Root Elongation in Lactuca sativa. Journal of Plant Growth Regulation, 2000, 19, 397-405.	5.1	15
58	The Cytoskeleton: Problems, Paradigms and Prospects. Journal of Plant Growth Regulation, 2000, 19, 369-370.	5.1	0
59	Distribution of Expansins in Graviresponding Maize Roots. Plant and Cell Physiology, 2000, 41, 1305-1312.	3.1	36
60	Curvature in Arabidopsis Inflorescence Stems Is Limited to the Region of Amyloplast Displacement. Plant and Cell Physiology, 2000, 41, 702-709.	3.1	79
61	The internal cuticle of Cirsium horridulum (Asteraceae) leaves. American Journal of Botany, 1999, 86, 923-928.	1.7	28
62	Curvature Induced by Amyloplast Magnetophoresis in Protonemata of the Moss Ceratodon purpureus1. Plant Physiology, 1999, 119, 645-650.	4.8	43
63	The response of lazy-2 tomato seedlings to curvature-inducing magnetic gradients is modulated by light. Planta, 1999, 208, 59-65.	3.2	27
64	Initiation and Elongation of Lateral Roots inLactuca sativa. International Journal of Plant Sciences, 1999, 160, 511-519.	1.3	46
65	Magnetophoretic induction of curvature in coleoptiles and hypocotyls. Journal of Experimental Botany, 1997, 48, 1951-1957.	4.8	62
66	Hormonal Changes after Compatible and Incompatible Pollination in Theobroma cacao L.. Hortscience: A Publication of the American Society for Hortcultural Science, 1997, 32, 1231-1234.	1.0	24
67	Purification and identification of ABA-binding proteins and antibody preparation. , 1996, 9, 722-727.		5
68	Intracellular magnetophoresis of amyloplasts and induction of root curvature. Planta, 1996, 198, 87-94.	3.2	133
69	Growth and Microtubule Orientation of Zea mays Roots Subjected to Osmotic Stress. International Journal of Plant Sciences, 1995, 156, 774-783.	1.3	57
70	A survey of autofluorescent patterns in the staminal connective base epidermis in 60 species of Asteraceae. American Journal of Botany, 1994, 81, 1119-1127.	1.7	0
71	THE CONNECTIVE BASE OF CIRSIUM HORRIDULUM (ASTERACEAE): DESCRIPTION AND COMPARISON WITH THE VISCOELASTIC FILAMENT. American Journal of Botany, 1993, 80, 411-418.	1.7	4
72	Effect of calmodulin antagonists on the growth and graviresponsiveness of primary roots of maize. Plant Growth Regulation, 1992, 11, 419-427.	3.4	13

#	Article	IF	Citations
73	The role of calcium in the regulation of hormone transport in gravistimulated roots. Advances in Space Research, 1992, 12, 211-218.	2.6	13