Jose Luis Crespo

List of Publications by Year
in descending order

52	13,321	126907	206112
papers	citations	33 h-index	48 g-index

54	54	54	24876
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photosynthetic assimilation of CO ₂ regulates TOR activity. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	17
2	Monitoring of ATG4 Protease Activity During Autophagy in the Model Microalga Chlamydomonas reinhardtii. Methods in Molecular Biology, 2022, 2447, 205-220.	0.9	1
3	The ATG4 protease integrates redox and stress signals to regulate autophagy. Journal of Experimental Botany, 2021, 72, 3340-3351.	4.8	15
4	Tudor staphylococcal nuclease is a docking platform for stress granule components and is essential for SnRK1 activation in Arabidopsis. EMBO Journal, 2021, 40, e105043.	7.8	37
5	Inositol polyphosphates and target of rapamycin kinase signalling govern photosystem II protein phosphorylation and photosynthetic function under light stress in Chlamydomonas. New Phytologist, 2021, 232, 2011-2025.	7.3	10
6	Phosphorus Availability Regulates TORC1 Signaling via LST8 in Chlamydomonas. Plant Cell, 2020, 32, 69-80.	6.6	43
7	Abscisic Acid-Triggered Persulfidation of the Cys Protease ATG4 Mediates Regulation of Autophagy by Sulfide. Plant Cell, 2020, 32, 3902-3920.	6.6	68
8	Investigating the effect of target of rapamycin kinase inhibition on the Chlamydomonas reinhardtii phosphoproteome: from known homologs to new targets. New Phytologist, 2019, 221, 247-260.	7.3	48
9	Dynamic Interactions between Autophagosomes and Lipid Droplets in Chlamydomonas reinhardtii. Cells, 2019, 8, 992.	4.1	23
10	Autophagy is activated and involved in cell death with participation of cathepsins during stress-induced microspore embryogenesis in barley. Journal of Experimental Botany, 2018, 69, 1387-1402.	4.8	56
11	Autophagic flux is required for the synthesis of triacylglycerols and ribosomal protein turnover in Chlamydomonas. Journal of Experimental Botany, 2018, 69, 1355-1367.	4.8	82
12	Chloroplast Damage Induced by the Inhibition of Fatty Acid Synthesis Triggers Autophagy in Chlamydomonas. Plant Physiology, 2018, 178, 1112-1129.	4.8	42
13	Birth of a Photosynthetic Chassis: A MoClo Toolkit Enabling Synthetic Biology in the Microalga Chlamydomonas reinhardtii. ACS Synthetic Biology, 2018, 7, 2074-2086.	3.8	225
14	The Ancient Phosphatidylinositol 3-Kinase Signaling System Is a Master Regulator of Energy and Carbon Metabolism in Algae. Plant Physiology, 2018, 177, 1050-1065.	4.8	16
15	Redox Control of Autophagy in Photosynthetic Organisms. Progress in Botany Fortschritte Der Botanik, 2017, , 75-88.	0.3	0
16	The TOR Signaling Network in the Model Unicellular Green Alga Chlamydomonas reinhardtii. Biomolecules, 2017, 7, 54.	4.0	61
17	Monitoring Autophagy in the Model Green Microalga Chlamydomonas reinhardtii. Cells, 2017, 6, 36.	4.1	30
18	Biochemical Analysis of Autophagy in Algae and Plants by Monitoring the Electrophoretic Mobility of ATG8. Methods in Molecular Biology, 2016, 1450, 151-159.	0.9	2

#	Article	IF	Citations
19	Control of Autophagy in Chlamydomonas Is Mediated through Redox-Dependent Inactivation of the ATG4 Protease. Plant Physiology, 2016, 172, 2219-2234.	4.8	60
20	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
21	Activation of Autophagy by Metals in Chlamydomonas reinhardtii. Eukaryotic Cell, 2015, 14, 964-973.	3.4	29
22	The yeast autophagy protease Atg4 is regulated by thioredoxin. Autophagy, 2014, 10, 1953-1964.	9.1	98
23	Autophagy in plants and algae. Frontiers in Plant Science, 2014, 5, 679.	3.6	20
24	Oxidative Stress Contributes to Autophagy Induction in Response to Endoplasmic Reticulum Stress in Chlamydomonas reinhardtii Â Â. Plant Physiology, 2014, 166, 997-1008.	4.8	77
25	Conditional Depletion of the Chlamydomonas Chloroplast ClpP Protease Activates Nuclear Genes Involved in Autophagy and Plastid Protein Quality Control. Plant Cell, 2014, 26, 2201-2222.	6.6	122
26	Autophagy in Algae. Perspectives in Phycology, 2014, 1, 93-101.	1.9	9
27	Sulfide as a signaling molecule in autophagy. Autophagy, 2013, 9, 609-611.	9.1	68
28	BiP links TOR signaling to ER stress in Chlamydomonas. Plant Signaling and Behavior, 2012, 7, 273-275.	2.4	9
29	Carotenoid deficiency triggers autophagy in the model green algaChlamydomonas reinhardtii. Autophagy, 2012, 8, 376-388.	9.1	85
30	Cysteine-Generated Sulfide in the Cytosol Negatively Regulates Autophagy and Modulates the Transcriptional Profile in Arabidopsis. Plant Cell, 2012, 24, 4621-4634.	6.6	188
31	Evidence for a Role of VIPP1 in the Structural Organization of the Photosynthetic Apparatus in Chlamydomonas. Plant Cell, 2012, 24, 637-659.	6.6	104
32	Reactive Oxygen Species and Autophagy in Plants and Algae. Plant Physiology, 2012, 160, 156-164.	4.8	217
33	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
34	Inhibition of Protein Synthesis by TOR Inactivation Revealed a Conserved Regulatory Mechanism of the BiP Chaperone in Chlamydomonas Â Â. Plant Physiology, 2011, 157, 730-741.	4.8	44
35	Inhibition of Target of Rapamycin Signaling and Stress Activate Autophagy in Chlamydomonas reinhardtii. Plant Physiology, 2010, 152, 1874-1888.	4.8	192
36	Elucidating TOR Signaling in Chlamydomonas reinhardtii. The Enzymes, 2010, , 245-261.	1.7	0

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37	Autophagy in the model algaChlamydomonas reinhardtii. Autophagy, 2010, 6, 562-563.	9.1	37
38	Rapamycin inhibits trypanosome cell growth by preventing TOR complex 2 formation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14579-14584.	7.1	121
39	Target of Rapamycin and LST8 Proteins Associate with Membranes from the Endoplasmic Reticulum in the Unicellular Green Alga Chlamydomonas reinhardtii. Eukaryotic Cell, 2008, 7, 212-222.	3.4	70
40	The role of TOR in autophagy regulation from yeast to plants and mammals. Autophagy, 2008, 4, 851-865.	9.1	348
41	Inhibition of Target of Rapamycin Signaling by Rapamycin in the Unicellular Green Alga Chlamydomonas reinhardtii. Plant Physiology, 2005, 139, 1736-1749.	4.8	152
42	NPR1 Kinase and RSP5-BUL1/2 Ubiquitin Ligase Control GLN3-dependent Transcription in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2004, 279, 37512-37517.	3.4	46
43	Quantitation of changes in protein phosphorylation: A simple method based on stable isotope labeling and mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 880-885.	7.1	128
44	Translational Control by Amino Acids and Energy. , 2003, , 299-303.		0
45	The TOR-controlled transcription activators GLN3, RTG1, and RTG3 are regulated in response to intracellular levels of glutamine. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6784-6789.	7.1	287
46	Elucidating TOR Signaling and Rapamycin Action: Lessons from Saccharomyces cerevisiae. Microbiology and Molecular Biology Reviews, 2002, 66, 579-591.	6.6	312
47	Two TOR Complexes, Only One of which Is Rapamycin Sensitive, Have Distinct Roles in Cell Growth Control. Molecular Cell, 2002, 10, 457-468.	9.7	1,685
48	Characterization of two thioredoxins h with predominant localization in the nucleus of aleurone and scutellum cells of germinating wheat seeds. Plant Molecular Biology, 2001, 46, 361-371.	3.9	72
49	The GATA Transcription Factors GLN3 and GAT1 Link TOR to Salt Stress in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2001, 276, 34441-34444.	3.4	84
50	Mutational analysis of Asp51 ofAnabaena azollaeglutamine synthetase.. FEBS Journal, 1999, 266, 1202-1209.	0.2	8
51	Nitrogen control of the glnN gene that codes for GS type III, the only glutamine synthetase in the cyanobacterium Pseudanabaena sp. PCC 6903. Molecular Microbiology, 1998, 30, 1101-1112.	2.5	29
52	Electron Transport Controls Glutamine Synthetase Activity in the Facultative Heterotrophic Cyanobacterium Synechocystis sp. PCC 6803. Plant Physiology, 1995, 109, 899-905.	4.8	20