

# Carrie A Eckert

## List of Publications by Year in descending order

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34  
papers

901  
citations

471509

17  
h-index

501196

28  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1371  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in protein engineering and its application in synthetic biology. , 2022, , 147-158.		1
2	Advances and application of CRISPR-Cas systems. , 2022, , 331-348.		0
3	High-Throughput Functional Genomics for Energy Production. Current Opinion in Biotechnology, 2021, 67, 7-14.	6.6	7
4	Engineering improved ethylene production: Leveraging systems biology and adaptive laboratory evolution. Metabolic Engineering, 2021, 67, 308-320.	7.0	8
5	CRISPR-based tools for microbial cell factories. , 2021, , 95-113.		0
6	CRISPR-Cas Genome Editing in the Cellulolytic Bacterium Clostridium thermocellum (C.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (t	0.3	0
7	Transcriptional Regulatory Networks Involved in C3â€C4 Alcohol Stress Response and Tolerance in Yeast. ACS Synthetic Biology, 2021, 10, 19-28.	3.8	7
8	Development of both type Iâ€B and type II CRISPR/Cas genome editing systems in the cellulolytic bacterium Clostridium thermocellum. Metabolic Engineering Communications, 2020, 10, e00116.	3.6	60
9	The Model System Saccharomyces cerevisiae Versus Emerging Non-Model Yeasts for the Production of Biofuels. Life, 2020, 10, 299.	2.4	16
10	Synthetic Biology and Metabolic Engineering Employing Escherichia coli for C2â€C6 Bioalcohol Production. Frontiers in Bioengineering and Biotechnology, 2020, 8, 710.	4.1	19
11	Engineering regulatory networks for complex phenotypes in E. coli. Nature Communications, 2020, 11, 4050.	12.8	21
12	Predicting Drug Resistance Using Deep Mutational Scanning. Molecules, 2020, 25, 2265.	3.8	8
13	Multiplex Evolution of Antibody Fragments Utilizing a Yeast Surface Display Platform. ACS Synthetic Biology, 2020, 9, 2197-2202.	3.8	7
14	Gene Editing Technologies for Biofuel Production in Thermophilic Microbes. Methods in Molecular Biology, 2020, 2096, 149-163.	0.9	2
15	Multiplex navigation of global regulatory networks (MINR) in yeast for improved ethanol tolerance and production. Metabolic Engineering, 2019, 51, 50-58.	7.0	30
16	Nanorg Microbial Factories: Light-Driven Renewable Biochemical Synthesis Using Quantum Dot-Bacteria Nanobiohybrids. Journal of the American Chemical Society, 2019, 141, 10272-10282.	13.7	99
17	Inactivation of the uptake hydrogenase in the purple non-sulfur photosynthetic bacterium Rubrivivax gelatinosus CBS enables a biological waterâ€gas shift platform for H2 production. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 993-1002.	3.0	2
18	Synthetic chimeric nucleases function for efficient genome editing. Nature Communications, 2019, 10, 5524.	12.8	24

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Building a genome engineering toolbox in nonmodel prokaryotic microbes. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2120-2138.	3.3	23
22	CRISPR-Enabled Tools for Engineering Microbial Genomes and Phenotypes. <i>Biotechnology Journal</i> , 2018, 13, e1700586.	3.5	30
23	Overcoming substrate limitations for improved production of ethylene in <i>E. coli</i> . <i>Biotechnology for Biofuels</i> , 2016, 9, 3.	6.2	27
24	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
25	Solar powered biohydrogen production requires specific localization of the hydrogenase. <i>Energy and Environmental Science</i> , 2014, 7, 3791-3800.	30.8	12
26	Ethylene-forming enzyme and bioethylene production. <i>Biotechnology for Biofuels</i> , 2014, 7, 33.	6.2	90
27	Hydrogen Production by Water Biophotolysis. <i>Advances in Photosynthesis and Respiration</i> , 2014, , 101-135.	1.0	13
28	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
29	The role of the bidirectional hydrogenase in cyanobacteria. <i>Bioresource Technology</i> , 2011, 102, 8368-8377.	9.6	85
30	Recombinant and in vitro expression systems for hydrogenases: new frontiers in basic and applied studies for biological and synthetic H <sub>2</sub> production. <i>Dalton Transactions</i> , 2009, , 9970.	3.3	48
31	Photobiological Hydrogen Production – Prospects and Challenges. <i>Microbe Magazine</i> , 2009, 4, 275-280.	0.4	18
32	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
33	Highly Efficient Libraries Design for Saturation Mutagenesis. <i>Synthetic Biology</i> , 0, , .	2.2	1
34	Editorial: Microorganisms for Consolidated 2nd Generation Biorefining. <i>Frontiers in Microbiology</i> , 0, 13, .	3.5	0