Eric P Knoshaug

List of Publications by Year
in descending order

41 papers	1,743 citations	394421 19 h-index	289244 40 g-index
43 all docs	43 docs citations	43 times ranked	2515 citing authors

#	Article	IF	Citations
1	Enzymatic cell wall degradation of Chlorella vulgaris and other microalgae for biofuels production. Planta, 2013, 237, 239-253.	3.2	367
2	Lipid recovery from wet oleaginous microbial biomass for biofuel production: A critical review. Applied Energy, 2016, 177, 879-895.	10.1	260
3	Butanol Tolerance in a Selection of Microorganisms. Applied Biochemistry and Biotechnology, 2009, 153, 13-20.	2.9	205
4	Combined algal processing: A novel integrated biorefinery process to produce algal biofuels and bioproducts. Algal Research, 2016, 19, 316-323.	4.6	184
5	Genome-Scale Metabolic Model for the Green Alga Chlorella vulgaris UTEX 395 Accurately Predicts Phenotypes under Autotrophic, Heterotrophic, and Mixotrophic Growth Conditions. Plant Physiology, 2016, 172, 589-602.	4.8	86
6	Fatty alcohol production in Lipomyces starkeyi and Yarrowia lipolytica. Biotechnology for Biofuels, 2016, 9, 227.	6.2	52
7	Metabolic engineering of Zymomonas mobilis for anaerobic isobutanol production. Biotechnology for Biofuels, 2020, 13, 15.	6.2	49
8	Novel transporters from Kluyveromyces marxianus and Pichia guilliermondii expressed in Saccharomyces cerevisiae enable growth on <scp>l</scp>â€arabinose and <scp>d</scp>â€xylose. Yeast, 2015, 32, 615-628.	1.7	43
9	Oleaginicity of the yeast strain Saccharomyces cerevisiae D5A. Biotechnology for Biofuels, 2018, 11, 258.	6.2	41
10	The Algae Testbed Public-Private Partnership (ATP3) framework; establishment of a national network of testbed sites to support sustainable algae production. Algal Research, 2017, 25, 168-177.	4.6	39
11	Demonstration of parallel algal processing: production of renewable diesel blendstock and a high-value chemical intermediate. Green Chemistry, 2018, 20, 457-468.	9.0	30
12	Exopolysaccharide Expression in Lactococcus lactis subsp. cremoris Ropy352: Evidence for Novel Gene Organization. Applied and Environmental Microbiology, 2007, 73, 897-905.	3.1	26
13	Methodological review of genetic engineering approaches for non-model algae. Algal Research, 2021, 54, 102221.	4.6	24
14	Reliability metrics and their management implications for open pond algae cultivation. Algal Research, 2021, 55, 102249.	4.6	24
15	Pretreatment and fermentation of salt-water grown algal biomass as a feedstock for biofuels and high-value biochemicals. Algal Research, 2018, 36, 239-248.	4.6	23
16	Genome Sequence of the Oleaginous Green Alga, Chlorella vulgaris UTEX 395. Frontiers in Bioengineering and Biotechnology, 2018, 6, 37.	4.1	21
17	Heterologous Expression of Two Ferulic Acid Esterases from Penicillium funiculosum. Applied Biochemistry and Biotechnology, 2008, 146, 79-87.	2.9	20
18	The potential of photosynthetic aquatic species as sources of useful cellulose fibersâ€”a review. Journal of Applied Phycology, 2013, 25, 1123-1134.	2.8	20

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19	Ameliorating the Metabolic Burden of the Co-expression of Secreted Fungal Cellulases in a High Lipid-Accumulating Yarrowia lipolytica Strain by Medium C/N Ratio and a Chemical Chaperone. Frontiers in Microbiology, 2018, 9, 3276.	3.5	20
20	Utilization and transport of l-arabinose by non-Saccharomyces yeasts. Cellulose, 2009, 16, 729-741.	4.9	19
21	Unified field studies of the algae testbed public-private partnership as the benchmark for algae agronomics. Scientific Data, 2018, 5, 180267.	5.3	18
22	Expression and secretion of fungal endoglucanase II and chimeric cellobiohydrolase I in the oleaginous yeast Lipomyces starkeyi. Microbial Cell Factories, 2017, 16, 126.	4.0	14
23	Demonstration and Evaluation of Hybrid Microalgae Aqueous Conversion Systems for Biofuel Production. ACS Sustainable Chemistry and Engineering, 2019, 7, 5835-5844.	6.7	14
24	Expression of an endoglucanaseâ€“cellobiohydrolase fusion protein in Saccharomyces cerevisiae, Yarrowia lipolytica, and Lipomyces starkeyi. Biotechnology for Biofuels, 2018, 11, 322.	6.2	13
25	Upgrading brown grease for the production of biofuel intermediates. Bioresource Technology Reports, 2020, 9, 100344.	2.7	13
26	Lipid accumulation from glucose and xylose in an engineered, naturally oleaginous strain of Saccharomyces cerevisiae. Biofuel Research Journal, 2018, 5, 800-805.	13.3	13
27	Anaerobic Storage and Conversion of Microalgal Biomass to Manage Seasonal Variation in Cultivation. ACS Sustainable Chemistry and Engineering, 2020, 8, 13310-13317.	6.7	11
28	Nuclear and chloroplast genome engineering of a productive non-model alga Desmodesmus armatus: Insights into unusual and selective acquisition mechanisms for foreign DNA. Algal Research, 2021, 53, 102152.	4.6	11
29	The Chlorella vulgaris S-Nitrosoproteome under Nitrogen-Replete and -Deplete Conditions. Frontiers in Bioengineering and Biotechnology, 2016, 4, 100.	4.1	10
30	An alternative biorefinery approach to address microalgal seasonality: blending with spent coffee grounds. Sustainable Energy and Fuels, 2020, 4, 3400-3408.	4.9	10
31	Draft Genome Sequence of the Biofuel-Relevant Microalga Desmodesmus armatus. Microbiology Resource Announcements, 2020, 9, .	0.6	9
32	Nitrogen derived from Combined Algal Processing supports algae cultivation for biofuels. Algal Research, 2020, 50, 101987.	4.6	8
33	Enabling Production of Algal Biofuels by Techno-Economic Optimization of Co-Product Suites. Frontiers in Chemical Engineering, 2022, 3, .	2.7	8
34	Bioproducts from high-protein algal biomass: an economic and environmental sustainability review and risk analysis. Sustainable Energy and Fuels, 2022, 6, 2398-2422.	4.9	6
35	Disruption of the Snf1 Gene Enhances Cell Growth and Reduces the Metabolic Burden in Cellulase-Expressing and Lipid-Accumulating Yarrowia lipolytica. Frontiers in Microbiology, 2021, 12, 757741.	3.5	6
36	High titer fatty alcohol production in Lipomyces starkeyi by fed-batch fermentation. Current Research in Biotechnology, 2020, 2, 83-87.	3.7	5

#	Article	IF	Citations
37	Chimeric cellobiohydrolase I expression, activity, and biochemical properties in three oleaginous yeast. Biotechnology for Biofuels, 2021, 14, 6.	6.2	4
38	Solvent-free spectroscopic method for high-throughput, quantitative screening of fatty acids in yeast biomass. Analytical Methods, 2019, 11, 58-69.	2.7	3
39	Catalytic Hydroprocessing of Single-Cell Oils to Hydrocarbon Fuels. Johnson Matthey Technology Review, 2021, 65, 227-246.	1.0	3
40	Phosphoproteome of the Oleaginous Green Alga, Chlorella vulgaris UTEX 395, under Nitrogen-Replete and -Deplete Conditions. Frontiers in Bioengineering and Biotechnology, 2018, 6, 19.	4.1	1
41	Methods for Algal Protein Isolation and Proteome Analysis. Methods in Molecular Biology, 2020, 2096, 51-59.	0.9	0