

Daniel J Gapes

List of Publications by Year in descending order

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42
papers

1,701
citations

279701

23
h-index

276775

41
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44
all docs

44
docs citations

44
times ranked

1871
citing authors

#	ARTICLE	IF	CITATIONS
1	Combination of fungal and physicochemical processes for lignocellulosic biomass pretreatment – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 54, 217-234.	8.2	255
2	A review of wet air oxidation and Thermal Hydrolysis technologies in sludge treatment. <i>Bioresource Technology</i> , 2014, 155, 289-299.	4.8	213
3	Rheology of a primary and secondary sewage sludge mixture: Dependency on temperature and solid concentration. <i>Bioresource Technology</i> , 2013, 140, 227-233.	4.8	111
4	Mixotrophy drives niche expansion of verrucomicrobial methanotrophs. <i>ISME Journal</i> , 2017, 11, 2599-2610.	4.4	107
5	Development of a novel titration and off-gas analysis (TOGA) sensor for study of biological processes in wastewater treatment systems. <i>Biotechnology and Bioengineering</i> , 2003, 81, 482-495.	1.7	84
6	Hydrothermal degradation of organic matter in municipal sludge using non-catalytic wet oxidation. <i>Chemical Engineering Journal</i> , 2015, 260, 846-854.	6.6	66
7	Combined thermochemical and fermentative destruction of municipal biosolids: A comparison between thermal hydrolysis and wet oxidative pre-treatment. <i>Bioresource Technology</i> , 2011, 102, 5520-5527.	4.8	61
8	Fundamental mechanisms and reactions in non-catalytic subcritical hydrothermal processes: A review. <i>Water Research</i> , 2017, 123, 607-622.	5.3	57
9	Enhancing denitrification using a carbon supplement generated from the wet oxidation of waste activated sludge. <i>Bioresource Technology</i> , 2011, 102, 5533-5540.	4.8	55
10	Pretreatment of radiata pine using two white rot fungal strains <i>Stereum hirsutum</i> and <i>Trametes versicolor</i> . <i>Energy Conversion and Management</i> , 2017, 142, 13-19.	4.4	55
11	Physico-chemical properties of polyhydroxyalkanoate produced by mixed-culture nitrogen-fixing bacteria. <i>Applied Microbiology and Biotechnology</i> , 2009, 82, 545-555.	1.7	49
12	Mixed culture polyhydroxyalkanoate (PHA) synthesis from nutrient rich wet oxidation liquors. <i>Water Research</i> , 2018, 140, 1-11.	5.3	47
13	Formation and degradation of valuable intermediate products during wet oxidation of municipal sludge. <i>Bioresource Technology</i> , 2016, 205, 280-285.	4.8	45
14	Impact of oxygen mass transfer on nitrification reactions in suspended carrier reactor biofilms. <i>Process Biochemistry</i> , 2009, 44, 43-53.	1.8	40
15	Transformation and removal of wood extractives from pulp mill sludge using wet oxidation and thermal hydrolysis. <i>Bioresource Technology</i> , 2013, 146, 294-300.	4.8	37
16	Hydrothermal processing of cellulose: A comparison between oxidative and non-oxidative processes. <i>Bioresource Technology</i> , 2017, 226, 229-237.	4.8	32
17	Relative influence of process variables during non-catalytic wet oxidation of municipal sludge. <i>Bioresource Technology</i> , 2013, 148, 605-610.	4.8	31
18	Thermal and thermo-chemical pre-treatment of four waste residues and the effect on acetic acid production and methane synthesis. <i>Waste Management</i> , 2012, 32, 1669-1677.	3.7	30

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19	The role of dissolved oxygen content as a modulator of microbial polyhydroxyalkanoate synthesis. <i>World Journal of Microbiology and Biotechnology</i> , 2018, 34, 106.	1.7	30
20	Analysis of biological wastewater treatment processes using multicomponent gas phase mass balancing. <i>Biotechnology and Bioengineering</i> , 2001, 76, 361-375.	1.7	29
21	Determination of external and internal mass transfer limitation in nitrifying microbial aggregates. <i>Biotechnology and Bioengineering</i> , 2004, 86, 445-457.	1.7	27
22	A kinetic model of municipal sludge degradation during non-catalytic wet oxidation. <i>Water Research</i> , 2015, 87, 225-236.	5.3	27
23	Online titrimetric and off-gas analysis for examining nitrification processes in wastewater treatment. <i>Water Research</i> , 2003, 37, 2678-2690.	5.3	23
24	Evaluation of a two-stage hydrothermal process for enhancing acetic acid production using municipal biosolids. <i>Water Science and Technology</i> , 2012, 65, 149-155.	1.2	22
25	Rheological measurements as a tool for monitoring the performance of high pressure and high temperature treatment of sewage sludge. <i>Water Research</i> , 2017, 114, 254-263.	5.3	21
26	Carbon flux to growth or polyhydroxyalkanoate synthesis under microaerophilic conditions is affected by fatty acid chain-length in <i>Pseudomonas putida</i> LS46. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 6437-6449.	1.7	16
27	Development of High Cell Density Cultivation Strategies for Improved Medium Chain Length Polyhydroxyalkanoate Productivity Using <i>Pseudomonas putida</i> LS46. <i>Bioengineering</i> , 2019, 6, 89.	1.6	16
28	Hydrogen Oxidation Influences Glycogen Accumulation in a Verrucomicrobial Methanotroph. <i>Frontiers in Microbiology</i> , 2019, 10, 1873.	1.5	15
29	Acetic acid recovery from a hybrid biological-hydrothermal treatment process of sewage sludge – a pilot plant study. <i>Water Science and Technology</i> , 2015, 71, 734-739.	1.2	14
30	Microaerophilic environments improve the productivity of medium chain length polyhydroxyalkanoate biosynthesis from fatty acids in <i>Pseudomonas putida</i> LS46. <i>Process Biochemistry</i> , 2017, 59, 18-25.	1.8	14
31	Polyhydroxyalkanoate (PHA) Bioplastics from Organic Waste. , 2019, , 615-638.		12
32	Efficacy of medium chain-length polyhydroxyalkanoate biosynthesis from different biochemical pathways under oxygen-limited conditions using <i>Pseudomonas putida</i> LS46. <i>Process Biochemistry</i> , 2019, 82, 19-31.	1.8	10
33	Development and examination of a granular nitrogen-fixing wastewater treatment system. <i>Process Biochemistry</i> , 2007, 42, 863-872.	1.8	9
34	Influence of nitrogen limitation on performance of a microbial fuel cell. <i>Water Science and Technology</i> , 2011, 63, 1752-1757.	1.2	9
35	Rheological Behavior of High Cell Density <i>Pseudomonas putida</i> LS46 Cultures during Production of Medium Chain Length Polyhydroxyalkanoate (PHA) Polymers. <i>Bioengineering</i> , 2019, 6, 93.	1.6	7
36	Application of hydrothermal treatment to affect the fermentability of <i>Pinus radiata</i> pulp mill effluent sludge. <i>Bioresource Technology</i> , 2014, 170, 100-107.	4.8	6

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37	An improved model for the kinetics of non-oxidative hydrothermal process. <i>Journal of Environmental Management</i> , 2020, 253, 109704.	3.8	6
38	Effect of hydrodynamic mixing conditions on wet oxidation reactions in a stirred vessel reactor. <i>Bioresource Technology</i> , 2018, 262, 333-337.	4.8	3
39	A mass transfer study of the wet oxidation of cellulose. <i>Chemical Engineering Journal</i> , 2020, 384, 123326.	6.6	2
40	Performance of a fungal based SBR under pH extreme and shock phenolic exposure. <i>Water Science and Technology</i> , 2008, 58, 925-930.	1.2	1
41	Development of <i>Pinus radiata</i> suspension cultures from xylogenic callus. <i>New Zealand Journal of Forestry Science</i> , 2015, 45, .	0.8	0
42	Hydrothermal conversion of toilet waste: effect of processing conditions on gas phase emissions. <i>Heliyon</i> , 2022, 8, e09708.	1.4	0