Zurina Zainal Abidin

List of Publications by Year in descending order

85 papers	4,141 citations	236833 25 h-index	114418 63 g-index
87 all docs	87 docs citations	87 times ranked	4919 citing authors

#	Article	IF	Citations
1	Review of technologies for oil and gas produced water treatment. Journal of Hazardous Materials, 2009, 170, 530-551.	6.5	1,712
2	Batch adsorption of basic dye using acid treated kenaf fibre char: Equilibrium, kinetic and thermodynamic studies. Chemical Engineering Journal, 2012, 181-182, 449-457.	6.6	293
3	Extraction of Oil from Jatropha Seeds-Optimization and Kinetics. American Journal of Applied Sciences, 2009, 6, 1390-1395.	0.1	172
4	Removal of Fe(III), Mn(II) and Zn(II) from palm oil mill effluent (POME) by natural zeolite. Journal of the Taiwan Institute of Chemical Engineers, 2012, 43, 750-759.	2.7	150
5	Evaluation of membrane bioreactor for hypersaline oily wastewater treatment. Chemical Engineering Research and Design, 2012, 90, 45-55.	2.7	114
6	Application of membrane-coupled sequencing batch reactor for oilfield produced water recycle and beneficial re-use. Bioresource Technology, 2010, 101, 6942-6949.	4.8	109
7	Membrane foulants characterization in a membrane bioreactor (MBR) treating hypersaline oily wastewater. Chemical Engineering Journal, 2011, 168, 140-150.	6.6	104
8	Eco-Friendly Sustainable Fluorescent Carbon Dots for the Adsorption of Heavy Metal Ions in Aqueous Environment. Nanomaterials, 2020, 10, 315.	1.9	94
9	Optimisation of a method to extract the active coagulant agent from Jatropha curcas seeds for use in turbidity removal. Industrial Crops and Products, 2013, 41, 319-323.	2.5	89
10	Stirring time effect of silver nanoparticles prepared in glutathione mediated by green method. Chemistry Central Journal, 2014, 8, 11.	2.6	82
11	Effect of physical pretreatment on dilute acid hydrolysis of water hyacinth (Eichhornia crassipes). Bioresource Technology, 2011, 102, 5193-5199.	4.8	80
12	Modeling of membrane bioreactor treating hypersaline oily wastewater by artificial neural network. Journal of Hazardous Materials, 2011, 192, 568-575.	6.5	80
13	Biological treatment of produced water in a sequencing batch reactor by a consortium of isolated halophilic microorganisms. Environmental Technology (United Kingdom), 2010, 31, 1229-1239.	1.2	58
14	A preliminary study onJatropha curcasas coagulant in wastewater treatment. Environmental Technology (United Kingdom), 2011, 32, 971-977.	1.2	55
15	Facile Synthesis of Nitrogen-Doped Carbon Dots from Lignocellulosic Waste. Nanomaterials, 2019, 9, 1500.	1.9	54
16	Fluorescent recognition of Fe3+ in acidic environment by enhanced-quantum yield N-doped carbon dots: optimization of variables using central composite design. Scientific Reports, 2020, 10, 11710.	1.6	48
17	Overview of Alternative Ethanol Removal Techniques for Enhancing Bioethanol Recovery from Fermentation Broth. Processes, 2019, 7, 458.	1.3	36
18	Thermal and Flammability Characteristics of Blended Jatropha Bio-Epoxy as Matrix in Carbon Fiberâ€“Reinforced Polymer. Journal of Composites Science, 2019, 3, 6.	1.4	35

#	Article	IF	Citations
19	Removal of Residual Oils from Palm Oil Mill Effluent by Adsorption on Natural Zeolite. Water, Air, and Soil Pollution, 2012, 223, 4017-4027.	1.1	33
20	Functionalizing Graphene Oxide with Alkylamine by Gamma-ray Irradiation Method. Nanomaterials, 2017, 7, 135.	1.9	33
21	Selective and simultaneous detection of cadmium, lead and copper by tapioca-derived carbon dotâ€“modified electrode. Environmental Science and Pollution Research, 2020, 27, 13315-13324.	2.7	33
22	Assessing the kinetic model of hydro-distillation and chemical composition of Aquilaria malaccensis leaves essential oil. Chinese Journal of Chemical Engineering, 2017, 25, 216-222.	1.7	32
23	Proptosisâ€”Correlation and Agreement between Hertel Exophthalmometry and Computed Tomography. Orbit, 2015, 34, 257-262.	0.5	30
24	Synthesis and Characterization of Fluorescent Carbon Dots from Tapioca. ChemistrySelect, 2019, 4, 4140-4146.	0.7	29
25	Treatment of Palm Oil Mill Effluent Using Membrane Bioreactor: Novel Processes and Their Major Drawbacks. Water (Switzerland), 2018, 10, 1165.	1.2	27
26	Fabrication, characterization and response surface method optimization for quantum efficiency of fluorescent nitrogen-doped carbon dots obtained from carboxymethylcellulose of oil palms empty fruit bunch. Chinese Journal of Chemical Engineering, 2020, 28, 584-592.	1.7	27
27	Efficient removal of Cu(<scp>ii</scp>) from aqueous systems using enhanced quantum yield nitrogen-doped carbon nanodots. RSC Advances, 2020, 10, 14979-14990.	1.7	22
28	A novel biocoagulant agent from mushroom chitosan as water and wastewater therapy. Environmental Science and Pollution Research, 2017, 24, 20104-20112.	2.7	21
29	Optimization of turbidity and dye removal from synthetic wastewater using response surface methodology: Effectiveness of Moringa oleifera seed powder as a green coagulant. Journal of Environmental Chemical Engineering, 2022, 10, 106988.	3.3	21
30	Sustainable Synthesis Processes for Carbon Dots through Response Surface Methodology and Artificial Neural Network.. Processes, 2019, 7, 704.	1.3	20
31	Novel electrode structures for large scale dielectrophoretic separations based on textile technology. Journal of Biotechnology, 2007, 130, 183-187.	1.9	19
32	Alternative for Rapid Detection and Screening of Pork, Chicken, and Beef Using Dielectric Properties in the Frequency of 0.5 to 50 GHz. International Journal of Food Properties, 2016, 19, 1127-1138.	1.3	19
33	Modelling of Molasses Fermentation for Bioethanol Production: A Comparative Investigation of Monod and Andrews Models Accuracy Assessment. Biomolecules, 2019, 9, 308.	1.8	19
34	Sustainable Development of Enhanced Luminescence Polymer-Carbon Dots Composite Film for Rapid Cd2+ Removal from Wastewater. Molecules, 2020, 25, 3541.	1.7	19
35	A New Model of Alcoholic Fermentation under a Byproduct Inhibitory Effect. ACS Omega, 2021, 6, 4137-4146.	1.6	17
36	Large scale dielectrophoretic construction of biofilms using textile technology. Biotechnology and Bioengineering, 2007, 96, 1222-1225.	1.7	16

#	Article	IF	Citations
37	Transesterification Reaction for Synthesis of Palm^|^ndash;based Ethylhexyl Ester and Formulation as Base Oil for Synthetic Drilling Fluid. Journal of Oleo Science, 2014, 63, 497-506.	0.6	16
38	Towards Higher Oil Yield and Quality of Essential Oil Extracted from Aquilaria malaccensis Wood via the Subcritical Technique. Molecules, 2020, 25, 3872.	1.7	16
39	Optimization studies and compositional analysis of subcritical water extraction of essential oil from Citrus hystrix DC. leaves. Journal of Supercritical Fluids, 2021, 178, 105384.	1.6	16
40	DIELECTRIC CHARACTERIZATION OF LIQUID CONTAINING LOW ALCOHOLIC CONTENT FOR POTENTIAL HALAL AUTHENTICATION IN THE 0.5-50 GHz RANGE. American Journal of Applied Sciences, 2014, 11, 1104-1112.	0.1	15
41	<scp>C</scp>oagulative <scp>B</scp>ehaviour of Jatropha curcas and its <scp>P</scp>erformance in <scp>W</scp>astewater <scp>T</scp>reatment. Environmental Progress and Sustainable Energy, 2017, 36, 1709-1718.	1.3	15
42	Comparison of Citronella Oil Extraction Methods from Cymbopogon nardus Grass by Ohmic-heated Hydro-distillation, Hydro-Distillation, and Steam Distillation. BioResources, 2013, 9, .	0.5	14
43	Permeability and Antifouling Augmentation of a Hybrid PVDF-PEG Membrane Using Nano-Magnesium Oxide as a Powerful Mediator for POME Decolorization. Polymers, 2020, 12, 549.	2.0	14
44	Bio-Resin Production through Ethylene Unsaturated Carbon Using Vegetable Oils. Processes, 2020, 8, 48.	1.3	14
45	Solid Liquid Extraction of Jatropha Seeds by Microwave Pretreatment and Ultrasound Assisted Methods. Journal of Applied Sciences, 2011, 11, 2444-2447.	0.1	14
46	Subcritical water extraction of essential oil from Aquilaria malaccensis leaves. Separation Science and Technology, 2020, 55, 2779-2798.	1.3	13
47	Detection ofAeromonas hydrophilaUsing Fiber Optic Microchannel Sensor. Journal of Sensors, 2017, 2017, 1-10.	0.6	12
48	The Pertinence of Microwave Irradiated Coconut Shell Bio-Sorbent for Wastewater Decolourization: Structural Morphology and Adsorption Optimization Using the Response Surface Method (RSM). International Journal of Environmental Research and Public Health, 2018, 15, 2200.	1.2	12
49	Techno-Economic Assessment of On-Farm Anaerobic Digestion System Using Attached-Biofilm Reactor in the Dairy Industry. Sustainability, 2021, 13, 2063.	1.6	12
50	Preliminary Study of Rambutan (<i>Nephelium lappaceum) </i>Seed as Potential Biocoagulant for Turbidity Removal. Advanced Materials Research, 0, 917, 96-105.	0.3	11
51	High-gradient electric field system for the dielectrophoretic separation of cells. Journal of Electrostatics, 2005, 63, 823-830.	1.0	10
52	Optimisation of solid liquid extraction of jatropha oil using petroleum ether. Asia-Pacific Journal of Chemical Engineering, 2013, 8, 331-338.	0.8	9
53	Separation and Detection of Escherichia coli and Saccharomyces cerevisiae Using a Microfluidic Device Integrated with an Optical Fibre. Biosensors, 2019, 9, 40.	2.3	9
54	Effect of Storage Conditions on Jatropha curcas Performance as Biocoagulant for Treating Palm Oil Mill Effluent. Journal of Environmental Science and Technology, 2019, 12, 92-101.	0.3	9

#	Article	IF	Citations
55	Decolorization of Palm Oil Mill Effluent by Klebsiella Pneumonia ABZ11: Remediation Efficacy and Statistical Optimization of Treatment Conditions. Frontiers in Microbiology, 2020, 11, 675.	1.5	8
56	Augmented yeast-extract and diary-waste for enhancing bio-decolourization of palm oil mill effluent using activated sludge. Journal of Water Process Engineering, 2020, 36, 101263.	2.6	8
57	EPOXIDATION OF JATROPHA METHYL ESTERS VIA ACIDIC ION EXCHANGE RESIN: OPTIMIZATION AND CHARACTERIZATION. Brazilian Journal of Chemical Engineering, 2019, 36, 959-968.	0.7	8
58	Ecofriendly adsorption and sensitive detection of Hg (II) by biomass-derived nitrogen-doped carbon dots: process modelling using central composite design. Environmental Science and Pollution Research, 2022, 29, 86859-86872.	2.7	8
59	Preliminary study of ohmic heated hydro distillation for essential oil's plant extraction. , 2011, , .		7
60	Modelling of mass transfer during pervaporation of ethanol/water mixture using polydimethylsiloxane membrane. Chemical Engineering Research and Design, 2021, 175, 320-329.	2.7	7
61	Polymer Partitioning Approach for Petroleum Hydrocarbon Reduction in a Clay Soil. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	5
62	Screening of factors influencing the yield of <scp>Citrus hystrix</scp> leaves essential oil extracted via pressurized hot water extraction based on resolution V fractional factorial design. Journal of Food Process Engineering, 2020, 43, e13531.	1.5	5
63	Sustainable Jatropha Oil-Based Membrane with Graphene Oxide for Potential Application in Cu(II) Ion Removal from Aqueous Solution. Processes, 2020, 8, 230.	1.3	5
64	The <I>In Vitro</I> Therapeutic Activity of Ellagic Acid-Alginate-Silver Nanoparticles on Breast Cancer Cells (MCF-7) and Normal Fibroblast Cells (3T3). Science of Advanced Materials, 2016, 8, 545-553.	0.1	5
65	Oil Palm as Bioenergy Feedstock. , 2012, , 653-692.		4
66	Synthesis of palm-based ethylhexyl ester as a synthetic base oil for drilling fluids using chemical transesterification. Grasas Y Aceites, 2014, 65, e005.	0.3	4
67	MEH-PPV film thickness influenced fluorescent quenching of tip-coated plastic optical fiber sensors. Optical Fiber Technology, 2017, 39, 21-25.	1.4	4
68	Rheological Study of Phenol Formaldehyde Resole Resin Synthesized for Laminate Application. Materials, 2020, 13, 2578.	1.3	4
69	Optimization and modeling of the performance of polydimethylsiloxane for pervaporation of ethanolâ^'water mixture. Journal of Applied Polymer Science, 2021, 138, 50408.	1.3	4
70	Methylene Blue Removal from Aqueous Solution by <i>Hylocereus</i><i> un</i><i>datus</i> (Dragon Fruit) Foliage. Applied Mechanics and Materials, 0, 625, 864-869.	0.2	3
71	Performance Evaluation of Free-Space Fibre Optic Detection in a Lab-on-Chip for Microorganism. Journal of Sensors, 2019, 2019, 1-10.	0.6	3
72	OPTIMIZATION OF CHLOROPHYLL EXTRACTION FROM Gynura procumbens. Malaysian Journal of Analytical Sciences, 2016, 20, 1421-1428.	0.2	3

#	Article	IF	Citations
73	Initial study of new bio-based epoxy in carbon fiber reinforced composite panel manufactured by vacuum assisted resin transfer moulding. AIP Conference Proceedings, 2017, , .	0.3	2
74	Synthesis of Phenol Formaldehyde Resin with Paraformaldehyde and Formalin. IOP Conference Series: Materials Science and Engineering, 2020, 778, 012024.	0.3	2
75	Low-Temperature Synthesis of Carbon Nanotubes via Floating Catalyst Chemical Vapor Deposition Method. Fullerenes Nanotubes and Carbon Nanostructures, 2011, 19, 522-531.	1.0	1
76	Modeling of crude oil biodegradation using two phase partitioning bioreactor. Biotechnology Progress, 2014, 30, 797-805.	1.3	1
77	Optimization on the preparation of microfluidic channel using dry film resist. , 2015, , .		1
78	Challenges in the management of massive intraorbital and hemifacial arteriovenous malformation as causing life-threatening epistaxis. Asian Journal of Surgery, 2017, 40, 158-162.	0.2	1
79	Video as E- Learning Approach for Enhancing Laboratory Teaching in Biochemical Engineering- a Malaysia Case Study. , 2017, , .		1
80	Effects of wire diameter, yarns size and wire configuration to wire cloth electrode produced from textile technology for dielectrophoresis application. IOP Conference Series: Materials Science and Engineering, 2018, 458, 012035.	0.3	1
81	Optics experimental unit and analysis housing for maximum dielectrophoresis (DEP) and AC electrokinetics operations. , 2013, , .		0
82	Synthesis of 1,3-Dichloropropanol from Glycerol Using Muriatic Acid as Chlorinating Agent. Asian Journal of Chemistry, 2014, 26, 2907-2912.	0.1	0
83	Dinitrobenzene sensing utilizing chitosan-based thin films optical fluorescence sensors via linear and nonlinear excitation. , 2015, , .		0
84	Portable biosensor for chronic malaria detection. , 2016, , .		0
85	Synthesis and Applications of Organic-Based Fluorescent Carbon Dots: Technical Review. , 0, , .		0