

Dayang Radiah Awang Biak

List of Publications by Year
in descending order

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Version: 2024-02-01

72
papers

4,149
citations

218677
26
h-index

114465
63
g-index

76
all docs

76
docs citations

76
times ranked

5138
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of technologies for oil and gas produced water treatment. Journal of Hazardous Materials, 2009, 170, 530-551.	12.4	1,712
2	An application of the theory of planned behaviour to study the influencing factors of participation in source separation of food waste. Waste Management, 2013, 33, 1276-1281.	7.4	239
3	Fluidized bed catalytic chemical vapor deposition synthesis of carbon nanotubes—A review. Chemical Engineering Journal, 2009, 155, 37-48.	12.7	161
4	Waterborne polyurethane dispersions synthesized from jatropha oil. Industrial Crops and Products, 2015, 64, 194-200.	5.2	123
5	Evaluation of membrane bioreactor for hypersaline oily wastewater treatment. Chemical Engineering Research and Design, 2012, 90, 45-55.	5.6	114
6	Application of membrane-coupled sequencing batch reactor for oilfield produced water recycle and beneficial re-use. Bioresource Technology, 2010, 101, 6942-6949.	9.6	109
7	Membrane foulants characterization in a membrane bioreactor (MBR) treating hypersaline oily wastewater. Chemical Engineering Journal, 2011, 168, 140-150.	12.7	104
8	Assessment of probiotic potential and anticancer activity of newly isolated vaginal bacterium <i>Lactobacillus plantarum</i> 5BL. Microbiology and Immunology, 2014, 58, 492-502.	1.4	88
9	Stirring time effect of silver nanoparticles prepared in glutathione mediated by green method. Chemistry Central Journal, 2014, 8, 11.	2.6	82
10	Effect of physical pretreatment on dilute acid hydrolysis of water hyacinth (<i>Eichhornia crassipes</i>). Bioresource Technology, 2011, 102, 5193-5199.	9.6	80
11	Probiotic potential and biotherapeutic effects of newly isolated vaginal <i>Lactobacillus acidophilus</i> 36YL strain on cancer cells. Anaerobe, 2014, 28, 29-36.	2.1	68
12	Microwave-Assisted Pyrolysis of Biomass Waste: A Mini Review. Processes, 2020, 8, 1190.	2.8	66
13	Microencapsulation of probiotic bacteria <i>Lactobacillus plantarum</i> 15HN using alginate-psyllium-fenugreek polymeric blends. Journal of Applied Microbiology, 2015, 118, 1048-1057.	3.1	65
14	A newly isolated probiotic <i>Enterococcus faecalis</i> strain from vagina microbiota enhances apoptosis of human cancer cells. Journal of Applied Microbiology, 2014, 117, 498-508.	3.1	54
15	Different effects of two newly-isolated probiotic <i>Lactobacillus plantarum</i> 15HN and <i>Lactococcus lactis</i> subsp. <i>Lactis</i> 44Lac strains from traditional dairy products on cancer cell lines. Anaerobe, 2014, 30, 51-59.	2.1	49
16	Anticancer impacts of potentially probiotic acetic acid bacteria isolated from traditional dairy microbiota. LWT - Food Science and Technology, 2015, 60, 690-697.	5.2	47
17	Screening of Suitable Ionic Liquids as Green Solvents for Extraction of Eicosapentaenoic Acid (EPA) from Microalgae Biomass Using COSMO-RS Model. Molecules, 2019, 24, 713.	3.8	47
18	Bioactivity characterization of <i>Lactobacillus</i> strains isolated from dairy products. MicrobiologyOpen, 2015, 4, 803-813.	3.0	41

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19	Probiotics or antibiotics: future challenges in medicine. Journal of Medical Microbiology, 2015, 64, 137-146.	1.8	41
20	Activity of Calcium Methoxide Catalyst for Synthesis of High Oleic Palm Oil Based Trimethylolpropane Triesters as Lubricant Base Stock. Industrial & Engineering Chemistry Research, 2012, 51, 5438-5442.	3.7	40
21	Effect of addition of inulin and fenugreek on the survival of microencapsulated Enterococcus durans 39C in alginate-psyllium polymeric blends in simulated digestive system and yogurt. Asian Journal of Pharmaceutical Sciences, 2015, 10, 350-361.	9.1	35
22	Physicochemical Properties of Jatropha Oil-Based Polyol Produced by a Two Steps Method. Molecules, 2017, 22, 551.	3.8	35
23	Anti-proliferative effects of Enterococcus strains isolated from fermented dairy products on different cancer cell lines. Journal of Functional Foods, 2014, 11, 363-374.	3.4	34
24	Application of Bacterial Cellulose (BC) in Natural Facial Scrub. International Journal on Advanced Science, Engineering and Information Technology, 2012, 2, 272.	0.4	33
25	Probiotic assessment of Enterococcus durans 6HL and Lactococcus lactis 2HL isolated from vaginal microflora. Journal of Medical Microbiology, 2014, 63, 1044-1051.	1.8	32
26	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.	3.5	32
27	Microwave-Assisted Brine Extraction for Enhancement of the Quantity and Quality of Lipid Production from Microalgae Nannochloropsis sp.. Molecules, 2019, 24, 3581.	3.8	30
28	Microwave-assisted Dilute Acid Pretreatment and Enzymatic Hydrolysis of Sago Palm Bark. BioResources, 2016, 11, .	1.0	28
29	Development of a hybrid PSO-ANN model for estimating glucose and xylose yields for microwave-assisted pretreatment and the enzymatic hydrolysis of lignocellulosic biomass. Neural Computing and Applications, 2018, 30, 1111-1121.	5.6	27
30	Potentially probiotic acetic acid bacteria isolation and identification from traditional dairies microbiota. International Journal of Food Science and Technology, 2015, 50, 1056-1064.	2.7	26
31	Colloidal stability and rheology of jatropha oil-based waterborne polyurethane (JPU) dispersion. Progress in Organic Coatings, 2018, 125, 348-357.	3.9	26
32	Optimisation of Epoxide Ring-Opening Reaction for the Synthesis of Bio-Polyol from Palm Oil Derivative Using Response Surface Methodology. Molecules, 2021, 26, 648.	3.8	25
33	Palm Oil Derived Trimethylolpropane Triesters Synthetic Lubricants and Usage in Industrial Metalworking Fluid. Journal of Oleo Science, 2015, 64, 143-151.	1.4	24
34	Microwave-Assisted Pretreatment of Sago Palm Bark. Journal of Wood Chemistry and Technology, 2017, 37, 26-42.	1.7	22
35	Influence of catalytic particle size on the performance of fluidized-bed chemical vapor deposition synthesis of carbon nanotubes. Chemical Engineering Research and Design, 2011, 89, 214-223.	5.6	21
36	Comparative Study of Aromatic and Cycloaliphatic Isocyanate Effects on Physico-Chemical Properties of Bio-Based Polyurethane Acrylate Coatings. Polymers, 2020, 12, 1494.	4.5	21

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37	Purification of histidine-tagged nucleocapsid protein of Nipah virus using immobilized metal affinity chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 1561-1567.	2.3	20
38	Microwave-assisted extraction of lipid from fish waste. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 206, 012096.	0.6	20
39	Kinetics Study of Microwave-Assisted Brine Extraction of Lipid from the Microalgae <i>Nannochloropsis</i> sp.. <i>Molecules</i> , 2020, 25, 784.	3.8	20
40	Chemical and Thermo-Mechanical Properties of Waterborne Polyurethane Dispersion Derived from <i>Jatropha</i> Oil. <i>Polymers</i> , 2021, 13, 795.	4.5	20
41	Alternative for Rapid Detection and Screening of Pork, Chicken, and Beef Using Dielectric Properties in the Frequency of 0.5 to 50 GHz. <i>International Journal of Food Properties</i> , 2016, 19, 1127-1138.	3.0	19
42	Modelling of Molasses Fermentation for Bioethanol Production: A Comparative Investigation of Monod and Andrews Models Accuracy Assessment. <i>Biomolecules</i> , 2019, 9, 308.	4.0	19
43	Rice bran lipase catalyzed esterification of palm oil fatty acid distillate and glycerol in organic solvent. <i>Biotechnology and Bioprocess Engineering</i> , 2007, 12, 250-256.	2.6	17
44	COSMO-RS Based Prediction for Alpha-Linolenic Acid (ALA) Extraction from Microalgae Biomass Using Room Temperature Ionic Liquids (RTILs). <i>Marine Drugs</i> , 2020, 18, 108.	4.6	17
45	Ionic liquid-based microwave-assisted extraction of lipid and eicosapentaenoic acid from <i>Nannochloropsis oceanica</i> biomass: experimental optimization approach. <i>Journal of Applied Phycology</i> , 2021, 33, 2015-2029.	2.8	17
46	Towards Higher Oil Yield and Quality of Essential Oil Extracted from <i>Aquilaria malaccensis</i> Wood via the Subcritical Technique. <i>Molecules</i> , 2020, 25, 3872.	3.8	16
47	DIELECTRIC CHARACTERIZATION OF LIQUID CONTAINING LOW ALCOHOLIC CONTENT FOR POTENTIAL HALAL AUTHENTICATION IN THE 0.5-50 GHz RANGE. <i>American Journal of Applied Sciences</i> , 2014, 11, 1104-1112.	0.2	15
48	Influence of Date Syrup as a Carbon Source on Bacterial Cellulose Production by <i>Acetobacter xylinum</i> 0416. <i>Advances in Polymer Technology</i> , 2018, 37, 1085-1091.	1.7	15
49	Prediction of Potential Ionic Liquids (ILs) for the Solid-Liquid Extraction of Docosahexaenoic Acid (DHA) from Microalgae Using COSMO-RS Screening Model. <i>Biomolecules</i> , 2020, 10, 1149.	4.0	13
50	Computational Fluid Dynamics Simulation of Gas-Solid Hydrodynamics in a Bubbling Fluidized-Bed Reactor: Effects of Air Distributor, Viscous and Drag Models. <i>Processes</i> , 2019, 7, 524.	2.8	12
51	Comparison of sodium hydroxide and sodium bicarbonate pretreatment methods for characteristic and enzymatic hydrolysis of sago palm bark. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-11.	2.3	12
52	Experimental Evaluation of Napier Grass Gasification in an Autothermal Bubbling Fluidized Bed Reactor. <i>Energies</i> , 2019, 12, 1517.	3.1	11
53	Preparation of Carbon Nanotubes via Chemical Technique (Modified Staudenmaier Method). <i>Nanoscience and Nanotechnology - Asia</i> , 2017, 7, 113-122.	0.7	11
54	Direct recovery of recombinant nucleocapsid protein of Nipah virus from unclarified <i>Escherichia coli</i> homogenate using hydrophobic interaction expanded bed adsorption chromatography. <i>Journal of Chromatography A</i> , 2010, 1217, 1293-1297.	3.7	10

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55	The effect of acetylation on the crystallinity of BC/CNTs nanocomposite. Journal of Chemical Technology and Biotechnology, 2012, 87, 431-435.	3.2	7
56	Modulation of protease activity to enhance the recovery of recombinant nucleocapsid protein of Nipah virus. Process Biochemistry, 2010, 45, 133-137.	3.7	6
57	Evaluation of the Interactive Effect Pretreatment Parameters via Three Types of Microwave-Assisted Pretreatment and Enzymatic Hydrolysis on Sugar Yield. Processes, 2020, 8, 787.	2.8	6
58	Innovative Method to Produce High-Purity Graphitic Carbon Nanospheres. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 109-118.	2.1	5
59	Sustainable Development in Chemical and Biological Engineering Education. Procedia, Social and Behavioral Sciences, 2013, 102, 490-498.	0.5	5
60	Oil Palm as Bioenergy Feedstock. , 2012, , 653-692.		4
61	Rheological Study of Phenol Formaldehyde Resole Resin Synthesized for Laminate Application. Materials, 2020, 13, 2578.	2.9	4
62	Optimization and modeling of the performance of polydimethylsiloxane for pervaporation of ethanolâwater mixture. Journal of Applied Polymer Science, 2021, 138, 50408.	2.6	4
63	Structural and Rheological Properties of Nonedible Vegetable Oil-Based Resin. Polymers, 2021, 13, 2490.	4.5	4
64	Production of hepatitis B core antigen in a stirred tank bioreactor: The influence of temperature and agitation. Biotechnology and Bioprocess Engineering, 2006, 11, 164-167.	2.6	3
65	Ionic liquid method for the extraction of lipid from microalgae biomass: a review. Biomass Conversion and Biorefinery, 2023, 13, 11417-11439.	4.6	2
66	Field efficacy of palm oil-based nanoemulsion insecticides against Aedes aegypti in Malaysia. Acta Tropica, 2021, 224, 106107.	2.0	2
67	A review on supervised machine learning for accident risk analysis: Challenges in Malaysia. Process Safety Progress, 0, , .	1.0	2
68	Kinetic and thermodynamic studies of eicosapentaenoic acid extraction from Nannochloropsis oceanica using tetramethyl ammonium chloride and microwave irradiation. PLoS ONE, 2022, 17, e0267626.	2.5	2
69	Assessment on Rheological and Texture Properties of XylitolâSubstituted Dadih. Journal of Food Process Engineering, 2014, 37, 451-460.	2.9	1
70	Fluidized Bed Chemical Vapor Deposition Synthesis of Carbon Nanotubes Using Different FeâCo/Alumina Catalytic Powders. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 266-282.	2.1	0
71	DAPI staining of Hela cancer cells without treating by L. plantarum 5BL supernatant. Microbiology and Immunology, 2014, 58, i.	1.4	0
72	Integrating Facilitative Teaching in Design Based Course. , 2017, , .		0