

# Rongrong Jiang

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

5,329  
citations

159585

30  
h-index

289244

40  
g-index

40  
all docs

40  
docs citations

40  
times ranked

9470  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibacterial Activity of Graphite, Graphite Oxide, Graphene Oxide, and Reduced Graphene Oxide: Membrane and Oxidative Stress. <i>ACS Nano</i> , 2011, 5, 6971-6980.	14.6	2,384
2	Lateral Dimension-Dependent Antibacterial Activity of Graphene Oxide Sheets. <i>Langmuir</i> , 2012, 28, 12364-12372.	3.5	498
3	Ternary Hybrids of Amorphous Nickel Hydroxide@Carbon Nanotube@Conducting Polymer for Supercapacitors with High Energy Density, Excellent Rate Capability, and Long Cycle Life. <i>Advanced Functional Materials</i> , 2015, 25, 1063-1073.	14.9	288
4	Transforming Pristine Carbon Fiber Tows into High Performance Solid-State Fiber Supercapacitors. <i>Advanced Materials</i> , 2015, 27, 4895-4901.	21.0	193
5	Surface activated carbon nanospheres for fast adsorption of silver ions from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2011, 194, 162-168.	12.4	174
6	How carboxylic groups improve the performance of single-walled carbon nanotube electrochemical capacitors?. <i>Energy and Environmental Science</i> , 2011, 4, 4220.	30.8	119
7	Effect of depositing silver nanoparticles on BiVO <sub>4</sub> in enhancing visible light photocatalytic inactivation of bacteria in water. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6209-6217.	10.3	107
8	Specific and reversible immobilization of NADH oxidase on functionalized carbon nanotubes. <i>Journal of Biotechnology</i> , 2010, 150, 57-63.	3.8	105
9	Increase of riboflavin biosynthesis underlies enhancement of extracellular electron transfer of <i>Shewanella</i> in alkaline microbial fuel cells. <i>Bioresource Technology</i> , 2013, 130, 763-768.	9.6	86
10	The Crystal Structure of NAD(P)H Oxidase from <i>Lactobacillus sanfranciscensis</i> : Insights into the Conversion of O <sub>2</sub> into Two Water Molecules by the Flavoenzyme. <i>Biochemistry</i> , 2006, 45, 9648-9659.	2.5	85
11	A high-performance metal-free hydrogen-evolution reaction electrocatalyst from bacterium derived carbon. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7210-7214.	10.3	75
12	Cobalt Phosphate@ZnO Composite Photocatalysts for Oxygen Evolution from Photocatalytic Water Oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 9945-9951.	3.7	71
13	Ni <sup>2+</sup> -doped Zn <sub>x</sub> Cd <sub>1-x</sub> S photocatalysts from single-source precursors for efficient solar hydrogen production under visible light irradiation. <i>Catalysis Science and Technology</i> , 2012, 2, 581-588.	4.1	66
14	Engineering global transcription factor cyclic AMP receptor protein of <i>Escherichia coli</i> for improved 1-butanol tolerance. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 1107-1117.	3.6	64
15	Specific Enzyme Immobilization Approaches and Their Application with Nanomaterials. <i>Topics in Catalysis</i> , 2012, 55, 1146-1156.	2.8	62
16	Improving Ethanol Tolerance of <i>Escherichia coli</i> by Rewiring Its Global Regulator cAMP Receptor Protein (CRP). <i>PLoS ONE</i> , 2013, 8, e57628.	2.5	61
17	Increasing intracellular releasable electrons dramatically enhances bioelectricity output in microbial fuel cells. <i>Electrochemistry Communications</i> , 2012, 19, 13-16.	4.7	60
18	Hydrogen peroxide-producing NADH oxidase (nox-1) from <i>Lactococcus lactis</i> . <i>Tetrahedron: Asymmetry</i> , 2004, 15, 2939-2944.	1.8	59

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19	Improving <i>Saccharomyces cerevisiae</i> ethanol production and tolerance via RNA polymerase II subunit Rpb7. <i>Biotechnology for Biofuels</i> , 2017, 10, 125.	6.2	58
20	Improving acetyl-CoA biosynthesis in <i>Saccharomyces cerevisiae</i> via the overexpression of pantothenate kinase and PDH bypass. <i>Biotechnology for Biofuels</i> , 2017, 10, 41.	6.2	53
21	Enhancing <i>E. coli</i> Tolerance towards Oxidative Stress via Engineering Its Global Regulator cAMP Receptor Protein (CRP). <i>PLoS ONE</i> , 2012, 7, e51179.	2.5	52
22	Random mutagenesis of global transcription factor cAMP receptor protein for improved osmotolerance. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1165-1172.	3.3	52
23	Production of bioactive human beta-defensin 5 and 6 in <i>Escherichia coli</i> by soluble fusion expression. <i>Protein Expression and Purification</i> , 2008, 61, 168-174.	1.3	50
24	Soluble fusion expression and characterization of bioactive human beta-defensin 26 and 27. <i>Applied Microbiology and Biotechnology</i> , 2009, 84, 301-308.	3.6	50
25	Enhancing <i>E. coli</i> isobutanol tolerance through engineering its global transcription factor cAMP receptor protein (CRP). <i>Biotechnology and Bioengineering</i> , 2014, 111, 700-708.	3.3	47
26	Asymmetric deposition of manganese oxide in single walled carbon nanotube films as electrodes for flexible high frequency response electrochemical capacitors. <i>Electrochimica Acta</i> , 2012, 78, 122-132.	5.2	44
27	Comparison of Alkyl Hydroperoxide Reductase (AhpR) and Water-Forming NADH Oxidase from <i>Lactococcus lactis</i> ATCC 19435. <i>Advanced Synthesis and Catalysis</i> , 2005, 347, 1139-1146.	4.3	41
28	Improving Acetate Tolerance of <i>Escherichia coli</i> by Rewiring Its Global Regulator cAMP Receptor Protein (CRP). <i>PLoS ONE</i> , 2013, 8, e77422.	2.5	35
29	Activity and stability comparison of immobilized NADH oxidase on multi-walled carbon nanotubes, carbon nanospheres, and single-walled carbon nanotubes. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 69, 120-126.	1.8	34
30	Engineering of glycerol dehydrogenase for improved activity towards 1, 3-butanediol. <i>Applied Microbiology and Biotechnology</i> , 2010, 88, 117-124.	3.6	33
31	Rewiring global regulator cAMP receptor protein (CRP) to improve <i>E. coli</i> tolerance towards low pH. <i>Journal of Biotechnology</i> , 2014, 173, 68-75.	3.8	31
32	Synergism of Water Shock and a Biocompatible Block Copolymer Potentiates the Antibacterial Activity of Graphene Oxide. <i>Small</i> , 2016, 12, 951-962.	10.0	30
33	Combinatorial and high-throughput screening approaches for strain engineering. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 2093-2104.	3.6	28
34	cAMP receptor protein (CRP)-mediated resistance/tolerance in bacteria: mechanism and utilization in biotechnology. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 4533-4543.	3.6	28
35	Sulfur-induced chirality changes in single-walled carbon nanotube synthesis by ethanol chemical vapor deposition on a Co/SiO <sub>2</sub> catalyst. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3310-3319.	10.3	26
36	Nanotube-supported bioproduction of 4-hydroxy-2-butanone via in situ cofactor regeneration. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 1233-1241.	3.6	24

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37	Error-prone PCR of global transcription factor cyclic AMP receptor protein for enhanced organic solvent (toluene) tolerance. <i>Process Biochemistry</i> , 2012, 47, 2152-2158.	3.7	17
38	Narrow-chirality distributed single-walled carbon nanotube synthesis by remote plasma enhanced ethanol deposition on cobalt incorporated MCM-41 catalyst. <i>Carbon</i> , 2014, 66, 134-143.	10.3	16
39	Comparison of alkyl hydroperoxide reductase and two water-forming NADH oxidases from <i>Bacillus cereus</i> ATCC 14579. <i>Applied Microbiology and Biotechnology</i> , 2012, 96, 1265-1273.	3.6	13
40	Nanoparticle-supported consecutive reactions catalyzed by alkyl hydroperoxide reductase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 76, 9-14.	1.8	10