

Zainul Akmar Zakaria

List of Publications by Year in descending order

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71
papers

2,011
citations

304743

22
h-index

243625

44
g-index

78
all docs

78
docs citations

78
times ranked

2548
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacterial pigments and their applications. <i>Process Biochemistry</i> , 2013, 48, 1065-1079.	3.7	305
2	Reactivity of phenolic compounds towards free radicals under in vitro conditions. <i>Journal of Food Science and Technology</i> , 2015, 52, 5790-5798.	2.8	207
3	Preparation and characterization of activated carbon from pineapple waste biomass for dye removal. <i>International Biodeterioration and Biodegradation</i> , 2015, 102, 274-280.	3.9	195
4	Hexavalent chromium reduction by <i>Acinetobacter haemolyticus</i> isolated from heavy-metal contaminated wastewater. <i>Journal of Hazardous Materials</i> , 2007, 146, 30-38.	12.4	154
5	Pyrolygneous acid—the smoky acidic liquid from plant biomass. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 611-622.	3.6	91
6	Chromium(VI) resistance and removal by <i>Acinetobacter haemolyticus</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2009, 25, 1085-1093.	3.6	76
7	Production and Characterization of Violacein by Locally Isolated <i>Chromobacterium violaceum</i> Grown in Agricultural Wastes. <i>Applied Biochemistry and Biotechnology</i> , 2012, 167, 1220-1234.	2.9	66
8	Current perspective on bacterial pigments: emerging sustainable compounds with coloring and biological properties for the industry — an incisive evaluation. <i>RSC Advances</i> , 2014, 4, 39523.	3.6	63
9	Chromium(VI) removal from aqueous solution by untreated rubber wood sawdust. <i>Desalination</i> , 2009, 244, 109-121.	8.2	60
10	Preparation, characterization, and dye removal study of activated carbon prepared from palm kernel shell. <i>Environmental Science and Pollution Research</i> , 2018, 25, 5076-5085.	5.3	60
11	Biological detoxification of Cr(VI) using wood-husk immobilized <i>Acinetobacter haemolyticus</i> . <i>Journal of Hazardous Materials</i> , 2007, 148, 164-171.	12.4	50
12	Microwave-assisted production of optimized pyrolysis liquid oil from oil palm fiber. <i>Journal of Cleaner Production</i> , 2018, 182, 404-413.	9.3	48
13	Antioxidant property and chemical profile of pyrolygneous acid from pineapple plant waste biomass. <i>Process Biochemistry</i> , 2015, 50, 1985-1992.	3.7	47
14	Degradation of oil and grease from high-strength industrial effluents using locally isolated aerobic biosurfactant-producing bacteria. <i>International Biodeterioration and Biodegradation</i> , 2014, 95, 33-40.	3.9	43
15	Isolation and characterization of flexirubin type pigment from <i>Chryseobacterium</i> sp. UTM-3T. <i>Biocatalysis and Agricultural Biotechnology</i> , 2014, 3, 103-107.	3.1	42
16	Pilot-scale removal of chromium from industrial wastewater using the ChromeBac [®] system. <i>Bioresource Technology</i> , 2010, 101, 4371-4378.	9.6	37
17	<i>Chryseobacterium artocarpi</i> sp. nov., isolated from the rhizosphere soil of <i>Artocarpus integer</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, 64, 3153-3159.	1.7	35
18	Brown sugar as a low-cost medium for the production of prodigiosin by locally isolated <i>Serratia marcescens</i> UTM1. <i>International Biodeterioration and Biodegradation</i> , 2014, 95, 19-24.	3.9	34

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19	Isotherm kinetics of Cr(III) removal by non-viable cells of <i>Acinetobacter haemolyticus</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 94, 362-368.	5.0	32
20	Cr(VI) reduction in naturally rich growth medium and sugarcane bagasse by <i>Acinetobacter haemolyticus</i> . <i>International Biodeterioration and Biodegradation</i> , 2013, 85, 571-576.	3.9	32
21	Application of Bacterial Pigments as Colorant. <i>Springer Briefs in Molecular Science</i> , 2012, , 57-74.	0.1	27
22	Optimization of culture conditions for flexirubin production by <i>Chryseobacterium artocarpi</i> CECT 8497 using response surface methodology. <i>Acta Biochimica Polonica</i> , 2015, 62, 185-190.	0.5	24
23	Application of Bacterial Pigments as Colorant. <i>Springer Briefs in Molecular Science</i> , 2012, , .	0.1	21
24	Spray drying of violet pigment from <i>Chromobacterium violaceum</i> UTM 5 and its application in food model systems. <i>International Biodeterioration and Biodegradation</i> , 2015, 102, 324-329.	3.9	20
25	A Review of Bacterial Antibiotic Resistance Genes and Their Removal Strategies from Wastewater. <i>Current Pollution Reports</i> , 2021, 7, 494-509.	6.6	20
26	The potential hazards of <i>Aspergillus</i> sp. in foods and feeds, and the role of biological treatment: A review. <i>Journal of Microbiology</i> , 2014, 52, 807-818.	2.8	18
27	Activated carbon and biochar from pineapple waste biomass for the removal of methylene blue. <i>Environmental and Toxicology Management</i> , 2021, 1, 30-36.	0.7	16
28	Chromate detoxification using combination of ChromeBac [®] system and immobilized chromate reductase beads. <i>International Biodeterioration and Biodegradation</i> , 2016, 113, 238-243.	3.9	14
29	Sugarcane bagasse as nutrient and support material for Cr(VI)-reducing biofilm. <i>International Biodeterioration and Biodegradation</i> , 2015, 102, 3-10.	3.9	12
30	Antimicrobial Properties of Optimized Microwave-assisted Pyrolytic Acid from Oil Palm Fiber. <i>Journal of Applied Pharmaceutical Science</i> , 2018, 8, 65-71.	1.0	12
31	Antioxidants, Toxicity, and Nitric Oxide Inhibition Properties of Pyrolytic Acid from Palm Kernel Shell Biomass. <i>Waste and Biomass Valorization</i> , 2020, 11, 6307-6319.	3.4	11
32	Evaluation of the Combined Cr(VI) Removal Capacity of Sawdust and Sawdust-Immobilized <i>Acinetobacter haemolyticus</i> Supplied with Brown Sugar. <i>Water, Air, and Soil Pollution</i> , 2009, 204, 195-203.	2.4	10
33	Cr(VI) Removal Using the Combination of the Cr(VI)-Resistant and Cr(VI)-Reducing Biofilm and the Alum-Polyacrylamide. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	10
34	Organic and Inorganic Matter Removal Using High Polymeric Al13 Containing Polyaluminium Chloride. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	9
35	Bacterial Reduction of Cr(VI): Operational Challenges and Feasibility. <i>Current Pollution Reports</i> , 2021, 7, 115-127.	6.6	9
36	Coffee residue-based activated carbons for phenol removal. <i>Water Practice and Technology</i> , 0, , .	2.0	9

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37	Characterization and antiinflammatory properties of fractionated pyroligneous acid from palm kernel shell. <i>Environmental Science and Pollution Research</i> , 2021, 28, 40535-40543.	5.3	8
38	Equilibrium and kinetics of phenol adsorption by crab shell chitosan. <i>Particulate Science and Technology</i> , 2021, 39, 415-426.	2.1	8
39	Isolation of Pigment-Producing Bacteria and Characterization of the Extracted Pigments. <i>Springer Briefs in Molecular Science</i> , 2012, , 25-44.	0.1	7
40	Bacterial Reduction of Cr(VI) at Technical Scale—The Malaysian Experience. <i>Applied Biochemistry and Biotechnology</i> , 2012, 167, 1641-1652.	2.9	7
41	Coffee pulp as a source for polyphenols extraction using ultrasound, microwave, and green solvents. <i>Environmental Quality Management</i> , 2022, 32, 451-461.	1.9	7
42	Hexavalent Chromium Reduction at Different Growth Phases of <i>Acinetobacter haemolyticus</i> . <i>Environmental Engineering Science</i> , 2009, 26, 1275-1278.	1.6	6
43	Utilisation of Rubber Wood Shavings for the Removal of Cu(II) and Ni(II) from Aqueous Solution. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 1649-1659.	2.4	6
44	RECYCLING OF OIL PALM EMPTY FRUIT BUNCH AS POTENTIAL CARRIER FOR BIOFERTILIZER FORMULATION. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016, 78, .	0.4	5
45	METHYLENE BLUE REMOVAL USING COCONUT SHELL BIOCHAR SYNTHESIZED THROUGH MICROWAVE-ASSISTED PYROLYSIS. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2020, 82, .	0.4	5
46	The chemical properties of seaweed for modify concrete. <i>IOP Conference Series: Earth and Environmental Science</i> , 0, 220, 012026.	0.3	4
47	Environmental Awareness in Batik Making Process. <i>Sustainability</i> , 2022, 14, 6094.	3.2	4
48	Biosorption and bioreduction of Cr(VI) by locally isolated Cr-resistant bacteria. <i>Water Science and Technology</i> , 2007, 56, 117-123.	2.5	3
49	EFFICACY OF PYROLIGNEOUS ACID FROM PINEAPPLE WASTE BIOMASS AS WOOD PRESERVING AGENT. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2017, 79, .	0.4	3
50	Pyrolytic Products from Oil Palm Biomass and Its Potential Applications. <i>Applied Environmental Science and Engineering for A Sustainable Future</i> , 2020, , 225-236.	0.5	3
51	Special issue on the Challenges in Environmental Science and Engineering, CESE-2013: 29 Oct.–2 Nov., EXCO, Daegu, South Korea. <i>Bioresource Technology</i> , 2014, 165, 1-2.	9.6	2
52	Oil Palm Biomass and Its Kinetic Transformation Properties. <i>Energy, Environment, and Sustainability</i> , 2018, , 73-87.	1.0	2
53	Editorial: New Trends in Food Processing: Reducing Food Loss, Waste, and the Environmental Impact. <i>Frontiers in Sustainable Food Systems</i> , 2022, 6, .	3.9	2
54	A KINETIC STUDY OF ENZYMATIC HYDROLYSIS OF OIL PALM BIOMASS FOR FERMENTABLE SUGAR USING POLYETHYLENE GLYCOL (PEG) IMMOBILIZED CELLULASE. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016, 78, .	0.4	1

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55	Pyrolysis Products from Residues of Palm Oil Industry. , 2018, , 7-24.		1
56	Microalgae Microbial Fuel Cell (MMFC) using <i>Chlorella vulgaris</i> and "Batik" Wastewater as Bioelectricity. E3S Web of Conferences, 2021, 226, 00032.	0.5	1
57	Optimisation of microwave-assisted production of acid condensate from palm kernel shell and its biological activities. Biomass Conversion and Biorefinery, 0, , 1.	4.6	1
58	Microwave-assisted production of biochar from oil palm mesocarp fiber and its dye removal properties. Environmental Quality Management, 0, , .	1.9	1
59	Oil palm and banana root colonization potential of locally isolated nitrogen-fixing and phosphate-solubilizing bacteria. E3S Web of Conferences, 2020, 202, 01006.	0.5	1
60	Structural-based analysis of antibacterial activities of acid condensate from palm kernel shell. Biomass Conversion and Biorefinery, 0, , 1.	4.6	1
61	Optimization of Pigment Production: Case of <i>Chromobacterium violaceum</i> and <i>Serratia marcescens</i> . Springer Briefs in Molecular Science, 2012, , 45-56.	0.1	0
62	Special issue on Challenges in Environmental Science and Engineering (CESE-2014) 12-16 October 2014, Johor Bahru, Malaysia. Desalination and Water Treatment, 2016, 57, 7605-7606.	1.0	0
63	Characterization of pyroligneous acid produced from microwave-assisted treatment of palm kernel shell. Journal of Physics: Conference Series, 2020, 1444, 012005.	0.4	0
64	Vinasse-Based Slow-Release Organo-Mineral Fertilizer with Chitosan-Bentonite Matrix. Jurnal Bahan Alam Terbarukan, 2021, 10, 01-08.	0.2	0
65	Kajian Sekat Gerak Bakteria Berpenyokong dalam Pengambilan Semula Logam Cu dan Zn. Jurnal Teknologi (Sciences and Engineering), 0, , .	0.4	0
66	Detoxification of Hexavalent Chromium from Industrial Wastewater using a Bacterial Biofilm System. , 2016, , 161-182.		0
67	PHYSICOCHEMICAL CHARACTERISTICS OF RECYCLED TYRE TREAD COMPOUNDS. Malaysian Journal of Analytical Sciences, 2018, 22, .	0.1	0
68	Phenolic compound derived from microwave-assisted pyrolysis of coconut shell: Isolation and antibacterial activity testing. E3S Web of Conferences, 2020, 202, 10007.	0.5	0
69	Microbial Biotransformation and Biomineralization of Organic-Rich Waste. Current Pollution Reports, 0, , 1.	6.6	0
70	Sustainable approaches for biohydrogen and biogas production from corn wastes. , 2022, , 207-214.		0
71	Less Hazardous Chemical Synthesis from Palm Oil Biomass. , 2020, , 46-59.		0