

# Jose Luis Crespo

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

13,321  
citations

126907

33  
h-index

206112

48  
g-index

54  
all docs

54  
docs citations

54  
times ranked

24876  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
3	Two TOR Complexes, Only One of which Is Rapamycin Sensitive, Have Distinct Roles in Cell Growth Control. <i>Molecular Cell</i> , 2002, 10, 457-468.	9.7	1,685
4	The role of TOR in autophagy regulation from yeast to plants and mammals. <i>Autophagy</i> , 2008, 4, 851-865.	9.1	348
5	Elucidating TOR Signaling and Rapamycin Action: Lessons from <i>Saccharomyces cerevisiae</i> . <i>Microbiology and Molecular Biology Reviews</i> , 2002, 66, 579-591.	6.6	312
6	The TOR-controlled transcription activators GLN3, RTG1, and RTG3 are regulated in response to intracellular levels of glutamine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 6784-6789.	7.1	287
7	Birth of a Photosynthetic Chassis: A MoClo Toolkit Enabling Synthetic Biology in the Microalga <i>Chlamydomonas reinhardtii</i> . <i>ACS Synthetic Biology</i> , 2018, 7, 2074-2086.	3.8	225
8	Reactive Oxygen Species and Autophagy in Plants and Algae. <i>Plant Physiology</i> , 2012, 160, 156-164.	4.8	217
9	Inhibition of Target of Rapamycin Signaling and Stress Activate Autophagy in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2010, 152, 1874-1888.	4.8	192
10	Cysteine-Generated Sulfide in the Cytosol Negatively Regulates Autophagy and Modulates the Transcriptional Profile in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 4621-4634.	6.6	188
11	Inhibition of Target of Rapamycin Signaling by Rapamycin in the Unicellular Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2005, 139, 1736-1749.	4.8	152
12	Quantitation of changes in protein phosphorylation: A simple method based on stable isotope labeling and mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 880-885.	7.1	128
13	Conditional Depletion of the <i>Chlamydomonas</i> Chloroplast ClpP Protease Activates Nuclear Genes Involved in Autophagy and Plastid Protein Quality Control. <i>Plant Cell</i> , 2014, 26, 2201-2222.	6.6	122
14	Rapamycin inhibits trypanosome cell growth by preventing TOR complex 2 formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 14579-14584.	7.1	121
15	Evidence for a Role of VIPP1 in the Structural Organization of the Photosynthetic Apparatus in <i>Chlamydomonas</i> . <i>Plant Cell</i> , 2012, 24, 637-659.	6.6	104
16	The yeast autophagy protease Atg4 is regulated by thioredoxin. <i>Autophagy</i> , 2014, 10, 1953-1964.	9.1	98
17	Carotenoid deficiency triggers autophagy in the model green alga <i>Chlamydomonas reinhardtii</i> . <i>Autophagy</i> , 2012, 8, 376-388.	9.1	85
18	The GATA Transcription Factors GLN3 and GAT1 Link TOR to Salt Stress in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 34441-34444.	3.4	84

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19	Autophagic flux is required for the synthesis of triacylglycerols and ribosomal protein turnover in <i>Chlamydomonas</i> . <i>Journal of Experimental Botany</i> , 2018, 69, 1355-1367.	4.8	82
20	Oxidative Stress Contributes to Autophagy Induction in Response to Endoplasmic Reticulum Stress in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2014, 166, 997-1008.	4.8	77
21	Characterization of two thioredoxins h with predominant localization in the nucleus of aleurone and scutellum cells of germinating wheat seeds. <i>Plant Molecular Biology</i> , 2001, 46, 361-371.	3.9	72
22	Target of Rapamycin and LST8 Proteins Associate with Membranes from the Endoplasmic Reticulum in the Unicellular Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Eukaryotic Cell</i> , 2008, 7, 212-222.	3.4	70
23	Sulfide as a signaling molecule in autophagy. <i>Autophagy</i> , 2013, 9, 609-611.	9.1	68
24	Abscisic Acid-Triggered Persulfidation of the Cys Protease ATG4 Mediates Regulation of Autophagy by Sulfide. <i>Plant Cell</i> , 2020, 32, 3902-3920.	6.6	68
25	The TOR Signaling Network in the Model Unicellular Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Biomolecules</i> , 2017, 7, 54.	4.0	61
26	Control of Autophagy in <i>Chlamydomonas</i> Is Mediated through Redox-Dependent Inactivation of the ATG4 Protease. <i>Plant Physiology</i> , 2016, 172, 2219-2234.	4.8	60
27	Autophagy is activated and involved in cell death with participation of cathepsins during stress-induced microspore embryogenesis in barley. <i>Journal of Experimental Botany</i> , 2018, 69, 1387-1402.	4.8	56
28	Investigating the effect of target of rapamycin kinase inhibition on the <i>Chlamydomonas reinhardtii</i> phosphoproteome: from known homologs to new targets. <i>New Phytologist</i> , 2019, 221, 247-260.	7.3	48
29	NPR1 Kinase and RSP5-BUL1/2 Ubiquitin Ligase Control GLN3-dependent Transcription in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 37512-37517.	3.4	46
30	Inhibition of Protein Synthesis by TOR Inactivation Revealed a Conserved Regulatory Mechanism of the BiP Chaperone in <i>Chlamydomonas</i> . <i>Plant Physiology</i> , 2011, 157, 730-741.	4.8	44
31	Phosphorus Availability Regulates TORC1 Signaling via LST8 in <i>Chlamydomonas</i> . <i>Plant Cell</i> , 2020, 32, 69-80.	6.6	43
32	Chloroplast Damage Induced by the Inhibition of Fatty Acid Synthesis Triggers Autophagy in <i>Chlamydomonas</i> . <i>Plant Physiology</i> , 2018, 178, 1112-1129.	4.8	42
33	Autophagy in the model alga <i>Chlamydomonas reinhardtii</i> . <i>Autophagy</i> , 2010, 6, 562-563.	9.1	37
34	Tudor staphylococcal nuclease is a docking platform for stress granule components and is essential for SnRK1 activation in <i>Arabidopsis</i> . <i>EMBO Journal</i> , 2021, 40, e105043.	7.8	37
35	Monitoring Autophagy in the Model Green Microalga <i>Chlamydomonas reinhardtii</i> . <i>Cells</i> , 2017, 6, 36.	4.1	30
36	Nitrogen control of the <i>glnN</i> gene that codes for GS type III, the only glutamine synthetase in the cyanobacterium <i>Pseudanabaena</i> sp. PCC 6903. <i>Molecular Microbiology</i> , 1998, 30, 1101-1112.	2.5	29

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37	Activation of Autophagy by Metals in <i>Chlamydomonas reinhardtii</i> . <i>Eukaryotic Cell</i> , 2015, 14, 964-973.	3.4	29
38	Dynamic Interactions between Autophagosomes and Lipid Droplets in <i>Chlamydomonas reinhardtii</i> . <i>Cells</i> , 2019, 8, 992.	4.1	23
39	Electron Transport Controls Glutamine Synthetase Activity in the Facultative Heterotrophic Cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Plant Physiology</i> , 1995, 109, 899-905.	4.8	20
40	Autophagy in plants and algae. <i>Frontiers in Plant Science</i> , 2014, 5, 679.	3.6	20
41	Photosynthetic assimilation of CO <sub>2</sub> regulates TOR activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	17
42	The Ancient Phosphatidylinositol 3-Kinase Signaling System Is a Master Regulator of Energy and Carbon Metabolism in Algae. <i>Plant Physiology</i> , 2018, 177, 1050-1065.	4.8	16
43	The ATG4 protease integrates redox and stress signals to regulate autophagy. <i>Journal of Experimental Botany</i> , 2021, 72, 3340-3351.	4.8	15
44	Inositol polyphosphates and target of rapamycin kinase signalling govern photosystem II protein phosphorylation and photosynthetic function under light stress in <i>Chlamydomonas</i> . <i>New Phytologist</i> , 2021, 232, 2011-2025.	7.3	10
45	BiP links TOR signaling to ER stress in <i>Chlamydomonas</i> . <i>Plant Signaling and Behavior</i> , 2012, 7, 273-275.	2.4	9
46	Autophagy in Algae. <i>Perspectives in Phycology</i> , 2014, 1, 93-101.	1.9	9
47	Mutational analysis of Asp51 of <i>Anabaena azolla</i> glutamine synthetase. <i>FEBS Journal</i> , 1999, 266, 1202-1209.	0.2	8
48	Biochemical Analysis of Autophagy in Algae and Plants by Monitoring the Electrophoretic Mobility of ATG8. <i>Methods in Molecular Biology</i> , 2016, 1450, 151-159.	0.9	2
49	Monitoring of ATG4 Protease Activity During Autophagy in the Model Microalga <i>Chlamydomonas reinhardtii</i> . <i>Methods in Molecular Biology</i> , 2022, 2447, 205-220.	0.9	1
50	Elucidating TOR Signaling in <i>Chlamydomonas reinhardtii</i> . <i>The Enzymes</i> , 2010, , 245-261.	1.7	0
51	Redox Control of Autophagy in Photosynthetic Organisms. <i>Progress in Botany Fortschritte Der Botanik</i> , 2017, , 75-88.	0.3	0
52	Translational Control by Amino Acids and Energy. , 2003, , 299-303.		0