

# Hui Wu

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

2,465  
citations

201385

27  
h-index

223531

46  
g-index

94  
all docs

94  
docs citations

94  
times ranked

3194  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perturbing electron carriers of green algae <i>Chlamydomonas reinhardtii</i> for efficient physiological and metabolic regulation. , 2022, 1, 148-158.		4
2	Genome sequencing of biocontrol strain <i>Bacillus amyloliquefaciens</i> Bam1 and further analysis of its heavy metal resistance mechanism. <i>Bioresources and Bioprocessing</i> , 2022, 9, .	2.0	3
3	Characterization of flow and transport in a fracture network at the EGS Collab field experiment through stochastic modeling of tracer recovery. <i>Journal of Hydrology</i> , 2021, 593, 125888.	2.3	29
4	Transgenic eukaryotic microalgae as green factories: providing new ideas for the production of biologically active substances. <i>Journal of Applied Phycology</i> , 2021, 33, 705-728.	1.5	17
5	An Enhanced Virtual Crack Closure Technique for Stress Intensity Factor Calculation along Arbitrary Crack Fronts and the Application in Hydraulic Fracturing Simulation. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 2943-2957.	2.6	6
6	Genetic engineering of circularly permuted yellow fluorescent protein reveals intracellular acidification in response to nitric oxide stimuli. <i>Redox Biology</i> , 2021, 41, 101943.	3.9	5
7	Close Observation of Hydraulic Fracturing at EGS Collab Experiment 1: Fracture Trajectory, Microseismic Interpretations, and the Role of Natural Fractures. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020840.	1.4	28
8	One stone two birds: Biosynthesis of 3-hydroxypropionic acid from CO <sub>2</sub> and syngas-derived acetic acid in <i>Escherichia coli</i> . <i>Synthetic and Systems Biotechnology</i> , 2021, 6, 144-152.	1.8	16
9	Biosynthesis of (R)-3-hydroxybutyric acid from syngas-derived acetate in engineered <i>Escherichia coli</i> . <i>Bioresource Technology</i> , 2021, 336, 125323.	4.8	10
10	Efficient poly(3-hydroxybutyrate-co-lactate) production from corn stover hydrolysate by metabolically engineered <i>Escherichia coli</i> . <i>Bioresource Technology</i> , 2021, 341, 125873.	4.8	10
11	Modeling heat transport processes in enhanced geothermal systems: A validation study from EGS Collab Experiment 1. <i>Geothermics</i> , 2021, 97, 102254.	1.5	9
12	Recent advances in the microbial synthesis of lactate-based copolymer. <i>Bioresources and Bioprocessing</i> , 2021, 8, .	2.0	4
13	Design and Preparation of "corn-like" SPIONs@DFK-SBP-M13 Assembly for Improvement of Effective Internalization. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 7091-7102.	3.3	3
14	Reprogramming the metabolism of <i>Synechocystis</i> PCC 6803 by regulating the plastoquinone biosynthesis. <i>Synthetic and Systems Biotechnology</i> , 2021, 6, 351-359.	1.8	8
15	Predicting Thermal Performance of an Enhanced Geothermal System From Tracer Tests in a Data Assimilation Framework. <i>Water Resources Research</i> , 2021, 57, e2021WR030987.	1.7	17
16	Efficient isopropanol biosynthesis by engineered <i>Escherichia coli</i> using biologically produced acetate from syngas fermentation. <i>Bioresource Technology</i> , 2020, 296, 122337.	4.8	27
17	Advances in microbial production of medium-chain dicarboxylic acids for nylon materials. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 221-238.	1.9	26
18	A novel regulatory pathway consisting of a two-component system and an ABC-type transporter contributes to butanol tolerance in <i>Clostridium acetobutylicum</i> . <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 5011-5023.	1.7	26

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19	Transcription Factor Engineering for High-Throughput Strain Evolution and Organic Acid Bioproduction: A Review. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 98.	2.0	30
20	From nature to nurture: Essence and methods to isolate robust methanotrophic bacteria. <i>Synthetic and Systems Biotechnology</i> , 2020, 5, 173-178.	1.8	8
21	Probing and Enhancing Ligand-Mediated Active Targeting of Tumors Using Sub-5 nm Ultrafine Iron Oxide Nanoparticles. <i>Theranostics</i> , 2020, 10, 2479-2494.	4.6	49
22	Developing Upscaling Approach for Swarming Hydraulic Fractures Observed at Hydraulic Fracturing Test Site Through Multiscale Simulations. , 2020, , .		7
23	Biological Conversion of Natural Gas. , 2020, , 397-414.		1
24	Size-Controllable Magnetic Iron Oxide Nanorods for Biomarker Targeting and Improving Microfluidic Mixing. <i>ACS Applied Bio Materials</i> , 2019, 2, 3362-3371.	2.3	7
25	A Novel Strategy for Efficient Agarose-Oligosaccharide Production Based on the Enzymatic Degradation of Crude Agarose in <i>Flammeovirga pacifica</i> WPAGA1. <i>Frontiers in Microbiology</i> , 2019, 10, 1231.	1.5	16
26	Biosynthesis of Medium-Chain $\gamma$ -Hydroxy Fatty Acids by AlkBGT of <i>Pseudomonas putida</i> GPo1 With Native FadL in Engineered <i>Escherichia coli</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 273.	2.0	11
27	ICAT: A numerical scheme to minimize numerical diffusion in advection-dispersion modeling and its application in identifying flow channeling. <i>Advances in Water Resources</i> , 2019, 134, 103434.	1.7	4
28	Efficient Biosynthesis of Succinate from Paper Mill Wastewater by Engineered <i>Escherichia coli</i> . <i>Applied Biochemistry and Biotechnology</i> , 2019, 189, 1195-1208.	1.4	6
29	Accurate imaging of hydraulic fractures using templated electrical resistivity tomography. <i>Geothermics</i> , 2019, 81, 74-87.	1.5	11
30	Experimental study of the effects of soil pH and ionic species on the electro-osmotic consolidation of kaolin. <i>Journal of Hazardous Materials</i> , 2019, 368, 885-893.	6.5	33
31	Metabolic engineering of <i>Escherichia coli</i> carrying the hybrid acetone-biosynthesis pathway for efficient acetone biosynthesis from acetate. <i>Microbial Cell Factories</i> , 2019, 18, 6.	1.9	22
32	Efficient glutathione production in metabolically engineered <i>Escherichia coli</i> strains using constitutive promoters. <i>Journal of Biotechnology</i> , 2019, 289, 39-45.	1.9	9
33	Effect of Adsorbent Dosage to Adsorbate Concentration Ratio on the Adsorption of Cd(II) on Coal Gangue. <i>Environmental Science and Engineering</i> , 2019, , 428-435.	0.1	2
34	Lâ€Cysteine Production in <i>Escherichia coli</i> Based on Rational Metabolic Engineering and Modular Strategy. <i>Biotechnology Journal</i> , 2018, 13, e1700695.	1.8	33
35	Modular Engineering Intracellular NADH Regeneration Boosts Extracellular Electron Transfer of <i>Shewanella oneidensis</i> MR-1. <i>ACS Synthetic Biology</i> , 2018, 7, 885-895.	1.9	74
36	Central pathway engineering for enhanced succinate biosynthesis from acetate in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2018, 115, 943-954.	1.7	51

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37	Numerical Assessment of Equivalent Radius for Electrokinetic Geosynthetic Electrodes during Electroosmotic Consolidation. <i>International Journal of Geomechanics</i> , 2018, 18, .	1.3	8
38	Effect of NADPH availability on free fatty acid production in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2018, 115, 444-452.	1.7	32
39	Effect of Adsorbate Concentration to Adsorbent Dosage Ratio on the Sorption of Heavy Metals on Soils. <i>Journal of Environmental Engineering, ASCE</i> , 2018, 144, .	0.7	14
40	Efficient 3-hydroxypropionic acid production from glycerol by metabolically engineered <i>Klebsiella pneumoniae</i> . <i>Bioresources and Bioprocessing</i> , 2018, 5, .	2.0	14
41	Production of succinate from simply purified crude glycerol by engineered <i>Escherichia coli</i> using two-stage fermentation. <i>Bioresources and Bioprocessing</i> , 2018, 5, .	2.0	25
42	Enhancing cordycepin production in liquid static cultivation of <i>Cordyceps militaris</i> by adding vegetable oils as the secondary carbon source. <i>Bioresource Technology</i> , 2018, 268, 60-67.	4.8	39
43	Electro-osmotic consolidation of soil with variable compressibility, hydraulic conductivity and electro-osmosis conductivity. <i>Computers and Geotechnics</i> , 2017, 85, 126-138.	2.3	26
44	Feasibility study on the application of coal gangue as landfill liner material. <i>Waste Management</i> , 2017, 63, 161-171.	3.7	98
45	Numerical simulation of electro-osmotic consolidation coupling non-linear variation of soil parameters. <i>Computers and Geosciences</i> , 2017, 103, 92-98.	2.0	9
46	Efficient anaerobic production of succinate from glycerol in engineered <i>Escherichia coli</i> by using dual carbon sources and limiting oxygen supply in preceding aerobic culture. <i>Bioresource Technology</i> , 2017, 231, 75-84.	4.8	12
47	Exerting Enhanced Permeability and Retention Effect Driven Delivery by Ultrafine Iron Oxide Nanoparticles with $T_1$ - $T_2$ Switchable Magnetic Resonance Imaging Contrast. <i>ACS Nano</i> , 2017, 11, 4582-4592.	7.3	182
48	One-pot synthesis of glutathione by a two-enzyme cascade using a thermophilic ATP regeneration system. <i>Journal of Biotechnology</i> , 2017, 241, 163-169.	1.9	33
49	Improving sensitivity and specificity of capturing and detecting targeted cancer cells with anti-biofouling polymer coated magnetic iron oxide nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 150, 261-270.	2.5	37
50	Analytical Solution for Electroosmotic Consolidation Considering Nonlinear Variation of Soil Parameters. <i>International Journal of Geomechanics</i> , 2017, 17, .	1.3	20
51	Geotechnical Properties of Mine Tailings. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, .	1.3	73
52	Mechanical characteristics of mine tailings and seismic responds of tailing reservoir. <i>Japanese Geotechnical Society Special Publication</i> , 2016, 2, 2633-2637.	0.2	3
53	Effect of electrode material on electro-osmotic consolidation of bentonite. <i>Japanese Geotechnical Society Special Publication</i> , 2016, 2, 2027-2032.	0.2	2
54	Effects of Electro-Osmosis on the Physical and Chemical Properties of Bentonite. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, .	1.3	26

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55	Enhanced succinate production from glycerol by engineered <i>Escherichia coli</i> strains. <i>Bioresource Technology</i> , 2016, 218, 217-223.	4.8	42
56	A nanocomposite of Au@Ag core/shell dimer as a dual-modality contrast agent for X-ray computed tomography and photoacoustic imaging. <i>Medical Physics</i> , 2016, 43, 589-599.	1.6	10
57	Characterization of bifunctional l-glutathione synthetases from <i>Actinobacillus pleuropneumoniae</i> and <i>Actinobacillus succinogenes</i> for efficient glutathione biosynthesis. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6279-6289.	1.7	13
58	Production of Succinate from Acetate by Metabolically Engineered <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2016, 5, 1299-1307.	1.9	76
59	Experimental Study on Soft Soils Improvement by the Deep Electro-Osmotic Consolidation Technique. , 2016, , .		1
60	Numerical Simulation of Electro-Osmotic Consolidation: Case Study. , 2016, , .		1
61	Systematic manipulation of glutathione metabolism in <i>Escherichia coli</i> for improved glutathione production. <i>Microbial Cell Factories</i> , 2016, 15, 38.	1.9	25
62	Glutathione production by recombinant <i>Escherichia coli</i> expressing bifunctional glutathione synthetase. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 45-53.	1.4	22
63	Enhanced production of 3-hydroxypropionic acid from glucose via malonyl-CoA pathway by engineered <i>Escherichia coli</i> . <i>Bioresource Technology</i> , 2016, 200, 897-904.	4.8	49
64	Efficient free fatty acid production in engineered <i>Escherichia coli</i> strains using soybean oligosaccharides as feedstock. <i>Biotechnology Progress</i> , 2015, 31, 686-694.	1.3	10
65	Transport and Exchange Behavior of Ions in Bentonite During Electro-Osmotic Consolidation. <i>Clays and Clay Minerals</i> , 2015, 63, 395-403.	0.6	15
66	Metabolic transistor strategy for controlling electron transfer chain activity in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2015, 28, 159-168.	3.6	18
67	Electro-osmotic enhancement of bentonite with reactive and inert electrodes. <i>Applied Clay Science</i> , 2015, 111, 76-82.	2.6	62
68	Simultaneous utilization of glucose and mannose from woody hydrolysate for free fatty acid production by metabolically engineered <i>Escherichia coli</i> . <i>Bioresource Technology</i> , 2015, 185, 431-435.	4.8	4
69	PEG-b-AGE polymer coated magnetic nanoparticle probes with facile functionalization and anti-fouling properties for reducing non-specific uptake and improving biomarker targeting. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3591-3603.	2.9	45
70	Metabolic control of respiratory levels in coenzyme Q biosynthesis-deficient <i>Escherichia coli</i> strains leading to fine-tune aerobic lactate fermentation. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1720-1726.	1.7	10
71	Heterologous gshF gene expression in various vector systems in <i>Escherichia coli</i> for enhanced glutathione production. <i>Journal of Biotechnology</i> , 2015, 214, 63-68.	1.9	22
72	Principle and Performance of Gas Self-inducing Reactors and Applications to Biotechnology. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2015, 152, 1-33.	0.6	2

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73	Layer-by-layer assembled milk protein coated magnetic nanoparticle enabled oral drug delivery with high stability in stomach and enzyme-responsive release in small intestine. <i>Biomaterials</i> , 2015, 39, 105-113.	5.7	173
74	Engineering <i>Escherichia coli</i> for odd straight medium chain free fatty acid production. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 8145-8154.	1.7	18
75	Efficient odd straight medium chain free fatty acid production by metabolically engineered <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2014, 111, 2209-2219.	1.7	34
76	The transport and mediation mechanisms of the common sugars in <i>Escherichia coli</i> . <i>Biotechnology Advances</i> , 2014, 32, 905-919.	6.0	76
77	Microfabric change of electro-osmotic stabilized bentonite. <i>Applied Clay Science</i> , 2014, 101, 503-509.	2.6	46
78	Metabolic engineering of <i>Escherichia coli</i> for efficient free fatty acid production from glycerol. <i>Metabolic Engineering</i> , 2014, 25, 82-91.	3.6	49
79	Efficient free fatty acid production from woody biomass hydrolysate using metabolically engineered <i>Escherichia coli</i> . <i>Bioresource Technology</i> , 2014, 169, 119-125.	4.8	33
80	Numerical model of soft ground improvement by vertical drain combined with vacuum preloading. <i>Journal of Central South University</i> , 2013, 20, 2066-2071.	1.2	4
81	Discussion of "Numerical assessment of equivalent diameter equations for prefabricated vertical drains". <i>Canadian Geotechnical Journal</i> , 2013, 50, 801-804.	1.4	0
82	Experimental Study on Electro-Osmotic Consolidation of Expansive Soils. , 2012, , .		1
83	Succinic acid production and CO <sub>2</sub> fixation using a metabolically engineered <i>Escherichia coli</i> in a bioreactor equipped with a self-inducing agitator. <i>Bioresource Technology</i> , 2012, 107, 376-384.	4.8	27
84	Analytical and numerical solutions for vacuum preloading considering a radius related strain distribution. <i>Mechanics Research Communications</i> , 2012, 44, 9-14.	1.0	12
85	Process development of succinic acid production by <i>Escherichia coli</i> NZN111 using acetate as an aerobic carbon source. <i>Enzyme and Microbial Technology</i> , 2011, 49, 459-464.	1.6	10
86	Economical challenges to microbial producers of butanol: Feedstock, butanol ratio and titer. <i>Biotechnology Journal</i> , 2011, 6, 1348-1357.	1.8	108
87	Potential Biomarker of L-type Amino Acid Transporter 1 in Breast Cancer Progression. <i>Nuclear Medicine and Molecular Imaging</i> , 2011, 45, 93-102.	0.6	49
88	Enhanced anaerobic succinic acid production by <i>Escherichia coli</i> NZN111 aerobically grown on gluconeogenic carbon sources. <i>Enzyme and Microbial Technology</i> , 2009, 44, 165-169.	1.6	18
89	Improved anaerobic succinic acid production by <i>Escherichia coli</i> NZN111 aerobically grown on gluconeogenic carbon sources. <i>Journal of Biotechnology</i> , 2008, 136, S417.	1.9	2
90	Improved Succinic Acid Production in the Anaerobic Culture of an <i>Escherichia coli</i> <i>pfIB</i> <i>ldhA</i> Double Mutant as a Result of Enhanced Anaplerotic Activities in the Preceding Aerobic Culture. <i>Applied and Environmental Microbiology</i> , 2007, 73, 7837-7843.	1.4	101