Fahrul Huyop

List of Publications by Year
in descending order

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Version: 2024-02-01

99 papers	2,373 citations	430874 18 h-index	233421 45 g-index
99 all docs	99 docs citations	99 times ranked	2932 citing authors

#	Article	IF	Citations
1	An overview of technologies for immobilization of enzymes and surface analysis techniques for immobilized enzymes. Biotechnology and Biotechnological Equipment, 2015, 29, 205-220.	1.3	1,005
2	Halophiles: biology, adaptation, and their role in decontamination of hypersaline environments. World Journal of Microbiology and Biotechnology, 2016, 32, 135.	3.6	115
3	Raw oil palm frond leaves as cost-effective substrate for cellulase and xylanase productions by Trichoderma asperellum UC1 under solid-state fermentation. Journal of Environmental Management, 2019, 243, 206-217.	7.8	60
4	Simple adsorption of Candida rugosa lipase onto multi-walled carbon nanotubes for sustainable production of the flavor ester geranyl propionate. Journal of Industrial and Engineering Chemistry, 2015, 32, 99-108.	5.8	55
5	A facile enzymatic synthesis of geranyl propionate by physically adsorbed Candida rugosa lipase onto multi-walled carbon nanotubes. Enzyme and Microbial Technology, 2015, 72, 49-55.	3.2	51
6	Evaluation of Trichoderma isolates as potential biological control agent against soybean charcoal rot disease caused by Macrophomina phaseolina. Biotechnology and Biotechnological Equipment, 2016, 30, 479-488.	1.3	49
7	Statistical modelling of eugenol benzoate synthesis using Rhizomucor miehei lipase reinforced nanobioconjugates. Process Biochemistry, 2016, 51, 249-262.	3.7	37
8	Antibacterial activity of PLAL synthesized nanocinnamon. Materials and Design, 2017, 132, 486-495.	7.0	34
9	Degradation of 3-chloropropionic acid (3CP) byPseudomonas sp. B6P isolated from a rice paddy field. Annals of Microbiology, 2009, 59, 447-451.	2.6	33
10	Enzymatic breakdown of lignocellulosic biomass: the role of glycosyl hydrolases and lytic polysaccharide monooxygenases. Biotechnology and Biotechnological Equipment, 0, , 1-16.	1.3	32
11	Candida rugosa Lipase Immobilized onto Acid-Functionalized Multi-walled Carbon Nanotubes for Sustainable Production of Methyl Oleate. Applied Biochemistry and Biotechnology, 2015, 177, 967-984.	2.9	31
12	Sustainable production of the emulsifier methyl oleate by Candida rugosa lipase nanoconjugates. Food and Bioproducts Processing, 2015, 96, 211-220.	3.6	30
13	Identification of Lactobacillus spp. and Fructobacillus spp. isolated from fresh Heterotrigona itama honey and their antagonistic activities against clinical pathogenic bacteria. Journal of Apicultural Research, 2018, 57, 395-405.	1.5	29
14	In silico characterization of a novel dehalogenase (DehHX) from the halophile Pseudomonas halophila HX isolated from Tuz GÃ¶lÃ¼ Lake, Turkey: insights into a hypersaline-adapted dehalogenase. Annals of Microbiology, 2017, 67, 371-382.	2.6	28
15	Response surface methodological approach for optimizing production of geranyl propionate catalysed by carbon nanotubes nanobioconjugates. Biotechnology and Biotechnological Equipment, 2015, 29, 732-739.	1.3	27
16	Functional profiling of bacterial communities in Lake Tuz using 16S rRNA gene sequences. Biotechnology and Biotechnological Equipment, 2021, 35, 1-10.	1.3	26
17	Molecular docking and molecular dynamics simulation of Bacillus thuringiensis dehalogenase against haloacids, haloacetates and chlorpyrifos. Journal of Biomolecular Structure and Dynamics, 2022, 40, 1979-1994.	3.5	25
18	Synthesis of geranyl propionate in a solvent-free medium using Rhizomucor miehei lipase covalently immobilized on chitosanâ€“graphene oxide beads. Preparative Biochemistry and Biotechnology, 2017, 47, 199-210.	1.9	23

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19	Dehalogenase-producing halophiles and their potential role in bioremediation. Marine Pollution Bulletin, 2020, 160, 111603.	5.0	22
20	Modelling and optimization ofCandida rugosananobioconjugates catalysed synthesis of methyl oleate by response surface methodology. Biotechnology and Biotechnological Equipment, 2015, 29, 1113-1127.	1.3	21
21	Alternative Bioremediation Agents against Haloacids, Haloacetates and Chlorpyrifos Using Novel Halogen-Degrading Bacterial Isolates from the Hypersaline Lake Tuz. Catalysts, 2020, 10, 651.	3.5	20
22	Molecular Modelling and Functional Studies of the Non-Stereospecific Î±-Haloalkanoic Acid Dehalogenase (DehE) fromRhizobiumSP. RC1 and its Association with 3-Chloropropionic Acid (Î²-Chlorinated Aliphatic Acid). Biotechnology and Biotechnological Equipment, 2013, 27, 3725-3736.	1.3	19
23	In silico and empirical approaches toward understanding the structural adaptation of the alkaline-stable lipase KV1 from Acinetobacter haemolyticus. Journal of Biomolecular Structure and Dynamics, 2018, 36, 3077-3093.	3.5	19
24	Fungal-Assisted Valorization of Raw Oil Palm Leaves for Production of Cellulase and Xylanase in Solid State Fermentation Media. Waste and Biomass Valorization, 2020, 11, 3133-3149.	3.4	19
25	Molecular docking and molecular dynamics simulations of a mutant Acinetobacter haemolyticus alkaline-stable lipase against tributyrin. Journal of Biomolecular Structure and Dynamics, 2021, 39, 2079-2091.	3.5	19
26	l-2-Haloacid dehalogenase (DehL) from Rhizobium sp. RC1. SpringerPlus, 2016, 5, 695.	1.2	17
27	Biodegradation of Low Concentration of Monochloroacetic Acid-Degrading Bacillus sp. TW1 Isolated from Terengganu Water Treatment and Distribution Plant. Journal of Applied Sciences, 2010, 10, 2940-2944.	0.3	17
28	Characterisation of Arthrobacter sp. S1 that can degrade Î± and Î²-haloalkanoic acids isolated from contaminated soil. Annals of Microbiology, 2013, 63, 1363-1369.	2.6	16
29	Degradation of D,L-2-chloropropionic Acid by Bacterial Dehalogenases that Shows Stereospecificity and its Partial Enzymatic Characteristics. Biotechnology, 2009, 8, 264-269.	0.1	16
30	Isolation and Characterization of a Novel Bacterium from the Marine Environment for Trichloroacetic Acid Bioremediation. Applied Sciences (Switzerland), 2020, 10, 4593.	2.5	15
31	Investigation of Factors in Optimizing Agrobacterium-Mediated Gene Transfer in Citrullus lanatus cv. Round Dragon. Journal of Biological Sciences, 2010, 10, 209-216.	0.3	15
32	Identification of QTLs for Morph-Physiological Traits Related to Salinity Tolerance at Seedling Stage in Indica Rice. Procedia Environmental Sciences, 2011, 8, 389-395.	1.4	14
33	Enzymatic Dehalogenation of 2,2-Dichloropropionic Acid by Locally Isolated Methylobacterium sp. HJ1. Journal of Biological Sciences, 2007, 8, 233-235.	0.3	14
34	Multi-template homology-based structural model of L-2-haloacid dehalogenase (DehL) from Rhizobium sp. RC1. Journal of Biomolecular Structure and Dynamics, 2017, 35, 3285-3296.	3.5	13
35	Haloacid dehalogenases of Rhizobium sp. and related enzymes: Catalytic properties and mechanistic analysis. Process Biochemistry, 2020, 92, 437-446.	3.7	13
36	Customised structural, optical and antibacterial characteristics of cinnamon nanoclusters produced inside organic solvent using 532Ânm Q-switched Nd:YAG-pulse laser ablation. Optics and Laser Technology, 2020, 130, 106331.	4.6	13

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37	Biodegradation of Monochloroacetic Acid by a Presumptive Pseudomonas sp. Strain R1 Bacterium Isolated from Malaysian Paddy (Rice) Field. Biotechnology, 2008, 7, 481-486.	0.1	13
38	D-Specific Dehalogenases, a Review. Biotechnology and Biotechnological Equipment, 2012, 26, 2817-2822.	1.3	12
39	In silico mutation on a mutant lipase from Acinetobacter haemolyticus towards enhancing alkaline stability. Journal of Biomolecular Structure and Dynamics, 2020, 38, 4493-4507.	3.5	12
40	Whole genome strategies and bioremediation insight into dehalogenase-producing bacteria. Molecular Biology Reports, 2021, 48, 2687-2701.	2.3	12
41	A review on non-stereospecific haloalkanoic acid dehalogenases. African Journal of Biotechnology, 2011, 10, 9725-9736.	0.6	11
42	Identification of functional residues essential for dehalogenation by the nonâ€stereospecific Î±â€haloalkanoic acid dehalogenase from Rhizobium sp. RC1. Journal of Basic Microbiology, 2015, 55, 324-330.	3.3	11
43	Biodegradation of 3-chloropropionic acid (3-CP) by Bacillus cereus WH2 and its in silico enzyme-substrate docking analysis. Journal of Biomolecular Structure and Dynamics, 2020, 38, 3432-3441.	3.5	11
44	Haloadaptation: insights from comparative modeling studies between halotolerant and non-halotolerant dehalogenases. Journal of Biomolecular Structure and Dynamics, 2020, 38, 3452-3461.	3.5	11
45	Morphological alterations in gram-positive and gram-negative bacteria exposed to minimal inhibitory and bactericidal concentration of raw Malaysian stingless bee honey. Biotechnology and Biotechnological Equipment, 2020, 34, 575-586.	1.3	11
46	A statistical approach for optimizing the protocol for overexpressing lipase KV1 in Escherichia coli: purification and characterization. Biotechnology and Biotechnological Equipment, 2018, 32, 69-87.	1.3	11
47	An S188V Mutation Alters Substrate Specificity of Non-Stereospecific Î±-Haloalkanoic Acid Dehalogenase E (DehE). PLoS ONE, 2015, 10, e0121687.	2.5	11
48	Cloning and DNA Sequence Analysis of the Haloalkanoic Permease Uptake Gene from Rhizobium sp. RC1. Biotechnology, 2010, 9, 319-325.	0.1	11
49	Molecular Prediction of Dehalogenase Producing Microorganism using 16S rDNA Analysis of 2,2-dichloropropionate (Dalapon) Degrading Bacterium Isolated from Volcanic Soil. Journal of Biological Sciences, 2010, 10, 190-199.	0.3	11
50	Regulation of Dehalogenase E (Dehe) and Expression of Dehalogenase Regulator Gene (Dehr) fromRhizobiumSp. RC1 inE. Coli. Biotechnology and Biotechnological Equipment, 2011, 25, 2237-2242.	1.3	10
51	Structure Prediction, Molecular Dynamics Simulation and Docking Studies of D-Specific Dehalogenase from Rhizobium sp. RC1. International Journal of Molecular Sciences, 2012, 13, 15724-15754.	4.1	10
52	Insights into the stereospecificity of the<scp>d</scp>-specific dehalogenase fromRhizobiumsp. RC1 toward<scp>d</scp>- and<scp>l</scp>-2-chloropropionate. Biotechnology and Biotechnological Equipment, 2014, 28, 608-615.	1.3	10
53	Comparative diversity and heavy metal biosorption of myxomycetes from forest patches on ultramafic and volcanic soils. Chemistry and Ecology, 2015, 31, 741-753.	1.6	10
54	Deciphering the catalytic amino acid residues of l -2-haloacid dehalogenase (DehL) from Rhizobium sp. RC1: An in silico analysis. Computational Biology and Chemistry, 2017, 70, 125-132.	2.3	10

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55	The mechanistic role of active site residues in non-stereo haloacid dehalogenase E (DehE). Journal of Molecular Graphics and Modelling, 2019, 90, 219-225.	2.4	10
56	In silico assessment of dehalogenase from Bacillus thuringiensis H2 in relation to its salinity-stability and pollutants degradation. Journal of Biomolecular Structure and Dynamics, 2022, 40, 9332-9346.	3.5	10
57	Characterization of an Î±-haloalkanoic acidâ€“degradingPseudomonas aeruginosaMX1 isolated from contaminated seawater. Bioremediation Journal, 2016, 20, 89-97.	2.0	9
58	Degradation of 3-Chloropropionic Acid by Escherichia coli JM109 Expressing Dehalogenase (deh) Gene used as Selection Marker. Biotechnology, 2009, 8, 385-388.	0.1	9
59	Efficacy and cost study of green fungicide formulated from crude beta-glucosidase. International Journal of Environmental Science and Technology, 2019, 16, 4503-4518.	3.5	8
60	A Further Characterization of 3-Chloropropionic Acid Dehalogenase from Rhodococcus sp. HJ1. Research Journal of Microbiology, 2008, 3, 482-488.	0.2	8
61	Screening and Characterization of Several 2,2-Dicholoropropionic Acidâ€“Degrading Bacteria Isolated from Marine Sediment of Danga Bay and East Coast of Singapore Island. Bioremediation Journal, 2014, 18, 20-27.	2.0	7
62	Optimization of cultivation conditions in banana wastes for production of extracellular Î²-glucosidase byTrichoderma harzianumRifai efficient forin vitroinhibition ofMacrophomina phaseolina. Biotechnology and Biotechnological Equipment, 2017, 31, 921-934.	1.3	7
63	Biophysical characterization of a recombinant lipase KV1 from Acinetobacter haemolyticus in relation to pH and temperature. Biochimie, 2018, 152, 198-210.	2.6	7
64	Solidâ€state valorization of raw oil palm leaves by novel fungi Trichoderma asperellum<scp>UC1</scp> and Rhizopus oryzae<scp>UC2</scp> for sustainable production of cellulase and xylanase. Journal of Chemical Technology and Biotechnology, 2022, 97, 520-533.	3.2	7
65	Callus Induction and Shoot Organogenesis in Two Sugar Beet (Beta vulgaris L.) Breeding Lines in vitro Cultured. Biotechnology, 2013, 12, 168-178.	0.1	7
66	An Easy Method for Agrobacterium tumefaciens-Mediated Gene Transfer to Nicotiana tabacum cv. TAPM26. Journal of Biological Sciences, 2010, 10, 480-489.	0.3	7
67	Molecular identification and characterization of Dalapon-2,2-dichloropropionate (2,2DCP)-degrading bacteria from a Rubber Estate Agricultural area. African Journal of Microbiology Research, 2012, 6, 1520-1526.	0.4	6
68	Agrobacterium tumefaciens-infection Strategies for Greater Transgenic Recovery in Nicotiana tabacum cv. TAPM26. International Journal of Agricultural Research, 2011, 6, 119-133.	0.1	6
69	Theoretical analyses on enantiospecificity of L-2-haloacid dehalogenase (DehL) from Rhizobium sp. RC1 towards 2-chloropropionic acid. Journal of Molecular Graphics and Modelling, 2019, 92, 131-139.	2.4	5
70	Genomic analysis of a functional haloacid-degrading gene of Bacillus megaterium strain BHS1 isolated from Blue Lake (Mavi GÃ¶lÃ¼, Turkey). Annals of Microbiology, 2021, 71, .	2.6	5
71	Further Analysis of <i>Burkholderia pseudomallei</i> MF2 and Identification of Putative Dehalogenase Gene by PCR. Indonesian Journal of Chemistry, 2020, 20, 386.	0.8	5
72	Molecular Identification and Characterization of a Bacterium that has Potential to Degrade Low Concentration of Haloalkanoic Acid. Research Journal of Microbiology, 2011, 6, 552-559.	0.2	5

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73	Genomic characterization of a dehalogenase-producing bacterium (Bacillus megaterium H2) isolated from hypersaline Lake Tuz (Turkey). Gene Reports, 2021, 25, 101381.	0.8	5
74	In silicoanalysis of a putative dehalogenase from the genome of halophilic bacteriumHalomonas smyrnensisAAD6T. Journal of Biomolecular Structure and Dynamics, 2023, 41, 319-335.	3.5	5
75	Lactic acid bacteria and their bacteriocins: new potential weapons in the fight against methicillin-resistant Staphylococcus aureus. Future Microbiology, 2022, 17, 683-699.	2.0	5
76	Molecular Characterization of Monochloroacetate-DegradingArthrobactersp. Strain D2 Isolated from Universiti Teknologi Malaysia Agricultural Area. Bioremediation Journal, 2014, 18, 12-19.	2.0	4
77	Homology modelling andin silicosubstrate-binding analysis of aRhizobiumsp. RC1 haloalkanoic acid permease. Biotechnology and Biotechnological Equipment, 2018, 32, 339-349.	1.3	4
78	Physicochemical Properties of a New Green Honey from Banggi Island, Sabah. Molecules, 2022, 27, 4164.	3.8	4
79	A Potential Use of Dehalogenase D (DehD) from Rhizobium sp. for Industrial Process. Jurnal Teknologi (Sciences and Engineering), 0, , .	0.4	3
80	Degradation of Millimolar Concentration of the Herbicide Dalapon (2,2-Dichloropropionic Acid) byRhizobiumSp. Isolated from Soil. Biotechnology and Biotechnological Equipment, 2012, 26, 3106-3112.	1.3	3
81	Interactions of non-natural halogenated substrates with D-specific dehalogenase (DehD) mutants usingin silicostudies. Biotechnology and Biotechnological Equipment, 2014, 28, 949-957.	1.3	3
82	The diversity of superior Indonesian durians based on molecular markers. AIP Conference Proceedings, 2019, , .	0.4	3
83	A single epitope of Epstein-Barr Virus stimulate IgG production in mice. Annals of Medicine and Surgery, 2018, 35, 55-58.	1.1	2
84	Morphological-based diversity analysis of durian from Kundur Island, Indonesia. AIP Conference Proceedings, 2019, , .	0.4	2
85	Assessments on the catalytic and kinetic properties of beta-glucosidase isolated from a highly efficient antagonistic fungus Trichoderma harzianum. Bioscience Journal, 0, , 830-847.	0.4	2
86	Isolation of bacteria from Tuz GÃ¶lÃ¼ lake that can grow on high salt concentration. International Journal of Life Sciences and Biotechnology, 2019, 2, 158-164.	0.7	2
87	Characteristics of dehalogenase from bacteria isolated from the Gut of Pond-reared Rohu (<i>Labeo rohita</i>) Juveniles in Myanmar. Advances in Bioscience and Biotechnology (Print), 2012, 03, 353-361.	0.7	2
88	ISOLATION AND CHARACTERISATION OF THE DEGRADATION POTENTIAL OF 2,2-DICHLOROPROPIONATE (2,2-DCP) BY BACILLUS AMYLOLIQUEFACIENS FROM GEBENG. International Journal of Life Sciences and Biotechnology, 2022, 5, 200-212.	0.7	2
89	ISOLATION AND IDENTIFICATION OF 3-CHLOROPROPIONIC ACID DEGRADING BACTERIUM FROM MARINE SPONGE. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.4	1
90	A Potential Use Of Dehalogenase D (DEHD) From Rhizobium sp. For Industrial Process. Jurnal Teknologi (Sciences and Engineering), 0, , .	0.4	1

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91	Molecular interactions of trichoderma Î²-1,4-glucosidase (ThBglT12) with mycelial cell wall components of phytopathogenic Macrophomina phaseolina. Journal of Biomolecular Structure and Dynamics, 2022, , 1-17.	3.5	1
92	Exploring the genome of Lactobacillaceae spp. Sy-1 isolated from Heterotrigona itama honey. PeerJ, 2022, 10, e13053.	2.0	1
93	RAPD and Protein Analyses Revealed Polymorphism in Mutated Potato Cultivars. Jurnal Teknologi (Sciences and Engineering), 2013, 64, .	0.4	0
94	IDENTIFICATION OF NOVEL BACTERIAL SPECIES CAPABLE OF DEGRADING DALAPON USING 16S RRNA SEQUENCING. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
95	Effect of storage on viability of lactic acid bacteria and nutritional stability of raw Malaysian Heterotrigona itama honey. Journal of Physics: Conference Series, 2020, 1567, 032039.	0.4	0
96	ANTIOXIDANT ACTIVITY, TOTAL PHENOLIC AND CHLOROPHYLL CONTENT OF KENINGAU GROWN CUCUMIS SATIVUS L. AT TWO GROWTH STAGES. Jurnal Teknologi (Sciences and Engineering), 2021, 83, 37-44.	0.4	0
97	Post-Covid-19 Pandemic Awareness on The Use of Micro- and Nano Plastic and Efforts into Their Degradation - A Mini Review. Journal of Tropical Life Science, 2021, 11, 225-232.	0.3	0
98	Pengoptimuman Penyelesaian Masalah Penjadualan Waktu Kuliah dengan Teknik Algoritma Genetik. Jurnal Teknologi (Sciences and Engineering), 0, , .	0.4	0
99	Synthetic bxn Gene Utilization in the Resistance of Crops to the Herbicide Bromoxynil â€“ A Review. Jurnal Teknologi (Sciences and Engineering), 2013, 59, .	0.4	0