

Carrie A Eckert

List of Publications by Year in descending order

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34
papers

901
citations

471509

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501196

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38
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38
docs citations

38
times ranked

1371
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanorg Microbial Factories: Light-Driven Renewable Biochemical Synthesis Using Quantum Dot-Bacteria Nanobiohybrids. <i>Journal of the American Chemical Society</i> , 2019, 141, 10272-10282.	13.7	99
2	The enhancement of pericentromeric cohesin association by conserved kinetochore components promotes high-fidelity chromosome segregation and is sensitive to microtubule-based tension. <i>Genes and Development</i> , 2007, 21, 278-291.	5.9	91
3	Ethylene-forming enzyme and bioethylene production. <i>Biotechnology for Biofuels</i> , 2014, 7, 33.	6.2	90
4	The role of the bidirectional hydrogenase in cyanobacteria. <i>Bioresource Technology</i> , 2011, 102, 8368-8377.	9.6	85
5	A Genetic Toolbox for Modulating the Expression of Heterologous Genes in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>ACS Synthetic Biology</i> , 2018, 7, 276-286.	3.8	78
6	Development of both type I and type II CRISPR/Cas genome editing systems in the cellulolytic bacterium <i>Clostridium thermocellum</i> . <i>Metabolic Engineering Communications</i> , 2020, 10, e00116.	3.6	60
7	Recombinant and in vitro expression systems for hydrogenases: new frontiers in basic and applied studies for biological and synthetic H ₂ production. <i>Dalton Transactions</i> , 2009, , 9970.	3.3	48
8	Genetic Analysis of the Hox Hydrogenase in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803 Reveals Subunit Roles in Association, Assembly, Maturation, and Function. <i>Journal of Biological Chemistry</i> , 2012, 287, 43502-43515.	3.4	40
9	CRISPR-Enabled Tools for Engineering Microbial Genomes and Phenotypes. <i>Biotechnology Journal</i> , 2018, 13, e1700586.	3.5	30
10	Multiplex navigation of global regulatory networks (MINR) in yeast for improved ethanol tolerance and production. <i>Metabolic Engineering</i> , 2019, 51, 50-58.	7.0	30
11	Overcoming substrate limitations for improved production of ethylene in <i>E. coli</i> . <i>Biotechnology for Biofuels</i> , 2016, 9, 3.	6.2	27
12	Synthetic chimeric nucleases function for efficient genome editing. <i>Nature Communications</i> , 2019, 10, 5524.	12.8	24
13	Building a genome engineering toolbox in nonmodel prokaryotic microbes. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2120-2138.	3.3	23
14	Genome Annotation Provides Insight into Carbon Monoxide and Hydrogen Metabolism in <i>Rubrivivax gelatinosus</i> . <i>PLoS ONE</i> , 2014, 9, e114551.	2.5	21
15	Engineering regulatory networks for complex phenotypes in <i>E. coli</i> . <i>Nature Communications</i> , 2020, 11, 4050.	12.8	21
16	Synthetic Biology and Metabolic Engineering Employing <i>Escherichia coli</i> for C ₂ -C ₆ Bioalcohol Production. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 710.	4.1	19
17	Photobiological Hydrogen Production – Prospects and Challenges. <i>Microbe Magazine</i> , 2009, 4, 275-280.	0.4	18
18	The Model System <i>Saccharomyces cerevisiae</i> Versus Emerging Non-Model Yeasts for the Production of Biofuels. <i>Life</i> , 2020, 10, 299.	2.4	16

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19	Hydrogen Production by Water Biophotolysis. <i>Advances in Photosynthesis and Respiration</i> , 2014, , 101-135.	1.0	13
20	Solar powered biohydrogen production requires specific localization of the hydrogenase. <i>Energy and Environmental Science</i> , 2014, 7, 3791-3800.	30.8	12
21	Genomic Deoxyxylulose Phosphate Reductoisomerase (DXR) Mutations Conferring Resistance to the Antimalarial Drug Fosmidomycin in <i>E. coli</i> . <i>ACS Synthetic Biology</i> , 2018, 7, 2824-2832.	3.8	11
22	Predicting Drug Resistance Using Deep Mutational Scanning. <i>Molecules</i> , 2020, 25, 2265.	3.8	8
23	Engineering improved ethylene production: Leveraging systems biology and adaptive laboratory evolution. <i>Metabolic Engineering</i> , 2021, 67, 308-320.	7.0	8
24	Multiplex Evolution of Antibody Fragments Utilizing a Yeast Surface Display Platform. <i>ACS Synthetic Biology</i> , 2020, 9, 2197-2202.	3.8	7
25	High-Throughput Functional Genomics for Energy Production. <i>Current Opinion in Biotechnology</i> , 2021, 67, 7-14.	6.6	7
26	Transcriptional Regulatory Networks Involved in C3-C4 Alcohol Stress Response and Tolerance in Yeast. <i>ACS Synthetic Biology</i> , 2021, 10, 19-28.	3.8	7
27	Inactivation of the uptake hydrogenase in the purple non-sulfur photosynthetic bacterium <i>Rubrivivax gelatinosus</i> CBS enables a biological water-gas shift platform for H ₂ production. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 993-1002.	3.0	2
28	Gene Editing Technologies for Biofuel Production in Thermophilic Microbes. <i>Methods in Molecular Biology</i> , 2020, 2096, 149-163.	0.9	2
29	Advances in protein engineering and its application in synthetic biology. , 2022, , 147-158.		1
30	Highly Efficient Libraries Design for Saturation Mutagenesis. <i>Synthetic Biology</i> , 0, , .	2.2	1
31	CRISPR-based tools for microbial cell factories. , 2021, , 95-113.		0
32	CRISPR-Cas Genome Editing in the Cellulolytic Bacterium <i>Clostridium thermocellum</i> (C.) Tj ETQq0 0 0 rgBT /Overlock, 10 Tf 50, 222 Td (t	0.3	0
33	Advances and application of CRISPR-Cas systems. , 2022, , 331-348.		0
34	Editorial: Microorganisms for Consolidated 2nd Generation Biorefining. <i>Frontiers in Microbiology</i> , 0, 13, .	3.5	0