

Rune Bakke

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

796
citations

471509

17
h-index

580821

25
g-index

56
all docs

56
docs citations

56
times ranked

963
citing authors

#	ARTICLE	IF	CITATIONS
1	Biofilm removal by low concentrations of hydrogen peroxide. <i>Biofouling</i> , 1990, 2, 165-175.	2.2	53
2	Liquefaction of lignocellulosic biomass for methane production: A review. <i>Bioresource Technology</i> , 2021, 332, 125068.	9.6	41
3	Apparent hydrogen consumption in acid reactors: observations and implications. <i>Water Science and Technology</i> , 2009, 59, 1441-1447.	2.5	36
4	Anaerobic digestion of pig manure supernatant at high ammonia concentrations characterized by high abundances of Methanosaeta and non-euryarchaeotal archaea. <i>Scientific Reports</i> , 2017, 7, 15077.	3.3	35
5	Modeling polyhydroxyalkanoate (PHA) production in a newly developed aerobic dynamic discharge (ADD) culture enrichment process. <i>Chemical Engineering Journal</i> , 2016, 298, 36-43.	12.7	34
6	High rate manure supernatant digestion. <i>Water Research</i> , 2015, 76, 1-9.	11.3	33
7	Metabolic divergence in simultaneous biological removal of nitrate and sulfide for elemental sulfur production under temperature stress. <i>Bioresource Technology</i> , 2017, 233, 209-215.	9.6	33
8	Oxygen Effects in Anaerobic Digestion. <i>Modeling, Identification and Control</i> , 2009, 30, 191-201.	1.1	31
9	A new method for polyhydroxyalkanoate (PHA) accumulating bacteria selection under physical selective pressure. <i>International Journal of Biological Macromolecules</i> , 2015, 72, 1329-1334.	7.5	29
10	xygen Effects in Anaerobic Digestion - II. <i>Modeling, Identification and Control</i> , 2010, 31, 55-65.	1.1	25
11	Biological treatment of amine wastes generated in post combustion CO ₂ capture. <i>Energy Procedia</i> , 2011, 4, 496-503.	1.8	24
12	H ₂ consumption by anaerobic non-methanogenic mixed cultures. <i>Water Science and Technology</i> , 2011, 63, 1582-1589.	2.5	22
13	Bicarbonate for microalgae cultivation: a case study in a chlorophyte, <i>Tetradismus wisconsinensis</i> isolated from a Norwegian lake. <i>Journal of Applied Phycology</i> , 2021, 33, 1341-1352.	2.8	22
14	State Estimation and Model-Based Control of a Pilot Anaerobic Digestion Reactor. <i>Journal of Control Science and Engineering</i> , 2014, 2014, 1-19.	1.0	20
15	ADM1 modeling of UASB treating domestic wastewater in Nepal. <i>Renewable Energy</i> , 2016, 95, 263-268.	8.9	20
16	Temperature-induced changes in a microbial community under autotrophic denitrification with sulfide. <i>Process Biochemistry</i> , 2018, 69, 161-168.	3.7	18
17	A simple anaerobic and filtration combined system for domestic wastewater treatment. <i>Water-Energy Nexus</i> , 2020, 3, 41-45.	4.0	18
18	Oil reservoir biofouling control. <i>Biofouling</i> , 1992, 6, 53-60.	2.2	17

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19	Efficient high strength petrochemical wastewater treatment in a hybrid vertical anaerobic biofilm (HyVAB) reactor: a pilot study. <i>Water Practice and Technology</i> , 2017, 12, 501-513.	2.0	17
20	Sludge blanket anaerobic baffled reactor for source-separated blackwater treatment. <i>Water Science and Technology</i> , 2018, 78, 1249-1259.	2.5	17
21	Settling velocity and size distribution measurement of anaerobic granular sludge using microscopic image analysis. <i>Journal of Microbiological Methods</i> , 2019, 159, 81-90.	1.6	15
22	Membrane installation for enhanced up-flow anaerobic sludge blanket (UASB) performance. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 357-361.	2.2	13
23	Modeling temperature effects in anaerobic digestion of domestic wastewater. <i>Water-Energy Nexus</i> , 2018, 1, 56-60.	4.0	13
24	Performance Analysis of Biocathode in Bioelectrochemical CO ₂ Reduction. <i>Catalysts</i> , 2019, 9, 683.	3.5	13
25	An Experimental Study on the Effects of Oxygen in Bio-Gasification- Part 2. <i>Renewable Energy and Power Quality Journal</i> , 2010, 1, 1598-1604.	0.2	12
26	Influences of Temperature and Substrate Particle Content on Granular Sludge Bed Anaerobic Digestion. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 136.	2.5	11
27	Effects of initial molecular weight on removal rate of dextran in biofilms. <i>Water Research</i> , 2006, 40, 1795-1804.	11.3	10
28	Efficiency of the anaerobic digestion of amine wastes. <i>Biotechnology Letters</i> , 2013, 35, 2051-2060.	2.2	9
29	Anaerobic treatment of domestic sewage in modified septic tanks at low temperature. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 2123-2131.	2.2	9
30	Treatment of Metformin-Containing Wastewater by a Hybrid Vertical Anaerobic Biofilm-Reactor (HyVAB). <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4125.	2.6	9
31	An Experimental Study on the Effects of Oxygen in Bio-Gasification- Part 1. <i>Renewable Energy and Power Quality Journal</i> , 2010, 1, 1453-1458.	0.2	9
32	Detoxifying CO ₂ Capture Reclaimer Waste by Anaerobic Digestion. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 776-783.	2.9	8
33	Syringe test screening of microbial gas production activity: Cases denitrification and biogas formation. <i>Journal of Microbiological Methods</i> , 2017, 132, 119-124.	1.6	8
34	Biofilm in Moving Bed Biofilm Process for Wastewater Treatment. , 2020, , .		8
35	Thermophilic Methane Production from Hydrothermally Pretreated Norway Spruce (<i>Picea abies</i>). <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4989.	2.5	8
36	Mesophilic Anaerobic Digestion of Hydrothermally Pretreated Lignocellulosic Biomass (Norway) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	2.8	8

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37	Monoethanolamine biodegradation processes. , 2010, , 77-86.		7
38	Load limit of a UASB fed septic tank-treated domestic wastewater. <i>Water Science and Technology</i> , 2015, 72, 1455-1461.	2.5	7
39	Modeling and simulation of lab-scale anaerobic co-digestion of MEA waste. <i>Modeling, Identification and Control</i> , 2014, 35, 31-41.	1.1	7
40	Biogasification of Waste Monoethanolamine Generated in Post Combustion CO2 Capture. , 2010, , 1-9.		6
41	A septic tank&UASB combined system for domestic wastewater treatment: a pilot test. <i>Water and Environment Journal</i> , 2015, 29, 558-565.	2.2	6
42	Granular Sludge Bed Processes in Anaerobic Digestion of Particle-Rich Substrates. <i>Energies</i> , 2019, 12, 2940.	3.1	6
43	A full-scale hybrid vertical anaerobic and aerobic biofilm wastewater treatment system: case study. <i>Water Practice and Technology</i> , 2019, 14, 189-197.	2.0	6
44	Temperature Control of a Pilot Anaerobic Digestion Reactor. <i>Modeling, Identification and Control</i> , 2013, 34, 99-117.	1.1	6
45	Ammonium as a Carbon-Free Electron and Proton Source in Microbial Electrosynthesis Processes. <i>Sustainability</i> , 2020, 12, 3081.	3.2	5
46	Biofilm thickness measurements by variance analysis of optical images. <i>Journal of Microbiological Methods</i> , 1994, 20, 219-224.	1.6	4
47	Effects of Psychrophilic Storage on Manures as Substrate for Anaerobic Digestion. <i>BioMed Research International</i> , 2014, 2014, 1-8.	1.9	4
48	Strategy to reduce the acclimation period for enrichment of PHA accumulating cultures. <i>Desalination and Water Treatment</i> , 2016, 57, 29286-29294.	1.0	4
49	Effect of Particulate Disintegration on Biomethane Potential of Particle-Rich Substrates in Batch Anaerobic Reactor. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2880.	2.5	4
50	Effect of Intermittent Aeration in a Hybrid Vertical Anaerobic Biofilm Reactor (HyVAB) for Reject Water Treatment. <i>Water (Switzerland)</i> , 2020, 12, 1151.	2.7	4
51	Short-term temperature impact on simultaneous biological nitrogen-sulphur treatment in EGSB reactor. <i>Water Science and Technology</i> , 2016, 74, 1610-1618.	2.5	3
52	Mapping anaerobic sludge bed community adaptations to manure supernatant in biogas reactors. <i>Scientific Reports</i> , 2018, 8, 15870.	3.3	3
53	On-off and PI Control of Methane Gas Production of a Pilot Anaerobic Digestion Reactor. <i>Modeling, Identification and Control</i> , 2013, 34, 139-156.	1.1	3
54	Xanthan degradation by biofilm in porous media. <i>Biofouling</i> , 1990, 2, 311-321.	2.2	2

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55	Effects of N/S Molar Ratio on Product Formation in Psychrophilic Autotrophic Biological Removal of Sulfide. <i>Water (Switzerland)</i> , 2017, 9, 476.	2.7	1