John E Dueber

List of Publications by Year
in descending order

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	Synthetic protein scaffolds provide modular control over metabolic flux. Nature Biotechnology, 2009, 27, 753-759.	17.5	1,071
2	Engineering Complex Synthetic Transcriptional Programs with CRISPR RNA Scaffolds. Cell, 2015, 160, 339-350.	28.9	809
3	A Highly Characterized Yeast Toolkit for Modular, Multipart Assembly. ACS Synthetic Biology, 2015, 4, 975-986.	3.8	708
4	BglBricks: A flexible standard for biological part assembly. Journal of Biological Engineering, 2010, 4, 1.	4.7	348
5	Selection of chromosomal DNA libraries using a multiplex CRISPR system. ELife, 2014, 3, .	6.0	314
6	An enzyme-coupled biosensor enables (S)-reticuline production in yeast from glucose. Nature Chemical Biology, 2015, 11, 465-471.	8.0	309
7	Reprogramming Control of an Allosteric Signaling Switch Through Modular Recombination. Science, 2003, 301, 1904-1908.	12.6	292
8	Use of modular, synthetic scaffolds for improved production of glucaric acid in engineered E. coli. Metabolic Engineering, 2010, 12, 298-305.	7.0	258
9	DNA-guided assembly of biosynthetic pathways promotes improved catalytic efficiency. Nucleic Acids Research, 2012, 40, 1879-1889.	14.5	241
10	CRISPR-guided DNA polymerases enable diversification of all nucleotides in a tunable window. Nature, 2018, 560, 248-252.	27.8	231
11	Spatial organization of enzymes for metabolic engineering. Metabolic Engineering, 2012, 14, 242-251.	7.0	217
12	De novo design of bioactive protein switches. Nature, 2019, 572, 205-210.	27.8	190
13	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
14	Employing a biochemical protecting group for a sustainable indigo dyeing strategy. Nature Chemical Biology, 2018, 14, 256-261.	8.0	143
15	Towards repurposing the yeast peroxisome for compartmentalizing heterologous metabolic pathways. Nature Communications, 2016, 7, 11152.	12.8	128
16	Rewiring cell signaling: the logic and plasticity of eukaryotic protein circuitry. Current Opinion in Structural Biology, 2004, 14, 690-699.	5.7	127
17	Engineering synthetic signaling proteins with ultrasensitive input/output control. Nature Biotechnology, 2007, 25, 660-662.	17.5	126
18	The pathogen protein EspFU hijacks actin polymerization using mimicry and multivalency. Nature, 2008, 454, 1005-1008.	27.8	105

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19	A yeast platform for high-level synthesis of tetrahydroisoquinoline alkaloids. Nature Communications, 2020, 11, 3337.	12.8	101
20	Modular and tunable biological feedback control using a de novo protein switch. Nature, 2019, 572, 265-269.	27.8	96
21	Design and Implementation of a Biomolecular Concentration Tracker. ACS Synthetic Biology, 2015, 4, 150-161.	3.8	80
22	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
23	Employing a combinatorial expression approach to characterize xylose utilization in Saccharomyces cerevisiae. Metabolic Engineering, 2014, 25, 20-29.	7.0	79
24	Bioproduction of a betalain color palette in Saccharomyces cerevisiae. Metabolic Engineering, 2018, 45, 180-188.	7.0	75
25	Peroxisome compartmentalization of a toxic enzyme improves alkaloid production. Nature Chemical Biology, 2021, 17, 96-103.	8.0	75
26	Microbial Factories for the Production of Benzylisoquinoline Alkaloids. Trends in Biotechnology, 2016, 34, 228-241.	9.3	67
27	Engineering Saccharomyces cerevisiae for co-utilization of d-galacturonic acid and d-glucose from citrus peel waste. Nature Communications, 2018, 9, 5059.	12.8	65
28	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
29	<i>O</i>-/<i>N</i>-/<i>S</i>-Specificity in Glycosyltransferase Catalysis: From Mechanistic Understanding to Engineering. ACS Catalysis, 2021, 11, 1810-1815.	11.2	42
30	Application of a Palladiumâ€Catalyzed Câ˘'H Functionalization/Indolization Method to Syntheses of <i>cis</i>â€Trikentrinâ€…A and Herbindoleâ€…B. Angewandte Chemie - International Edition, 2016, 55, 11824-11828.	13.8	40
31	In vivo hypermutation and continuous evolution. Nature Reviews Methods Primers, 2022, 2, .	21.2	39
32	Metabolic Pathway Flux Enhancement by Synthetic Protein Scaffolding. Methods in Enzymology, 2011, 497, 447-468.	1.0	33
33	Targeted Diversification in the <i>S.Âcerevisiae</i> Genome with CRISPR-Guided DNA Polymerase I. ACS Synthetic Biology, 2020, 9, 1911-1916.	3.8	33
34	Avoidance of Truncated Proteins from Unintended Ribosome Binding Sites within Heterologous Protein Coding Sequences. ACS Synthetic Biology, 2015, 4, 249-257.	3.8	30
35	Iterative screening methodology enables isolation of strains with improved properties for a FACS-based screen and increased L-DOPA production. Scientific Reports, 2019, 9, 5815.	3.3	25
36	Genomewide and Enzymatic Analysis Reveals Efficient <scp>d</scp> -Galacturonic Acid Metabolism in the Basidiomycete Yeast Rhodosporidium toruloides. MSystems, 2019, 4, .	3.8	20

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37	A Barcoding Strategy Enabling Higher-Throughput Library Screening by Microscopy. ACS Synthetic Biology, 2015, 4, 1205-1216.	3.8	17
38	Iterative optimization of xylose catabolism in <i>Saccharomyces cerevisiae</i> using combinatorial expression tuning. Biotechnology and Bioengineering, 2017, 114, 1301-1309.	3.3	12
39	Application of a Palladiumâ€Catalyzed Câ^'H Functionalization/Indolization Method to Syntheses of cis â€Trikentrinâ€…A and Herbindoleâ€…B. Angewandte Chemie, 2016, 128, 12003-12007.	2.0	10
40	Exploration of Acetylation as a Base-Labile Protecting Group in <i>Escherichia coli</i> for an Indigo Precursor. ACS Synthetic Biology, 2020, 9, 2775-2783.	3.8	4
41	Cell-free protein synthesis: Search for the happy middle. Biotechnology Journal, 2014, 9, 593-594.	3.5	2