Bestamin Ã–zkaya

List of Publications by Year
in descending order

103 papers	3,102 citations	147801 31 h-index	175258 52 g-index
105 all docs	105 docs citations	105 times ranked	3660 citing authors

#	Article	IF	Citations
1	Optimization of enzymatic hydrolysis conditions of chemical pretreated cotton stalk using response surface methodology for enhanced bioethanol production yield. Biomass Conversion and Biorefinery, 2023, 13, 6623-6634.	4.6	5
2	Optimization of liquid fertilizer production from waste seaweed: A design of experiment based statistical approach. Chemosphere, 2022, 286, 131885.	8.2	6
3	Reuse of sea water reverse osmosis brine to produce Dunaliella salina based Î²-carotene as a valuable bioproduct: A circular bioeconomy perspective. Journal of Environmental Management, 2022, 302, 114024.	7.8	12
4	Optimization of oxalic and sulphuric acid pretreatment conditions to produce bio-hydrogen from olive tree biomass. International Journal of Hydrogen Energy, 2022, 47, 26316-26325.	7.1	10
5	Determination of photoautotrophic growth and inhibition kinetics by the Monod and the Aiba models and bioenergetics of local microalgae strain. Chemosphere, 2022, 292, 133330.	8.2	4
6	Evaluation of the biogas potential of mucilage formed in the Marmara Sea. International Journal of Hydrogen Energy, 2022, 47, 15456-15463.	7.1	4
7	Effect of Green synthesized silver oxide nanoparticle on biological hydrogen production. International Journal of Hydrogen Energy, 2022, 47, 19517-19525.	7.1	16
8	Screening of biohydrogen production based on dark fermentation in the presence of nano-sized Fe2O3 doped metal oxide additives. International Journal of Hydrogen Energy, 2022, 47, 15383-15396.	7.1	11
9	Statistical optimization of dilute acid pretreatment of lignocellulosic biomass by response surface methodology to obtain fermentable sugars for bioethanol production. International Journal of Energy Research, 2021, 45, 8882-8899.	4.5	22
10	Electro/Fe2+/Persulfate Oxidation of Landfill Leachate Nanofiltration Concentrate Using MMO/TiO2-Ti Anode: A Kinetic Study. International Journal of Environmental Research, 2021, 15, 959-969.	2.3	12
11	Biomethane production kinetics of rumen pretreated lignocellulosic wastes. Clean Technologies and Environmental Policy, 2021, 23, 2941-2954.	4.1	5
12	A multicriteria decision analysis for the evaluation of microalgal growth and harvesting. Chemosphere, 2021, 279, 130561.	8.2	12
13	Electro-activated Persulfate Oxidation of Biodiesel Wastewater Following Acidification Phase: Optimization of Process Parameters Using Boxâ€“Behnken Design. Water, Air, and Soil Pollution, 2021, 232, 1.	2.4	6
14	Potential of biological sulphur recovery from thiosulphate by haloalkaliphilic Thioalkalivibrio denitrificans. Environmental Technology (United Kingdom), 2021, , 1-13.	2.2	1
15	Recent advances in the pretreatment of lignocellulosic biomass for enhanced biofuel production. International Journal of Global Warming, 2020, 22, 342.	0.5	4
16	Kinetics and modelling of thiosulphate biotransformations by haloalkaliphilic Thioalkalivibrio versutus. Chemical Engineering Journal, 2020, 401, 126047.	12.7	8
17	Kinetic-based extrapolating of methane production potential for seaweed/food waste matrixes. International Journal of Global Warming, 2020, 21, 86.	0.5	1
18	Bioenergy production from cotton straws using different pretreatment methods. International Journal of Hydrogen Energy, 2020, 45, 34720-34729.	7.1	10

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19	Kinetic-based extrapolating of methane production potential for seaweed/food waste matrixes. International Journal of Global Warming, 2020, 21, 86.	0.5	0
20	An integrated system development including PEM fuel cell/biogas purification during acidogenic biohydrogen production from dairy wastewater. International Journal of Hydrogen Energy, 2019, 44, 17297-17303.	7.1	36
21	Investigation of microbial communities in the field-scale co-composting of sewage sludge and organic municipal solid wastes. International Journal of Global Warming, 2019, 19, 177.	0.5	1
22	Microbial fuel cell-based biosensor for toxicity testing of Cr⁶⁺. International Journal of Global Warming, 2019, 17, 347.	0.5	1
23	Fluidized bed bioreactor for multiple environmental engineering solutions. Water Research, 2019, 150, 452-465.	11.3	54
24	The Electromotive-Induced Regulation of Anaerobic Fermentation. , 2019, , 739-756.		4
25	Scale-Up and Commercialization Issues of the MFCs. , 2019, , 565-583.		19
26	Determination of Microbial Community in a Pilot Scale Two-Stage Step-Feed Biological Nutrient Removal Process. Global Nest Journal, 2019, , .	0.1	1
27	The impact of pretreatment and inoculum to substrate ratio on methane potential of organic wastes from various origins. Journal of Material Cycles and Waste Management, 2018, 20, 800-809.	3.0	16
28	Treatment processes based on the molecular weight distribution of textile dyeing wastewater. Environmental Protection Engineering, 2018, 44, .	0.1	1
29	Preparation and characterisation of novel polysulfone membranes modified with Pluronic F-127 for reducing microalgal fouling. Chemical Papers, 2017, 71, 1271-1290.	2.2	9
30	Electricity Production and Characterization of High-Strength Industrial Wastewaters in Microbial Fuel Cell. Applied Biochemistry and Biotechnology, 2017, 182, 468-481.	2.9	17
31	BMP estimation of landfilled municipal solid waste by multivariate statistical methods using specific waste parameters: case study of a sanitary landfill in Turkey. Journal of Material Cycles and Waste Management, 2017, 19, 1479-1487.	3.0	4
32	Comparison of microbial community structure in a biological nutrient removal process at various stages of operation. Desalination and Water Treatment, 2016, 57, 23675-23685.	1.0	1
33	Comprehensive evaluation of two different inoculums in <scp>MFC</scp> with a new tinâ€coated copper mesh anode electrode for producing electricity from a cottonseed oil industry effluent. Environmental Progress and Sustainable Energy, 2016, 35, 110-116.	2.3	11
34	Simultaneous production of bioelectricity and treatment of membrane concentrate in multitube microbial fuel cell. Journal of Bioscience and Bioengineering, 2016, 122, 594-600.	2.2	2
35	Case study on prediction of remaining methane potential of landfilled municipal solid waste by statistical analysis of waste composition data. Waste Management, 2016, 56, 310-317.	7.4	12
36	The production of electricity from dual-chambered microbial fuel cell fueled by old age leachate. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 1544-1552.	2.3	13

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37	Molecular weight distributions in cotton-dyeing textile wastewaters. Desalination and Water Treatment, 2016, 57, 12684-12691.	1.0	2
38	Performance of nanofiltration and reverse osmosis membranes for arsenic removal from drinking water. Desalination and Water Treatment, 2016, 57, 20422-20429.	1.0	41
39	Arsenic removal from acidic solutions with biogenic ferric precipitates. Journal of Hazardous Materials, 2016, 306, 124-132.	12.4	67
40	Microbial electrochemical technologies with the perspective of harnessing bioenergy: Maneuvering towards upscaling. Renewable and Sustainable Energy Reviews, 2016, 53, 462-476.	16.4	180
41	The fouling effects of microalgal cells on crossflow membrane filtration. Journal of Membrane Science, 2016, 499, 116-125.	8.2	47
42	Comparison of treatment efficiency and molecular weight distribution of membrane concentrate from textile wastewater. Global Nest Journal, 2016, 18, 348-359.	0.1	1
43	Molecular weight distribution of pollutants in leachate from full scale landfill site. Global Nest Journal, 2016, 18, 360-370.	0.1	0
44	Anaerobic granular reactors for the treatment of dairy wastewater: A review. International Journal of Dairy Technology, 2015, 68, 459-470.	2.8	30
45	The development of catalytic performance by coating Ptâ€“Ni on CMI7000 membrane as a cathode of a microbial fuel cell. Bioresource Technology, 2015, 195, 188-193.	9.6	29
46	Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration. Chinese Journal of Catalysis, 2015, 36, 1068-1076.	14.0	42
47	Combination of a novel electrode material and artificial mediators to enhance power generation in an MFC. Water Science and Technology, 2015, 71, 320-328.	2.5	15
48	Anaerobic treatment of ozonated membrane concentrate. Desalination and Water Treatment, 2015, 54, 2075-2081.	1.0	7
49	Electricity generation from organic fraction of municipal solid wastes in tubular microbial fuel cell. Separation and Purification Technology, 2015, 156, 502-511.	7.9	37
50	Kinetics of aerobic and anaerobic biomineralization of atrazine in surface and subsurface agricultural soils in Ohio. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2015, 50, 718-726.	1.5	3
51	A review on anaerobic biofilm reactors for the treatment of dairy industry wastewater. Process Biochemistry, 2015, 50, 262-271.	3.7	207
52	TREATMENT OF COMPOST LEACHATE BY MEMBRANE PROCESSES. Environmental Engineering and Management Journal, 2015, 14, 2237-2241.	0.6	4
53	Bio-reduction of tetrachloroethen using a H2-based membrane biofilm reactor and community fingerprinting. Water Research, 2014, 58, 21-28.	11.3	31
54	Electricity generating capacity and performance deterioration of a microbial fuel cell fed with beer brewery wastewater. Journal of Bioscience and Bioengineering, 2014, 118, 672-678.	2.2	14

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55	Change of surface and structure properties of cation exchange membrane in a microbial fuel cell. International Journal of Global Warming, 2014, 6, 222.	0.5	2
56	Novel design of a multitube microbial fuel cell (UM2FC) for energy recovery and treatment of membrane concentrates. Biomass and Bioenergy, 2014, 69, 58-65.	5.7	9
57	A review on fermentative hydrogen production from dairy industry wastewater. Journal of Chemical Technology and Biotechnology, 2014, 89, 1627-1636.	3.2	68
58	Microbial Fuel Cells for Energy Recovery from Waste. International Journal of Energy Science, 2014, 4, 28.	0.6	12
59	Arsenic Removal from Drinking Water Using Low Pressure Membranes. Industrial & Engineering Chemistry Research, 2013, 52, 9958-9964.	3.7	21
60	Profiling of bacterial community in a full-scale aerobic composting plant. International Biodeterioration and Biodegradation, 2013, 77, 85-90.	3.9	72
61	Electricity generation from young landfill leachate in a microbial fuel cell with a new electrode material. Bioprocess and Biosystems Engineering, 2013, 36, 399-405.	3.4	37
62	Bioelectricity generation in continuously-fed microbial fuel cell: Effects of anode electrode material and hydraulic retention time. Bioresource Technology, 2013, 149, 459-464.	9.6	78
63	Use of landfill leachate as a carbon source in a sulfidogenic fluidized-bed reactor for the treatment of synthetic acid mine drainage. Minerals Engineering, 2013, 48, 56-60.	4.3	41
64	Molecular weight distribution of a full-scale landfill leachate treatment by membrane bioreactor and nanofiltration membrane. Waste Management, 2013, 33, 866-870.	7.4	78
65	Meteorological parameters as an important factor on the energy recovery of landfill gas in landfills. Journal of Renewable and Sustainable Energy, 2012, 4, 063135.	2.0	9
66	Bioelectricity production using a new electrode in a microbial fuel cell. Bioprocess and Biosystems Engineering, 2012, 35, 1219-1227.	3.4	31
67	Combined in situ electrochemical impedance spectroscopyâ€“UV/Vis and AFM studies of Ag nanoparticle stability in perfluorinated films. Materials Chemistry and Physics, 2012, 134, 302-308.	4.0	6
68	ARTIFICIAL INTELLIGENCE-BASED PREDICTION MODELS FOR ENVIRONMENTAL ENGINEERING. Neural Network World, 2011, 21, 193-218.	0.8	87
69	Postâ€treatment of anaerobically treated mediumâ€age landfill leachate. Environmental Progress and Sustainable Energy, 2010, 29, 78-84.	2.3	3
70	Predictive modelling of Fe(III) precipitation in iron removal process for bioleaching circuits. Bioprocess and Biosystems Engineering, 2010, 33, 449-456.	3.4	8
71	Biooxidation and precipitation for iron and sulfate removal from heap bioleaching effluent streams. Hydrometallurgy, 2010, 101, 7-14.	4.3	45
72	Characterization of jarosites produced by chemical synthesis over a temperature gradient from 2 to 40Â°C. International Journal of Mineral Processing, 2010, 94, 121-128.	2.6	31

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73	Inhibition kinetics of iron oxidation by Leptospirillum ferriphilum in the presence of ferric, nickel and zinc ions. Hydrometallurgy, 2009, 97, 137-145.	4.3	25
74	Process for biological oxidation and control of dissolved iron in bioleach liquors. Process Biochemistry, 2009, 44, 1315-1322.	3.7	27
75	Neural network prediction of nitrate in groundwater of Harran Plain, Turkey. Environmental Geology, 2008, 56, 19-25.	1.2	103
76	Biologically Fe2+ oxidizing fluidized bed reactor performance and controlling of Fe3+ recycle during heap bioleaching: an artificial neural network-based model. Bioprocess and Biosystems Engineering, 2008, 31, 111-117.	3.4	15
77	COD fractions of leachate from aerobic and anaerobic pilot scale landfill reactors. Journal of Hazardous Materials, 2008, 158, 157-163.	12.4	47
78	High-Rate Fluidized-Bed Ferric Sulfate Generation for Hydrometallurgical Applications. Advanced Materials Research, 2007, 20-21, 54-57.	0.3	1
79	Iron Oxidation and Bioleaching Potential at Low Temperatures. Advanced Materials Research, 2007, 20-21, 578-578.	0.3	0
80	Sulfidogenic fluidized-bed treatment of metal-containing wastewater at 8 and 65â˜C temperatures is limited by acetate oxidation. Water Research, 2007, 41, 2706-2714.	11.3	36
81	High-rate sulphidogenic fluidised-bed treatment of metal-containing wastewater at high temperature. Water Science and Technology, 2007, 55, 269-275.	2.5	2
82	Sulfidogenic fluidized-bed treatment of metal-containing wastewater at low and high temperatures. Biotechnology and Bioengineering, 2007, 96, 1064-1072.	3.3	37
83	Neural network prediction of thermophilic (65Â°C) sulfidogenic fluidized-bed reactor performance for the treatment of metal-containing wastewater. Biotechnology and Bioengineering, 2007, 97, 780-787.	3.3	17
84	Mineral and iron oxidation at low temperatures by pure and mixed cultures of acidophilic microorganisms. Biotechnology and Bioengineering, 2007, 97, 1205-1215.	3.3	43
85	Kinetics of iron oxidation byLeptospirillum ferriphilum dominated culture at pH below one. Biotechnology and Bioengineering, 2007, 97, 1121-1127.	3.3	27
86	Iron oxidation and precipitation in a simulated heap leaching solution in a Leptospirillum ferriphilum dominated biofilm reactor. Hydrometallurgy, 2007, 88, 67-74.	4.3	34
87	Neural network prediction model for the methane fraction in biogas from field-scale landfill bioreactors. Environmental Modelling and Software, 2007, 22, 815-822.	4.5	129
88	Influence of leachate recirculation on aerobic and anaerobic decomposition of solid wastes. Journal of Hazardous Materials, 2007, 143, 177-183.	12.4	170
89	Metal concentrations of simulated aerobic and anaerobic pilot scale landfill reactors. Journal of Hazardous Materials, 2007, 145, 186-194.	12.4	52
90	Addressing the operational problems in a composting and recycling plant. Waste Management, 2006, 26, 1384-1391.	7.4	24

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91	NN-LEAP: A neural network-based model for controlling leachate flow-rate in a municipal solid waste landfill site. Environmental Modelling and Software, 2006, 21, 1190-1197.	4.5	76
92	Adsorption and desorption of phenol on activated carbon and a comparison of isotherm models. Journal of Hazardous Materials, 2006, 129, 158-163.	12.4	295
93	Soluble substrate concentrations in leachate from field scale MSW test cells. Journal of Hazardous Materials, 2006, 134, 19-26.	12.4	12
94	Mathematical simulation and long-term monitoring of leachate components from two different landfill cells. Journal of Hazardous Materials, 2006, 135, 32-39.	12.4	17
95	Quality and Quantity of Leachate in Aerobic Pilot-Scale Landfills. Environmental Management, 2006, 38, 189-196.	2.7	51
96	Chlorophenols in leachates originating from different landfills and aerobic composting plants. Journal of Hazardous Materials, 2005, 124, 107-112.	12.4	50
97	Investigation of Leachate Recirculation Effects in Istanbul Odayeri Sanitary Landfill. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2004, 39, 873-883.	1.7	12
98	Enhanced stabilisation and methane potential of MSWs in a field-scale landfill with leachate recirculation. International Journal of Environment and Pollution, 2004, 21, 277.	0.2	3
99	Effect of leachate recirculation on refuse decomposition rates at landfill site: a case study. International Journal of Environment and Pollution, 2004, 21, 175.	0.2	28
100	Usage of Ti-TiO₂ Electrode in Microbial Fuel Cell to Enhance the Electricity Generation and its Biocompatibility. Applied Mechanics and Materials, 0, 404, 371-376.	0.2	9
101	The treatability of landfill leachate by direct contact membrane distillation and factors influencing the efficiency of the process. , 0, 71, 233-243.		11
102	Effect of Ozonation on Anaerobic Organic Removal from Membrane Concentrate. Journal of Clean Energy Technologies, 0, , 124-126.	0.1	1
103	Post-treatment of anaerobically-treated compost leachate by membrane systems: emphasis on molecular weight distribution. , 0, 93, 40-47.		1