

# Jia Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

10,068  
citations

279798

23  
h-index

58581

82  
g-index

92  
all docs

92  
docs citations

92  
times ranked

18329  
citing authors

#	ARTICLE	IF	CITATIONS
1	Remdesivir and chloroquine effectively inhibit the recently emerged novel coronavirus (2019-nCoV) in vitro. <i>Cell Research</i> , 2020, 30, 269-271.	12.0	5,527
2	Hydroxychloroquine, a less toxic derivative of chloroquine, is effective in inhibiting SARS-CoV-2 infection in vitro. <i>Cell Discovery</i> , 2020, 6, 16.	6.7	1,643
3	Gut microbiota and intestinal FXR mediate the clinical benefits of metformin. <i>Nature Medicine</i> , 2018, 24, 1919-1929.	30.7	632
4	Anti-SARS-CoV-2 activities in vitro of Shuanghuanglian preparations and bioactive ingredients. <i>Acta Pharmacologica Sinica</i> , 2020, 41, 1167-1177.	6.1	314
5	The anti-influenza virus drug, arbidol is an efficient inhibitor of SARS-CoV-2 in vitro. <i>Cell Discovery</i> , 2020, 6, 28.	6.7	249
6	DCEO Biotechnology: Tools To Design, Construct, Evaluate, and Optimize the Metabolic Pathway for Biosynthesis of Chemicals. <i>Chemical Reviews</i> , 2018, 118, 4-72.	47.7	141
7	Phase II Multicenter, Randomized, Double-Blind Controlled Study of Efficacy and Safety of Umbilical Cord-Derived Mesenchymal Stromal Cells in the Prophylaxis of Chronic Graft-Versus-Host Disease After HLA-Haploidentical Stem-Cell Transplantation. <i>Journal of Clinical Oncology</i> , 2016, 34, 2843-2850.	1.6	131
8	Anti-SARS-CoV-2 Potential of Artemisinins In Vitro. <i>ACS Infectious Diseases</i> , 2020, 6, 2524-2531.	3.8	117
9	Identification of pyrogallol as a warhead in design of covalent inhibitors for the SARS-CoV-2 3CL protease. <i>Nature Communications</i> , 2021, 12, 3623.	12.8	111
10	Engineering <i>Escherichia coli</i> lifespan for enhancing chemical production. <i>Nature Catalysis</i> , 2020, 3, 307-318.	34.4	61
11	Pathological changes in the lungs and lymphatic organs of 12 COVID-19 autopsy cases. <i>National Science Review</i> , 2020, 7, 1868-1878.	9.5	52
12	Light-powered <i>Escherichia coli</i> cell division for chemical production. <i>Nature Communications</i> , 2020, 11, 2262.	12.8	51
13	Asymmetric assembly of high-value $\alpha$ -functionalized organic acids using a biocatalytic chiral-group-resetting process. <i>Nature Communications</i> , 2018, 9, 3818.	12.8	46
14	Rapid isolation and immune profiling of SARS-CoV-2 specific memory B cell in convalescent COVID-19 patients via LIBRA-seq. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 195.	17.1	45
15	Modification by $\alpha$ -D-glucan branching enzyme lowers the in vitro digestibility of starch from different sources. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 1758-1764.	7.5	44
16	Pharmacokinetics and tissue distribution of remdesivir and its metabolites nucleotide monophosphate, nucleotide triphosphate, and nucleoside in mice. <i>Acta Pharmacologica Sinica</i> , 2021, 42, 1195-1200.	6.1	40
17	Production of $\alpha$ -Alanine from Fumaric Acid Using a Dual-Enzyme Cascade. <i>ChemCatChem</i> , 2018, 10, 4984-4991.	3.7	39
18	Open Gate of <i>Corynebacterium glutamicum</i> Threonine Deaminase for Efficient Synthesis of Bulky $\alpha$ -Keto Acids. <i>ACS Catalysis</i> , 2020, 10, 9994-10004.	11.2	36

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19	Infection of human sweat glands by SARS-CoV-2. <i>Cell Discovery</i> , 2020, 6, 84.	6.7	35
20	Magnesium lithospermate B improves the gut microbiome and bile acid metabolic profiles in a mouse model of diabetic nephropathy. <i>Acta Pharmacologica Sinica</i> , 2019, 40, 507-513.	6.1	33
21	Structural basis for SARS-CoV-2 neutralizing antibodies with novel binding epitopes. <i>PLoS Biology</i> , 2021, 19, e3001209.	5.6	31
22	Berberine and its structural analogs have differing effects on functional profiles of individual gut microbiomes. <i>Gut Microbes</i> , 2020, 11, 1348-1361.	9.8	30
23	Screening of potent neutralizing antibodies against SARS-CoV-2 using convalescent patients-derived phage-display libraries. <i>Cell Discovery</i> , 2021, 7, 57.	6.7	28
24	Engineering of membrane phospholipid component enhances salt stress tolerance in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2020, 117, 710-720.	3.3	27
25	Differential distribution of characteristic constituents in root, stem and leaf tissues of <i>Salvia miltiorrhiza</i> using MALDI mass spectrometry imaging. <i>F&amp;T</i> , 2020, 146, 104679.	2.2	26
26	Enhancement of Sphingolipid Synthesis Improves Osmotic Tolerance of <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	25
27	Oleanolic acid inhibits proliferation and invasiveness of Kras-transformed cells via autophagy. <i>Journal of Nutritional Biochemistry</i> , 2014, 25, 1154-1160.	4.2	24
28	Comparative Antiviral Efficacy of Viral Protease Inhibitors against the Novel SARS-CoV-2 In Vitro. <i>Virologica Sinica</i> , 2020, 35, 776-784.	3.0	24
29	Promoter engineering of cascade biocatalysis for L-ketoglutaric acid production by coexpressing L-glutamate oxidase and catalase. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 4755-4764.	3.6	22
30	Engineering protonation conformation of aspartate decarboxylase to relieve mechanism-based inactivation. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1607-1614.	3.3	22
31	Clinical application of pyrrole-hemoglobin adducts as a biomarker of pyrrolizidine alkaloid exposure in humans. <i>Archives of Toxicology</i> , 2021, 95, 759-765.	4.2	22
32	KfoE encodes a fructosyltransferase involved in capsular polysaccharide biosynthesis in <i>Escherichia coli</i> K4. <i>Biotechnology Letters</i> , 2014, 36, 1469-1477.	2.2	19
33	A rapid and convenient derivatization method for quantitation of short-chain fatty acids in human feces by ultra-performance liquid chromatography/tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8730.	1.5	19
34	SLC1A1-mediated cellular and mitochondrial influx of R-2-hydroxyglutarate in vascular endothelial cells promotes tumor angiogenesis in IDH1-mutant solid tumors. <i>Cell Research</i> , 2022, 32, 638-658.	12.0	19
35	Efficient discovery of potential inhibitors for SARS-CoV-2 3C-like protease from herbal extracts using a native MS-based affinity-selection method. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 209, 114538.	2.8	18
36	Establishment of Human Pluripotent Stem Cell-Derived Skin Organoids Enabled Pathophysiological Model of SARS-CoV-2 Infection. <i>Advanced Science</i> , 2022, 9, e2104192.	11.2	18

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37	Pretreatment with broad-spectrum antibiotics alters the pharmacokinetics of major constituents of Shaoyao-Gancao decoction in rats after oral administration. <i>Acta Pharmacologica Sinica</i> , 2019, 40, 288-296.	6.1	17
38	Pathway engineering of <i>Escherichia coli</i> for $\alpha$ -ketoglutaric acid production. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2791-2801.	3.3	17
39	Enhancing tryptophan production by balancing precursors in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2022, 119, 983-993.	3.3	17
40	The triterpenoid sapogenin (2 $\beta$ -OH-Protopanaxadiol) ameliorates metabolic syndrome via the intestinal FXR/GLP-1 axis through gut microbiota remodelling. <i>Cell Death and Disease</i> , 2020, 11, 770.	6.3	16
41	3D printing of intracranial artery stenosis based on the source images of magnetic resonance angiograph. <i>Annals of Translational Medicine</i> , 2014, 2, 74.	1.7	16
42	Differential Cell Line Susceptibility to Crimean-Congo Hemorrhagic Fever Virus. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 648077.	3.9	15
43	Genome Sequencing of the Pyruvate-producing Strain <i>Candida glabrata</i> CCTCC M202019 and Genomic Comparison with Strain CBS138. <i>Scientific Reports</i> , 2016, 6, 34893.	3.3	13
44	Production of $\alpha$ -Ketoisocaproate and $\alpha$ -Keto $\beta$ -Methylvalerate by Engineered $\alpha$ -Amino Acid Deaminase. <i>ChemCatChem</i> , 2019, 11, 2464-2472.	3.7	13
45	Engineering the transmission efficiency of the noncyclic glyoxylate pathway for fumarate production in <i>Escherichia coli</i> . <i>Biotechnology for Biofuels</i> , 2020, 13, 132.	6.2	12
46	One-Pot Enzymatic $\alpha$ -Chemical Cascade Route for Synthesizing Aromatic $\alpha$ -Hydroxy Ketones. <i>ACS Catalysis</i> , 2021, 11, 2808-2818.	11.2	10
47	Rational design of a highly efficient catalytic system for the production of PAPS from ATP and its application in the synthesis of chondroitin sulfate. <i>Biotechnology and Bioengineering</i> , 2021, 118, 4503-4515.	3.3	10
48	<i>Cs</i> CCD2 Access Tunnel Design for a Broader Substrate Profile in Crocetin Production. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 11626-11636.	5.2	10
49	Efficient production of phenylpropionic acids by an amino $\alpha$ -group $\alpha$ -transformation biocatalytic cascade. <i>Biotechnology and Bioengineering</i> , 2020, 117, 614-625.	3.3	9
50	Challenges and stepwise fit-for-purpose optimization for bioanalyses of remdesivir metabolites nucleotide monophosphate and triphosphate in mouse tissues using LC $\alpha$ -MS/MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 194, 113806.	2.8	9
51	Engineering a CRISPRi Circuit for Autonomous Control of Metabolic Flux in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2021, 10, 2661-2671.	3.8	9
52	In vitro and in vivo efficacy of a novel nucleoside analog H44 against Crimean $\alpha$ -Congo hemorrhagic fever virus. <i>Antiviral Research</i> , 2022, 199, 105273.	4.1	9
53	Establishment of a Reverse Genetic System of Severe Fever with Thrombocytopenia Syndrome Virus Based on a C4 Strain. <i>Virologica Sinica</i> , 2021, 36, 958-967.	3.0	8
54	Fumarate Production by <i>Torulopsis glabrata</i> : Engineering Heterologous Fumarase Expression and Improving Acid Tolerance. <i>PLoS ONE</i> , 2016, 11, e0164141.	2.5	8

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55	Potent Anti-SARS-CoV-2 Efficacy of COVID-19 Hyperimmune Globulin from Vaccine-Immunized Plasma. <i>Advanced Science</i> , 2022, 9, e2104333.	11.2	8
56	Enhanced pyruvate production in <i>Candida glabrata</i> by overexpressing the CgAMD1 gene to improve acid tolerance. <i>Biotechnology Letters</i> , 2018, 40, 143-149.	2.2	7
57	A novel low systemic diacylglycerol acyltransferase 1 inhibitor, Yhhu2407, improves lipid metabolism. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 158, 105683.	4.0	7
58	Blood Pyrrole-DNA Adducts Define the Early Tumorigenic Risk in Patients with Pyrrolizidine Alkaloid-Induced Liver Injury. <i>Environmental Science and Technology Letters</i> , 2021, 8, 551-557.	8.7	7
59	Enhanced Catalytic Efficiency of Amino Acid Deaminase Achieved by a Shorter Hydride Transfer Distance. <i>ChemCatChem</i> , 2021, 13, 4557-4566.	3.7	7
60	Enzymatic Production of Ascorbic Acid-2-phosphate by Recombinant Acid Phosphatase. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 4161-4166.	5.2	6
61	Chassis engineering of <i>Escherichia coli</i> for trans-4-hydroxy-L-proline production. <i>Microbial Biotechnology</i> , 2021, 14, 392-402.	4.2	6
62	Efficient Synthesis of Phenylalanine from L-Phenylalanine via a Tri-Enzymatic Cascade Pathway. <i>ChemCatChem</i> , 2021, 13, 3165-3173.	3.7	6
63	Metabolomic Study of High-Fat Diet-Induced Obese (DIO) and DIO Plus CCl4-Induced NASH Mice and the Effect of Obeticholic Acid. <i>Metabolites</i> , 2021, 11, 374.	2.9	6
64	Immobilization of Microbial Consortium for Glutaric Acid Production from Lysine. <i>ChemCatChem</i> , 2021, 13, 5047-5055.	3.7	6
65	Sphingomyelin-Sequestered Cholesterol Domain Recruits Formin-Binding Protein 17 for Constricting Clathrin-Coated Pits in Influenza Virus Entry. <i>Journal of Virology</i> , 2022, 96, JVI0181321.	3.4	6
66	A two-stage temperature control strategy enhances extracellular secretion of recombinant $\beta$ -cyclodextrin glucosyltransferase in <i>Escherichia coli</i> . <i>AMB Express</i> , 2017, 7, 165.	3.0	5
67	Enzymatic production of trans-4-hydroxy-L-proline by proline 4-hydroxylase. <i>Microbial Biotechnology</i> , 2021, 14, 479-487.	4.2	5
68	Enzymatic Production of Ascorbic Acid-2-Phosphate by Engineered <i>Pseudomonas aeruginosa</i> Acid Phosphatase. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 14215-14221.	5.2	5
69	Rational Design of Phospholipase D to Improve the Transphosphatidylation Activity for Phosphatidylserine Synthesis. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 6709-6718.	5.2	5
70	Quantification of microbiota-related phenols and aromatic acids in mouse feces of a diabetic nephropathy model by simultaneous BDAPE derivatization using ultra-performance liquid chromatography-tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3241-3252.	3.7	4
71	7-dehydrocholesterol suppresses melanoma cell proliferation and invasion via Akt1/NF- $\kappa$ B signaling. <i>Oncology Letters</i> , 2020, 20, 1-1.	1.8	4
72	Improving succinate production by engineering oxygen-dependent dynamic pathway regulation in <i>Escherichia coli</i> . <i>Systems Microbiology and Biomanufacturing</i> , 2022, 2, 331-344.	2.9	4

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73	Enhancement of Pyruvate Productivity in <i>Candida glabrata</i> by Deleting the CgADE13 Gene to Improve Acid Tolerance. <i>Biotechnology and Bioprocess Engineering</i> , 2018, 23, 573-579.	2.6	3
74	A simultaneous identification and quantification strategy for determination of sulfhydryl-containing metabolites in normal- and high-fat diet hamsters using stable isotope labeling combined with LC-MS. <i>Analytica Chimica Acta</i> , 2021, 1184, 339016.	5.4	3
75	Production of phenylpyruvic acid by engineered l-amino acid deaminase from <i>Proteus mirabilis</i> . <i>Biotechnology Letters</i> , 2022, 44, 635-642.	2.2	3
76	Development and validation of a liquid chromatography-tandem mass spectrometry method for simultaneous quantification of medium- and long-chain saturated fatty acids in hamster plasma samples. <i>Rapid Communications in Mass Spectrometry</i> , 2022, 36, e9280.	1.5	2
77	Quantification of Usaramine and its N-Oxide Metabolite in Rat Plasma Using Liquid Chromatography-Tandem Mass Spectrometry. <i>Journal of Analytical Toxicology</i> , 2022, 46, 512-518.	2.8	1
78	Simultaneous determination of monocrotaline and its N-oxide metabolite in rat plasma using LC-MS/MS: Application to a pharmacokinetic study. <i>Biomedical Chromatography</i> , 2021, 35, e5207.	1.7	1
79	Qualitatively and quantitatively investigating the metabolism of 20(S)-protopanaxadiol-type ginsenosides by gut microbiota of different species. <i>Biomedical Chromatography</i> , 2021, 35, e5219.	1.7	1
80	Remdesivir and chloroquine effectively inhibit the recently emerged novel coronavirus (2019-nCoV) in vitro. , 0, .		1
81	Development and validation of an LC-MS/MS method for simultaneous determination of remdesivir and its hydrolyzed metabolite and nucleoside, and its application in a pharmacokinetic study of normal and diabetic nephropathy mice. <i>Biomedical Chromatography</i> , 2022, 36, e5380.	1.7	1