

# Yong-Hua Yang

## List of Publications by Year in descending order

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107  
papers

2,228  
citations

257450

24  
h-index

289244

40  
g-index

109  
all docs

109  
docs citations

109  
times ranked

2806  
citing authors

#	ARTICLE	IF	CITATIONS
1	Excess copper promotes catabolic activity of gram-positive bacteria and resistance of gram-negative bacteria but inhibits fungal community in soil. <i>Environmental Science and Pollution Research</i> , 2022, 29, 22602-22612.	5.3	2
2	Shikonin N-benzyl matricin acid ester derivatives as novel telomerase inhibitors with potent activity against lung cancer cell lines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022, 57, 128503.	2.2	7
3	Overexpression of a putative 12-oxophytodienoate reductase gene, EpOPR1, enhances acetylshikonin production in <i>Echium plantagineum</i> . <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2022, 58, 311-320.	2.1	3
4	Anti-microbial efficacy, mechanisms and druggability evaluation of the natural flavonoids. <i>Journal of Applied Microbiology</i> , 2022, 133, 1975-1988.	3.1	6
5	Cloning and functional analysis of EpGHQH1 in shikonin production of <i>Echium plantagineum</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 144, 533-543.	2.3	6
6	Differential relieving effects of shikonin and its derivatives on inflammation and mucosal barrier damage caused by ulcerative colitis. <i>PeerJ</i> , 2021, 9, e10675.	2.0	13
7	One pot synthesis of aryl nitriles from aromatic aldehydes in a water environment. <i>RSC Advances</i> , 2021, 11, 24232-24237.	3.6	4
8	Differential microbial assemblages associated with shikonin-producing Borage species in two distinct soil types. <i>Scientific Reports</i> , 2021, 11, 10788.	3.3	8
9	Assessment of shikonin and acetyl-shikonin for mitigating quorum sensing potential of <i>C. violaceum</i> . <i>Plant Growth Regulation</i> , 2021, 94, 233-243.	3.4	1
10	Aux/IAA and ARF Gene Families in <i>Salix suchowensis</i> : Identification, Evolution, and Dynamic Transcriptome Profiling During the Plant Growth Process. <i>Frontiers in Plant Science</i> , 2021, 12, 666310.	3.6	12
11	Design, synthesis and biological evaluation of anilide (dicarboxylic acid) shikonin esters as antitumor agents through targeting PI3K/Akt/mTOR signaling pathway. <i>Bioorganic Chemistry</i> , 2021, 111, 104872.	4.1	14
12	Deciphering the rhizobacterial assemblages under the influence of genetically engineered maize carrying mcrY genes. <i>Environmental Science and Pollution Research</i> , 2021, 28, 60154-60166.	5.3	2
13	Functional modulation of an aquaporin to intensify photosynthesis and abrogate bacterial virulence in rice. <i>Plant Journal</i> , 2021, 108, 330-346.	5.7	10
14	SbNAC2 enhances abiotic stress tolerance by upregulating ROS scavenging activities and inducing stress-response genes in sorghum. <i>Environmental and Experimental Botany</i> , 2021, 192, 104664.	4.2	7
15	Differential Assembly and Shifts of the Rhizosphere Bacterial Community by a Dual Transgenic Glyphosate-Tolerant Soybean Line with and without Glyphosate Application. <i>Horticulturae</i> , 2021, 7, 374.	2.8	4
16	OUP accepted manuscript. <i>Tree Physiology</i> , 2021, , .	3.1	2
17	Progress on biosynthesis and function of the natural products of Zi Cao as a traditional Chinese medicinal herb. <i>Yi Chuan = Hereditas / Zhongguo Yi Chuan Xue Hui Bian Ji</i> , 2021, 43, 459-472.	0.2	2
18	Bacterial composition, function and the enrichment of plant growth promoting rhizobacteria (PGPR) in differential rhizosphere compartments of Al-tolerant soybean in acidic soil. <i>Yi Chuan = Hereditas / Zhongguo Yi Chuan Xue Hui Bian Ji</i> , 2021, 43, 487-500.	0.2	0

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19	Identification of Genes Underlying the Resistance to <i>Melampsora larici-populina</i> in an <i>R</i> Gene Supercluster of the <i>Populus deltoides</i> Genome. <i>Plant Disease</i> , 2020, 104, 1133-1143.	1.4	6
20	Establishment of the hairy root culture of <i>Echium plantagineum</i> L. and its shikonin production. <i>3 Biotech</i> , 2020, 10, 429.	2.2	11
21	Discovering Podophyllotoxin Derivatives as Potential Anti-Tubulin Agents: Design, Synthesis and Biological Evaluation. <i>ChemistrySelect</i> , 2020, 5, 10526-10536.	1.5	3
22	The chromosome-scale assembly of the willow genome provides insight into Salicaceae genome evolution. <i>Horticulture Research</i> , 2020, 7, 45.	6.3	35
23	Shikonin and 4-hydroxytamoxifen synergistically inhibit the proliferation of breast cancer cells through activating apoptosis signaling pathway in vitro and in vivo. <i>Chinese Medicine</i> , 2020, 15, 23.	4.0	20
24	SbWRKY30 enhances the drought tolerance of plants and regulates a drought stress-responsive gene, SbRD19, in sorghum. <i>Journal of Plant Physiology</i> , 2020, 246-247, 153142.	3.5	54
25	Assembly and shifts of the bacterial rhizobiome of field grown transgenic maize line carrying <i>mcr1Ab</i> and <i>mcr2Ab</i> genes at different developmental stages. <i>Plant Growth Regulation</i> , 2020, 91, 113-126.	3.4	8
26	Changes of microbial functional capacities in the rhizosphere contribute to aluminum tolerance by genotype-specific soybeans in acid soils. <i>Biology and Fertility of Soils</i> , 2020, 56, 771-783.	4.3	13
27	Differential Impacts on Bacterial Composition and Abundance in Rhizosphere Compartments between Al-Tolerant and Al-Sensitive Soybean Genotypes in Acidic Soil. <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 1169-1179.	2.1	5
28	Impact of a <i>G2-EPSPS</i> & <i>GAT</i> Dual Transgenic Glyphosate-Resistant Soybean Line on the Soil Microbial Community under Field Conditions Affected by Glyphosate Application. <i>Microbes and Environments</i> , 2020, 35, n/a.	1.6	8
29	Enrichments/Deenrichments of Root-Associated Bacteria Related to Plant Growth and Nutrition Caused by the Growth of an EPSPS-Transgenic Maize Line in the Field. <i>Frontiers in Microbiology</i> , 2019, 10, 1335.	3.5	18
30	A Defective Vacuolar Proton Pump Enhances Aluminum Tolerance by Reducing Vacuole Sequestration of Organic Acids. <i>Plant Physiology</i> , 2019, 181, 743-761.	4.8	22
31	Design, synthesis and biological evaluation of benzoylacrylic acid shikonin ester derivatives as irreversible dual inhibitors of tubulin and EGFR. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 115153.	3.0	16
32	Heterologous overexpression of <i>Lithospermum erythrorhizon</i> LeERF-1 gene increases drought and pathogen resistance in <i>Arabidopsis</i> . <i>Acta Physiologiae Plantarum</i> , 2019, 41, 1.	2.1	3
33	Trimming of N-Glycans by the Golgi-Localized $\alpha$ -1,2-Mannosidases, MNS1 and MNS2, Is Crucial for Maintaining RSW2 Protein Abundance during Salt Stress in <i>Arabidopsis</i> . <i>Molecular Plant</i> , 2018, 11, 678-690.	8.3	49
34	Design, synthesis and anti-cancer evaluation of novel podophyllotoxin derivatives as potent tubulin-targeting agents. <i>Medicinal Chemistry Research</i> , 2018, 27, 351-365.	2.4	5
35	Design and characterization of $\alpha$ -lipoic acyl shikonin ester twin drugs as tubulin and PDK1 dual inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2018, 144, 137-150.	5.5	32
36	Glyphosate application increased catabolic activity of gram-negative bacteria but impaired soil fungal community. <i>Environmental Science and Pollution Research</i> , 2018, 25, 14762-14772.	5.3	16

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37	Involvement of LeMRP, an ATP-binding cassette transporter, in shikonin transport and biosynthesis in <i>Lithospermum erythrorhizon</i> . <i>Plant Biology</i> , 2018, 20, 365-373.	3.8	10
38	The evaluation of potent antitumor activities of shikonin coumarin-carboxylic acid, PMMB232 through HIF-1 $\alpha$ -mediated apoptosis. <i>Biomedicine and Pharmacotherapy</i> , 2018, 97, 656-666.	5.6	21
39	Naphthoquinones: A continuing source for discovery of therapeutic antineoplastic agents. <i>Chemical Biology and Drug Design</i> , 2018, 91, 681-690.	3.2	88
40	Novel Podophyllotoxin Derivatives as Potential Tubulin Inhibitors: Design, Synthesis, and Antiproliferative Activity Evaluation. <i>Chemistry and Biodiversity</i> , 2018, 15, e1800289.	2.1	10
41	Identification of Major Rhizobacterial Taxa Affected by a Glyphosate-Tolerant Soybean Line via Shotgun Metagenomic Approach. <i>Genes</i> , 2018, 9, 214.	2.4	9
42	Effects of an EPSPS-transgenic soybean line ZUTS31 on root-associated bacterial communities during field growth. <i>PLoS ONE</i> , 2018, 13, e0192008.	2.5	47
43	Design, synthesis, biological evaluation, and 3D-QSAR analysis of podophyllotoxin-dioxazole combination as tubulin targeting anticancer agents. <i>Chemical Biology and Drug Design</i> , 2017, 90, 236-243.	3.2	15
44	Design, Synthesis, and Biological Evaluation of Chalcone-Containing Shikonin Derivatives as Inhibitors of Tubulin Polymerization. <i>ChemMedChem</i> , 2017, 12, 399-406.	3.2	23
45	Identification of New Shikonin Derivatives as Antitumor Agents Targeting STAT3 SH2 Domain. <i>Scientific Reports</i> , 2017, 7, 2863.	3.3	33
46	Identification of new shikonin derivatives as STAT3 inhibitors. <i>Biochemical Pharmacology</i> , 2017, 146, 74-86.	4.4	43
47	Synthesis, characterization and biological evaluation of formononetin derivatives as novel EGFR inhibitors <i>via</i> inhibiting growth, migration and inducing apoptosis in breast cancer cell line. <i>RSC Advances</i> , 2017, 7, 48404-48419.	3.6	12
48	Design and synthesis of piperazine acetate podophyllotoxin ester derivatives targeting tubulin depolymerization as new anticancer agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 4066-4074.	2.2	35
49	Antiviral activity of a synthesized shikonin ester against influenza A (H1N1) virus and insights into its mechanism. <i>Biomedicine and Pharmacotherapy</i> , 2017, 93, 636-645.	5.6	21
50	Transcriptome analysis explores genes related to shikonin biosynthesis in <i>Lithospermeae</i> plants and provides insights into <i>Boraginales</i> ™ evolutionary history. <i>Scientific Reports</i> , 2017, 7, 4477.	3.3	26
51	Novel mechanisms for organic acid-mediated aluminium tolerance in roots and leaves of two contrasting soybean genotypes. <i>AoB PLANTS</i> , 2017, 9, plx064.	2.3	20
52	Calcium-dependent protein kinase CPK31 interacts with arsenic transporter AtNIP1;1 and regulates arsenite uptake in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2017, 12, e0173681.	2.5	66
53	Impact of Glyphosate on the Rhizosphere Microbial Communities of An EPSPS-Transgenic Soybean Line ZUTS31 by Metagenome Sequencing. <i>Current Genomics</i> , 2017, 19, 36-49.	1.6	10
54	Involvement of LeMDR, an ATP-binding cassette protein gene, in shikonin transport and biosynthesis in <i>Lithospermum erythrorhizon</i> . <i>BMC Plant Biology</i> , 2017, 17, 198.	3.6	12

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55	Impact of a Glyphosate-Tolerant Soybean Line on the Rhizobacteria, Revealed by Illumina MiSeq. <i>Journal of Microbiology and Biotechnology</i> , 2017, 27, 561-572.	2.1	52
56	A Classic Near-Infrared Probe Indocyanine Green for Detecting Singlet Oxygen. <i>International Journal of Molecular Sciences</i> , 2016, 17, 219.	4.1	44
57	Transgenic studies reveal the positive role of LeEIL-1 in regulating shikonin biosynthesis in <i>Lithospermum erythrorhizon</i> hairy roots. <i>BMC Plant Biology</i> , 2016, 16, 121.	3.6	15
58	Comparison of miRNAs and Their Targets in Seed Development between Two Maize Inbred Lines by High-Throughput Sequencing and Degradome Analysis. <i>PLoS ONE</i> , 2016, 11, e0159810.	2.5	7
59	The LIKE SEX FOUR2 regulates root development by modulating reactive oxygen species homeostasis in <i>Arabidopsis</i> . <i>Scientific Reports</i> , 2016, 6, 28683.	3.3	17
60	Design, synthesis and anti-cancer activity evaluation of podophyllotoxin-norcantharidin hybrid drugs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 3237-3242.	2.2	24
61	Shikonin derivatives as inhibitors of tyrosyl-tRNA synthetase: design, synthesis and biological evaluation. <i>RSC Advances</i> , 2016, 6, 83003-83010.	3.6	5
62	Transgenic analysis reveals LeACS-1 as a positive regulator of ethylene-induced shikonin biosynthesis in <i>Lithospermum erythrorhizon</i> hairy roots. <i>Plant Molecular Biology</i> , 2016, 90, 345-358.	3.9	17
63	Synthesis of dihydropyrazole sulphonamide derivatives that act as anti-cancer agents through COX-2 inhibition. <i>Pharmacological Research</i> , 2016, 104, 86-96.	7.1	38
64	Identification of miRNAs and their targets in transgenic <i>Brassica napus</i> and its acceptor (Westar) by high-throughput sequencing and degradome analysis. <i>RSC Advances</i> , 2015, 5, 85383-85394.	3.6	11
65	Synthesis of novel aryl dithian valeryl podophyllotoxin ester derivatives as potential antitubulin agents. <i>RSC Advances</i> , 2015, 5, 47511-47521.	3.6	9
66	Synthesis of aryl dihydrothiazol acyl shikonin ester derivatives as anticancer agents through microtubule stabilization. <i>Biochemical Pharmacology</i> , 2015, 96, 93-106.	4.4	23
67	Targeted photosensitizer nanoconjugates based on human serum albumin selectively kill tumor cells upon photo-irradiation. <i>RSC Advances</i> , 2015, 5, 50572-50579.	3.6	9
68	A Potent Anticancer Agent of Shikonin Derivative Targeting Tubulin. <i>Chirality</i> , 2015, 27, 274-280.	2.6	8
69	A newly isolated Haloalkaliphilic bacterium from middle-late Eocene halite formed in salt lakes in China. <i>Carbonates and Evaporites</i> , 2015, 30, 321-330.	1.0	8
70	Design, synthesis and mechanism of novel shikonin derivatives as potent anticancer agents. <i>RSC Advances</i> , 2015, 5, 31759-31767.	3.6	14
71	Semi-synthesis and anti-lung cancer activity evaluation of aryl dihydrothiazol acyl podophyllotoxin ester derivatives. <i>RSC Advances</i> , 2015, 5, 27775-27784.	3.6	12
72	Widely distributed hot and cold spots in meiotic recombination as shown by the sequencing of rice $F_2$ plants. <i>New Phytologist</i> , 2015, 206, 1491-1502.	7.3	86

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73	Synthesis, biological evaluation and molecular modeling of 1H-benzo[d]imidazole derivatives as novel anti-tubulin polymerization agents. RSC Advances, 2015, 5, 74425-74437.	3.6	5
74	Design and synthesis of 2-styryl of 5-Nitroimidazole derivatives and antimicrobial activities as FabH inhibitors. European Journal of Medicinal Chemistry, 2014, 76, 387-396.	5.5	16
75	Synthesis and Biological Evaluation of Heterocyclic Carboxylic Acyl Shikonin Derivatives. Chemical Biology and Drug Design, 2014, 83, 334-343.	3.2	18
76	Design, synthesis, evaluation and 3D-QSAR analysis of benzosulfonamide benzenesulfonates as potent and selective inhibitors of MMP-2. RSC Advances, 2014, 4, 39214.	3.6	13
77	<i>Arabidopsis</i> Transporter MGT6 Mediates Magnesium Uptake and Is Required for Growth under Magnesium Limitation. Plant Cell, 2014, 26, 2234-2248.	6.6	108
78	Design, synthesis and biological evaluation of shikonin thio-glycoside derivatives: new anti-tubulin agents. RSC Advances, 2014, 4, 49796-49805.	3.6	21
79	Synthesis and biological evaluation of novel shikonin ester derivatives as potential anti-cancer agents. RSC Advances, 2014, 4, 35588.	3.6	19
80	Novel Shikonin Derivatives Targeting Tubulin as Anticancer Agents. Chemical Biology and Drug Design, 2014, 84, 603-615.	3.2	27
81	Modification, Biological Evaluation and 3D QSAR Studies of Novel 2-(1,3-Diaryl-) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 422 To	2.5	0
82	Faecalibacterium prausnitzii Inhibits Interleukin-17 to Ameliorate Colorectal Colitis in Rats. PLoS ONE, 2014, 9, e109146.	2.5	83
83	Or mutation leads to photo-oxidative stress responses in cauliflower ( <i>Brassica oleracea</i> ) seedlings during de-etiolation. Journal of Plant Research, 2013, 126, 823-832.	2.4	4
84	Design and Synthesis of Fluoroacylshikonin as an Anticancer Agent. Chirality, 2013, 25, 757-762.	2.6	14
85	Design, Synthesis and Biological Evaluation of Cinnamic Acyl Shikonin Derivatives. Chemical Biology and Drug Design, 2013, 81, 275-283.	3.2	28
86	Preparation, cellular uptake and angiogenic suppression of shikonin-containing liposomes in <i>in vitro</i> and <i>in vivo</i> . Bioscience Reports, 2013, 33, e00020.	2.4	23
87	Synthesis, docking and biological evaluation of isoquinolonic acid derivatives. Chemical Research in Chinese Universities, 2013, 29, 1110-1114.	2.6	1
88	Rhizosphere microbial communities and organic acids secreted by aluminum-tolerant and aluminum-sensitive soybean in acid soil. Biology and Fertility of Soils, 2012, 48, 97-108.	4.3	71
89	Development and validation of a competitive indirect enzyme-linked immunosorbent assay for the determination of mercury in aqueous solution. Analytical Methods, 2011, 3, 1859.	2.7	13
90	Cloning, characterization, and expression of LeEIL-1, an <i>Arabidopsis</i> EIN3 homolog, in <i>Lithospermum erythrorhizon</i> . Plant Cell, Tissue and Organ Culture, 2011, 106, 71-79.	2.3	8

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91	Sequence analysis and expression of the calmodulin gene, M <sub>CaM</sub> -3, in mulberry ( <i>Morus L.</i> ). <i>Genes and Genomics</i> , 2011, 33, 97-103.	1.4	5
92	Expression analysis of shikonin-biosynthetic genes in response to M9 medium and light in <i>Lithospermum erythrorhizon</i> cell cultures. <i>Plant Cell, Tissue and Organ Culture</i> , 2010, 101, 135-142.	2.3	25
93	Differential Responses of Anti-Oxidative Enzymes to Aluminum Stress in Tolerant and Sensitive Soybean Genotypes. <i>Journal of Plant Nutrition</i> , 2009, 32, 1255-1270.	1.9	15
94	Impacts of methamidophos on the biochemical, catabolic, and genetic characteristics of soil microbial communities. <i>Soil Biology and Biochemistry</i> , 2008, 40, 778-788.	8.8	89
95	Expression analysis of light-regulated genes isolated from a full-length-enriched cDNA library of <i>Onosma paniculatum</i> cell cultures. <i>Journal of Plant Physiology</i> , 2008, 165, 1474-1482.	3.5	16
96	Effect of Light on Gene Expression and Shikonin Formation in Cultured <i>Onosma Paniculatum</i> Cells. <i>Plant Cell, Tissue and Organ Culture</i> , 2006, 84, 38-48.	2.3	36
97	Effects of Citric Acid on Soybean Seedling Growth Under Aluminum Stress. <i>Journal of Plant Nutrition</i> , 2004, 27, 367-375.	1.9	8
98	RAPD Marker and Substrate Utilization Pattern Applied to Study Microbial Community Diversity in the Soil Affected by Agricultural Chemicals. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2004, 39, 125-138.	1.5	6
99	Effects of Methyl jasmonate with indole-3-acetic acid and 6-benzylaminopurine on the secondary metabolism of cultured <i>Onosma paniculatum</i> cells. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2004, 40, 581-585.	2.1	14
100	Effects of Boron on Aluminum Toxicity on Seedlings of Two Soybean Cultivars. <i>Water, Air, and Soil Pollution</i> , 2004, 154, 239-248.	2.4	13
101	Effect of brassinolide on callus growth and regeneration in <i>Spartina patens</i> (Poaceae). <i>Plant Cell, Tissue and Organ Culture</i> , 2003, 73, 87-89.	2.3	35
102	Title is missing!. <i>Plant Growth Regulation</i> , 2003, 39, 253-261.	3.4	12
103	PHYSIOLOGICAL EFFECTS OF ALUMINUM/CALCIUM RATIOS ON ALUMINUM TOXICITY OF MUNGBEAN SEEDLING GROWTH. <i>Journal of Plant Nutrition</i> , 2001, 24, 585-597.	1.9	7
104	ALLEVIATION EFFECT OF DIFFERENT RATIOS OF Al TO Ca ON Al TOXICITY FOR MORPHOLOGICAL GROWTH OF MUNGBEAN SEEDLING. <i>Journal of Plant Nutrition</i> , 2001, 24, 573-583.	1.9	5
105	Effects of Agricultural Chemicals on DNA Sequence Diversity of Soil Microbial Community: A Study with RAPD Marker. <i>Microbial Ecology</i> , 2000, 39, 72-79.	2.8	87
106	Effect of Brassinolide on Growth and Shikonin Formation in Cultured <i>Onosma paniculatum</i> Cells. <i>Journal of Plant Growth Regulation</i> , 1999, 18, 89-92.	5.1	34
107	Fusion expression of human pro- $\epsilon$ urokinase with <i>E. coli</i> thioredoxin. <i>IUBMB Life</i> , 1998, 46, 479-486.	3.4	4