

# Cunyu Yan

## List of Publications by Year in descending order

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43  
papers

4,387  
citations

218677

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243625

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docs citations

45  
times ranked

6433  
citing authors

#	ARTICLE	IF	CITATIONS
1	D14â€“SCFD3-dependent degradation of D53 regulates strigolactone signalling. <i>Nature</i> , 2013, 504, 406-410.	27.8	669
2	DWARF27, an Iron-Containing Protein Required for the Biosynthesis of Strigolactones, Regulates Rice Tiller Bud Outgrowth. <i>Plant Cell</i> , 2009, 21, 1512-1525.	6.6	549
3	Overexpression of microRNA OsmiR397 improves rice yield by increasing grain size and promoting panicle branching. <i>Nature Biotechnology</i> , 2013, 31, 848-852.	17.5	401
4	A Small-Molecule Screen Identifies <i>scp1</i> -Kynurenine as a Competitive Inhibitor of TAA1/TAR Activity in Ethylene-Directed Auxin Biosynthesis and Root Growth in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2011, 23, 3944-3960.	6.6	364
5	Cryptochrome 1 interacts with PIF4 to regulate high temperature-mediated hypocotyl elongation in response to blue light. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 224-229.	7.1	332
6	Insights into salt tolerance from the genome of <i>Thellungiella salsuginea</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12219-12224.	7.1	272
7	<i>Pseudomonas syringae</i> Effector Protein AvrB Perturbs Arabidopsis Hormone Signaling by Activating MAP Kinase 4. <i>Cell Host and Microbe</i> , 2010, 7, 164-175.	11.0	178
8	Simple, Rapid, and Simultaneous Assay of Multiple Carboxyl Containing Phytohormones in Wounded Tomatoes by UPLC-MS/MS Using Single SPE Purification and Isotope Dilution. <i>Analytical Sciences</i> , 2012, 28, 1081-1087.	1.6	161
9	An automated Design-Build-Test-Learn pipeline for enhanced microbial production of fine chemicals. <i>Communications Biology</i> , 2018, 1, 66.	4.4	159
10	<i>Arabidopsis thaliana</i> plants differentially modulate auxin biosynthesis and transport during defense responses to the necrotrophic pathogen <i>Alternaria brassicicola</i> . <i>New Phytologist</i> , 2012, 195, 872-882.	7.3	107
11	Studies on the flavones using liquid chromatographyâ€“electrospray ionization tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2004, 1047, 213-220.	3.7	103
12	Machine Learning of Designed Translational Control Allows Predictive Pathway Optimization in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2019, 8, 127-136.	3.8	88
13	Activation of the Jasmonic Acid Pathway by Depletion of the Hydroperoxide Lyase OsHPL3 Reveals Crosstalk between the HPL and AOS Branches of the Oxylinin Pathway in Rice. <i>PLoS ONE</i> , 2012, 7, e50089.	2.5	83
14	Enzymatic Carboxylation of 2-Furoic Acid Yields 2,5-Furandicarboxylic Acid (FDCA). <i>ACS Catalysis</i> , 2019, 9, 2854-2865.	11.2	74
15	Expression Patterns of ABA and GA Metabolism Genes and Hormone Levels during Rice Seed Development and Imbibition: A Comparison of Dormant and Non-Dormant Rice Cultivars. <i>Journal of Genetics and Genomics</i> , 2014, 41, 327-338.	3.9	69
16	Progress in quantitative analysis of plant hormones. <i>Science Bulletin</i> , 2011, 56, 355-366.	1.7	65
17	Bioinformatics for the synthetic biology of natural products: integrating across the Designâ€“Buildâ€“Test cycle. <i>Natural Product Reports</i> , 2016, 33, 925-932.	10.3	58
18	An Improved Simplified High-Sensitivity Quantification Method for Determining Brassinosteroids in Different Tissues of Rice and Arabidopsis. <i>Plant Physiology</i> , 2013, 162, 2056-2066.	4.8	53

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19	Structural analyses of protoberberine alkaloids in medicine herbs by using ESI-FT-ICR-MS and HPLC-ESI-MSn. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 37, 437-446.	2.8	52
20	Studies on the flavones using liquid chromatography-electrospray ionization tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2004, 1047, 213-220.	3.7	49
21	Real-Time Screening of Biocatalysts in Live Bacterial Colonies. <i>Journal of the American Chemical Society</i> , 2017, 139, 1408-1411.	13.7	48
22	Rapid prototyping of microbial production strains for the biomanufacture of potential materials monomers. <i>Metabolic Engineering</i> , 2020, 60, 168-182.	7.0	48
23	Engineering <i>Escherichia coli</i> towards de novo production of gatekeeper (2S)-flavanones: naringenin, pinocembrin, eriodictyol and homoeriodictyol. <i>Synthetic Biology</i> , 2020, 5, ysaa012.	2.2	45
24	Highly multiplexed, fast and accurate nanopore sequencing for verification of synthetic DNA constructs and sequence libraries. <i>Synthetic Biology</i> , 2019, 4, ysz025.	2.2	35
25	Effects of Liuwei Dihuang decoction on ion channels and synaptic transmission in cultured hippocampal neuron of rat. <i>Journal of Ethnopharmacology</i> , 2006, 106, 166-172.	4.1	34
26	Mobilising ion mobility mass spectrometry for metabolomics. <i>Analyst, The</i> , 2018, 143, 4783-4788.	3.5	29
27	Investigation of heptakis(2,6-di-O-methyl)- $\beta$ -cyclodextrin inclusion complexes with flavonoid glycosides by electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 683-690.	1.5	27
28	Hijacking of the jasmonate pathway by the mycotoxin fumonisin B1 (FB1) to initiate programmed cell death in <i>Arabidopsis</i> is modulated by RGLG3 and RGLG4. <i>Journal of Experimental Botany</i> , 2015, 66, 2709-2721.	4.8	27
29	A dual role of boronate affinity in high-sensitivity detection of vicinal diol brassinosteroids from sub-gram plant tissues via UPLC-MS/MS. <i>Analyst, The</i> , 2013, 138, 1342.	3.5	23
30	An in-advance stable isotope labeling strategy for relative analysis of multiple acidic plant hormones in sub-milligram <i>Arabidopsis thaliana</i> seedling and a single seed. <i>Journal of Chromatography A</i> , 2014, 1338, 67-76.	3.7	23
31	Impacts of strigolactone on shoot branching under phosphate starvation in chrysanthemum ( <i>Dendranthema grandiflorum</i> cv. Jinba). <i>Frontiers in Plant Science</i> , 2015, 6, 694.	3.6	21
32	Differentiation of glucose-containing disaccharides isomers by fragmentation of the deprotonated non-covalent dimers using negative electrospray ionization tandem mass spectrometry. <i>Talanta</i> , 2013, 115, 870-875.	5.5	18
33	Structure of the <i>Cannabis sativa</i> olivetol-producing enzyme reveals cyclization plasticity in type III polyketide synthases. <i>FEBS Journal</i> , 2020, 287, 1511-1524.	4.7	18
34	A Comprehensive and Effective Mass Spectrometry-Based Screening Strategy for Discovery and Identification of New Brassinosteroids from Rice Tissues. <i>Frontiers in Plant Science</i> , 2016, 7, 1786.	3.6	13
35	Analysis of strychnos alkaloids using electrospray ionization Fourier transform ion cyclotron resonance multi-stage tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1335-1344.	1.5	12
36	A study of isomeric diglycosyl flavonoids by SORI CID of fourier transform ion cyclotron mass spectrometry in negative ion mode. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 2127-2136.	2.8	12

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37	Rapid and sensitive monitoring of biocatalytic reactions using ion mobility mass spectrometry. <i>Analyst</i> , 2016, 141, 2351-2355.	3.5	12
38	Study of field mobilities dependence and direct separation of acidic phytohormones by differential mobility spectrometry-mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2014, 362, 48-55.	1.5	8
39	SYNBIOCHEM—a SynBio foundry for the biosynthesis and sustainable production of fine and speciality chemicals. <i>Biochemical Society Transactions</i> , 2016, 44, 675-677.	3.4	7
40	Gas-phase chiral discrimination of ephedrine and pseudoephedrine associated with cyclodextrins. <i>Journal of Mass Spectrometry</i> , 2007, 42, 1106-1110.	1.6	5
41	Gas phase isomeric differentiation of oleanolic and ursolic acids associated with heptakis(2,6-di-O-methyl)-cyclodextrin by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2010, 45, 444-450.	1.6	4
42	Analysis of Norditerpenoid Alkaloids Extracted from <i>Aconitum sinomontanum</i> Nakai by Electrospray Ionization Tandem Mass Spectrometry. <i>Chemical Research in Chinese Universities</i> , 2006, 22, 343-346.	2.6	3
43	Prototyping of microbial chassis for the biomanufacturing of high-value chemical targets. <i>Biochemical Society Transactions</i> , 2021, 49, 1055-1063.	3.4	3