Hao Song

List of Publications by Year
in descending order

123 papers	6,966 citations	53751 45 h-index	62565 80 g-index
128 all docs	128 docs citations	128 times ranked	6632 citing authors

#	Article	IF	Citations
1	Threeâ€Dimensional Nâ€Doped Carbon Nanotube/Graphene Composite Aerogel Anode to Develop Highâ€Power Microbial Fuel Cell. Energy and Environmental Materials, 2023, 6, .	7.3	13
2	Photocatalyst-enzyme hybrid systems for light-driven biotransformation. Biotechnology Advances, 2022, 54, 107808.	6.0	25
3	Development of Whole Genomeâ€Scale Base Editing Toolbox to Promote Efficiency of Extracellular Electron Transfer in <i>Shewanella oneidensis</i> MRâ€1. Advanced Biology, 2022, 6, e2101296.	1.4	6
4	Collaborative optimization for energy saving and service composition in multi-granularity heavy-duty equipment cloud manufacturing environment. Journal of Industrial and Management Optimization, 2022, .	0.8	0
5	Non-homologous End Joining-Mediated Insertional Mutagenesis Reveals a Novel Target for Enhancing Fatty Alcohols Production in Yarrowia lipolytica. Frontiers in Microbiology, 2022, 13, 898884.	1.5	3
6	Editorial: Electrobiotechnology Towards Sustainable Bioeconomy: Fundamental, Optimization and Applications. Frontiers in Bioengineering and Biotechnology, 2022, 10, 901072.	2.0	1
7	Direct microbial electron uptake as a mechanism for stainless steel corrosion in aerobic environments. Water Research, 2022, 219, 118553.	5.3	63
8	CRISPR/dCas9-RpoD-Mediated Simultaneous Transcriptional Activation and Repression in <i>Shewanella oneidensis</i> MR-1. ACS Synthetic Biology, 2022, 11, 2184-2192.	1.9	6
9	Type I-F CRISPR-PAIR platform for multi-mode regulation to boost extracellular electron transfer in Shewanella oneidensis. IScience, 2022, 25, 104491.	1.9	4
10	Coupling riboflavin de novo biosynthesis and cytochrome expression for improving extracellular electron transfer efficiency in <i>Shewanella oneidensis</i>. Biotechnology and Bioengineering, 2022, 119, 2806-2818.	1.7	6
11	Microbial extracellular electron transfer and strategies for engineering electroactive microorganisms. Biotechnology Advances, 2021, 53, 107682.	6.0	130
12	Thiophene-Conjugated Porous C3N4 Nanosheets for Boosted Photocatalytic Nicotinamide Cofactor Regeneration to Facilitate Solar-to-Chemical Enzymatic Reactions. Transactions of Tianjin University, 2021, 27, 42-54.	3.3	10
13	Enhancing production of 9Î±-hydroxy-androst-4-ene-3,17-dione (9-OHAD) from phytosterols by metabolic pathway engineering of mycobacteria. Chemical Engineering Science, 2021, 230, 116195.	1.9	10
14	Adaptive bidirectional extracellular electron transfer during accelerated microbiologically influenced corrosion of stainless steel. Communications Materials, 2021, 2, .	2.9	46
15	Genome-scale target identification in Escherichia coli for high-titer production of free fatty acids. Nature Communications, 2021, 12, 4976.	5.8	44
16	Engineering synthetic microbial consortium for efficient conversion of lactate from glucose and xylose to generate electricity. Biochemical Engineering Journal, 2021, 172, 108052.	1.8	7
17	Co-immobilized recombinant glycosyltransferases efficiently convert rebaudioside A to M in cascade. RSC Advances, 2021, 11, 15785-15794.	1.7	10
18	Dataâ€Driven Temporal Charging Patterns of Electric Vehicles in China. Energy Technology, 2021, 9, 2100421.	1.8	2

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19	Construction of an Acetate Metabolic Pathway to Enhance Electron Generation of Engineered Shewanella oneidensis. Frontiers in Bioengineering and Biotechnology, 2021, 9, 757953.	2.0	3
20	Metabolic engineering of <i>Bacillus subtilis</i> for highâ€titer production of menaquinoneâ€7. AIChE Journal, 2020, 66, e16754.	1.8	16
21	Microbial electro-fermentation for synthesis of chemicals and biofuels driven by bi-directional extracellular electron transfer. Synthetic and Systems Biotechnology, 2020, 5, 304-313.	1.8	58
22	Heterologous expression of EUGT11 from Oryza sativa in Pichia pastoris for highly efficient one-pot production of rebaudioside D from rebaudioside A. International Journal of Biological Macromolecules, 2020, 163, 1669-1676.	3.6	20
23	Engineering Saccharomyces cerevisiae for high yield production of Î±-amyrin via synergistic remodeling of Î±-amyrin synthase and expanding the storage pool. Metabolic Engineering, 2020, 62, 72-83.	3.6	48
24	Engineering mycobacteria artificial promoters and ribosomal binding sites for enhanced sterol production. Biochemical Engineering Journal, 2020, 162, 107739.	1.8	15
25	Construction of Functionally Compartmental Inorganic Photocatalystâ€"Enzyme System via Imitating Chloroplast for Efficient Photoreduction of CO₂ to Formic Acid. ACS Applied Materials & Interfaces, 2020, 12, 34795-34805.	4.0	71
26	The critical role of electrochemically activated adsorbates in neutral OER. Science China Materials, 2020, 63, 2509-2516.	3.5	16
27	Laminar Flame Characteristics of Premixed Methanolâ€"Waterâ€"Air Mixture. Energies, 2020, 13, 6504.	1.6	5
28	sRNA-Based Screening Chromosomal Gene Targets and Modular Designing <i>Escherichia coli</i> for High-Titer Production of Aglycosylated Immunoglobulin G. ACS Synthetic Biology, 2020, 9, 1385-1394.	1.9	5
29	Potential of Zymomonas mobilis as an electricity producer in ethanol production. Biotechnology for Biofuels, 2020, 13, 36.	6.2	16
30	De Novo High-Titer Production of Delta-Tocotrienol in Recombinant <i>Saccharomyces cerevisiae</i>. Journal of Agricultural and Food Chemistry, 2020, 68, 7710-7717.	2.4	8
31	Synthetic sRNAâ€Based Engineering of <i>Escherichia coli</i> for Enhanced Production of Fullâ€Length Immunoglobulin G. Biotechnology Journal, 2020, 15, e1900363.	1.8	10
32	Initial pyrolysis mechanism and product formation of cellulose: An Experimental and Density functional theory(DFT) study. Scientific Reports, 2020, 10, 3626.	1.6	50
33	Electricity-driven 7Î±-hydroxylation of a steroid catalyzed by a cytochrome P450 monooxygenase in engineered yeast. Catalysis Science and Technology, 2019, 9, 4877-4887.	2.1	18
34	Synthetic genome with recoding. Science China Life Sciences, 2019, 62, 1096-1097.	2.3	1
35	Depletion interaction forces contribute to erythrocyte-endothelial adhesion in diabetes. Biochemical and Biophysical Research Communications, 2019, 516, 144-148.	1.0	7
36	Enhancing surfactin production by using systematic CRISPRi repression to screen amino acid biosynthesis genes in Bacillus subtilis. Microbial Cell Factories, 2019, 18, 90.	1.9	38

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37	Boosting the biosynthesis of betulinic acid and related triterpenoids in Yarrowia lipolytica via multimodular metabolic engineering. Microbial Cell Factories, 2019, 18, 77.	1.9	70
38	Biochemical engineering in China. Reviews in Chemical Engineering, 2019, 35, 929-993.	2.3	1
39	A thiophene-modified doubleshell hollow g-C₃N₄ nanosphere boosts NADH regeneration <i>via</i> synergistic enhancement of charge excitation and separation. Catalysis Science and Technology, 2019, 9, 1911-1921.	2.1	35
40	Engineering Microbial Consortia for High-Performance Cellulosic Hydrolyzates-Fed Microbial Fuel Cells. Frontiers in Microbiology, 2019, 10, 409.	1.5	36
41	A Synthetic Plasmid Toolkit for Shewanella oneidensis MR-1. Frontiers in Microbiology, 2019, 10, 410.	1.5	51
42	Modular Pathway Engineering of <i>Bacillus subtilis</i> To Promote <i>De Novo</i> Biosynthesis of Menaquinone-7. ACS Synthetic Biology, 2019, 8, 70-81.	1.9	51
43	Enzyme-Assisted Microbial Electrosynthesis of Poly(3-hydroxybutyrate) via CO₂ Bioreduction by Engineered <i>Ralstonia eutropha</i>. ACS Catalysis, 2018, 8, 4429-4437.	5.5	95
44	Engineering phytosterol transport system in Mycobacterium sp. strain MS136 enhances production of 9Î±-hydroxy-4-androstene-3,17-dione. Biotechnology Letters, 2018, 40, 673-678.	1.1	15
45	Modular Engineering Intracellular NADH Regeneration Boosts Extracellular Electron Transfer of <i>Shewanella oneidensis</i> MR-1. ACS Synthetic Biology, 2018, 7, 885-895.	1.9	74
46	Engineering exoelectrogens by synthetic biology strategies. Current Opinion in Electrochemistry, 2018, 10, 37-45.	2.5	43
47	Synthetic <i>Klebsiella pneumoniae</i>â€‹<i>Shewanella oneidensis</i> Consortium Enables Glycerolâ€Fed Highâ€Performance Microbial Fuel Cells. Biotechnology Journal, 2018, 13, e1700491.	1.8	30
48	Improved performance of <i>Pseudomonas putida</i> in a bioelectrochemical system through overexpression of periplasmic glucose dehydrogenase. Biotechnology and Bioengineering, 2018, 115, 145-155.	1.7	37
49	Engineering of bacterial electrochemical activity with global regulator manipulation. Electrochemistry Communications, 2018, 86, 117-120.	2.3	10
50	Modular engineering to increase intracellular NAD(H/+) promotes rate of extracellular electron transfer of Shewanella oneidensis. Nature Communications, 2018, 9, 3637.	5.8	116
51	Productive Amyrin Synthases for Efficient Î±-Amyrin Synthesis in Engineered <i>Saccharomyces cerevisiae</i>. ACS Synthetic Biology, 2018, 7, 2391-2402.	1.9	40
52	Engineered Shewanella oneidensis-reduced graphene oxide biohybrid with enhanced biosynthesis and transport of flavins enabled a highest bioelectricity output in microbial fuel cells. Nano Energy, 2018, 50, 639-648.	8.2	92
53	Synthetic <i>Saccharomyces cerevisiae</i>â€‹<i>Shewanella oneidensis</i> consortium enables glucoseâ€fed highâ€performance microbial fuel cell. AICHE Journal, 2017, 63, 1830-1838.	1.8	46
54	A three-species microbial consortium for power generation. Energy and Environmental Science, 2017, 10, 1600-1609.	15.6	90

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55	CRISPRiâ€“sRNA: Transcriptionalâ€“Translational Regulation of Extracellular Electron Transfer in <i>Shewanella oneidensis</i>. ACS Synthetic Biology, 2017, 6, 1679-1690.	1.9	76
56	Engineering Shewanella oneidensis enables xylose-fed microbial fuel cell. Biotechnology for Biofuels, 2017, 10, 196.	6.2	59
57	NLS-RARÎ± Inhibits the Effects of All-trans Retinoic Acid on NB4 Cells by Interacting with P38Î± MAPK. International Journal of Medical Sciences, 2016, 13, 611-619.	1.1	5
58	Effects of LG268 on Cell Proliferation and Apoptosis of NB4 Cells. International Journal of Medical Sciences, 2016, 13, 517-523.	1.1	6
59	Design, analysis and application of synthetic microbial consortia. Synthetic and Systems Biotechnology, 2016, 1, 109-117.	1.8	87
60	Design and construction of synthetic microbial consortia in China. Synthetic and Systems Biotechnology, 2016, 1, 230-235.	1.8	42
61	A membrane-free micro-fluidic microbial fuel cell for rapid characterization of exoelectrogenic bacteria. Microfluidics and Nanofluidics, 2016, 20, 1.	1.0	5
62	Neutrophil elastase enhances the proliferation and decreases apoptosis of leukemia cells via activation of PI3K/Akt signaling. Molecular Medicine Reports, 2016, 13, 4175-4182.	1.1	19
63	The effect of external resistance on biofilm formation and internal resistance in Shewanella inoculated microbial fuel cells. RSC Advances, 2016, 6, 20317-20323.	1.7	38
64	Deletion of d-ribulose-5-phosphate 3-epimerase (RPE1) induces simultaneous utilization of xylose and glucose in xylose-utilizing Saccharomyces cerevisiae. Biotechnology Letters, 2015, 37, 1031-1036.	1.1	22
65	Enhancing Bidirectional Electron Transfer of <i>Shewanella oneidensis</i> by a Synthetic Flavin Pathway. ACS Synthetic Biology, 2015, 4, 815-823.	1.9	219
66	Engineering quorum sensing signaling of Pseudomonas for enhanced wastewater treatment and electricity harvest: A review. Chemosphere, 2015, 140, 18-25.	4.2	94
67	Enhanced <i>Shewanella</i> biofilm promotes bioelectricity generation. Biotechnology and Bioengineering, 2015, 112, 2051-2059.	1.7	129
68	Synthesis and characterization of diketopyrrolopyrrole-based conjugated molecules flanked by indenothiophene and benzoindenothiophene derivatives. Journal of Materials Chemistry C, 2015, 3, 11135-11143.	2.7	8
69	Engineering Electrode-Attached Microbial Consortia for High-Performance Xylose-Fed Microbial Fuel Cell. ACS Catalysis, 2015, 5, 6937-6945.	5.5	61
70	Nitrogen doped carbon nanoparticles enhanced extracellular electron transfer for high-performance microbial fuel cells anode. Chemosphere, 2015, 140, 26-33.	4.2	110
71	Programmed Allee effect in bacteria causes a tradeoff between population spread and survival. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1969-1974.	3.3	59
72	Enhanced expression of genes involved in initial xylose metabolism and the oxidative pentose phosphate pathway in the improved xylose-utilizing Saccharomyces cerevisiae through evolutionary engineering. Journal of Industrial Microbiology and Biotechnology, 2014, 41, 27-39.	1.4	59

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73	Highly Active Bidirectional Electron Transfer by a Selfâ€Assembled Electroactive Reducedâ€Grapheneâ€Oxideâ€Hybridized Biofilm. Angewandte Chemie - International Edition, 2014, 53, 4480-4483.	7.2	296
74	Enhancing <i>E. coli</i> isobutanol tolerance through engineering its global transcription factor cAMP receptor protein (CRP). Biotechnology and Bioengineering, 2014, 111, 700-708.	1.7	47
75	Synthetic microbial consortia: from systematic analysis to construction and applications. Chemical Society Reviews, 2014, 43, 6954-6981.	18.7	184
76	Comparative Proteomic Analysis of Experimental Evolution of the Bacillus cereus-Ketogulonicigenium vulgare Co-Culture. PLoS ONE, 2014, 9, e91789.	1.1	17
77	Metabolomic Analysis of Cooperative Adaptation between Co-Cultured Bacillus cereus and Ketogulonicigenium vulgare. PLoS ONE, 2014, 9, e94889.	1.1	21
78	Increase of riboflavin biosynthesis underlies enhancement of extracellular electron transfer of Shewanella in alkaline microbial fuel cells. Bioresource Technology, 2013, 130, 763-768.	4.8	86
79	A 3D mesoporous polysulfoneâ€"carbon nanotube anode for enhanced bioelectricity output in microbial fuel cells. Chemical Communications, 2013, 49, 10754.	2.2	28
80	Enhancement of extracellular electron transfer and bioelectricity output by synthetic porin. Biotechnology and Bioengineering, 2013, 110, 408-416.	1.7	77
81	Enhancement of coulombic efficiency and salt tolerance in microbial fuel cells by graphite/alginate granules immobilization of Shewanella oneidensis MR-1. Process Biochemistry, 2013, 48, 1947-1951.	1.8	29
82	Enhancement of 2-keto-gulonic acid yield by serial subcultivation of co-cultures of Bacillus cereus and Ketogulonigenium vulgare. Bioresource Technology, 2013, 132, 370-373.	4.8	18
83	Combinational expression of sorbose/sorbosone dehydrogenases and cofactor pyrroloquinoline quinone increases 2-keto-l-gulonic acid production in Ketogulonigenium vulgareâ€"Bacillus cereus consortium. Metabolic Engineering, 2013, 19, 50-56.	3.6	49
84	Influence of outer membrane <i>c</i>â€type cytochromes on particle size and activity of extracellular nanoparticles produced by <i>Shewanella oneidensis</i>. Biotechnology and Bioengineering, 2013, 110, 1831-1837.	1.7	72
85	An in silico erythropoiesis model rationalizing synergism between stem cell factor and erythropoietin. Bioprocess and Biosystems Engineering, 2013, 36, 1689-1702.	1.7	1
86	Reductive formation of palladium nanoparticles by Shewanella oneidensis: role of outer membrane cytochromes and hydrogenases. RSC Advances, 2013, 3, 22498.	1.7	43
87	Engineering PQS Biosynthesis Pathway for Enhancement of Bioelectricity Production in Pseudomonas aeruginosa Microbial Fuel Cells. PLoS ONE, 2013, 8, e63129.	1.1	65
88	Optimization of CDT-1 and XYL1 Expression for Balanced Co-Production of Ethanol and Xylitol from Cellobiose and Xylose by Engineered Saccharomyces cerevisiae. PLoS ONE, 2013, 8, e68317.	1.1	34
89	Improving Ethanol Tolerance of Escherichia coli by Rewiring Its Global Regulator cAMP Receptor Protein (CRP). PLoS ONE, 2013, 8, e57628.	1.1	61
90	Improving Acetate Tolerance of Escherichia coli by Rewiring Its Global Regulator cAMP Receptor Protein (CRP). PLoS ONE, 2013, 8, e77422.	1.1	35

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91	Synthesis of a MnO2â€“graphene foam hybrid with controlled MnO2 particle shape and its use as a supercapacitor electrode. Carbon, 2012, 50, 4865-4870.	5.4	214
92	3D Graphene Foam as a Monolithic and Macroporous Carbon Electrode for Electrochemical Sensing. ACS Applied Materials & Interfaces, 2012, 4, 3129-3133.	4.0	292
93	Templateâ€Free Pseudomorphic Synthesis of Tungsten Carbide Nanorods. Small, 2012, 8, 3350-3356.	5.2	56
94	Metabolomic profiling elucidates community dynamics of the Ketogulonicigenium vulgareâ€“Bacillus megaterium consortium. Metabolomics, 2012, 8, 960-973.	1.4	42
95	Activation Enhancement of Citric Acid Cycle to Promote Bioelectrocatalytic Activity of <i>arcA</i> Knockout <i>Escherichia coli</i> Toward High-Performance Microbial Fuel Cell. ACS Catalysis, 2012, 2, 1749-1752.	5.5	33
96	Macroporous and Monolithic Anode Based on Polyaniline Hybridized Three-Dimensional Graphene for High-Performance Microbial Fuel Cells. ACS Nano, 2012, 6, 2394-2400.	7.3	520
97	Modeling Spatiotemporal Dynamics of Bacterial Populations. Methods in Molecular Biology, 2012, 880, 243-254.	0.4	1
98	Partially oxidized titanium carbonitride as a non-noble catalyst for oxygen reduction reactions. International Journal of Hydrogen Energy, 2012, 37, 15135-15139.	3.8	28
99	Error-prone PCR of global transcription factor cyclic AMP receptor protein for enhanced organic solvent (toluene) tolerance. Process Biochemistry, 2012, 47, 2152-2158.	1.8	17
100	Engineering global transcription factor cyclic AMP receptor protein of Escherichia coli for improved 1-butanol tolerance. Applied Microbiology and Biotechnology, 2012, 94, 1107-1117.	1.7	64
101	Enhance electron transfer and performance of microbial fuel cells by perforating the cell membrane. Electrochemistry Communications, 2012, 15, 50-53.	2.3	68
102	Increasing intracellular releasable electrons dramatically enhances bioelectricity output in microbial fuel cells. Electrochemistry Communications, 2012, 19, 13-16.	2.3	60
103	Graphene/carbon cloth anode for high-performance mediatorless microbial fuel cells. Bioresource Technology, 2012, 114, 275-280.	4.8	307
104	Conductive artificial biofilm dramatically enhances bioelectricity production in Shewanella-inoculated microbial fuel cells. Chemical Communications, 2011, 47, 12825.	2.2	96
105	Bioelectricity enhancement via overexpression of quorum sensing system in Pseudomonas aeruginosa-inoculated microbial fuel cells. Biosensors and Bioelectronics, 2011, 30, 87-92.	5.3	157
106	Programming microbial population dynamics by engineered cellâ€“cell communication. Biotechnology Journal, 2011, 6, 837-849.	1.8	34
107	Metabolome Profiling Reveals Metabolic Cooperation between Bacillus megaterium and Ketogulonicigenium vulgare during Induced Swarm Motility. Applied and Environmental Microbiology, 2011, 77, 7023-7030.	1.4	86
108	Spatiotemporal modulation of biodiversity in a synthetic chemical-mediated ecosystem. Nature Chemical Biology, 2009, 5, 929-935.	3.9	89

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109	Signal Discrimination by Differential Regulation of Protein Stability in Quorum Sensing. Journal of Molecular Biology, 2008, 382, 1290-1297.	2.0	17
110	A Whole More Than the Sum of Its Synthetic Parts. ACS Chemical Biology, 2008, 3, 27-29.	1.6	3
111	A synthetic <i>Escherichia coli</i> predatorâ€“prey ecosystem. Molecular Systems Biology, 2008, 4, 187.	3.2	425
112	A synthetic biology challenge: making cells compute. Molecular BioSystems, 2007, 3, 343.	2.9	35
113	Dynamics of a Minimal Model of Interlocked Positive and Negative Feedback Loops of Transcriptional Regulation by cAMP-Response Element Binding Proteins. Biophysical Journal, 2007, 92, 3407-3424.	0.2	65
114	Dual-site supported metallocene catalyst design for bimodal polyolefin synthesis. AICHE Journal, 2007, 53, 687-694.	1.8	5
115	Bifurcation and Singularity Analysis of a Molecular Network for the Induction of Long-Term Memory. Biophysical Journal, 2006, 90, 2309-2325.	0.2	34
116	Evolving Sensitivity. ACS Chemical Biology, 2006, 1, 681-682.	1.6	6
117	Impact of Initiation and Deactivation on Melting during Gas-Phase Olefin Polymerization. Industrial & Engineering Chemistry Research, 2004, 43, 4789-4795.	1.8	3
118	Bounds on Operating Conditions Leading to Melting during Olefin Polymerization. Industrial & Engineering Chemistry Research, 2004, 43, 270-282.	1.8	11
119	New chaotic behavior and its effective control in BelousovÂ–Zhabotinsky reaction. Canadian Journal of Chemistry, 2001, 79, 29-34.	0.6	1
120	New chaotic behavior and its effective control in Belousovâ€“Zhabotinsky reaction. Canadian Journal of Chemistry, 2001, 79, 29-34.	0.6	1
121	A new method of controlling chemical chaos. Science in China Series B: Chemistry, 1999, 42, 624-630.	0.8	1
122	Controlling Belousovâ€“Zhabotinskyâ€“continuous stirred tank reactor chaotic chemical reaction by discrete and continuous control strategies. Physical Chemistry Chemical Physics, 1999, 1, 813-819.	1.3	6
123	Reconstructing the state space of chaotic BZ reaction system using power spectrum method. Science Bulletin, 1998, 43, 1447-1452.	1.7	1