

John E Dueber

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

6,889
citations

147801

31
h-index

265206

42
g-index

50
all docs

50
docs citations

50
times ranked

7389
citing authors

#	ARTICLE	IF	CITATIONS
1	In vivo hypermutation and continuous evolution. <i>Nature Reviews Methods Primers</i> , 2022, 2, .	21.2	39
2	Peroxisome compartmentalization of a toxic enzyme improves alkaloid production. <i>Nature Chemical Biology</i> , 2021, 17, 96-103.	8.0	75
3	O/N-Specificity in Glycosyltransferase Catalysis: From Mechanistic Understanding to Engineering. <i>ACS Catalysis</i> , 2021, 11, 1810-1815.	11.2	42
4	Exploration of Acetylation as a Base-Labile Protecting Group in <i>Escherichia coli</i> for an Indigo Precursor. <i>ACS Synthetic Biology</i> , 2020, 9, 2775-2783.	3.8	4
5	Targeted Diversification in the <i>S. Cerevisiae</i> Genome with CRISPR-Guided DNA Polymerase I. <i>ACS Synthetic Biology</i> , 2020, 9, 1911-1916.	3.8	33
6	A yeast platform for high-level synthesis of tetrahydroisoquinoline alkaloids. <i>Nature Communications</i> , 2020, 11, 3337.	12.8	101
7	Modular and tunable biological feedback control using a de novo protein switch. <i>Nature</i> , 2019, 572, 265-269.	27.8	96
8	De novo design of bioactive protein switches. <i>Nature</i> , 2019, 572, 205-210.	27.8	190
9	Iterative screening methodology enables isolation of strains with improved properties for a FACS-based screen and increased L-DOPA production. <i>Scientific Reports</i> , 2019, 9, 5815.	3.3	25
10	Genomewide and Enzymatic Analysis Reveals Efficient <i>d</i> -Galacturonic Acid Metabolism in the Basidiomycete Yeast <i>Rhodospiridium toruloides</i> . <i>MSystems</i> , 2019, 4, .	3.8	20
11	Bioproduction of a betalain color palette in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2018, 45, 180-188.	7.0	75
12	Employing a biochemical protecting group for a sustainable indigo dyeing strategy. <i>Nature Chemical Biology</i> , 2018, 14, 256-261.	8.0	143
13	Engineering <i>Saccharomyces cerevisiae</i> for co-utilization of d-galacturonic acid and d-glucose from citrus peel waste. <i>Nature Communications</i> , 2018, 9, 5059.	12.8	65
14	CRISPR-guided DNA polymerases enable diversification of all nucleotides in a tunable window. <i>Nature</i> , 2018, 560, 248-252.	27.8	231
15	Iterative optimization of xylose catabolism in <i>Saccharomyces cerevisiae</i> using combinatorial expression tuning. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1301-1309.	3.3	12
16	Application of a Palladium-Catalyzed C-H Functionalization/Indolization Method to Syntheses of cis-Trikentriin-A and Herbindole-B. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11824-11828.	13.8	40
17	Application of a Palladium-Catalyzed C-H Functionalization/Indolization Method to Syntheses of cis-Trikentriin-A and Herbindole-B. <i>Angewandte Chemie</i> , 2016, 128, 12003-12007.	2.0	10
18	Towards repurposing the yeast peroxisome for compartmentalizing heterologous metabolic pathways. <i>Nature Communications</i> , 2016, 7, 11152.	12.8	128

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19	Microbial Factories for the Production of Benzylisoquinoline Alkaloids. Trends in Biotechnology, 2016, 34, 228-241.	9.3	67
20	Avoidance of Truncated Proteins from Unintended Ribosome Binding Sites within Heterologous Protein Coding Sequences. ACS Synthetic Biology, 2015, 4, 249-257.	3.8	30
21	A Barcoding Strategy Enabling Higher-Throughput Library Screening by Microscopy. ACS Synthetic Biology, 2015, 4, 1205-1216.	3.8	17
22	A Highly Characterized Yeast Toolkit for Modular, Multipart Assembly. ACS Synthetic Biology, 2015, 4, 975-986.	3.8	708
23	An enzyme-coupled biosensor enables (S)-reticuline production in yeast from glucose. Nature Chemical Biology, 2015, 11, 465-471.	8.0	309
24	Engineering Complex Synthetic Transcriptional Programs with CRISPR RNA Scaffolds. Cell, 2015, 160, 339-350.	28.9	809
25	Design and Implementation of a Biomolecular Concentration Tracker. ACS Synthetic Biology, 2015, 4, 150-161.	3.8	80
26	Identification and characterization of a galacturonic acid transporter from Neurospora crassa and its application for Saccharomyces cerevisiae fermentation processes. Biotechnology for Biofuels, 2014, 7, 20.	6.2	54
27	Employing a combinatorial expression approach to characterize xylose utilization in Saccharomyces cerevisiae. Metabolic Engineering, 2014, 25, 20-29.	7.0	79
28	Cell-free protein synthesis: Search for the happy middle. Biotechnology Journal, 2014, 9, 593-594.	3.5	2
29	Selection of chromosomal DNA libraries using a multiplex CRISPR system. ELife, 2014, 3, .	6.0	314
30	Expression-level optimization of a multi-enzyme pathway in the absence of a high-throughput assay. Nucleic Acids Research, 2013, 41, 10668-10678.	14.5	186
31	DNA-guided assembly of biosynthetic pathways promotes improved catalytic efficiency. Nucleic Acids Research, 2012, 40, 1879-1889.	14.5	241
32	Engineering robust control of two-component system phosphotransfer using modular scaffolds. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18090-18095.	7.1	79
33	Spatial organization of enzymes for metabolic engineering. Metabolic Engineering, 2012, 14, 242-251.	7.0	217
34	Metabolic Pathway Flux Enhancement by Synthetic Protein Scaffolding. Methods in Enzymology, 2011, 497, 447-468.	1.0	33
35	Use of modular, synthetic scaffolds for improved production of glucaric acid in engineered E. coli. Metabolic Engineering, 2010, 12, 298-305.	7.0	258
36	BglBricks: A flexible standard for biological part assembly. Journal of Biological Engineering, 2010, 4, 1.	4.7	348

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37	Synthetic protein scaffolds provide modular control over metabolic flux. <i>Nature Biotechnology</i> , 2009, 27, 753-759.	17.5	1,071
38	The pathogen protein EspFU hijacks actin polymerization using mimicry and multivalency. <i>Nature</i> , 2008, 454, 1005-1008.	27.8	105
39	Engineering synthetic signaling proteins with ultrasensitive input/output control. <i>Nature Biotechnology</i> , 2007, 25, 660-662.	17.5	126
40	Rewiring cell signaling: the logic and plasticity of eukaryotic protein circuitry. <i>Current Opinion in Structural Biology</i> , 2004, 14, 690-699.	5.7	127
41	Reprogramming Control of an Allosteric Signaling Switch Through Modular Recombination. <i>Science</i> , 2003, 301, 1904-1908.	12.6	292