

# Wei Gao

## List of Publications by Year in descending order

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104  
papers

3,555  
citations

159358

30  
h-index

161609

54  
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121  
all docs

121  
docs citations

121  
times ranked

3839  
citing authors

#	ARTICLE	IF	CITATIONS
1	Association Between Hypoxemia and Mortality in Patients With COVID-19. <i>Mayo Clinic Proceedings</i> , 2020, 95, 1138-1147.	1.4	390
2	Modular Pathway Engineering of Diterpenoid Synthases and the Mevalonic Acid Pathway for Miltiradiene Production. <i>Journal of the American Chemical Society</i> , 2012, 134, 3234-3241.	6.6	326
3	A Functional Genomics Approach to Tanshinone Biosynthesis Provides Stereochemical Insights. <i>Organic Letters</i> , 2009, 11, 5170-5173.	2.4	250
4	Combining metabolomics and transcriptomics to characterize tanshinone biosynthesis in <i>Salvia miltiorrhiza</i> . <i>BMC Genomics</i> , 2014, 15, 73.	1.2	165
5	Celastrol mediates autophagy and apoptosis via the ROS/JNK and Akt/mTOR signaling pathways in glioma cells. <i>Journal of Experimental and Clinical Cancer Research</i> , 2019, 38, 184.	3.5	133
6	Tanshinones, Critical Pharmacological Components in <i>Salvia miltiorrhiza</i> . <i>Frontiers in Pharmacology</i> , 2019, 10, 202.	1.6	129
7	Genome of <i>Tripterygium wilfordii</i> and identification of cytochrome P450 involved in triptolide biosynthesis. <i>Nature Communications</i> , 2020, 11, 971.	5.8	103
8	Celastrol Suppresses Glioma Vasculogenic Mimicry Formation and Angiogenesis by Blocking the PI3K/Akt/mTOR Signaling Pathway. <i>Frontiers in Pharmacology</i> , 2020, 11, 25.	1.6	81
9	Friedelane-type triterpene cyclase in celastrol biosynthesis from <i>Tripterygium wilfordii</i> and its application for triterpenes biosynthesis in yeast. <i>New Phytologist</i> , 2019, 223, 722-735.	3.5	80
10	A novel glucuronosyltransferase has an unprecedented ability to catalyse continuous two-step glucuronosylation of glycyrrhetic acid to yield glycyrrhizin. <i>New Phytologist</i> , 2016, 212, 123-135.	3.5	72
11	Engineering chimeric diterpene synthases and isoprenoid biosynthetic pathways enables high-level production of miltiradiene in yeast. <i>Metabolic Engineering</i> , 2020, 60, 87-96.	3.6	72
12	Research progress relating to the role of cytochrome P450 in the biosynthesis of terpenoids in medicinal plants. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 2371-2383.	1.7	67
13	RNA interference-mediated repression of SmCPS (copalyl diphosphate synthase) expression in hairy roots of <i>Salvia miltiorrhiza</i> causes a decrease of tanshinones and sheds light on the functional role of SmCPS. <i>Biotechnology Letters</i> , 2014, 36, 363-369.	1.1	64
14	Effects of Combined Elicitors on Tanshinone Metabolic Profiling and SmCPS Expression in <i>Salvia miltiorrhiza</i> Hairy Root Cultures. <i>Molecules</i> , 2013, 18, 7473-7485.	1.7	62
15	Triptolide: pharmacological spectrum, biosynthesis, chemical synthesis and derivatives. <i>Theranostics</i> , 2021, 11, 7199-7221.	4.6	57
16	Molecular Cloning and Characterization of DXS and DXR Genes in the Terpenoid Biosynthetic Pathway of <i>Tripterygium wilfordii</i> . <i>International Journal of Molecular Sciences</i> , 2015, 16, 25516-25535.	1.8	56
17	The chromosome-level reference genome assembly for <i>Panax notoginseng</i> and insights into ginsenoside biosynthesis. <i>Plant Communications</i> , 2021, 2, 100113.	3.6	54
18	Identification and functional characterization of diterpene synthases for triptolide biosynthesis from <i>Tripterygium wilfordii</i> . <i>Plant Journal</i> , 2018, 93, 50-65.	2.8	52

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19	Comparison Between Extracorporeal Shock Wave Lithotripsy and Ureteroscopic Lithotripsy for Treating Large Proximal Ureteral Stones: A Meta-analysis. <i>Urology</i> , 2015, 85, 748-756.	0.5	46
20	Hobnail variant of papillary thyroid carcinoma: molecular profiling and comparison to classical papillary thyroid carcinoma, poorly differentiated thyroid carcinoma and anaplastic thyroid carcinoma. <i>Oncotarget</i> , 2017, 8, 22023-22033.	0.8	46
21	Functional characterization of ent-copalyl diphosphate synthase, kaurene synthase and kaurene oxidase in the <i>Salvia miltiorrhiza</i> gibberellin biosynthetic pathway. <i>Scientific Reports</i> , 2016, 6, 23057.	1.6	45
22	Molecular Cloning and Characterisation of Farnesyl Pyrophosphate Synthase from <i>Tripterygium wilfordii</i> . <i>PLoS ONE</i> , 2015, 10, e0125415.	1.1	40
23	Biosynthesis, total synthesis, structural modifications, bioactivity, and mechanism of action of the quinone methide triterpenoid celastrol. <i>Medicinal Research Reviews</i> , 2021, 41, 1022-1060.	5.0	40
24	Characterization of eight terpenoids from tissue cultures of the Chinese herbal plant, <i>Tripterygium wilfordii</i> , by high performance liquid chromatography coupled with electrospray ionization tandem mass spectrometry. <i>Biomedical Chromatography</i> , 2014, 28, 1183-1192.	0.8	39
25	Recent progress and new perspectives for diterpenoid biosynthesis in medicinal plants. <i>Medicinal Research Reviews</i> , 2021, 41, 2971-2997.	5.0	39
26	Antimicrobial Resistance Analysis of Clinical <i>Escherichia coli</i> Isolates in Neonatal Ward. <i>Frontiers in Pediatrics</i> , 2021, 9, 670470.	0.9	39
27	Triptolide Induces Glioma Cell Autophagy and Apoptosis via Upregulating the ROS/JNK and Downregulating the Akt/mTOR Signaling Pathways. <i>Frontiers in Oncology</i> , 2019, 9, 387.	1.3	37
28	Melatonin functions in priming of stomatal immunity in <i>Panax notoginseng</i> and <i>Arabidopsis thaliana</i> . <i>Plant Physiology</i> , 2021, 187, 2837-2851.	2.3	37
29	Value of 18F-FDG PET/CT in differentiating malignancy of pulmonary artery from pulmonary thromboembolism: a cohort study and literature review. <i>International Journal of Cardiovascular Imaging</i> , 2019, 35, 1395-1403.	0.7	35
30	Cloning and Characterisation of the Gene Encoding 3-Hydroxy-3-Methylglutaryl-CoA Synthase in <i>Tripterygium wilfordii</i> . <i>Molecules</i> , 2014, 19, 19696-19707.	1.7	34
31	A cytochrome P450 monooxygenase responsible for the C-22 hydroxylation step in the Paris polyphylla steroidal saponin biosynthesis pathway. <i>Phytochemistry</i> , 2018, 156, 116-123.	1.4	29
32	Salidroside alleviated hypoxia-induced liver injury by inhibiting endoplasmic reticulum stress-mediated apoptosis via IRE1 $\alpha$ /JNK pathway. <i>Biochemical and Biophysical Research Communications</i> , 2020, 529, 335-340.	1.0	29
33	Molecular characteristics of the new emerging global clone ST1193 among clinical isolates of <i>Escherichia coli</i> from neonatal invasive infections in China. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2021, 40, 833-840.	1.3	27
34	Identification of geranylgeranyl diphosphate synthase genes from <i>Tripterygium wilfordii</i> . <i>Plant Cell Reports</i> , 2015, 34, 2179-2188.	2.8	25
35	Genetic Transformation System for Woody Plant <i>Tripterygium wilfordii</i> and Its Application to Product Natural Celastrol. <i>Frontiers in Plant Science</i> , 2017, 8, 2221.	1.7	25
36	Single-Use Versus Reusable Digital Flexible Ureteroscopes for the Treatment of Renal Calculi: A Prospective Multicenter Randomized Controlled Trial. <i>Journal of Endourology</i> , 2020, 34, 18-24.	1.1	24

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37	Probing the Single Key Amino Acid Responsible for the Novel Catalytic Function of ent-Kaurene Oxidase Supported by NADPH-Cytochrome P450 Reductases in <i>Tripterygium wilfordii</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 1756.	1.7	21
38	Glucosyltransferase Capable of Catalyzing the Last Step in Neoandrographolide Biosynthesis. <i>Organic Letters</i> , 2018, 20, 5999-6002.	2.4	20
39	Functional characterization of squalene epoxidase genes in the medicinal plant <i>Tripterygium wilfordii</i> . <i>International Journal of Biological Macromolecules</i> , 2018, 120, 203-212.	3.6	20
40	Identification and functional characterization of squalene epoxidases and oxidosqualene cyclases from <i>Tripterygium wilfordii</i> . <i>Plant Cell Reports</i> , 2020, 39, 409-418.	2.8	20
41	Molecular cloning and functional characterization of multiple geranylgeranyl pyrophosphate synthases (ApGGPPS) from <i>Andrographis paniculata</i> . <i>Plant Cell Reports</i> , 2019, 38, 117-128.	2.8	19
42	De novo biosynthesis of liquiritin in <i>Saccharomyces cerevisiae</i> . <i>Acta Pharmaceutica Sinica B</i> , 2020, 10, 711-721.	5.7	19
43	A novel strategy to enhance terpenoids production using cambial meristematic cells of <i>Tripterygium wilfordii</i> Hook. f.. <i>Plant Methods</i> , 2019, 15, 129.	1.9	18
44	Melatonin increases leaf disease resistance and saponin biosynthesis in <i>Panax notogiseng</i> . <i>Journal of Plant Physiology</i> , 2021, 263, 153466.	1.6	18
45	Phylogeographic and phylogenetic analysis for <i>Tripterygium</i> species delimitation. <i>Ecology and Evolution</i> , 2017, 7, 8612-8623.	0.8	16
46	Overexpression and RNA interference of TwDXR regulate the accumulation of terpenoid active ingredients in <i>Tripterygium wilfordii</i> . <i>Biotechnology Letters</i> , 2018, 40, 419-425.	1.1	16
47	MiR-1271 Inhibits Cell Growth in Prostate Cancer by Targeting ERG. <i>Pathology and Oncology Research</i> , 2018, 24, 385-391.	0.9	16
48	Rapid discovery and functional characterization of diterpene synthases from basidiomycete fungi by genome mining. <i>Fungal Genetics and Biology</i> , 2019, 128, 36-42.	0.9	16
49	Asymmetric Synthesis of C1-Chiral THIQs with Imines in Isoquinoline Rings. <i>Synthesis</i> , 2020, 52, 3337-3355.	1.2	15
50	Functional characterization of NES and GES responsible for the biosynthesis of (E)-nerolidol and (E,E)-geranylinalool in <i>Tripterygium wilfordii</i> . <i>Scientific Reports</i> , 2017, 7, 40851.	1.6	14
51	β-Lactamase production and antibiotic susceptibility pattern of <i>Moraxella catarrhalis</i> isolates collected from two county hospitals in China. <i>BMC Microbiology</i> , 2018, 18, 77.	1.3	14
52	Antibacterial triterpenoids from the leaves of <i>Ilex hainanensis</i> Merr.. <i>Natural Product Research</i> , 2019, 33, 2435-2439.	1.0	14
53	Online discovery of the molecular mechanism for directionally detoxification of Fuzi using real-time extractive electrospray ionization mass spectrometry. <i>Journal of Ethnopharmacology</i> , 2021, 277, 114216.	2.0	14
54	Extraction, Structures, Bioactivities and Structure-Function Analysis of the Polysaccharides From Safflower ( <i>Carthamus tinctorius</i> L.). <i>Frontiers in Pharmacology</i> , 2021, 12, 767947.	1.6	14

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55	Cloning and functional characterization of an isopentenyl diphosphate isomerase gene from <i>Tripterygium wilfordii</i> . <i>Biotechnology and Applied Biochemistry</i> , 2016, 63, 863-869.	1.4	13
56	Molecular cloning and functional identification of a cDNA encoding 4-hydroxy-3-methylbut-2-enyl diphosphate reductase from <i>Tripterygium wilfordii</i> . <i>Acta Pharmaceutica Sinica B</i> , 2017, 7, 208-214.	5.7	13
57	A Novel Method for Automatic Identification of Breathing State. <i>Scientific Reports</i> , 2019, 9, 103.	1.6	13
58	Functional significance of post-myocardial infarction inflammation evaluated by 18F-fluorodeoxyglucose imaging in swine model. <i>Journal of Nuclear Cardiology</i> , 2020, 27, 519-531.	1.4	13
59	The expression of TwDXS in the MEP pathway specifically affects the accumulation of triptolide. <i>Physiologia Plantarum</i> , 2020, 169, 40-48.	2.6	13
60	The MVA pathway genes expressions and accumulation of celastrol in <i>Tripterygium wilfordii</i> suspension cells in response to methyl jasmonate treatment. <i>Journal of Asian Natural Products Research</i> , 2016, 18, 619-628.	0.7	12
61	A cycloartenol synthase from the steroidal saponin biosynthesis pathway of <i>Paris polyphylla</i> . <i>Journal of Asian Natural Products Research</i> , 2021, 23, 353-362.	0.7	12
62	Metabolic Engineering of <i>Saccharomyces cerevisiae</i> for High-Level Friedelin via Genetic Manipulation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 805429.	2.0	12
63	Molecular cloning and functional identification of sterol C24-methyltransferase gene from <i>Tripterygium wilfordii</i> . <i>Acta Pharmaceutica Sinica B</i> , 2017, 7, 603-609.	5.7	11
64	The gibberellin 13-oxidase that specifically converts gibberellin A9 to A20 in <i>Tripterygium wilfordii</i> is a 2-oxoglutarate-dependent dioxygenase. <i>Planta</i> , 2019, 250, 1613-1620.	1.6	11
65	Value of 18F-fluorodeoxyglucose positron emission tomography/computed tomography in the evaluation of pulmonary artery activity in patients with Takayasu's arteritis. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 541-550.	0.5	11
66	Biosynthesis of paclitaxel using synthetic biology. <i>Phytochemistry Reviews</i> , 2022, 21, 863-877.	3.1	11
67	Functional Analysis of the Isopentenyl Diphosphate Isomerase of <i>Salvia miltiorrhiza</i> via Color Complementation and RNA Interference. <i>Molecules</i> , 2015, 20, 20206-20218.	1.7	10
68	A multifunctional oxidosqualene cyclase from <i>Tripterygium regelii</i> that produces both $\beta$ - and $\gamma$ -amyrin. <i>RSC Advances</i> , 2018, 8, 23516-23521.	1.7	10
69	Eudesmane-type sesquiterpene diols directly synthesized by a sesquiterpene cyclase in <i>Tripterygium wilfordii</i> . <i>Biochemical Journal</i> , 2018, 475, 2713-2725.	1.7	10
70	Analysis of the role of geranylgeranyl diphosphate synthase 8 from <i>Tripterygium wilfordii</i> in diterpenoids biosynthesis. <i>Plant Science</i> , 2019, 285, 184-192.	1.7	10
71	The Resonance and the Allium ureteral stents in the treatment of non-malignant refractory ureterostenosis. <i>BMC Urology</i> , 2021, 21, 53.	0.6	10
72	Probing the functions of friedelane-type triterpene cyclases from four celastrol-producing plants. <i>Plant Journal</i> , 2022, 109, 555-567.	2.8	10

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73	Overexpression and RNAi-mediated downregulation of TwIDI regulates triptolide and celastrol accumulation in <i>Tripterygium wilfordii</i> . <i>Gene</i> , 2018, 679, 195-201.	1.0	9
74	A specific UDP-glucosyltransferase catalyzes the formation of triptophenolide glucoside from <i>Tripterygium wilfordii</i> Hook. f.. <i>Phytochemistry</i> , 2019, 166, 112062.	1.4	9
75	Functional characterization of three flavonoid glycosyltransferases from <i>Andrographis paniculata</i> . <i>Royal Society Open Science</i> , 2019, 6, 190150.	1.1	9
76	Key Glycosyltransferase Genes of <i>Panax notoginseng</i> : Identification and Engineering Yeast Construction of Rare Ginsenosides. <i>ACS Synthetic Biology</i> , 2022, 11, 2394-2404.	1.9	9
77	Cloning and functional analysis of two sterol-C24-methyltransferase 1 ( <i>SMT1</i> ) genes from <i>Paris polyphylla</i> . <i>Journal of Asian Natural Products Research</i> , 2018, 20, 595-604.	0.7	8
78	Risk factors for cholesterol polyp formation in the gallbladder are closely related to lipid metabolism. <i>Lipids in Health and Disease</i> , 2021, 20, 26.	1.2	8
79	Hypervirulent <i>Klebsiella pneumoniae</i> Infections in Pediatric Populations in Beijing (2017-2019). <i>Pediatric Infectious Disease Journal</i> , 2021, 40, 1059-1063.	1.1	8
80	Cytochrome P450 catalyses the 29-carboxyl group formation of celastrol. <i>Phytochemistry</i> , 2021, 190, 112868.	1.4	8
81	A cytochrome P450 CYP81AM1 from <i>Tripterygium wilfordii</i> catalyses the C-15 hydroxylation of dehydroabietic acid. <i>Planta</i> , 2021, 254, 95.	1.6	8
82	Cytochrome P450s in plant terpenoid biosynthesis: discovery, characterization and metabolic engineering. <i>Critical Reviews in Biotechnology</i> , 2023, 43, 1-21.	5.1	8
83	Desymmetrization Process by Mg(II)-Catalyzed Intramolecular Vinylogous Michael Reaction. <i>Organic Letters</i> , 2020, 22, 9229-9233.	2.4	7
84	Undifferentiated colonic neoplasm with SMARCA4 germline gene mutation and loss of SMARCA4 protein expression: a case report and literature review. <i>Diagnostic Pathology</i> , 2021, 16, 30.	0.9	7
85	Identification of traditional Chinese medicinal pipefish and exclusion of common adulterants by multiplex PCR based on 12S sequences of specific alleles. <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2018, 29, 340-346.	0.7	6
86	Differential expression of the TwHMGS gene and its effect on triptolide biosynthesis in <i>Tripterygium wilfordii</i> . <i>Chinese Journal of Natural Medicines</i> , 2019, 17, 575-584.	0.7	6
87	Development and evaluation of a training model for paracentetic suprapubic cystostomy and catheterization. <i>Clinics</i> , 2019, 74, e435.	0.6	6
88	An integrated strategy to identify genes responsible for sesquiterpene biosynthesis in turmeric. <i>Plant Molecular Biology</i> , 2019, 101, 221-234.	2.0	5
89	Multiple cardiovascular involvements in Behçet's disease: unique utility of 18F-FDG PET/CT in diagnosis and follow-up. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 2210-2211.	3.3	5
90	Molecular cloning and functional characterization of multiple ApOSCs from <i>Andrographis paniculata</i> . <i>Chinese Journal of Natural Medicines</i> , 2020, 18, 659-665.	0.7	5

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91	Benign giant-cell tumor of the common bile duct: A case report. World Journal of Gastroenterology, 2014, 20, 15448.	1.4	5
92	Investigating the Catalytic Activity of Glycosyltransferase on Quercetin from <i>Tripterygium wilfordii</i> . ACS Omega, 2020, 5, 1414-1421.	1.6	5
93	Diterpene synthases from <i>Leonurus japonicus</i> elucidate epoxy-bridge formation of spiro-labdane diterpenoids. Plant Physiology, 2022, 189, 99-111.	2.3	5
94	Mechanistic analysis for the origin of diverse diterpenes in <i>Tripterygium wilfordii</i> . Acta Pharmaceutica Sinica B, 2022, 12, 2923-2933.	5.7	4
95	Functional characterization and substrate promiscuity of sesquiterpene synthases from <i>Tripterygium wilfordii</i> . International Journal of Biological Macromolecules, 2021, 185, 949-958.	3.6	3
96	Serotype distribution, antibiotic resistance patterns and molecular characteristics of serogroup 6 <i>Streptococcus pneumoniae</i> isolates collected from Chinese children before the introduction of PCV13. Journal of Global Antimicrobial Resistance, 2018, 14, 23-28.	0.9	2
97	Papillary Glioneuronal Tumor with an Excessive Angiomatous Component in an Elderly Man. Chinese Medical Journal, 2018, 131, 243-244.	0.9	2
98	Isolation and characterization of a glycosyltransferase with specific catalytic activity towards flavonoids from <i>Tripterygium wilfordii</i> . Journal of Asian Natural Products Research, 2020, 22, 537-546.	0.7	2
99	Identification of a flavonoid 7-O-glucosyltransferase from <i>Andrographis paniculata</i> . Journal of Asian Natural Products Research, 2020, 22, 279-286.	0.7	2
100	Correlation analysis of physicochemical properties with anti-inflammatory activity of <i>Andrographis paniculata</i> (Burm.f.) Nees based on HPLC-DAD, colorimeter and multivariate statistics: A comprehensive quality evaluation strategy. Journal of Pharmaceutical and Biomedical Analysis, 2022, 210, 114565.	1.4	2
101	Overexpression of TwSQS, TwSE, and TwOSC Regulates Celastrol Accumulation in Cambial Meristematic Cells and Dedifferentiated Cells. Frontiers in Plant Science, 0, 13, .	1.7	1
102	Probing the function of protein farnesyltransferase in <i>Tripterygium wilfordii</i> . Plant Cell Reports, 2019, 38, 211-220.	2.8	0
103	Genes functional identification and synthetic biology of natural products. Chinese Journal of Natural Medicines, 2020, 18, 641-642.	0.7	0
104	Metallic ureteral stent in restoring kidney function: Nine case reports. World Journal of Clinical Cases, 2020, 8, 2841-2848.	0.3	0