

# Heping Cao

## List of Publications by Year in descending order

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103  
papers

3,277  
citations

159585

30  
h-index

155660

55  
g-index

106  
all docs

106  
docs citations

106  
times ranked

3188  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cinnamon extract and polyphenols affect the expression of tristetraprolin, insulin receptor, and glucose transporter 4 in mouse 3T3-L1 adipocytes. Archives of Biochemistry and Biophysics, 2007, 459, 214-222.	3.0	234
2	Brittle-1, an Adenylate Translocator, Facilitates Transfer of Extraplastidial Synthesized ADP-Glucose into Amyloplasts of Maize Endosperms1. Plant Physiology, 1998, 117, 1235-1252.	4.8	208
3	Decreased Sensitivity of Tristetraprolin-deficient Cells to p38 Inhibitors Suggests the Involvement of Tristetraprolin in the p38 Signaling Pathway. Journal of Biological Chemistry, 2001, 276, 42580-42587.	3.4	174
4	Identification of the Soluble Starch Synthase Activities of Maize Endosperm1. Plant Physiology, 1999, 120, 205-216.	4.8	149
5	Green Tea Polyphenol Extract Regulates the Expression of Genes Involved in Glucose Uptake and Insulin Signaling in Rats Fed a High Fructose Diet. Journal of Agricultural and Food Chemistry, 2007, 55, 6372-6378.	5.2	122
6	Cinnamon Polyphenol Extract Affects Immune Responses by Regulating Anti- and Proinflammatory and Glucose Transporter Gene Expression in Mouse Macrophages , ,3. Journal of Nutrition, 2008, 138, 833-840.	2.9	121
7	Antidiabetic Potential of Purple and Red Rice (<i>Oryza sativa</i> L.) Bran Extracts. Journal of Agricultural and Food Chemistry, 2016, 64, 5345-5353.	5.2	114
8	Purification and Molecular Genetic Characterization of ZPU1, a Pullulanase-Type Starch-Debranching Enzyme from Maize1. Plant Physiology, 1999, 119, 255-266.	4.8	101
9	Structure-Function Analysis of Diacylglycerol Acyltransferase Sequences from 70 Organisms. BMC Research Notes, 2011, 4, 249.	1.4	99
10	Cinnamon extract regulates glucose transporter and insulin-signaling gene expression in mouse adipocytes. Phytomedicine, 2010, 17, 1027-1032.	5.3	98
11	Immunological Characterization of Tristetraprolin as a Low Abundance, Inducible, Stable Cytosolic Protein. Journal of Biological Chemistry, 2004, 279, 21489-21499.	3.4	91
12	Green tea increases anti-inflammatory tristetraprolin and decreases pro-inflammatory tumor necrosis factor mRNA levels in rats. Journal of Inflammation, 2007, 4, 1.	3.4	82
13	Comparison of TaqMan and SYBR Green qPCR Methods for Quantitative Gene Expression in Tung Tree Tissues. Journal of Agricultural and Food Chemistry, 2012, 60, 12296-12303.	5.2	81
14	Btl, a structural gene for the major 39-44 kDa amyloplast membrane polypeptides. Physiologia Plantarum, 1995, 95, 176-186.	5.2	78
15	Identification of the anti-inflammatory protein tristetraprolin as a hyperphosphorylated protein by mass spectrometry and site-directed mutagenesis. Biochemical Journal, 2006, 394, 285-297.	3.7	76
16	Expression and purification of recombinant tristetraprolin that can bind to tumor necrosis factor- $\beta$ mRNA and serve as a substrate for mitogen-activated protein kinases. Archives of Biochemistry and Biophysics, 2003, 412, 106-120.	3.0	74
17	Brassinosteroid-induced rice lamina joint inclination and its relation to indole-3-acetic acid and ethylene. Plant Growth Regulation, 1995, 16, 189-196.	3.4	72
18	Expression, Purification, and Biochemical Characterization of the Antiinflammatory Tristetraprolin: A Zinc-Dependent mRNA Binding Protein Affected by Posttranslational Modifications. Biochemistry, 2004, 43, 13724-13738.	2.5	68

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19	Purification and Characterization of Soluble Starch Synthases from Maize Endosperm. Archives of Biochemistry and Biophysics, 2000, 373, 135-146.	3.0	59
20	Evaluation of coordinated development of forestry management efficiency and forest ecological security: A spatiotemporal empirical study based on China's provinces. Journal of Cleaner Production, 2020, 260, 121042.	9.3	51
21	Developmental Regulation of Diacylglycerol Acyltransferase Family Gene Expression in Tung Tree Tissues. PLoS ONE, 2013, 8, e76946.	2.5	51
22	Phosphorylation site analysis of the anti-inflammatory and mRNA-destabilizing protein tristetraprolin. Expert Review of Proteomics, 2007, 4, 711-726.	3.0	47
23	Insulin Increases Tristetraprolin and Decreases VEGF Gene Expression in Mouse 3T3-L1 Adipocytes. Obesity, 2008, 16, 1208-1218.	3.0	46
24	Identification and Expression of Fructose-1,6-Bisphosphate Aldolase Genes and Their Relations to Oil Content in Developing Seeds of Tea Oil Tree ( <i>Camellia oleifera</i> ). PLoS ONE, 2014, 9, e107422.	2.5	44
25	Tung Tree ( <i>Vernicia fordii</i> ) Genome Provides A Resource for Understanding Genome Evolution and Improved Oil Production. Genomics, Proteomics and Bioinformatics, 2019, 17, 558-575.	6.9	43
26	Transcriptomic Identification and Expression of Starch and Sucrose Metabolism Genes in the Seeds of Chinese Chestnut ( <i>Castanea mollissima</i> ). Journal of Agricultural and Food Chemistry, 2015, 63, 929-942.	5.2	41
27	The complete chloroplast genome sequence of tung tree ( <i>Vernicia fordii</i> ): Organization and phylogenetic relationships with other angiosperms. Scientific Reports, 2017, 7, 1869.	3.3	38
28	Cinnamon Polyphenol Extract Regulates Tristetraprolin and Related Gene Expression in Mouse Adipocytes. Journal of Agricultural and Food Chemistry, 2011, 59, 2739-2744.	5.2	37
29	Effects of Vigorous Blending on Yield and Quality of Protein Isolates Extracted From Cottonseed and Soy Flours. Modern Applied Science, 2013, 7, .	0.6	34
30	Comprehensive Transcriptome Analysis of Phytohormone Biosynthesis and Signaling Genes in the Flowers of Chinese Chinquapin ( <i>Castanea henryi</i> ). Journal of Agricultural and Food Chemistry, 2017, 65, 10332-10349.	5.2	34
31	Glyceollins, Soy Isoflavone Phytoalexins, Improve Oral Glucose Disposal by Stimulating Glucose Uptake. Journal of Agricultural and Food Chemistry, 2012, 60, 6376-6382.	5.2	32
32	Molecular properties of the class III subfamily of acyl-coenzyme A binding proteins from tung tree ( <i>Vernicia fordii</i> ). Plant Science, 2013, 203-204, 79-88.	3.6	31
33	Isolation of Cottonseed Extracts That Affect Human Cancer Cell Growth. Scientific Reports, 2018, 8, 10458.	3.3	30
34	Evidence for essential arginine residues at the active sites of maize branching enzymes. The Protein Journal, 1996, 15, 291-304.	1.1	28
35	Intrinsic Fluorescence Excitation-Emission Matrix Spectral Features of Cottonseed Protein Fractions and the Effects of Denaturants. JAOCS, Journal of the American Oil Chemists' Society, 2014, 91, 1489-1497.	1.9	27
36	Development and analysis of a highly flexible multi-gene expression system for metabolic engineering in Arabidopsis seeds and other plant tissues. Plant Molecular Biology, 2015, 89, 113-126.	3.9	27

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37	A Transcript Profiling Approach Reveals an Abscisic Acid-Specific Glycosyltransferase (UGT73C14) Induced in Developing Fiber of Ligon lintless-2 Mutant of Cotton ( <i>Gossypium hirsutum</i> L.). <i>PLoS ONE</i> , 2013, 8, e75268.	2.5	27
38	BT1, a protein critical for in vivo starch accumulation in maize endosperm, is not detected in maize endosperm suspension cultures. <i>Physiologia Plantarum</i> , 1996, 97, 665-673.	5.2	26
39	Protein profiling of water and alkali soluble cottonseed protein isolates. <i>Scientific Reports</i> , 2018, 8, 9306.	3.3	24
40	BT1, a possible adenylate translocator, is developmentally expressed in maize endosperm but not detected in starchy tissues from several other species. <i>Physiologia Plantarum</i> , 1997, 100, 400-406.	5.2	23
41	Mutant tristetraprolin: a potent inhibitor of malignant glioma cell growth. <i>Journal of Neuro-Oncology</i> , 2013, 113, 195-205.	2.9	23
42	Effects of cooking methods on starch and sugar composition of sweetpotato storage roots. <i>PLoS ONE</i> , 2017, 12, e0182604.	2.5	23
43	Gossypol decreased cell viability and down-regulated the expression of a number of genes in human colon cancer cells. <i>Scientific Reports</i> , 2021, 11, 5922.	3.3	23
44	Fatty Acid Profile and Unigene-Derived Simple Sequence Repeat Markers in Tung Tree ( <i>Vernicia fordii</i> ). <i>PLoS ONE</i> , 2014, 9, e105298.	2.5	23
45	Expression of tung tree diacylglycerol acyltransferase 1 in <i>E. coli</i> . <i>BMC Biotechnology</i> , 2011, 11, 73.	3.3	20
46	Phosphorylation of Recombinant Tristetraprolin In Vitro. <i>Protein Journal</i> , 2008, 27, 163-169.	1.6	19
47	Expression and purification of recombinant tung tree diacylglycerol acyltransferase 2. <i>Applied Microbiology and Biotechnology</i> , 2012, 96, 711-727.	3.6	18
48	Identification, Classification and Differential Expression of Oleosin Genes in Tung Tree ( <i>Vernicia</i> ) Tj ETQqO 0 0 rgBT /Qoverlock 10 Tf 50 30	2.5	18
49	Characterization of Glycolytic Pathway Genes Using RNA-Seq in Developing Kernels of <i>Eucommia ulmoides</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 3712-3731.	5.2	17
50	A comparison of the transcriptomes between diploid and autotetraploid <i>Paulownia fortunei</i> under salt stress. <i>Physiology and Molecular Biology of Plants</i> , 2019, 25, 1-11.	3.1	16
51	Cottonseed Extracts and Gossypol Regulate Diacylglycerol Acyltransferase Gene Expression in Mouse Macrophages. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 6022-6030.	5.2	15
52	Quantitative PCR for glucose transporter and tristetraprolin family gene expression in cultured mouse adipocytes and macrophages. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2013, 49, 759-770.	1.5	13
53	Cinnamon Polyphenol Extract and Insulin Regulate Diacylglycerol Acyltransferase Gene Expression in Mouse Adipocytes and Macrophages. <i>Plant Foods for Human Nutrition</i> , 2019, 74, 115-121.	3.2	13
54	Regulation of Cell Viability and Anti-inflammatory Tristetraprolin Family Gene Expression in Mouse Macrophages by Cottonseed Extracts. <i>Scientific Reports</i> , 2020, 10, 775.	3.3	13

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55	Characterization of reference gene expression in tung tree ( <i>Vernicia fordii</i> ). <i>Industrial Crops and Products</i> , 2013, 50, 248-255.	5.2	12
56	Bt1, a structural gene for the major 39-44 kDa amyloplast membrane polypeptides. <i>Physiologia Plantarum</i> , 1995, 95, 176-186.	5.2	12
57	The red flower wintersweet genome provides insights into the evolution of magnoliids and the molecular mechanism for tepal color development. <i>Plant Journal</i> , 2021, 108, 1662-1678.	5.7	12
58	Effect of Gibberellin on Growth, Protein Secretion, and Starch Accumulation in Maize Endosperm Suspension Cells. <i>Journal of Plant Growth Regulation</i> , 1997, 16, 137-140.	5.1	11
59	Production and Characterization of ZFP36L1 Antiserum against Recombinant Protein from <i>Escherichia coli</i> . <i>Biotechnology Progress</i> , 2008, 24, 326-333.	2.6	11
60	Identification of a Major Phosphopeptide in Human Tristetraprolin by Phosphopeptide Mapping and Mass Spectrometry. <i>PLoS ONE</i> , 2014, 9, e100977.	2.5	11
61	Boosting C16 fatty acid biosynthesis of <i>Escherichia coli</i> , yeast and tobacco by tung tree ( <i>Vernicia</i> ) Tj ETQq1 1 0.784314 rgBT /Overload. <i>Journal of Functional Foods</i> , 2019, 127, 46-54.	5.2	11
62	Expression of a lipid-inducible, self-regulating form of <i>Yarrowia lipolytica</i> lipase LIP2 in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 92, 1207-1217.	3.6	10
63	Gossypol but not cottonseed extracts or lipopolysaccharides stimulates HuR gene expression in mouse cells. <i>Journal of Functional Foods</i> , 2019, 59, 25-29.	3.4	9
64	Quantitative evaluation of His-tag purification and immunoprecipitation of tristetraprolin and its mutant proteins from transfected human cells. <i>Biotechnology Progress</i> , 2009, 25, 461-467.	2.6	7
65	<i>Aspergillus flavus</i> growth and aflatoxin production as influenced by total lipid content during growth and development of cottonseed. <i>Journal of Crop Improvement</i> , 2017, 31, 91-99.	1.7	7
66	Cottonseed-derived gossypol and ethanol extracts differentially regulate cell viability and VEGF gene expression in mouse macrophages. <i>Scientific Reports</i> , 2021, 11, 15700.	3.3	7
67	Site-directed mutagenesis evidence for arginine-384 residue at the active site of maize branching enzyme II. <i>The Protein Journal</i> , 1999, 18, 379-386.	1.1	6
68	Identification of the major diacylglycerol acyltransferase mRNA in mouse adipocytes and macrophages. <i>BMC Biochemistry</i> , 2018, 19, 11.	4.4	6
69	Hormonal regulation of floret closure of rice ( <i>Oryza sativa</i> ). <i>PLoS ONE</i> , 2018, 13, e0198828.	2.5	6
70	Cyclopropane fatty acid biosynthesis in plants: phylogenetic and biochemical analysis of Litchi Kennedy pathway and acyl editing cycle genes. <i>Plant Cell Reports</i> , 2018, 37, 1571-1583.	5.6	5
71	Flower biology and ontogeny of the tung tree ( <i>Vernicia fordii</i> Hemsl.). <i>Trees - Structure and Function</i> , 2020, 34, 1363-1381.	1.9	5
72	The hepatoprotective effects of plant-based foods based on the "gut-liver axis": a prospective review. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 9136-9162.	10.3	5

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73	Characterization of a Soluble Phosphatidic Acid Phosphatase in Bitter Melon ( <i>Momordica charantia</i> ). PLoS ONE, 2014, 9, e106403.	2.5	4
74	Molecular cloning and expression profile of $\beta$ -ketoacyl- <i>acp</i> synthase gene from tung tree ( <i>Vernicia</i> ) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	0.4	4
75	BT1, a protein critical for in vivo starch accumulation in maize endosperm, is not detected in maize endosperm suspension cultures. <i>Physiologia Plantarum</i> , 1996, 97, 665-673.	5.2	3
76	Cottonseed extracts regulate gene expression in human colon cancer cells. <i>Scientific Reports</i> , 2022, 12, 1039.	3.3	3
77	BT1, a possible adenylate translocator, is developmentally expressed in maize endosperm but not detected in starchy tissues from several other species. <i>Physiologia Plantarum</i> , 1997, 100, 400-406.	5.2	2
78	Genome-Wide Analysis of Oleosin Gene Family in 22 Tree Species: An Accelerator for Metabolic Engineering of BioFuel Crops and Agrigenomics Industrial Applications?. <i>OMICS A Journal of Integrative Biology</i> , 2015, 19, 521-541.	2.0	2
79	DNA homologues in some species and expression patterns in cucumber organs of genes corresponding to cDNAs from carrot somatic embryogenesis cultures. <i>Journal of Plant Physiology</i> , 1996, 149, 69-72.	3.5	1
80	Cottonseed Ethanol Extracts and Gossypol Regulate Anti-Inflammatory Tristetraprolin Family Gene Expression in Mouse Cells. <i>Current Developments in Nutrition</i> , 2020, 4, nzaa045_007.	0.3	1
81	Cinnamon extract exhibits insulin-like and independent effects on gene expression in adipocytes. <i>FASEB Journal</i> , 2009, 23, 109.4.	0.5	1
82	Comparison of TaqMan and SYBR Green qPCR Methods for Quantitative Gene Expression in Animals. <i>FASEB Journal</i> , 2013, 27, 574.5.	0.5	1
83	Growth Factors, Cytokines, and Chemokines: Formulation, Delivery, and Pharmacokinetics. , 0, , 1197-1223.		0
84	Regulation of VEGF Gene Expression in Mouse Macrophages by Cottonseed Extracts, Gossypol and Lipopolysaccharides (P06-035-19). <i>Current Developments in Nutrition</i> , 2019, 3, nzz031.P06-035-19.	0.3	0
85	Gossypol but Not Cottonseed Extracts or Lipopolysaccharides Stimulates HuR Gene Expression in Mouse Macrophages (P06-071-19). <i>Current Developments in Nutrition</i> , 2019, 3, nzz031.P06-071-19.	0.3	0
86	Insulin and cinnamon polyphenols increase the amount of insulin receptor b, glucose transporter 4, and anti-inflammatory protein tristetraprolin in mouse 3T3L1 adipocytes. <i>FASEB Journal</i> , 2006, 20, A939.	0.5	0
87	Green tea increases the anti-inflammatory tristetraprolin and decreases the pro-inflammatory tumor necrosis factor mRNA levels in rats. <i>FASEB Journal</i> , 2007, 21, A165.	0.5	0
88	Insulin regulation of tristetraprolin family and some related gene expression in mouse 3T3L1 adipocytes. <i>FASEB Journal</i> , 2007, 21, A281.	0.5	0
89	Cinnamon affects immune responses by regulating anti- and pro-inflammatory gene expression and energy metabolism in macrophages. <i>FASEB Journal</i> , 2008, 22, 158.6.	0.5	0
90	Production and characterization of ZFP36L1 antiserum against recombinant protein from <i>Escherichia coli</i> . <i>FASEB Journal</i> , 2008, 22, 1003.7.	0.5	0

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91	Green tea increases insulin sensitivity and decreases brain oxidative stress in fructoseâ€fed rats. FASEB Journal, 2008, 22, 445.4.	0.5	0
92	Chromium regulation of multiple gene expression in rats with highâ€fructose dietâ€induced metabolic syndrome. FASEB Journal, 2009, 23, 726.2.	0.5	0
93	Evaluation of Hisâ€tag and immunoprecipitation procedures for recombinant protein purification. FASEB Journal, 2009, 23, 518.1.	0.5	0
94	Cinnamon and Immune Actions: Potential Role in Tristetraprolin-Mediated Inflammatory Diseases. , 2010, , 553-565.		0
95	Cinnamon extract increases tristetraprolin and decreases vascular endothelial growth factor gene expression in mouse adipocytes. FASEB Journal, 2010, 24, 335.3.	0.5	0
96	Expression profiles of genes coding for oil biosynthesis in developing Tung seeds. FASEB Journal, 2012, 26, 576.9.	0.5	0
97	Comparison of TaqMan and SYBR Green qPCR Methods for Quantitative Gene Expression in Plants. FASEB Journal, 2013, 27, 574.4.	0.5	0
98	Identification, classification and differential expression of oleosin genes in tung tree (605.3). FASEB Journal, 2014, 28, 605.3.	0.5	0
99	Identification of an Mg&lt;sup&gt;2+&lt;/sup&gt;-Independent Soluble Phosphatidate Phosphatase in Cottonseed (&lt;i&gt;Gossypium hirsutum L.&lt;/i&gt;). Advances in Biological Chemistry, 2016, 06, 169-179.	0.6	0
100	Cytotoxicity of ethanol extracts from glanded and glandless cottonseed in cultured mouse RAW macrophages. FASEB Journal, 2017, 31, 667.5.	0.5	0
101	Plant Polyphenol Extract Regulated Diacylglycerol Acyltransferase and Tristetraprolin Gene Expression in Cultured Mouse Cells. FASEB Journal, 2017, 31, .	0.5	0
102	Cottonseed Extracts and Gossypol Regulate Diacylglycerol Acyltransferase Gene Expression in Mouse Macrophages. FASEB Journal, 2018, 32, 826.8.	0.5	0
103	Identification of the Major Diacylglycerol Acyltransferase mRNA in Eukaryotic Cells. FASEB Journal, 2018, 32, 672.8.	0.5	0