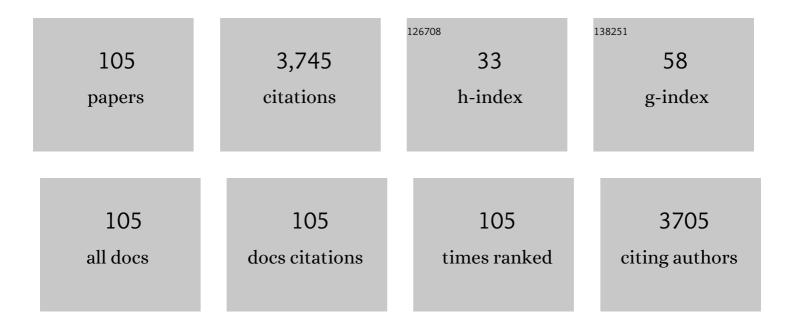
## Nandor Nemestothy

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Lignocellulose biohydrogen: Practical challenges and recent progress. Renewable and Sustainable Energy Reviews, 2015, 44, 728-737.	8.2	244
2	Gas separation properties of supported liquid membranes prepared with unconventional ionic liquids. Journal of Membrane Science, 2010, 349, 6-11.	4.1	202
3	A critical review on issues and overcoming strategies for the enhancement of dark fermentative hydrogen production in continuous systems. International Journal of Hydrogen Energy, 2016, 41, 3820-3836.	3.8	194
4	Biohydrogen purification by membranes: An overview on the operational conditions affecting the performance of non-porous, polymeric and ionic liquid based gas separation membranes. International Journal of Hydrogen Energy, 2013, 38, 9673-9687.	3.8	136
5	A comprehensive review on thermochemical, biological, biochemical and hybrid conversion methods of bio-derived lignocellulosic molecules into renewable fuels. Fuel, 2019, 251, 352-367.	3.4	111
6	Review on the start-up experiences of continuous fermentative hydrogen producing bioreactors. Renewable and Sustainable Energy Reviews, 2014, 40, 806-813.	8.2	108
7	Enhancement of biofuel production via microbial augmentation: The case of dark fermentative hydrogen. Renewable and Sustainable Energy Reviews, 2016, 57, 879-891.	8.2	108
8	Enzymatic esterification in ionic liquids integrated with pervaporation for water removal. Green Chemistry, 2003, 5, 236.	4.6	97
9	Bioelectrochemical treatment of municipal waste liquor in microbial fuel cells for energy valorization. Journal of Cleaner Production, 2016, 112, 4406-4412.	4.6	91
10	Bioelectrochemical systems using microalgae – A concise research update. Chemosphere, 2017, 177, 35-43.	4.2	88
11	A review on the biomass pretreatment and inhibitor removal methods as key-steps towards efficient macroalgae-based biohydrogen production. Bioresource Technology, 2017, 244, 1341-1348.	4.8	79
12	Microbial electrochemical systems for sustainable biohydrogen production: Surveying the experiences from a start-up viewpoint. Renewable and Sustainable Energy Reviews, 2017, 70, 589-597.	8.2	79
13	Separation of biohydrogen by supported ionic liquid membranes. Desalination, 2009, 240, 311-315.	4.0	76
14	Hydrogen production in a microbial electrolysis cell fed with a dark fermentation effluent. Journal of Applied Electrochemistry, 2015, 45, 1223-1229.	1.5	71
15	Biofouling of membranes in microbial electrochemical technologies: Causes, characterization methods and mitigation strategies. Bioresource Technology, 2019, 279, 327-338.	4.8	71
16	Microbial electrohydrogenesis linked to dark fermentation as integrated application for enhanced biohydrogen production: A review on process characteristics, experiences and lessons. Bioresource Technology, 2018, 251, 381-389.	4.8	68
17	Continuous enzymatic cellulose hydrolysis in a tubular membrane bioreactor. Enzyme and Microbial Technology, 2006, 38, 155-161.	1.6	67
18	Simultaneous biohydrogen production and purification in a double-membrane bioreactor system. International Journal of Hydrogen Energy, 2015, 40, 1690-1697.	3.8	64

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19	A novel gas separation integrated membrane bioreactor to evaluate the impact of self-generated biogas recycling on continuous hydrogen fermentation. Applied Energy, 2017, 190, 813-823.	5.1	64
20	A review on chemical mechanism of microalgae flocculation via polymers. Biotechnology Reports (Amsterdam, Netherlands), 2019, 21, e00302.	2.1	64
21	Architectural engineering of bioelectrochemical systems from the perspective of polymeric membrane separators: A comprehensive update on recent progress and future prospects. Journal of Membrane Science, 2018, 564, 508-522.	4.1	63
22	Enhanced biohydrogen production from beverage industrial wastewater using external nitrogen sources and bioaugmentation with facultative anaerobic strains. Journal of Bioscience and Bioengineering, 2015, 120, 155-160.	1.1	61
23	Biohydrogen purification using a commercial polyimide membrane module: Studying the effects of some process variables. International Journal of Hydrogen Energy, 2013, 38, 15092-15099.	3.8	55
24	Study on gas separation by supported liquid membranes applying novel ionic liquids. Desalination, 2009, 245, 743-747.	4.0	54
25	Evaluation of two gas membrane modules forÂfermentative hydrogen separation. International Journal of Hydrogen Energy, 2013, 38, 14042-14052.	3.8	54
26	Hydrolysis of pectin by Aspergillus niger polygalacturonase in a membrane bioreactor. Journal of Food Engineering, 2007, 78, 438-442.	2.7	53
27	Municipal waste liquor treatment via bioelectrochemical and fermentation (H2Â+ÂCH4) processes: Assessment of various technological sequences. Chemosphere, 2017, 171, 692-701.	4.2	50
28	Improved microbial conversion of de-oiled Jatropha waste into biohydrogen via inoculum pretreatment: process optimization by experimental design approach. Biofuel Research Journal, 0, , 209-214.	7.2	46
29	Recovery of biohydrogen in a single-chamber microbial electrohydrogenesis cell using liquid fraction of pressed municipal solid waste (LPW) asÂsubstrate. International Journal of Hydrogen Energy, 2016, 41, 17896-17906.	3.8	41
30	Application of Plackett–Burman experimental design to optimize biohydrogen fermentation by E. coli (XL1-BLUE). International Journal of Hydrogen Energy, 2011, 36, 13949-13954.	3.8	40
31	Performance evaluation of microbial electrochemical systems operated with Nafion and supported ionic liquid membranes. Chemosphere, 2017, 175, 350-355.	4.2	40
32	Supported ionic liquid membrane based on [bmim][PF6] can be a promising separator to replace Nafion in microbial fuel cells and improve energy recovery: A comparative process evaluation. Journal of Membrane Science, 2019, 570-571, 215-225.	4.1	39
33	Fermentative hydrogen production by conventionally and unconventionally heat pretreated seed cultures: A comparative assessment. International Journal of Hydrogen Energy, 2014, 39, 5589-5596.	3.8	36
34	Enzymatically-boosted ionic liquid gas separation membranes using carbonic anhydrase of biomass origin. Chemical Engineering Journal, 2016, 303, 621-626.	6.6	34
35	Continuous micro-current stimulation to upgrade methanolic wastewater biodegradation and biomethane recovery in an upflow anaerobic sludge blanket (UASB) reactor. Chemosphere, 2017, 180, 229-238.	4.2	33
36	A review of the innovative gas separation membrane bioreactor with mechanisms for integrated production and purification of biohydrogen. Bioresource Technology, 2018, 270, 643-655.	4.8	33

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37	Evaluation of a membrane permeation system for biogas upgrading using model and real gaseous mixtures: The effect of operating conditions on separation behaviour, methane recovery and process stability. Journal of Cleaner Production, 2018, 185, 44-51.	4.6	32
38	Investigating the specific role of external load on the performance versus stability trade-off in microbial fuel cells. Bioresource Technology, 2020, 309, 123313.	4.8	32
39	Development of bioelectrochemical systems using various biogas fermenter effluents as inocula and municipal waste liquor as adapting substrate. Bioresource Technology, 2018, 259, 75-82.	4.8	31
40	Development and Application of Supported Ionic Liquid Membranes in Microbial Fuel Cell Technology: A Concise Overview. Membranes, 2020, 10, 16.	1.4	31
41	Degradation of hydrogen sulfide by immobilized Thiobacillus thioparus in continuous biotrickling reactor fed with synthetic gas mixture. International Biodeterioration and Biodegradation, 2015, 105, 185-191.	1.9	29
42	Behavior of two-chamber microbial electrochemical systems started-up with different ion-exchange membrane separators. Bioresource Technology, 2019, 278, 279-286.	4.8	29
43	A study on applications of membrane techniques in bioconversion of fumaric acid to L-malic acid. Desalination, 2004, 162, 301-306.	4.0	28
44	Escherichia coli (XL1-BLUE) for continuous fermentation of bioH2 and its separation by polyimide membrane. International Journal of Hydrogen Energy, 2012, 37, 5623-5630.	3.8	28
45	Comparison of Anaerobic Degradation Processes for Bioenergy Generation from Liquid Fraction of Pressed Solid Waste. Waste and Biomass Valorization, 2015, 6, 465-473.	1.8	27
46	On the efficiency of dual-chamber biocatalytic electrochemical cells applying membrane separators prepared with imidazolium-type ionic liquids containing [NTf 2 ] â^' and [PF 6 ] â^' anions. Chemical Engineering Journal, 2017, 324, 296-302.	6.6	27
47	Enhancement of dark fermentative H2 production by gas separation membranes: A review. Bioresource Technology, 2020, 302, 122828.	4.8	27
48	The influential role of external electrical load in microbial fuel cells and related improvement strategies: A review. Bioelectrochemistry, 2021, 140, 107749.	2.4	27
49	Biogenic H2 production from mixed microalgae biomass: impact of pH control and methanogenic inhibitor (BESA) addition. Biofuel Research Journal, 2016, 3, 470-474.	7.2	27
50	Influence of pervaporation process parameters on enzymatic catalyst deactivation. Desalination, 2004, 162, 307-313.	4.0	26
51	Assessment via the modified gompertz-model reveals new insights concerning the effects of ionic liquids on biohydrogen production. International Journal of Hydrogen Energy, 2018, 43, 18918-18924.	3.8	25
52	Utilisation of bipolar electrodialysis for recovery of galacturonic acid. Desalination, 2010, 250, 1128-1131.	4.0	23
53	Lipase catalyzed synthesis of glucose palmitate in ionic liquid. Journal of Cleaner Production, 2016, 112, 1106-1111.	4.6	23
54	Separation of Volatile Fatty Acids from Model Anaerobic Effluents Using Various Membrane Technologies. Membranes, 2020, 10, 252.	1.4	21

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55	Enzyme kinetics approach to assess biocatalyst inhibition and deactivation caused by [bmim][Cl] ionic liquid during cellulose hydrolysis. Bioresource Technology, 2017, 229, 190-195.	4.8	20
56	Possibilities for the biologically-assisted utilization of CO2-rich gaseous waste streams generated during membrane technological separation of biohydrogen. Journal of CO2 Utilization, 2020, 36, 231-243.	3.3	20
57	Low-waste fermentation-derived organic acid production by bipolar membrane electrodialysis—an overview. Chemical Papers, 2021, 75, 5223-5234.	1.0	20
58	The Impact of Various Natural Gas Contaminant Exposures on CO2/CH4 Separation by a Polyimide Membrane. Membranes, 2020, 10, 324.	1.4	19
59	Utilization of electrodialysis for galacturonic acid recovery. Desalination, 2009, 241, 81-85.	4.0	18
60	Pervaporation aided enzymatic production of glycerol monostearate in organic solvents. Desalination, 2009, 241, 212-217.	4.0	17
61	Evaluation of pectin-reinforced supported liquid membranes containing carbonic anhydrase: The role of ionic liquid on enzyme stability and CO2 separation performance. Journal of CO2 Utilization, 2018, 24, 59-63.	3.3	17
62	Improvement of waste-fed bioelectrochemical system performance by selected electro-active microbes: Process evaluation and a kinetic study. Biochemical Engineering Journal, 2018, 137, 100-107.	1.8	17
63	Leachate valorization in anaerobic biosystems: Towards the realization of waste-to-energy concept via biohydrogen, biogas and bioelectrochemical processes. International Journal of Hydrogen Energy, 2019, 44, 17278-17296.	3.8	16
64	Effects of light intensity on biomass, carbohydrate and fatty acid compositions of three different mixed consortia from natural ecological water bodies. Journal of Environmental Management, 2019, 230, 293-300.	3.8	16
65	Vacuum assisted membrane bioreactor for enzymatic hydrolysis of pectin from various agro-wastes. Desalination, 2009, 241, 29-33.	4.0	15
66	Electrochemical and microbiological insights into the use of 1,4-diazabicyclo[2.2.2]octane-functionalized anion exchange membrane in microbial fuel cell: A benchmarking study with Nafion. Separation and Purification Technology, 2020, 237, 116478.	3.9	15
67	Optimized pH and Its Control Strategy Lead to Enhanced Itaconic Acid Fermentation by Aspergillus terreus on Glucose Substrate. Fermentation, 2019, 5, 31.	1.4	14
68	Evaluating aeration and stirring effects to improve itaconic acid production from glucose using Aspergillus terreus. Biotechnology Letters, 2019, 41, 1383-1389.	1.1	12
69	Directions of membrane separator development for microbial fuel cells: A retrospective analysis using frequent itemset mining and descriptive statistical approach. Journal of Power Sources, 2020, 478, 229014.	4.0	12
70	Efficiency, operational stability and biofouling of novel sulfomethylated polystyrene-block-poly(ethylene-ran-butylene)-block-polystyrene cation exchange membrane in microbial fuel cells. Bioresource Technology, 2021, 333, 125153.	4.8	12
71	Application of polymeric foams for separation, storage and absorption of hydrogen. Desalination, 2009, 241, 106-110.	4.0	11
72	Effects of anti-foaming agents on biohydrogen production. Bioresource Technology, 2016, 213, 121-128.	4.8	11

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73	Comparative Evaluation of CO2 Fixation of Microalgae Strains at Various CO2 Aeration Conditions. Waste and Biomass Valorization, 2021, 12, 2999-3007.	1.8	10
74	Treatment of dark fermentative H2 production effluents by microbial fuel cells: A tutorial review on promising operational strategies and practices. International Journal of Hydrogen Energy, 2021, 46, 5556-5569.	3.8	10
75	Modelling of biohydrogen production and recovery by membrane gas separation. Desalination, 2009, 240, 306-310.	4.0	9
76	Feasibility of quaternary ammonium and 1,4-diazabicyclo[2.2.2]octane-functionalized anion-exchange membranes for biohydrogen production in microbial electrolysis cells. Bioelectrochemistry, 2020, 133, 107479.	2.4	9
77	Demonstration of bipolar membrane electrodialysis technique for itaconic acid recovery from real fermentation effluent of Aspergillus terreus. Chemical Engineering Research and Design, 2021, 175, 348-357.	2.7	9
78	Membrane bioreactor for utilisation of carbohydrates in waste streams. Desalination, 2002, 149, 329-330.	4.0	8
79	Study on operation of a microbial fuel cell using mesophilic anaerobic sludge. Desalination and Water Treatment, 2011, 35, 222-226.	1.0	8
80	Evaluation and ranking of polymeric ion exchange membranes used in microbial electrolysis cells for biohydrogen production. Bioresource Technology, 2021, 319, 124182.	4.8	8
81	Enhancement of operation and storage stability of glucoamylase fromAspergillus awamoriby a protease inhibitor preparation. Biocatalysis and Biotransformation, 2005, 23, 281-284.	1.1	7
82	Biohydrogen production in integrated system. Desalination and Water Treatment, 2010, 14, 116-118.	1.0	7
83	Comparative Study of Various <i>E. coli</i> Strains for Biohydrogen Production Applying Response Surface Methodology. Scientific World Journal, The, 2012, 2012, 1-7.	0.8	7
84	Separation of Gases Using Membranes Containing Ionic Liquids. , 2014, , 261-273.		7
85	Characterization of pectins from press residues of berries by FT-IR spectroscopy. Acta Alimentaria, 2012, 41, 94-99.	0.3	6
86	Carbohydrate to Itaconic Acid Conversion by Aspergillus terreus and the Evaluation of Process Monitoring Based on the Measurement of CO2. Waste and Biomass Valorization, 2020, 11, 1069-1075.	1.8	6
87	Recovery of Itaconic Acid by Electrodialysis. Hungarian Journal of Industrial Chemistry, 2018, 46, 43-46.	0.1	6
88	Functional stability of novel homogeneous and heterogeneous cation exchange membranes for abiotic and microbial electrochemical technologies. Journal of Membrane Science, 2022, 658, 120705.	4.1	6
89	Utilisation of a membrane bioreactor for pectin hydrolysis by Aspergillus niger polygalacturonase. Desalination, 2006, 200, 507-508.	4.0	5
90	Studying microbial fuel cells equipped with heterogeneous ion exchange membranes: Electrochemical performance and microbial community assessment of anodic and membrane-surface biofilms. Bioresource Technology, 2022, 360, 127628.	4.8	5

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91	Application of membranes in biogas production. Desalination and Water Treatment, 2010, 14, 112-115.	1.0	4
92	Investigation of Itaconic Acid Separation by Operating a Commercialized Electrodialysis Unit with Bipolar Membranes. Processes, 2020, 8, 1031.	1.3	3
93	Feasibility study of polyetherimide membrane for enrichment of carbon dioxide from synthetic biohydrogen mixture and subsequent utilization scenario using microalgae. International Journal of Energy Research, 2021, 45, 8327-8334.	2.2	3
94	Investigating the Proton and Ion Transfer Properties of Supported Ionic Liquid Membranes Prepared for Bioelectrochemical Applications Using Hydrophobic Imidazolium-Type Ionic Liquids. Membranes, 2021, 11, 359.	1.4	3
95	Removal of COD by Two-Chamber Microbial Fuel Cells. , 2014, , .		2
96	A novel miniaturized terrestrial microbial fuel cell reveals rapid electrochemical signals. Energy Procedia, 2017, 142, 1482-1487.	1.8	2
97	Aerobic stabilization of organic waste effluents from anaerobic treatment for agricultural use. , 0, 192, 424-430.		2
98	The Role of Ionic Liquids in Enzyme-Membrane Integrated Systems. , 2014, , 235-259.		1
99	The Role of Biocatalysis and Membrane Techniques in Processing High-Pectin Content Food Stuffs and Wastes. , 2017, , 277-292.		1
100	Application of membranes in biogas production. Desalination and Water Treatment, 2010, , 112-115.	1.0	1
101	Managing the Effluents of Anaerobic Fermentations by Bioprocess Schemes Involving Membrane Bioreactors and Bio-Electrochemical Systems: A Mini-Review. Energies, 2022, 15, 1643.	1.6	1
102	Biotechnological Utilisation of Fusel Oil for Biolubricant Production. , 2012, , .		0
103	Corrigendum to "Enhancement of biofuel production via microbial augmentation: The case of dark fermentative hydrogen―[Renew Sustain Energy Rev 57 (2016) 879–891]. Renewable and Sustainable Energy Reviews, 2016, 66, 220.	8.2	0
104	Coupled Systems Based on Microbial Fuel Cells. , 2018, , 423-431.		0
105	Application of polymer membranes in downstream processes. ChemistrySelect, 2020, 5, .	0.7	0