Hasan K Atiyeh

List of Publications by Year
in descending order

61 papers	3,203 citations	147801 31 h-index	149698 56 g-index
62 all docs	62 docs citations	62 times ranked	2758 citing authors

#	Article	IF	Citations
1	The Genome of the Anaerobic Fungus Orpinomyces sp. Strain C1A Reveals the Unique Evolutionary History of a Remarkable Plant Biomass Degrader. Applied and Environmental Microbiology, 2013, 79, 4620-4634.	3.1	224
2	Butanol and hexanol production in Clostridium carboxidivorans syngas fermentation: Medium development and culture techniques. Bioresource Technology, 2015, 190, 114-121.	9.6	211
3	Ethanol production from syngas by Clostridium strain P11 using corn steep liquor as a nutrient replacement to yeast extract. Bioresource Technology, 2011, 102, 6494-6501.	9.6	167
4	Experimental investigation of the role of a microporous layer on the water transport and performance of a PEM fuel cell. Journal of Power Sources, 2007, 170, 111-121.	7.8	166
5	Syngas Fermentation: A Microbial Conversion Process of Gaseous Substrates to Various Products. Fermentation, 2017, 3, 28.	3.0	136
6	Continuous syngas fermentation for the production of ethanol, n-propanol and n-butanol. Bioresource Technology, 2014, 151, 69-77.	9.6	129
7	A review of conversion processes for bioethanol production with a focus on syngas fermentation. Biofuel Research Journal, 2015, 2, 268-280.	13.3	123
8	A comparison of mass transfer coefficients between trickle-bed, hollow fiber membrane and stirred tank reactors. Bioresource Technology, 2013, 133, 340-346.	9.6	115
9	Syngas fermentation process development for production of biofuels and chemicals: A review. Bioresource Technology Reports, 2019, 7, 100279.	2.7	109
10	Fermentative production of ethanol from syngas using novel moderately alkaliphilic strains of Alkalibaculum bacchi. Bioresource Technology, 2012, 104, 336-341.	9.6	97
11	Biochar facilitated bioprocessing and biorefinery for productions of biofuel and chemicals: A review. Bioresource Technology, 2020, 295, 122252.	9.6	97
12	Simultaneous saccharification and fermentation of Kanlow switchgrass by thermotolerant Kluyveromyces marxianus IMB3: The effect of enzyme loading, temperature and higher solid loadings. Bioresource Technology, 2011, 102, 10618-10624.	9.6	96
13	Microbial production of ethanol from carbon monoxide. Current Opinion in Biotechnology, 2011, 22, 326-330.	6.6	96
14	Butanol production from hydrothermolysis-pretreated switchgrass: Quantification of inhibitors and detoxification of hydrolyzate. Bioresource Technology, 2015, 189, 292-301.	9.6	93
15	Mixed culture syngas fermentation and conversion of carboxylic acids into alcohols. Bioresource Technology, 2014, 152, 337-346.	9.6	90
16	Ethanol production during semi-continuous syngas fermentation in a trickle bed reactor using Clostridium ragsdalei. Bioresource Technology, 2016, 209, 56-65.	9.6	86
17	Physiological response of Clostridium carboxidivorans during conversion of synthesis gas to solvents in a gasâ€fed bioreactor. Biotechnology and Bioengineering, 2012, 109, 2720-2728.	3.3	80
18	Carbon dioxide conversion to fuels and chemicals using a hybrid green process. Applied Energy, 2013, 112, 289-299.	10.1	73

#	ARTICLE	IF	CITATIONS
19	Process simulation of ethanol production from biomass gasification and syngas fermentation. Bioresource Technology, 2017, 245, 925-932.	9.6	71
20	An Experimental Investigation of Water Transport in PEMFCs. Electrochemical and Solid-State Letters, 2007, 10, B34.	2.2	70
21	Feasibility of incorporating cotton seed extract in Clostridium strain P11 fermentation medium during synthesis gas fermentation. Bioresource Technology, 2010, 101, 9673-9680.	9.6	63
22	Enhanced ethanol production by Clostridium ragsdalei from syngas by incorporating biochar in the fermentation medium. Bioresource Technology, 2018, 247, 291-301.	9.6	61
23	Effect of high dry solids loading on enzymatic hydrolysis of acid bisulfite pretreated Eastern redcedar. Bioresource Technology, 2013, 147, 168-176.	9.6	58
24	Biochar enhanced ethanol and butanol production by Clostridium carboxidivorans from syngas. Bioresource Technology, 2018, 265, 128-138.	9.6	53
25	Development of low cost medium for ethanol production from syngas by Clostridium ragsdalei. Bioresource Technology, 2013, 147, 508-515.	9.6	52
26	Continuous Ethanol Production from Synthesis Gas by Clostridium ragsdalei in a Trickle-Bed Reactor. Fermentation, 2017, 3, 23.	3.0	48
27	Feasibility of using biochar as buffer and mineral nutrients replacement for acetone-butanol-ethanol production from non-detoxified switchgrass hydrolysate. Bioresource Technology, 2020, 298, 122569.	9.6	41
28	Enhanced ethanol production from syngas by Clostridium ragsdalei in continuous stirred tank reactor using medium with poultry litter biochar. Applied Energy, 2019, 236, 1269-1279.	10.1	37
29	Reduction of acetone to isopropanol using producer gas fermenting microbes. Biotechnology and Bioengineering, 2011, 108, 2330-2338.	3.3	36
30	Critical factors affecting the integration of biomass gasification and syngas fermentation technology. AIMS Bioengineering, 2016, 3, 188-210.	1.1	36
31	Utilizing Anaerobic Fungi for Two-stage Sugar Extraction and Biofuel Production from Lignocellulosic Biomass. Frontiers in Microbiology, 2017, 8, 635.	3.5	34
32	Process development for biological production of butanol from Eastern redcedar. Bioresource Technology, 2015, 176, 88-97.	9.6	29
33	Production of Fructose and Ethanol from Cane Molasses Using Saccharomyces cerevisiae ATCC 36858. Acta Biotechnologica, 2003, 23, 37-48.	0.9	26
34	Kinetic Modeling and Enhanced Production of Fructose and Ethanol From Date Fruit Extract. Chemical Engineering Communications, 2015, 202, 1618-1627.	2.6	25
35	Production of Fructose and Ethanol from Sugar Beet Molasses Using Saccharomyces cerevisiae ATCC 36858. Biotechnology Progress, 2002, 18, 234-239.	2.6	24
36	Separation of sodium metaborate from sodium borohydride using nanofiltration membranes for hydrogen storage application. International Journal of Hydrogen Energy, 2007, 32, 229-236.	7.1	20

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37	Investigation and Modeling of Gas-Liquid Mass Transfer in a Sparged and Non-Sparged Continuous Stirred Tank Reactor with Potential Application in Syngas Fermentation. Fermentation, 2019, 5, 75.	3.0	19
38	Production of fructose and ethanol from media with high sucrose concentrations by a mutant ofSaccharomyces cerevisiae. Journal of Chemical Technology and Biotechnology, 2001, 76, 1017-1022.	3.2	17
39	Investigating the Role of a Microporous Layer on the Water Transport and Performance of a PEMFC. ECS Transactions, 2006, 3, 1227-1237.	0.5	17
40	Measurement and prediction of mass transfer coefficients for syngas constituents in a hollow fiber reactor. Bioresource Technology, 2019, 276, 1-7.	9.6	17
41	Study of the production of fructose and ethanol from sucrose media by Saccharomyces cerevisiae. Applied Microbiology and Biotechnology, 2001, 57, 407-411.	3.6	16
42	Development of an efficient pretreatment process for enzymatic saccharification of Eastern redcedar. Bioresource Technology, 2013, 136, 131-139.	9.6	15
43	Prevention of melanin formation during aryl alcohol oxidase production under growth-limited conditions using an Aspergillus nidulans cell factory. Bioresource Technology, 2017, 243, 874-882.	9.6	13
44	Production of fructose from highly concentrated date extracts using Saccharomyces cerevisiae. Biotechnology Letters, 2014, 36, 531-536.	2.2	12
45	Continuous xylanase production with Aspergillus nidulans under pyridoxine limitation using a trickle bed reactor. Bioresource Technology, 2015, 188, 219-225.	9.6	10
46	A green process for simultaneous production of fructose and ethanol via selective fermentation. Journal of Cleaner Production, 2017, 162, 420-426.	9.3	10
47	Viable strategies for enhancing acetone-butanol-ethanol production from non-detoxified switchgrass hydrolysates. Bioresource Technology, 2022, 344, 126167.	9.6	10
48	Simultaneous saccharification and fermentation of Eastern redcedar heartwood and sapwood using a novel size reduction technique. Bioresource Technology, 2014, 161, 1-9.	9.6	9
49	Syngas Fermentation Into Biofuels and Biochemicals. , 2019, , 301-327.		9
50	Biochar amended microbial conversion of C1 gases to ethanol and butanol: Effects of biochar feedstock type and processing temperature. Bioresource Technology, 2022, 360, 127573.	9.6	9
51	Purification of Fructose Syrups Produced from Cane Molasses Media Using Ultrafiltration Membranes and Activated Carbon. Separation Science and Technology, 2005, 39, 341-362.	2.5	8
52	Well-to-wake analysis of switchgrass to jet fuel via a novel co-fermentation of sugars and CO2. Science of the Total Environment, 2021, 782, 146770.	8.0	8
53	Utilization of raffinose and melibiose by a mutant ofSaccharomyces cerevisiae. Journal of Chemical Technology and Biotechnology, 2003, 78, 1068-1074.	3.2	7
54	Review of Dissolved CO and H2 Measurement Methods for Syngas Fermentation. Sensors, 2021, 21, 2165.	3.8	6

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55	Continuous aryl alcohol oxidase production under growth-limited conditions using a trickle bed reactor. Bioresource Technology, 2018, 255, 149-155.	9.6	5
56	Production of Ethanol from Livestock, Agricultural, and Forest Residuals: An Economic Feasibility Study. Environments - MDPI, 2019, 6, 97.	3.3	4
57	Designing Syngas Fermentation Medium for Fuels and Bulk Chemicals Production. , 2011, , .		3
58	Influence of Eastern redcedar oil on enzymatic hydrolysis of microcrystalline cellulose and Saccharomyces cerevisiae fermentations. Biocatalysis and Agricultural Biotechnology, 2014, 3, 177-180.	3.1	1
59	Enhanced Acetone-Butanol-Ethanol Production by Clostridium beijerinckii Using Biochar. , 2019, , .		1
60	Mass Transfer and Kinetic Limitations During Synthesis Gas Fermentation by Acetogenic Bacteria. , 2011, , .		0
61	Low Cost Medium for Ethanol Production Using Novel Moderately Alkaliphilic Alkalibaculum bacchi CP15. , 2012, , .		0