

Dimitar Borisov Karakashev

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

4,605
citations

159358

30
h-index

301761

39
g-index

42
all docs

42
docs citations

42
times ranked

5271
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of bioethanol from wheat straw: An overview on pretreatment, hydrolysis and fermentation. <i>Bioresource Technology</i> , 2010, 101, 4744-4753.	4.8	860
2	Influence of Environmental Conditions on Methanogenic Compositions in Anaerobic Biogas Reactors. <i>Applied and Environmental Microbiology</i> , 2005, 71, 331-338.	1.4	428
3	Acetate Oxidation Is the Dominant Methanogenic Pathway from Acetate in the Absence of Methanosaetaceae. <i>Applied and Environmental Microbiology</i> , 2006, 72, 5138-5141.	1.4	357
4	Biomethanation and Its Potential. <i>Methods in Enzymology</i> , 2011, 494, 327-351.	0.4	277
5	Anammox for ammonia removal from pig manure effluents: Effect of organic matter content on process performance. <i>Bioresource Technology</i> , 2009, 100, 2171-2175.	4.8	229
6	Thermophilic fermentative hydrogen production by the newly isolated <i>Thermoanaerobacterium thermosaccharolyticum</i> PSU-2. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 1204-1214.	3.8	227
7	Effect of ammonium and acetate on methanogenic pathway and methanogenic community composition. <i>FEMS Microbiology Ecology</i> , 2013, 83, 38-48.	1.3	204
8	Bioaugmentation as a Solution To Increase Methane Production from an Ammonia-Rich Substrate. <i>Environmental Science & Technology</i> , 2014, 48, 7669-7676.	4.6	191
9	Microwave and thermal pretreatment as methods for increasing the biogas potential of secondary sludge from municipal wastewater treatment plants. <i>Bioresource Technology</i> , 2013, 134, 290-297.	4.8	166
10	Life cycle assessment of biofuel production from brown seaweed in Nordic conditions. <i>Bioresource Technology</i> , 2013, 129, 92-99.	4.8	135
11	Bioaugmentation with an acetate-oxidising consortium as a tool to tackle ammonia inhibition of anaerobic digestion. <i>Bioresource Technology</i> , 2013, 146, 57-62.	4.8	121
12	Long-term effect of inoculum pretreatment on fermentative hydrogen production by repeated batch cultivations: Homoacetogenesis and methanogenesis as competitors to hydrogen production. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1816-1827.	1.7	114
13	Biological caproate production by <i>Clostridium kluveri</i> from ethanol and acetate as carbon sources. <i>Bioresource Technology</i> , 2017, 241, 638-644.	4.8	100
14	Enhanced bioenergy recovery from rapeseed plant in a biorefinery concept. <i>Bioresource Technology</i> , 2011, 102, 1433-1439.	4.8	99
15	The dominant acetate degradation pathway/methanogenic composition in full-scale anaerobic digesters operating under different ammonia levels. <i>International Journal of Environmental Science and Technology</i> , 2014, 11, 2087-2094.	1.8	98
16	Innovative process scheme for removal of organic matter, phosphorus and nitrogen from pig manure. <i>Water Research</i> , 2008, 42, 4083-4090.	5.3	82
17	Potential of Jerusalem artichoke (<i>Helianthus tuberosus</i> L.) as a biorefinery crop. <i>Industrial Crops and Products</i> , 2014, 56, 231-240.	2.5	78
18	Integrated production of cellulosic bioethanol and succinic acid from industrial hemp in a biorefinery concept. <i>Bioresource Technology</i> , 2016, 200, 639-647.	4.8	65

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19	Anaerobic biodegradation of fluoranthene under methanogenic conditions in presence of surface-active compounds. <i>Journal of Hazardous Materials</i> , 2008, 153, 123-127.	6.5	61
20	Effect of continuous oleate addition on microbial communities involved in anaerobic digestion process. <i>Bioresource Technology</i> , 2012, 106, 74-81.	4.8	55
21	Effective harvesting of the microalgae <i>Chlorella protothecoides</i> via bioflocculation with cationic starch. <i>Bioresource Technology</i> , 2014, 167, 214-218.	4.8	54
22	Engineered heat treated methanogenic granules: A promising biotechnological approach for extreme thermophilic biohydrogen production. <i>Bioresource Technology</i> , 2010, 101, 9577-9586.	4.8	52
23	High-rate continuous hydrogen production by <i>Thermoanaerobacterium thermosaccharolyticum</i> PSU-2 immobilized on heat-pretreated methanogenic granules. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 6498-6508.	3.8	50
24	A simple and rapid test for differentiation of aerobic from anaerobic bacteria. <i>World Journal of Microbiology and Biotechnology</i> , 2003, 19, 233-238.	1.7	48
25	High yield simultaneous hydrogen and ethanol production under extreme-thermophilic (70Å°C) mixed culture environment. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 5657-5665.	3.8	47
26	Biohydrogen production from arabinose and glucose using extreme thermophilic anaerobic mixed cultures. <i>Biotechnology for Biofuels</i> , 2012, 5, 6.	6.2	47
27	Thermochemical pretreatments for enhancing succinic acid production from industrial hemp (<i>Cannabis sativa</i> L.). <i>Bioresource Technology</i> , 2015, 182, 58-66.	4.8	46
28	Xylose fermentation to biofuels (hydrogen and ethanol) by extreme thermophilic (70Å°C) mixed culture. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 3415-3422.	3.8	42
29	Anaerobic biotechnological approaches for production of liquid energy carriers from biomass. <i>Biotechnology Letters</i> , 2007, 29, 1005-1012.	1.1	40
30	Succinic acid production by fermentation of Jerusalem artichoke tuber hydrolysate with <i>Actinobacillus succinogenes</i> 130Z. <i>Industrial Crops and Products</i> , 2014, 62, 125-129.	2.5	35
31	Ex-situ bioremediation of polycyclic aromatic hydrocarbons in sewage sludge. <i>Journal of Hazardous Materials</i> , 2009, 164, 1568-1572.	6.5	33
32	<i>Thermoanaerobacter pentosaceus</i> sp. nov., an anaerobic, extremely thermophilic, high ethanol-yielding bacterium isolated from household waste. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 2396-2404.	0.8	29
33	Extreme thermophilic ethanol production from rapeseed straw: Using the newly isolated <i>Thermoanaerobacter pentosaceus</i> and combining it with <i>Saccharomyces cerevisiae</i> in a two-step process. <i>Biotechnology and Bioengineering</i> , 2013, 110, 1574-1582.	1.7	28
34	16S rRNA-targeted probes for specific detection of <i>Thermoanaerobacterium</i> spp., <i>Thermoanaerobacterium thermosaccharolyticum</i> , and <i>Caldicellulosiruptor</i> spp. by fluorescent in situ hybridization in biohydrogen producing systems. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 6082-6091.	3.8	26
35	Effect of post-digestion temperature on serial CSTR biogas reactor performance. <i>Water Research</i> , 2009, 43, 669-676.	5.3	25
36	An environmentally-friendly fluorescent method for quantification of lipid contents in yeast. <i>Bioresource Technology</i> , 2014, 151, 388-391.	4.8	18

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37	Effects of Benzalkonium Chloride, Proxel LV, P3 Hypochloran, Triton X-100 and DOWFAX 63N10 on anaerobic digestion processes. <i>Bioresource Technology</i> , 2015, 193, 393-400.	4.8	18
38	A strict anaerobic extreme thermophilic hydrogen-producing culture enriched from digested household waste. <i>Journal of Applied Microbiology</i> , 2009, 106, 1041-1049.	1.4	10
39	Effect of xylose and nutrients concentration on ethanol production by a newly isolated extreme thermophilic bacterium. <i>Water Science and Technology</i> , 2011, 64, 341-347.	1.2	7
40	Thermophilic Biohydrogen Production. , 2011, , 525-536.		2
41	Emerging Biological Technologies: Biofuels and Biochemicals. , 0, , 639-650.		1
42	Ex-situ bioremediation of polycyclic aromatic hydrocarbons in sewage sludge. <i>WIT Transactions on Ecology and the Environment</i> , 2008, , .	0.0	0