

Thomas Nietzel

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

985
citations

759233

12
h-index

1125743

13
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17
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docs citations

17
times ranked

1337
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and Function of Redox-Sensitive Superfolder Green Fluorescent Protein Variant. <i>Antioxidants and Redox Signaling</i> , 2022, 37, 1-18.	5.4	5
2	Chloroplast-derived photo-oxidative stress causes changes in H ₂ O ₂ and GSH in other subcellular compartments. <i>Plant Physiology</i> , 2021, 186, 125-141.	4.8	65
3	Redox-mediated kick-start of mitochondrial energy metabolism drives resource-efficient seed germination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 741-751.	7.1	96
4	Multiparametric real-time sensing of cytosolic physiology links hypoxia responses to mitochondrial electron transport. <i>New Phytologist</i> , 2019, 224, 1668-1684.	7.3	69
5	The fluorescent protein sensor roGFP2-Orp1 monitors H ₂ O ₂ and thiol redox integration and elucidates intracellular H ₂ O ₂ dynamics during elicitor-induced oxidative burst in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2019, 221, 1649-1664.	7.3	132
6	Hydrogen Sulfide Increases Production of NADPH Oxidase-Dependent Hydrogen Peroxide and Phospholipase D-Derived Phosphatidic Acid in Guard Cell Signaling. <i>Plant Physiology</i> , 2018, 176, 2532-2542.	4.8	115
7	ATP compartmentation in plastids and cytosol of <i>Arabidopsis thaliana</i> revealed by fluorescent protein sensing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10778-E10787.	7.1	72
8	Redox regulation of mitochondrial proteins and proteomes by cysteine thiol switches. <i>Mitochondrion</i> , 2017, 33, 72-83.	3.4	69
9	ATP sensing in living plant cells reveals tissue gradients and stress dynamics of energy physiology. <i>ELife</i> , 2017, 6, .	6.0	125
10	The EF-Hand Ca ²⁺ Binding Protein MICU Choreographs Mitochondrial Ca ²⁺ Dynamics in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2015, 27, 3190-3212.	6.6	103
11	The mitochondrial monothiol glutaredoxin S15 is essential for iron-sulfur protein maturation in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13735-13740.	7.1	84
12	Analysis of Plant Mitochondrial Function Using Fluorescent Protein Sensors. <i>Methods in Molecular Biology</i> , 2015, 1305, 241-252.	0.9	23
13	The Native Structure and Composition of the Cruciferin Complex in <i>Brassica napus</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 2238-2245.	3.4	20