Thomas Nietzel

List of Publications by Year
in descending order

13	985	759233 12	1125743 13
papers	citations	h-index	g-index

17	17	17	1337
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The fluorescent protein sensor ro<scp>GFP</scp>2â€Orp1 monitors inÂvivo H₂O₂ and thiol redox integration and elucidates intracellular H₂O₂ dynamics during elicitorâ€induced oxidative burst in Arabidopsis. New Phytologist, 2019, 221, 1649-1664.	7.3	132
2	ATP sensing in living plant cells reveals tissue gradients and stress dynamics of energy physiology. ELife, 2017, 6, .	6.0	125
3	Hydrogen Sulfide Increases Production of NADPH Oxidase-Dependent Hydrogen Peroxide and Phospholipase D-Derived Phosphatidic Acid in Guard Cell Signaling. Plant Physiology, 2018, 176, 2532-2542.	4.8	115
4	The EF-Hand Ca²⁺ Binding Protein MICU Choreographs Mitochondrial Ca²⁺ Dynamics in Arabidopsis. Plant Cell, 2015, 27, 3190-3212.	6.6	103
5	Redox-mediated kick-start of mitochondrial energy metabolism drives resource-efficient seed germination. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 741-751.	7.1	96
6	The mitochondrial monothiol glutaredoxin S15 is essential for iron-sulfur protein maturation in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13735-13740.	7.1	84
7	ATP compartmentation in plastids and cytosol of Arabidopsis thaliana revealed by fluorescent protein sensing. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10778-E10787.	7.1	72
8	Redox regulation of mitochondrial proteins and proteomes by cysteine thiol switches. Mitochondrion, 2017, 33, 72-83.	3.4	69
9	Multiparametric realâ€time sensing of cytosolic physiology links hypoxia responses to mitochondrial electron transport. New Phytologist, 2019, 224, 1668-1684.	7.3	69
10	Chloroplast-derived photo-oxidative stress causes changes in H2O2 and EGSH in other subcellular compartments. Plant Physiology, 2021, 186, 125-141.	4.8	65
11	Analysis of Plant Mitochondrial Function Using Fluorescent Protein Sensors. Methods in Molecular Biology, 2015, 1305, 241-252.	0.9	23
12	The Native Structure and Composition of the Cruciferin Complex in Brassica napus. Journal of Biological Chemistry, 2013, 288, 2238-2245.	3.4	20
13	Structure and Function of Redox-Sensitive Superfolder Green Fluorescent Protein Variant. Antioxidants and Redox Signaling, 2022, 37, 1-18.	5.4	5