

Timo Kikas

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,294
citations

430442

18
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377514

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56
all docs

56
docs citations

56
times ranked

1401
citing authors

#	ARTICLE	IF	CITATIONS
1	Potentials and challenges in lignocellulosic biofuel production technology. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 111, 44-56.	8.2	210
2	Plume-Tracking Robots: A New Application of Chemical Sensors. <i>Biological Bulletin</i> , 2001, 200, 222-226.	0.7	168
3	Biomass torrefaction: An overview on process parameters, economic and environmental aspects and recent advancements. <i>Bioresource Technology</i> , 2020, 301, 122737.	4.8	146
4	Origin, Impact and Control of Lignocellulosic Inhibitors in Bioethanol Production – A Review. <i>Energies</i> , 2020, 13, 4751.	1.6	52
5	Dependence of the hydrolysis efficiency on the lignin content in lignocellulosic material. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 16338-16343.	3.8	44
6	Basis of energy crop selection for biofuel production: Cellulose vs. lignin. <i>International Journal of Green Energy</i> , 2016, 13, 49-54.	2.1	42
7	The Role of Ionic Liquids in the Lignin Separation from Lignocellulosic Biomass. <i>Energies</i> , 2020, 13, 4864.	1.6	42
8	The freezing pre-treatment of lignocellulosic material: A cheap alternative for Nordic countries. <i>Energy</i> , 2017, 139, 1-7.	4.5	41
9	N ₂ explosive decompression pretreatment of biomass for lignocellulosic ethanol production. <i>Biomass and Bioenergy</i> , 2016, 90, 1-6.	2.9	40
10	The utilisation potential of urban greening waste: Tartu case study. <i>Urban Forestry and Urban Greening</i> , 2017, 21, 96-101.	2.3	29
11	Comparative study of semi-specific <i>Aeromonas hydrophila</i> and universal <i>Pseudomonas fluorescens</i> biosensors for BOD measurements in meat industry wastewaters. <i>Enzyme and Microbial Technology</i> , 2012, 50, 221-226.	1.6	26
12	Potential of bioethanol production waste for methane recovery. <i>Energy</i> , 2019, 173, 133-139.	4.5	25
13	Genetic modification of cereal plants: A strategy to enhance bioethanol yields from agricultural waste. <i>Industrial Crops and Products</i> , 2020, 150, 112408.	2.5	25
14	Chemical Plume Tracking. 1. Chemical Information Encoding. <i>Analytical Chemistry</i> , 2001, 73, 3662-3668.	3.2	23
15	Hydrogen Production in a Reverse-Flow Autothermal Catalytic Microreactor: From Evidence of Performance Enhancement to Innovative Reactor Design. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 6273-6279.	1.8	23
16	Nitrogen explosive decompression pre-treatment: An alternative to steam explosion. <i>Energy</i> , 2019, 177, 175-182.	4.5	20
17	Bioelectronic tongue and multivariate analysis: A next step in BOD measurements. <i>Water Research</i> , 2013, 47, 2555-2562.	5.3	19
18	Torrefaction of Agricultural and Wood Waste: Comparative Analysis of Selected Fuel Characteristics. <i>Energies</i> , 2021, 14, 2774.	1.6	19

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19	Potential of cereal-based agricultural residues available for bioenergy production. Data in Brief, 2019, 23, 103829.	0.5	18
20	Extraction and isolation of lignin from ash tree (<i>Fraxinus excelsior</i>) with protic ionic liquids (PILs). Chemosphere, 2022, 290, 133297.	4.2	18
21	The effect of flue gas explosive decompression pretreatment on methane recovery from bioethanol production waste. Industrial Crops and Products, 2019, 127, 66-72.	2.5	17
22	Bioenergy Yields from Sequential Bioethanol and Biomethane Production: An Optimized Process Flow. Sustainability, 2020, 12, 272.	1.6	17
23	Chemical Plume Tracking. 3. Ascorbic Acid: A Biologically Relevant Marker. Analytical Chemistry, 2002, 74, 3605-3610.	3.2	16
24	BOD biosensors for pulp and paper industry wastewater analysis. Environmental Science and Pollution Research, 2012, 19, 3039-3045.	2.7	15
25	Potentiometric measurements in sequential injection analysis lab-on-valve (SIA-LOV) flow-system. Talanta, 2007, 71, 160-164.	2.9	14
26	Nitrosomonas sp. Based biosensor for ammonium nitrogen measurement in wastewater. Biotechnology and Bioprocess Engineering, 2013, 18, 1016-1021.	1.4	14
27	The Efficiency of Nitrogen and Flue Gas as Operating Gases in Explosive Decompression Pretreatment. Energies, 2018, 11, 2074.	1.6	14
28	Current progress in anaerobic digestion reactors and parameters optimization. Biomass Conversion and Biorefinery, 0, , 1.	2.9	14
29	Enhancing Bioenergy Yields from Sequential Bioethanol and Biomethane Production by Means of Solid-Liquid Separation of the Substrates. Energies, 2019, 12, 3683.	1.6	11
30	Preparation and characterization of platinum coatings for long life-time BOD biosensor. Sensors and Actuators B: Chemical, 1998, 47, 21-29.	4.0	10
31	Progress in bio-based biodegradable polymer as the effective replacement for the engineering applicators. Journal of Cleaner Production, 2022, 362, 132267.	4.6	10
32	Virtual Plume. Electroanalysis, 2000, 12, 974-979.	1.5	9
33	PSEUDOMONAS PUTIDA P67.2 AND PSEUDOMONAS FLOURESCENS P75 BASED MICROBIAL SENSORS FOR BIOCHEMICAL OXYGEN DEMAND (BOD) MEASUREMENTS IN PHENOLIC WASTEWATERS OF OIL SHALE INDUSTRY. Oil Shale, 2008, 25, 376.	0.5	9
34	Nitrogen explosion pretreatment of lignocellulosic material for bioethanol production. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 1785-1789.	1.2	9
35	Biomass Pretreatment with the Szego Mill, for Bioethanol and Biogas Production. Processes, 2020, 8, 1327.	1.3	9
36	Semi-specific biosensors for measuring BOD in dairy wastewater. Journal of Chemical Technology and Biotechnology, 2010, 85, 957-961.	1.6	8

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37	Utilization of Barley Straw as Feedstock for the Production of Different Energy Vectors. Processes, 2021, 9, 726.	1.3	7
38	Chemical Plume Tracking. 2. Multiple-Frequency Modulation. Analytical Chemistry, 2001, 73, 3669-3673.	3.2	6
39	Semi-specific Microbacterium phyllosphaerae-based microbial sensor for biochemical oxygen demand measurements in dairy wastewater. Environmental Science and Pollution Research, 2013, 20, 2492-2498.	2.7	6
40	The efficiency of nitrogen explosion pretreatment on common aspen "Populus tremula: N ₂ " VS steam explosion. Energy, 2021, 220, 119741.	4.5	6
41	Extrapolation of in situ data from 1-km squares to adjacent squares using remote sensed imagery and airborne lidar data for the assessment of habitat diversity and extent. Environmental Monitoring and Assessment, 2015, 187, 76.	1.3	5
42	Thermodynamic, Environmental and Economic Simulation of an Organic Rankine Cycle (ORC) for Waste Heat Recovery: Terceira Island Case Study. Environmental and Climate Technologies, 2019, 23, 347-365.	0.5	5
43	Electrooxidation of Hexacyanoferrate(II) Anions and Electroreduction of Oxygen in the Microfabricated Electrochemical Sensor-Array System. ECS Transactions, 2017, 77, 1771-1782.	0.3	4
44	The Effect of Deinking Process on Bioethanol Production from Waste Banknote Paper. Processes, 2020, 8, 1563.	1.3	4
45	Effect of Ink and Pretreatment Conditions on Bioethanol and Biomethane Yields from Waste Banknote Paper. Polymers, 2021, 13, 239.	2.0	4
46	Perennial Grasses as a Substrate for Bioethanol Production. Environmental and Climate Technologies, 2020, 24, 32-40.	0.5	4
47	Impact of Policy Instruments in the Implementation of Renewable Sources of Energy in Selected European Countries. Sustainability, 2022, 14, 6314.	1.6	4
48	Electrochemical Characterization of the Microfabricated Electrochemical Sensor Array System. Electroanalysis, 2017, 29, 249-258.	1.5	3
49	Cultivation of Algae Polyculture in Municipal Wastewater with CO ₂ Supply. Environmental and Climate Technologies, 2020, 24, 188-200.	0.5	3
50	Growth of Scenedesmus obliquus under artificial flue gas with a high sulphur concentration neutralized with oil shale ash. Proceedings of the Estonian Academy of Sciences, 2017, 66, 51.	0.9	2
51	<i>Bioresource recovery in the Australian red meat processing industry: a technical review of strategies for increased circularity</i>, 2020, , .		2
52	Thermochemical and biochemical treatment strategies for resource recovery from agri-food industry wastes. , 2021, , 787-807.		2
53	Characterisation of Electrochemical Sensor-Array for Utilisation in Construction of BOD Bioelectronic Tongue. Environmental and Climate Technologies, 2020, 24, 39-54.	0.5	1
54	DETERMINATION OF BOD IN PHENOLIC WASTEWATERS AND A STUDY OF BIODEGRADATION OF PHENOLIC COMPOUNDS. Critical Reviews in Analytical Chemistry, 1998, 28, 70-74.	1.8	0

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55	Comparative Study of Steam- and Nitrogen Explosion Pretreatment Methods. , 0, , .		0
56	Integrating Biomass Pyrolysis with Microbial Conversion Processes to Produce Biofuels and Biochemicals. Biofuels and Biorefineries, 2020, , 235-263.	0.5	0