

Sulaiman Al-Zuhair

List of Publications by Year in descending order

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95
papers

3,810
citations

126708

33
h-index

133063

59
g-index

95
all docs

95
docs citations

95
times ranked

3932
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of biodiesel: possibilities and challenges. <i>Biofuels, Bioproducts and Biorefining</i> , 2007, 1, 57-66.	1.9	315
2	Removal of phenol from petroleum refinery wastewater through adsorption on date-pit activated carbon. <i>Chemical Engineering Journal</i> , 2010, 162, 997-1005.	6.6	232
3	Assessment of electrocoagulation for the treatment of petroleum refinery wastewater. <i>Journal of Environmental Management</i> , 2009, 91, 180-185.	3.8	211
4	Proposed kinetic mechanism of the production of biodiesel from palm oil using lipase. <i>Process Biochemistry</i> , 2007, 42, 951-960.	1.8	204
5	Effective extraction of microalgae lipids from wet biomass for biodiesel production. <i>Biomass and Bioenergy</i> , 2014, 66, 159-167.	2.9	176
6	Reduction of COD in refinery wastewater through adsorption on date-pit activated carbon. <i>Journal of Hazardous Materials</i> , 2010, 173, 750-757.	6.5	164
7	Kinetics of the enzymatic hydrolysis of palm oil by lipase. <i>Process Biochemistry</i> , 2003, 38, 1155-1163.	1.8	122
8	Evaluation of a three-step process for the treatment of petroleum refinery wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 56-62.	3.3	121
9	Plasma gasification of municipal solid waste for waste-to-value processing. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 116, 109461.	8.2	120
10	Supercritical carbon dioxide extraction of microalgae lipid: Process optimization and laboratory scale-up. <i>Journal of Supercritical Fluids</i> , 2014, 86, 57-66.	1.6	103
11	The effect of fatty acid concentration and water content on the production of biodiesel by lipase. <i>Biochemical Engineering Journal</i> , 2006, 30, 212-217.	1.8	93
12	A Review of Enzymatic Transesterification of Microalgal Oil-Based Biodiesel Using Supercritical Technology. <i>Enzyme Research</i> , 2011, 2011, 1-25.	1.8	85
13	Production of Biodiesel by Lipase-Catalyzed Transesterification of Vegetable Oils: A Kinetics Study. <i>Biotechnology Progress</i> , 2005, 21, 1442-1448.	1.3	81
14	Growth of microalgae using CO ₂ enriched air for biodiesel production in supercritical CO ₂ . <i>Renewable Energy</i> , 2015, 82, 61-70.	4.3	67
15	The effect of crystallinity of cellulose on the rate of reducing sugars production by heterogeneous enzymatic hydrolysis. <i>Bioresource Technology</i> , 2008, 99, 4078-4085.	4.8	66
16	Evaluation of an activated carbon packed bed for the adsorption of phenols from petroleum refinery wastewater. <i>Environmental Science and Pollution Research</i> , 2017, 24, 7511-7520.	2.7	63
17	Effectiveness of using deep eutectic solvents as an alternative to conventional solvents in enzymatic biodiesel production from waste oils. <i>Energy Reports</i> , 2018, 4, 77-83.	2.5	62
18	Extracted fat from lamb meat by supercritical CO ₂ as feedstock for biodiesel production. <i>Biochemical Engineering Journal</i> , 2011, 55, 23-31.	1.8	61

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19	Dynamic modeling of biodiesel production from simulated waste cooking oil using immobilized lipase. <i>Biochemical Engineering Journal</i> , 2009, 44, 256-262.	1.8	55
20	Using switchable solvents for enhanced, simultaneous microalgae oil extraction-reaction for biodiesel production. <i>Biochemical Engineering Journal</i> , 2019, 141, 217-224.	1.8	54
21	Biodiesel production from <i>Nannochloropsis gaditana</i> using supercritical CO ₂ for lipid extraction and immobilized lipase transesterification: Economic and environmental impact assessments. <i>Fuel Processing Technology</i> , 2020, 198, 106249.	3.7	51
22	Petroleum refinery wastewater treatment: A pilot scale study. <i>Journal of Water Process Engineering</i> , 2016, 14, 71-76.	2.6	49
23	Continuous biodegradation of phenol in a spouted bed bioreactor (SBBR). <i>Chemical Engineering Journal</i> , 2010, 160, 565-570.	6.6	48
24	Immobilization of <i>Pseudomonas putida</i> in PVA gel particles for the biodegradation of phenol at high concentrations. <i>Biochemical Engineering Journal</i> , 2011, 56, 46-50.	1.8	48
25	Enzymatic biodiesel production of microalgae lipids under supercritical carbon dioxide: Process optimization and integration. <i>Biochemical Engineering Journal</i> , 2014, 90, 103-113.	1.8	47
26	Continuous production of biodiesel from fat extracted from lamb meat in supercritical CO ₂ media. <i>Biochemical Engineering Journal</i> , 2012, 60, 106-110.	1.8	46
27	Batch degradation of phenol in a spouted bed bioreactor system. <i>Journal of Industrial and Engineering Chemistry</i> , 2010, 16, 267-272.	2.9	45
28	Kinetic study on hydrolysis of oils by lipase with ultrasonic emulsification. <i>Biochemical Engineering Journal</i> , 2006, 32, 19-24.	1.8	42
29	The use of alternative solvents in enzymatic biodiesel production: a review. <i>Biofuels, Bioproducts and Biorefining</i> , 2017, 11, 168-194.	1.9	42
30	Simultaneous extraction–reaction process for biodiesel production from microalgae. <i>Energy Reports</i> , 2019, 5, 37-40.	2.5	41
31	Enzymatic production of biodiesel from used/waste vegetable oils: Design of a pilot plant. <i>Renewable Energy</i> , 2011, 36, 2605-2614.	4.3	40
32	Immobilization of Lipase on Metal-Organic frameworks for biodiesel production. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107265.	3.3	39
33	Enzymatic production of biodiesel from waste oil in ionic liquid medium. <i>Biofuels</i> , 2019, 10, 463-472.	1.4	38
34	Enzymatic pre–treatment of microalgae cells for enhanced extraction of proteins. <i>Engineering in Life Sciences</i> , 2017, 17, 175-185.	2.0	35
35	Lipase Immobilization on Macroporous ZIF-8 for Enhanced Enzymatic Biodiesel Production. <i>ACS Omega</i> , 2021, 6, 2143-2148.	1.6	35
36	Development of a membrane bioreactor for enzymatic hydrolysis of cellulose. <i>Renewable Energy</i> , 2013, 56, 85-89.	4.3	33

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37	Microalgae cultivation for phenolic compounds removal. <i>Environmental Science and Pollution Research</i> , 2018, 25, 33936-33956.	2.7	33
38	Removal of Bromine from the non-metallic fraction in printed circuit board via its Co-pyrolysis with alumina. <i>Waste Management</i> , 2022, 137, 283-293.	3.7	31
39	Hydrolysis of palm and olive oils by immobilised lipase using hollow fibre reactor. <i>Biochemical Engineering Journal</i> , 2007, 34, 228-235.	1.8	30
40	The role of oxygen regulation and algal growth parameters in hydrogen production via biophotolysis. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107003.	3.3	30
41	Advances in Enzyme and Ionic Liquid Immobilization for Enhanced in MOFs for Biodiesel Production. <i>Molecules</i> , 2021, 26, 3512.	1.7	28
42	Synergistic effect of pretreatment and hydrolysis enzymes on the production of fermentable sugars from date palm lignocellulosic waste. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 413-415.	2.9	26
43	Improving the economic feasibility of biodiesel production from microalgal biomass via high-value products coproduction. <i>International Journal of Energy Research</i> , 2020, 44, 11453-11472.	2.2	22
44	Immobilization of formate dehydrogenase in metal organic frameworks for enhanced conversion of carbon dioxide to formate. <i>Chemosphere</i> , 2021, 267, 128921.	4.2	22
45	Investigation of the specific interfacial area of a palm oil-water system. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 706-710.	1.6	20
46	High enzyme concentration model for the kinetics of hydrolysis of oils by lipase. <i>Chemical Engineering Journal</i> , 2004, 103, 7-11.	6.6	19
47	Effect of enzyme molecules covering of oil-water interfacial area on the kinetic of oil hydrolysis. <i>Chemical Engineering Journal</i> , 2008, 139, 540-548.	6.6	18
48	Effect of cresols treatment by microalgae on the cells composition. <i>Journal of Water Process Engineering</i> , 2018, 26, 250-256.	2.6	18
49	The effect of substrate concentrations on the production of biodiesel by lipase-catalysed transesterification of vegetable oils. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 299-305.	1.6	17
50	Bilirubin detoxification using different phytomaterials: characterization and in vitro studies. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 2997-3010.	3.3	17
51	Thermo-responsive switchable solvents for simultaneous microalgae cell disruption, oil extraction-reaction, and product separation for biodiesel production. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 26, 101667.	1.5	17
52	MOFs as Potential Matrices in Cyclodextrin Glycosyltransferase Immobilization. <i>Molecules</i> , 2021, 26, 680.	1.7	17
53	Hydrogen Production by Steam Reforming of Commercially Available LPG in UAE. <i>Chemical Engineering Communications</i> , 2017, 204, 141-148.	1.5	16
54	Effect of Enzymatic pre-treatment of microalgae extracts on their anti-tumor activity. <i>Biomedical Journal</i> , 2017, 40, 339-346.	1.4	16

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55	Using microalgae for remediation of crude petroleum <sc>oil"water</sc> emulsions. <i>Biotechnology Progress</i> , 2021, 37, e3098.	1.3	14
56	Immobilization of Lipase from <i>Thermomyces lanuginosus</i> in Magnetic Macroporous ZIF-8 Improves Lipase Reusability in Biodiesel Preparation. <i>ACS Omega</i> , 2022, 7, 274-280.	1.6	14
57	A general approach for deliverability calculations of gas wells. <i>Journal of Petroleum Science and Engineering</i> , 2009, 67, 97-104.	2.1	13
58	Mass transfer modeling of <i>Scenedesmus</i> sp. lipids extracted by supercritical CO ₂ . <i>Biomass and Bioenergy</i> , 2014, 70, 530-541.	2.9	13
59	Reaction-diffusion model to describe biodiesel production using lipase encapsulated in ZIF-8. <i>Fuel</i> , 2022, 311, 122630.	3.4	13
60	Unsteady-state kinetics of lipolytic hydrolysis of palm oil in a stirred bioreactor. <i>Biochemical Engineering Journal</i> , 2004, 19, 81-86.	1.8	12
61	Improving the reusability of an immobilized lipase-ionic liquid system for biodiesel production. <i>Biofuels</i> , 2019, 10, 635-641.	1.4	12
62	Dynamic model of simultaneous enzymatic cellulose hydrolysis and product separation in a membrane bioreactor. <i>Biochemical Engineering Journal</i> , 2021, 174, 108107.	1.8	12
63	Enzymes in Biofuels Production. <i>Enzyme Research</i> , 2011, 2011, 1-2.	1.8	11
64	Enzymatic Delignification of Biomass for Enhanced Fermentable Sugars Production. <i>Energy Technology</i> , 2015, 3, 121-127.	1.8	11
65	RF Microalgal lipid content characterization. <i>Scientific Reports</i> , 2015, 4, 5108.	1.6	9
66	Biochemical catalytic production of biodiesel. , 2016, , 165-199.		9
67	Regenerating Diethanolamine Aqueous Solution for CO ₂ Absorption Using Microalgae. <i>Industrial Biotechnology</i> , 2016, 12, 105-108.	0.5	9
68	Enzymatic Production of Bio-Diesel from Waste Cooking Oil Using Lipase. <i>Open Chemical Engineering Journal</i> , 2008, 2, 84-88.	0.4	9
69	PHENOL BIODEGRADATION BY<i>RALSTONIA PICKETTII</i> EXTRACTED FROM PETROLEUM REFINERY OIL SLUDGE. <i>Chemical Engineering Communications</i> , 2012, 199, 1194-1204.	1.5	8
70	Optimizing the Extraction of Oils from Date Seeds for Biodiesel Production. <i>International Journal of Environmental Research</i> , 2018, 12, 101-108.	1.1	8
71	High Concentration Phenol Removal Using Freshwater Microalgae. <i>International Journal of Biotechnology for Wellness Industries</i> , 2016, 5, 39-45.	0.3	8
72	Effect of the Photodynamic Therapy Applications with Potent Microalgae Constituents on Several Types of Tumor. <i>Irbm</i> , 2019, 40, 51-61.	3.7	7

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73	Adsorption of Lipase on Hollow Fiber Membrane Chips. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2005, 33, 423-433.	0.9	6
74	A General Approach for Deliverability Calculations of Gas Wells. , 2008, , .		6
75	Using Activated Carbon from waste date-pits as an adsorbent for transformer oil regeneration. , 2011, , .		6
76	Performance evaluation of LPG desulfurization by adsorption for hydrogen production. <i>Journal of Energy Chemistry</i> , 2015, 24, 477-484.	7.1	6
77	Enhanced selectivity of syngas in partial oxidation of methane: A new route for promising Ni-Alumina catalysts derived from Ni/ Ni^3AlOOH with modified Ni dispersion. <i>International Journal of Energy Research</i> , 2020, 44, 12081-12099.	2.2	6
78	Techno-Economic Analysis of Green Building Codes in United Arab Emirates Based on a Case Study Office Building. <i>Sustainability</i> , 2020, 12, 8773.	1.6	6
79	Use of Microalgae for Simultaneous Industrial Wastewater Treatment and Biodiesel Production. <i>International Journal of Environmental Research</i> , 2020, 14, 311-322.	1.1	6
80	Pressure Drop in Laminar and Turbulent Flows in Circular Pipe with Baffles -- An Experimental and Analytical Study. <i>International Journal of Fluid Mechanics Research</i> , 2006, 33, 303-319.	0.4	6
81	Simultaneous Enzymatic Cellulose Hydrolysis and Product Separation in a Radial-Flow Membrane Bioreactor. <i>Molecules</i> , 2022, 27, 288.	1.7	6
82	Using liquid-liquid deep settling model in determining the design parameters of crude palm oil settler. <i>Separation and Purification Technology</i> , 2004, 35, 133-140.	3.9	5
83	Emerging Green Technologies for Biodiesel Production. , 0, , .		4
84	Gold extraction from biosolid sludge obtained by sewage treatment. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 2643-2648.	1.2	4
85	Electrocoagulation treatment of reject brine effluent from Solvay process. , 0, 163, 325-335.		4
86	Effect of thermo-responsive switchable solvents on microalgae cells TM disruption and non-isothermal combustion kinetics. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 3275-3288.	2.9	3
87	Kinetics of <i>Aspergillus niger</i> Cellulase Inhibition by Reducing Sugar Produced by the Hydrolysis of Carboxymethylcellulose. <i>International Journal of Chemical Reactor Engineering</i> , 2007, 5, .	0.6	2
88	Simplified approach for predicting gas well performance. <i>Journal of Petroleum Science and Engineering</i> , 2009, 65, 51-61.	2.1	2
89	Simultaneous and rapid quantification of microalga biomolecule content using electrochemical impedance spectroscopy. <i>Biotechnology Progress</i> , 2020, 36, e3037.	1.3	2
90	Dynamic Modelling of Enzymatic Hydrolysis of Oil Using Lipase Immobilized on Zeolite. <i>Sustainability</i> , 2022, 14, 8399.	1.6	2

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91	Characterization of polyvinyl alcohol (PVA) gel as support for microbial immobilization. Journal of Biotechnology, 2010, 150, 286-286.	1.9	1
92	Monitoring of microalgae lipid accumulation system overview. , 2015, , .		1
93	Structural, Textural, and Catalytic Properties of Ti(IV)â€Fe(III) Mixed Oxides Prepared by a Modified Solâ€Gel Route. ChemistrySelect, 2017, 2, 791-799.	0.7	1
94	Visualization and quantification of oil in single microalgal cells. Journal of Applied Phycology, 2017, 29, 1195-1202.	1.5	1
95	Microalgae Cultivation for Phenol Removal from Wastewater. MOJ Toxicology, 2017, 3, .	0.2	1