

Eric Trably

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5765625/eric-trably-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers

6,449
citations

41
h-index

78
g-index

123
ext. papers

7,667
ext. citations

8
avg. IF

6.17
L-index

#	Paper	IF	Citations
120	Lactic acid production from food waste using a microbial consortium: Focus on key parameters for process upscaling and fermentation residues valorization.. <i>Bioresource Technology</i> , 2022 , 127230	11	1
119	Enhanced Fermentative Hydrogen Production from Food Waste in Continuous Reactor after Butyric Acid Treatment. <i>Energies</i> , 2022 , 15, 4048	3.1	0
118	New sustainable bioconversion concept of date by-products (<i>Phoenix dactylifera</i> L.) to biohydrogen, biogas and date-syrup. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 297-305	6.7	7
117	Glucose electro-fermentation with mixed cultures: A key role of the Clostridiaceae family. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 1694-1704	6.7	9
116	Robust operation through effluent recycling for hydrogen production from the organic fraction of municipal solid waste. <i>Bioresource Technology</i> , 2021 , 319, 124196	11	6
115	A review on key design and operational parameters to optimize and develop hydrothermal liquefaction of biomass for biorefinery applications. <i>Green Chemistry</i> , 2021 , 23, 1404-1446	10	24
114	Mixotrophic Growth of on Acetate and Butyrate: Interplay Between Substrate, C:N Ratio and pH. <i>Frontiers in Microbiology</i> , 2021 , 12, 703614	5.7	4
113	Mechanisms underlying <i>Clostridium pasteurianum</i> metabolic shift when grown with <i>Geobacter sulfurreducens</i> .. <i>Applied Microbiology and Biotechnology</i> , 2021 , 106, 865	5.7	0
112	Biogas sequestration from the headspace of a fermentative system enhances hydrogen production rate and yield. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 11011-11023	6.7	9
111	Enhancing thermophilic dark fermentative hydrogen production at high glucose concentrations via bioaugmentation with <i>Thermotoga neapolitana</i> . <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 17241-17249	6.7	7
110	Novel Outlook in Microbial Ecology: Nonmutualistic Interspecies Electron Transfer. <i>Trends in Microbiology</i> , 2020 , 28, 245-253	12.4	8
109	Mixotrophic growth of microalgae on volatile fatty acids is determined by their undissociated form. <i>Algal Research</i> , 2020 , 47, 101870	5	14
108	Methods to Assess Biological Transformation of Biomass 2020 , 641-730		
107	Formic acid pretreatment for enhanced production of bioenergy and biochemicals from organic solid waste. <i>Biomass and Bioenergy</i> , 2020 , 133, 105455	5.3	14
106	Bioaugmentation enhances dark fermentative hydrogen production in cultures exposed to short-term temperature fluctuations. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 439-449	5.7	9
105	Mitigating the variability of hydrogen production in mixed culture through bioaugmentation with exogenous pure strains. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 2617-2626	6.7	7
104	Impact of the microbial inoculum source on pre-treatment efficiency for fermentative H ₂ production from glycerol. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 1597-1607	6.7	9

103	Standardized protocol for determination of biohydrogen potential. <i>MethodsX</i> , 2020 , 7, 100754	1.9	4
102	Biomethanation processes: new insights on the effect of a high H partial pressure on microbial communities. <i>Biotechnology for Biofuels</i> , 2020 , 13, 141	7.8	18
101	Temperature and Inoculum Origin Influence the Performance of Ex-Situ Biological Hydrogen Methanation. <i>Molecules</i> , 2020 , 25,	4.8	8
100	Inhibition by the ionic strength of hydrogen production from the organic fraction of municipal solid waste. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 5854-5863	6.7	6
99	Reversibility of hydrolysis inhibition at high hydrogen partial pressure in dry anaerobic digestion processes fed with wheat straw and inoculated with anaerobic granular sludge. <i>Waste Management</i> , 2019 , 85, 498-505	8.6	15
98	Behavior of two-chamber microbial electrochemical systems started-up with different ion-exchange membrane separators. <i>Bioresource Technology</i> , 2019 , 278, 279-286	11	23
97	The hydraulic retention time influences the abundance of Enterobacter, Clostridium and Lactobacillus during the hydrogen production from food waste. <i>Letters in Applied Microbiology</i> , 2019 , 69, 138-147	2.9	14
96	Enhancement of mass transfer conditions to increase the productivity and efficiency of dark fermentation in continuous reactors. <i>Fuel</i> , 2019 , 254, 115648	7.1	16
95	Bioelectrochemical Systems for the Valorization of Organic Residues 2019 , 511-534		0
94	Impacts of short-term temperature fluctuations on biohydrogen production and resilience of thermophilic microbial communities. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 8028-8037	6.7	6
93	High-solids anaerobic digestion requires a trade-off between total solids, inoculum-to-substrate ratio and ammonia inhibition. <i>International Journal of Environmental Science and Technology</i> , 2019 , 16, 7011-7024	3.3	16
92	Modelling non-ideal bio-physical-chemical effects on high-solids anaerobic digestion of the organic fraction of municipal solid waste. <i>Journal of Environmental Management</i> , 2019 , 238, 408-419	7.9	5
91	Glucose electro-fermentation as main driver for efficient H ₂ -producing bacteria selection in mixed cultures. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 2230-2238	6.7	15
90	Assessing practical identifiability during calibration and cross-validation of a structured model for high-solids anaerobic digestion. <i>Water Research</i> , 2019 , 164, 114932	12.5	5
89	Improvement of biohydrogen production from glycerol in micro-oxidative environment. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 17802-17812	6.7	11
88	A standardized biohydrogen potential protocol: An international round robin test approach. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 26237-26247	6.7	11
87	Enhancement of corn stover conversion to carboxylates by extrusion and biotic triggers in solid-state fermentation. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 489-503	5.7	5
86	Semi-continuous mono-digestion of OFMSW and Co-digestion of OFMSW with beech sawdust: Assessment of the maximum operational total solid content. <i>Journal of Environmental Management</i> , 2019 , 231, 1293-1302	7.9	8

85	Basics of Bio-hydrogen Production by Dark Fermentation. <i>Green Energy and Technology</i> , 2018 , 199-220	0.6	11
84	Methanosarcina plays a main role during methanogenesis of high-solids food waste and cardboard. <i>Waste Management</i> , 2018 , 76, 423-430	8.6	26
83	A comprehensive review on two-stage integrative schemes for the valorization of dark fermentative effluents. <i>Critical Reviews in Biotechnology</i> , 2018 , 38, 868-882	9.4	37
82	Hydrogen metabolic patterns driven by Clostridium-Streptococcus community shifts in a continuous stirred tank reactor. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 2465-2475	5.7	22
81	Addition of granular activated carbon and trace elements to favor volatile fatty acid consumption during anaerobic digestion of food waste. <i>Bioresource Technology</i> , 2018 , 260, 157-168	11	109
80	Cardboard proportions and total solids contents as driving factors in dry co-fermentation of food waste. <i>Bioresource Technology</i> , 2018 , 248, 229-237	11	16
79	Biohydrogen production from food waste: Current status, limitations, and future perspectives. <i>Bioresource Technology</i> , 2018 , 248, 79-87	11	87
78	Electro-fermentation triggering population selection in mixed-culture glycerol fermentation. <i>Microbial Biotechnology</i> , 2018 , 11, 74-83	6.3	28
77	Effect of total solids content on biohydrogen production and lactic acid accumulation during dark fermentation of organic waste biomass. <i>Bioresource Technology</i> , 2018 , 248, 180-186	11	38
76	Pretreatment of food waste for methane and hydrogen recovery: A review. <i>Bioresource Technology</i> , 2018 , 249, 1025-1039	11	153
75	Co-production of Hydrogen and Methane From the Organic Fraction of Municipal Solid Waste in a Pilot Scale Dark Fermenter and Methanogenic Biofilm Reactor. <i>Frontiers in Environmental Science</i> , 2018 , 6,	4.8	10
74	High-solids anaerobic digestion model for homogenized reactors. <i>Water Research</i> , 2018 , 142, 501-511	12.5	29
73	The environmental biorefinery: state-of-the-art on the production of hydrogen and value-added biomolecules in mixed-culture fermentation. <i>Green Chemistry</i> , 2018 , 20, 3159-3179	10	83
72	Microbial Ecology of Anodic Biofilms: From Species Selection to Microbial Interactions 2018 , 63-85		1
71	On the actual anode area that contributes to the current density produced by electroactive biofilms. <i>Electrochimica Acta</i> , 2018 , 259, 395-401	6.7	4
70	Co-ensiling as a new technique for long-term storage of agro-industrial waste with low sugar content prior to anaerobic digestion. <i>Waste Management</i> , 2018 , 71, 147-155	8.6	29
69	Biohydrogen production at pH below 3.0: Is it possible?. <i>Water Research</i> , 2018 , 128, 350-361	12.5	37
68	Continuous biohydrogen production from a food industry waste: Influence of operational parameters and microbial community analysis. <i>Journal of Cleaner Production</i> , 2018 , 174, 1054-1063	10.3	36

67	Microbial anodic consortia fed with fermentable substrates in microbial electrolysis cells: Significance of microbial structures. <i>Bioelectrochemistry</i> , 2018 , 123, 219-226	5.6	15
66	Dry anaerobic digestion of food waste and cardboard at different substrate loads, solid contents and co-digestion proportions. <i>Bioresource Technology</i> , 2017 , 233, 166-175	11	69
65	Cooperative growth of <i>Geobacter sulfurreducens</i> and <i>Clostridium pasteurianum</i> with subsequent metabolic shift in glycerol fermentation. <i>Scientific Reports</i> , 2017 , 7, 44334	4.9	27
64	Dark-fermentative biohydrogen pathways and microbial networks in continuous stirred tank reactors: Novel insights on their control. <i>Applied Energy</i> , 2017 , 198, 77-87	10.7	64
63	Assessment of hydrothermal pretreatment of various lignocellulosic biomass with CO catalyst for enhanced methane and hydrogen production. <i>Water Research</i> , 2017 , 120, 32-42	12.5	55
62	Microbial ecology of fermentative hydrogen producing bioprocesses: useful insights for driving the ecosystem function. <i>FEMS Microbiology Reviews</i> , 2017 , 41, 158-181	15.1	127
61	Coupling dark fermentation and microbial electrolysis to enhance bio-hydrogen production from agro-industrial wastewaters and by-products in a bio-refinery framework. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 1609-1621	6.7	86
60	Impact of hydraulic retention time (HRT) and pH on dark fermentative hydrogen production from glycerol. <i>Energy</i> , 2017 , 141, 358-367	7.9	28
59	Biodegradation of polycyclic aromatic hydrocarbons: Using microbial bioelectrochemical systems to overcome an impasse. <i>Environmental Pollution</i> , 2017 , 231, 509-523	9.3	84
58	Revealing extracellular electron transfer mediated parasitism: energetic considerations. <i>Scientific Reports</i> , 2017 , 7, 7766	4.9	15
57	High hydrogen production rate in a submerged membrane anaerobic bioreactor. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 24656-24666	6.7	24
56	Kinetic study of dry anaerobic co-digestion of food waste and cardboard for methane production. <i>Waste Management</i> , 2017 , 69, 470-479	8.6	34
55	Trends and Challenges in Biohydrogen Production from Agricultural Waste 2017 , 69-95		7
54	Bidirectional microbial electron transfer: Switching an acetate oxidizing biofilm to nitrate reducing conditions. <i>Biosensors and Bioelectronics</i> , 2016 , 75, 352-8	11.8	57
53	Consistent 1,3-propanediol production from glycerol in mixed culture fermentation over a wide range of pH. <i>Biotechnology for Biofuels</i> , 2016 , 9, 32	7.8	51
52	Life cycle assessment of hydrogen production from biogas reforming. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 6064-6075	6.7	46
51	Effects of operational parameters on dark fermentative hydrogen production from biodegradable complex waste biomass. <i>Waste Management</i> , 2016 , 50, 55-64	8.6	65
50	Potentialities of dark fermentation effluents as substrates for microalgae growth: A review. <i>Process Biochemistry</i> , 2016 , 51, 1843-1854	4.8	60

49	High robustness of a simplified microbial consortium producing hydrogen in long term operation of a biofilm fermentative reactor. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 2367-2376	6.7	11
48	Bioelectrochemical treatment of table olive brine processing wastewater for biogas production and phenolic compounds removal. <i>Water Research</i> , 2016 , 100, 316-325	12.5	41
47	Electro-Fermentation: How To Drive Fermentation Using Electrochemical Systems. <i>Trends in Biotechnology</i> , 2016 , 34, 856-865	15.1	182
46	The type of carbohydrates specifically selects microbial community structures and fermentation patterns. <i>Bioresource Technology</i> , 2016 , 221, 541-549	11	33
45	Nutritional stress induces exchange of cell material and energetic coupling between bacterial species. <i>Nature Communications</i> , 2015 , 6, 6283	17.4	95
44	Microbial characterization of anode-respiring bacteria within biofilms developed from cultures previously enriched in dissimilatory metal-reducing bacteria. <i>Bioresource Technology</i> , 2015 , 195, 283-7	11	17
43	Adaptation of acidogenic sludge to increasing glycerol concentrations for biohydrogen production. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 8295-308	5.7	18
42	Specific and efficient electrochemical selection of <i>Geobacter</i> <i>subterraneus</i> and <i>Desulfuromonas acetoxidans</i> in high current-producing biofilms. <i>Bioelectrochemistry</i> , 2015 , 106, 221-5	5.6	29
41	Biomass hydrolysis inhibition at high hydrogen partial pressure in solid-state anaerobic digestion. <i>Bioresource Technology</i> , 2015 , 190, 106-13	11	83
40	Biohydrogen production by dark fermentation: scaling-up and technologies integration for a sustainable system. <i>Reviews in Environmental Science and Biotechnology</i> , 2015 , 14, 761-785	13.9	77
39	Growth of <i>Chlorella sorokiniana</i> on a mixture of volatile fatty acids: The effects of light and temperature. <i>Bioresource Technology</i> , 2015 , 198, 852-60	11	28
38	How to use molecular biology tools for the study of the anaerobic digestion process?. <i>Reviews in Environmental Science and Biotechnology</i> , 2015 , 14, 555-593	13.9	45
37	Raw dark fermentation effluent to support heterotrophic microalgae growth: microalgae successfully outcompete bacteria for acetate. <i>Algal Research</i> , 2015 , 12, 119-125	5	37
36	Use of fermentative metabolites for heterotrophic microalgae growth: Yields and kinetics. <i>Bioresource Technology</i> , 2015 , 175, 342-9	11	53
35	Alkaline pretreatment to enhance one-stage CH ₄ and two-stage H ₂ /CH ₄ production from sunflower stalks: Mass, energy and economical balances. <i>Chemical Engineering Journal</i> , 2015 , 260, 377-385	14.7	92
34	Long-term continuous production of H ₂ in a microbial electrolysis cell (MEC) treating saline wastewater. <i>Water Research</i> , 2015 , 81, 149-56	12.5	77
33	Biohydrogen production from food waste by coupling semi-continuous dark-photofermentation and residue post-treatment to anaerobic digestion: A synergy for energy recovery. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 16045-16055	6.7	54
32	A review on dark fermentative biohydrogen production from organic biomass: Process parameters and use of by-products. <i>Applied Energy</i> , 2015 , 144, 73-95	10.7	554

31	Fermentative hydrogen production under moderate halophilic conditions. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 7508-7517	6.7	27
30	Do furanic and phenolic compounds of lignocellulosic and algae biomass hydrolyzate inhibit anaerobic mixed cultures? A comprehensive review. <i>Biotechnology Advances</i> , 2014 , 32, 934-51	17.8	292
29	Integrating microalgae production with anaerobic digestion: a biorefinery approach. <i>Biofuels, Bioproducts and Biorefining</i> , 2014 , 8, 516-529	5.3	108
28	Total solid content drives hydrogen production through microbial selection during thermophilic fermentation. <i>Bioresource Technology</i> , 2014 , 166, 610-5	11	29
27	Predictive and explicative models of fermentative hydrogen production from solid organic waste: Role of butyrate and lactate pathways. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 7476-7485	6.7	56
26	Specific inhibition of biohydrogen-producing <i>Clostridium</i> sp. after dilute-acid pretreatment of sunflower stalks. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 12273-12282	6.7	63
25	Total solids content: a key parameter of metabolic pathways in dry anaerobic digestion. <i>Biotechnology for Biofuels</i> , 2013 , 6, 164	7.8	99
24	Two-stage alkaline-enzymatic pretreatments to enhance biohydrogen production from sunflower stalks. <i>Environmental Science & Technology</i> , 2013 , 47, 12591-9	10.3	34
23	Sub-dominant bacteria as keystone species in microbial communities producing bio-hydrogen. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 4975-4985	6.7	70
22	Microbial community signature of high-solid content methanogenic ecosystems. <i>Bioresource Technology</i> , 2013 , 133, 256-62	11	36
21	Lignocellulosic Materials Into Biohydrogen and Biomethane: Impact of Structural Features and Pretreatment. <i>Critical Reviews in Environmental Science and Technology</i> , 2013 , 43, 260-322	11.1	265
20	High current density via direct electron transfer by the halophilic anode respiring bacterium <i>Geoalkalibacter subterraneus</i> . <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 19699-707	3.6	45
19	Total solids content drives high solid anaerobic digestion via mass transfer limitation. <i>Bioresource Technology</i> , 2012 , 111, 55-61	11	264
18	Effect of enzyme addition on fermentative hydrogen production from wheat straw. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 10639-10647	6.7	70
17	Anaerobic Removal of Trace Organic Contaminants in Sewage Sludge: 15 Years of Experience. <i>Pedosphere</i> , 2012 , 22, 508-517	5	28
16	Innovative CO ₂ pretreatment for enhancing biohydrogen production from the organic fraction of municipal solid waste (OFMSW). <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 14062-14071	6.7	23
15	Predictive models of biohydrogen and biomethane production based on the compositional and structural features of lignocellulosic materials. <i>Environmental Science & Technology</i> , 2012 , 46, 12217-25	19.3	155
14	Inhibition of fermentative hydrogen production by lignocellulose-derived compounds in mixed cultures. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 3150-3159	6.7	143

13	Changes in hydrogenase genetic diversity and proteomic patterns in mixed-culture dark fermentation of mono-, di- and tri-saccharides. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 11654-11665	6.7	36
12	Functional versus phylogenetic fingerprint analyses for monitoring hydrogen-producing bacterial populations in dark fermentation cultures. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 3870-3879	6.7	31
11	Hydrogen production from agricultural waste by dark fermentation: A review. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 10660-10673	6.7	562
10	Development and application of a functional CE-SSCP fingerprinting method based on [FeFe]-hydrogenase genes for monitoring hydrogen-producing <i>Clostridium</i> in mixed cultures. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 13158-13167	6.7	27
9	A strict anaerobic extreme thermophilic hydrogen-producing culture enriched from digested household waste. <i>Journal of Applied Microbiology</i> , 2009 , 106, 1041-9	4.7	10
8	Effect of post-digestion temperature on serial CSTR biogas reactor performance. <i>Water Research</i> , 2009 , 43, 669-76	12.5	22
7	Microbial dynamics in anaerobic enrichment cultures degrading di-n-butyl phthalic acid ester. <i>FEMS Microbiology Ecology</i> , 2008 , 66, 472-83	4.3	4
6	Successful treatment of low PAH-contaminated sewage sludge in aerobic bioreactors. <i>Environmental Science and Pollution Research</i> , 2006 , 13, 170-6	5.1	47
5	Acetate oxidation is the dominant methanogenic pathway from acetate in the absence of Methanosaetaceae. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 5138-41	4.8	299
4	Safe Recycling of Sewage Sludge on Agricultural Land. <i>Biowaste. Chemical Engineering Research and Design</i> , 2006 , 84, 253-257	5.5	9
3	Impact of anaerobic and aerobic processes on polychlorobiphenyl removal in contaminated sewage sludge. <i>Biodegradation</i> , 2006 , 17, 9-17	4.1	35
2	Statistical tools for the optimization of a highly reproducible method for the analysis of polycyclic aromatic hydrocarbons in sludge samples. <i>International Journal of Environmental Analytical Chemistry</i> , 2004 , 84, 995-1008	1.8	35
1	Circular Economy Applied to Organic Residues and Wastewater: Research Challenges. <i>Waste and Biomass Valorization</i> , 2011 , 12, 1-10	3.2	1