

# Karl J Kunert

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

1,967  
citations

304368

22  
h-index

253896

43  
g-index

45  
all docs

45  
docs citations

45  
times ranked

2520  
citing authors

#	ARTICLE	IF	CITATIONS
1	Loop replacement design: a new way to improve potency of plant cystatins. <i>FEBS Journal</i> , 2022, , .	2.2	3
2	Redox metabolism in soybean and its significance in nitrogen-fixing nodules. <i>Advances in Botanical Research</i> , 2022, , 177-209.	0.5	3
3	Drought and heat affect common bean minerals and human dietâ€”What we know and where to go. <i>Food and Energy Security</i> , 2022, 11, .	2.0	12
4	Papain-like cysteine proteases are required for the regulation of photosynthetic gene expression and acclimation to high light stress. <i>Journal of Experimental Botany</i> , 2021, 72, 3441-3454.	2.4	8
5	EMS Derived Wheat Mutant BIG8-1 ( <i>Triticum aestivum</i> L.)â€”A New Drought Tolerant Mutant Wheat Line. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5314.	1.8	9
6	Improvement of rhizobiumâ€™soybean symbiosis and nitrogen fixation under drought. <i>Food and Energy Security</i> , 2020, 9, e177.	2.0	28
7	Role of fixing nitrogen in common bean growth under water deficit conditions. <i>Food and Energy Security</i> , 2020, 9, e183.	2.0	7
8	In search for drought-tolerant soybean: is the slow-wilting phenotype more than just a curiosity?. <i>Journal of Experimental Botany</i> , 2020, 71, 457-460.	2.4	24
9	Defining biotechnological solutions for insect control in subâ€™Saharan Africa. <i>Food and Energy Security</i> , 2020, 9, e191.	2.0	23
10	Wheat Line â€™RYNO3936â€™Is Associated With Delayed Water Stress-Induced Leaf Senescence and Rapid Water-Deficit Stress Recovery. <i>Frontiers in Plant Science</i> , 2020, 11, 1053.	1.7	12
11	Factors facilitating sustainable scientific partnerships between developed and developing countries. <i>Outlook on Agriculture</i> , 2020, 49, 204-214.	1.8	7
12	Plant Vacuolar Processing Enzymes. <i>Frontiers in Plant Science</i> , 2019, 10, 479.	1.7	41
13	Expression of a Small Ubiquitin-Like Modifier Protease Increases Drought Tolerance in Wheat ( <i>Triticum aestivum</i> L.). <i>Frontiers in Plant Science</i> , 2019, 10, 266.	1.7	29
14	Development of marama bean, an orphan legume, as a crop. <i>Food and Energy Security</i> , 2019, 8, e00164.	2.0	14
15	Strigolactones positively regulate chilling tolerance in pea and in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2018, 41, 1298-1310.	2.8	69
16	Orphan Legumes Growing in Dry Environments: Marama Bean as a Case Study. <i>Frontiers in Plant Science</i> , 2018, 9, 1199.	1.7	23
17	Unlocking the potential of orphan legumes. <i>Journal of Experimental Botany</i> , 2017, 68, erw437.	2.4	69
18	Enhancing faba bean ( <i>Vicia faba</i> L.) genome resources. <i>Journal of Experimental Botany</i> , 2017, 68, 1941-1953.	2.4	37

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19	Cysteine proteases and wheat ( <i>Triticum aestivum</i> L) under drought: A still greatly unexplored association. <i>Plant, Cell and Environment</i> , 2017, 40, 1679-1690.	2.8	34
20	Drought Stress Responses in Soybean Roots and Nodules. <i>Frontiers in Plant Science</i> , 2016, 7, 1015.	1.7	152
21	Agroinfiltration contributes to VPI recombinant protein degradation. <i>Bioengineered</i> , 2016, 7, 459-477.	1.4	10
22	Neglecting legumes has compromised human health and sustainable food production. <i>Nature Plants</i> , 2016, 2, 16112.	4.7	529
23	Review: The future of cystatin engineering. <i>Plant Science</i> , 2016, 246, 119-127.	1.7	42
24	Commentary: Extracellular peptidase hunting for improvement of protein production in plant cells and roots. <i>Frontiers in Plant Science</i> , 2015, 6, 557.	1.7	0
25	Ectopic phytocystatin expression increases nodule numbers and influences the responses of soybean ( <i>Glycine max</i> ) to nitrogen deficiency. <i>Phytochemistry</i> , 2015, 112, 179-187.	1.4	18
26	Potential use of phytocystatins in crop improvement, with a particular focus on legumes. <i>Journal of Experimental Botany</i> , 2015, 66, 3559-3570.	2.4	48
27	Redox markers for drought-induced nodule senescence, a process occurring after drought-induced senescence of the lowest leaves in soybean ( <i>Glycine max</i> ). <i>Annals of Botany</i> , 2015, 116, 497-510.	1.4	59
28	From lateral root density to nodule number, the strigolactone analogue GR24 shapes the root architecture of <i>Medicago truncatula</i> . <i>Journal of Experimental Botany</i> , 2015, 66, 137-146.	2.4	97
29	Association of Nodule Performance Traits with Shoot Performance Traits of Common Bean Under Drought Stress. <i>Journal of Crop Improvement</i> , 2014, 28, 418-435.	0.9	3
30	Proteolysis of recombinant proteins in bioengineered plant cells. <i>Bioengineered</i> , 2014, 5, 15-20.	1.4	55
31	Evaluation of four Mozambican cowpea landraces for drought tolerance. <i>South African Journal of Plant and Soil</i> , 2014, 31, 87-91.	0.4	7
32	Ectopic phytocystatin expression leads to enhanced drought stress tolerance in soybean ( <i>Glycine max</i> ) and <i>Arabidopsis thaliana</i> through effects on strigolactone pathways and can also result in improved seed traits. <i>Plant Biotechnology Journal</i> , 2014, 12, 903-913.	4.1	61
33	Isolation, Characterization, and Expression of the Ricesd-1(GA20ox) Gene Ortholog in <i>Eragrostis tef</i> . <i>Journal of Crop Improvement</i> , 2013, 27, 507-527.	0.9	0
34	The Cysteine Proteaseâ€“Cysteine Protease Inhibitor System Explored in Soybean Nodule Development. <i>Agronomy</i> , 2013, 3, 550-570.	1.3	9
35	Gibberellin Biosynthesis Inhibitors Help Control Plant Height for Improving Lodging Resistance in <i>E. Tef</i> ( <i>Eragrostis tef</i> ). <i>Journal of Crop Improvement</i> , 2012, 26, 375-388.	0.9	9
36	Use of Transgenic Oryzacystatin-I-Expressing Plants Enhances Recombinant Protein Production. <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 1608-1620.	1.4	28

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37	Two Different Banana NPR1-Like Coding Sequences Confer Similar Protection Against Pathogens in Arabidopsis. <i>Tropical Plant Biology</i> , 2012, 5, 309-316.	1.0	5
38	Deleterious effects of plant cystatins against the banana weevil <i>Cosmopolites sordidus</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 2010, 73, 87-105.	0.6	21
39	Regulation of Respiration and the Oxygen Diffusion Barrier in Soybean Protect Symbiotic Nitrogen Fixation from Chilling-Induced Inhibition and Shoots from Premature Senescence. <i>Plant Physiology</i> , 2008, 148, 316-327.	2.3	29
40	A multicomponent, elicitor-inducible cystatin complex in tomato, <i>Solanum lycopersicum</i> . <i>New Phytologist</i> , 2007, 173, 841-851.	3.5	50
41	Genomic changes associated with somaclonal variation in banana ( <i>Musa</i> spp.). <i>Physiologia Plantarum</i> , 2007, 129, 766-774.	2.6	60
42	Modulating the proteinase inhibitory profile of a plant cystatin by single mutations at positively selected amino acid sites. <i>Plant Journal</i> , 2006, 48, 403-413.	2.8	43
43	Is photosynthetic transcriptional regulation in <i>Triticum aestivum</i> L. cv. 'TugelaDN' a contributing factor for tolerance to <i>Diuraphis noxia</i> (Homoptera: Aphididae)? <i>Plant Cell Reports</i> , 2006, 25, 41-54.	2.8	76
44	Oryzacystatin I expression in transformed tobacco produces a conditional growth phenotype and enhances chilling tolerance. <i>Plant Biotechnology Journal</i> , 2003, 1, 101-112.	4.1	98