

# Fahrul Huyop

## List of Publications by Year in descending order

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99  
papers

2,373  
citations

489802

18  
h-index

263392

45  
g-index

99  
all docs

99  
docs citations

99  
times ranked

3253  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In silico</i> analysis of a putative dehalogenase from the genome of halophilic bacterium <i>Halomonas smyrnensis</i> AAD6T. <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 319-335.	2.0	5
2	Molecular docking and molecular dynamics simulation of <i>Bacillus thuringiensis</i> dehalogenase against haloacids, haloacetates and chlorpyrifos. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 1979-1994.	2.0	25
3	Solid state valorization of raw oil palm leaves by novel fungi <i>Trichoderma asperellum</i> UC1 and <i>Rhizopus oryzae</i> UC2 for sustainable production of cellulase and xylanase. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 520-533.	1.6	7
4	<i>In silico</i> assessment of dehalogenase from <i>Bacillus thuringiensis</i> H2 in relation to its salinity-stability and pollutants degradation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 9332-9346.	2.0	10
5	Molecular interactions of trichoderma $\beta$ -1,4-glucosidase (ThBglT12) with mycelial cell wall components of phytopathogenic <i>Macrophomina phaseolina</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, , 1-17.	2.0	1
6	Exploring the genome of <i>Lactobacillaceae</i> spp. Sy-1 isolated from <i>Heterotrigna itama</i> honey. <i>PeerJ</i> , 2022, 10, e13053.	0.9	1
7	Lactic acid bacteria and their bacteriocins: new potential weapons in the fight against methicillin-resistant <i>Staphylococcus aureus</i> . <i>Future Microbiology</i> , 2022, 17, 683-699.	1.0	5
8	ISOLATION AND CHARACTERISATION OF THE DEGRADATION POTENTIAL OF 2,2-DICHLOROPROPIONATE (2,2-DCP) BY <i>BACILLUS AMYLOLIQUEFACIENS</i> FROM GEBENG. <i>International Journal of Life Sciences and Biotechnology</i> , 2022, 5, 200-212.	0.2	2
9	Physicochemical Properties of a New Green Honey from Banggi Island, Sabah. <i>Molecules</i> , 2022, 27, 4164.	1.7	4
10	Molecular docking and molecular dynamics simulations of a mutant <i>Acinetobacter haemolyticus</i> alkaline-stable lipase against tributyrin. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 2079-2091.	2.0	19
11	Functional profiling of bacterial communities in Lake Tuz using 16S rRNA gene sequences. <i>Biotechnology and Biotechnological Equipment</i> , 2021, 35, 1-10.	0.5	26
12	Genomic analysis of a functional haloacid-degrading gene of <i>Bacillus megaterium</i> strain BHS1 isolated from Blue Lake (Mavi Gölü, Turkey). <i>Annals of Microbiology</i> , 2021, 71, .	1.1	5
13	Whole genome strategies and bioremediation insight into dehalogenase-producing bacteria. <i>Molecular Biology Reports</i> , 2021, 48, 2687-2701.	1.0	12
14	ANTIOXIDANT ACTIVITY, TOTAL PHENOLIC AND CHLOROPHYLL CONTENT OF KENINGAU GROWN CUCUMIS SATIVUS L. AT TWO GROWTH STAGES. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2021, 83, 37-44.	0.3	0
15	Post-Covid-19 Pandemic Awareness on The Use of Micro- and Nano Plastic and Efforts into Their Degradation - A Mini Review. <i>Journal of Tropical Life Science</i> , 2021, 11, 225-232.	0.1	0
16	Genomic characterization of a dehalogenase-producing bacterium ( <i>Bacillus megaterium</i> H2) isolated from hypersaline Lake Tuz (Turkey). <i>Gene Reports</i> , 2021, 25, 101381.	0.4	5
17	Fungal-Assisted Valorization of Raw Oil Palm Leaves for Production of Cellulase and Xylanase in Solid State Fermentation Media. <i>Waste and Biomass Valorization</i> , 2020, 11, 3133-3149.	1.8	19
18	<i>In silico</i> mutation on a mutant lipase from <i>Acinetobacter haemolyticus</i> towards enhancing alkaline stability. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 4493-4507.	2.0	12

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19	Biodegradation of 3-chloropropionic acid (3-CP) by <i>Bacillus cereus</i> WH2 and its in silico enzyme-substrate docking analysis. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 3432-3441.	2.0	11
20	Haloadaptation: insights from comparative modeling studies between halotolerant and non-halotolerant dehalogenases. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 3452-3461.	2.0	11
21	Dehalogenase-producing halophiles and their potential role in bioremediation. <i>Marine Pollution Bulletin</i> , 2020, 160, 111603.	2.3	22
22	Morphological alterations in gram-positive and gram-negative bacteria exposed to minimal inhibitory and bactericidal concentration of raw Malaysian stingless bee honey. <i>Biotechnology and Biotechnological Equipment</i> , 2020, 34, 575-586.	0.5	11
23	Effect of storage on viability of lactic acid bacteria and nutritional stability of raw Malaysian <i>Heterotrigena itama</i> honey. <i>Journal of Physics: Conference Series</i> , 2020, 1567, 032039.	0.3	0
24	Isolation and Characterization of a Novel Bacterium from the Marine Environment for Trichloroacetic Acid Bioremediation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4593.	1.3	15
25	Alternative Bioremediation Agents against Haloacids, Haloacetates and Chlorpyrifos Using Novel Halogen-Degrading Bacterial Isolates from the Hypersaline Lake Tuz. <i>Catalysts</i> , 2020, 10, 651.	1.6	20
26	Haloacid dehalogenases of <i>Rhizobium</i> sp. and related enzymes: Catalytic properties and mechanistic analysis. <i>Process Biochemistry</i> , 2020, 92, 437-446.	1.8	13
27	Customised structural, optical and antibacterial characteristics of cinnamon nanoclusters produced inside organic solvent using 532Ånm Q-switched Nd:YAG-pulse laser ablation. <i>Optics and Laser Technology</i> , 2020, 130, 106331.	2.2	13
28	Further Analysis of <i>Burkholderia pseudomallei</i> MF2 and Identification of Putative Dehalogenase Gene by PCR. <i>Indonesian Journal of Chemistry</i> , 2020, 20, 386.	0.3	5
29	Theoretical analyses on enantiospecificity of L-2-haloacid dehalogenase (DehL) from <i>Rhizobium</i> sp. RC1 towards 2-chloropropionic acid. <i>Journal of Molecular Graphics and Modelling</i> , 2019, 92, 131-139.	1.3	5
30	The diversity of superior Indonesian durians based on molecular markers. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	3
31	Morphological-based diversity analysis of durian from Kundur Island, Indonesia. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	2
32	The mechanistic role of active site residues in non-stereo haloacid dehalogenase E (DehE). <i>Journal of Molecular Graphics and Modelling</i> , 2019, 90, 219-225.	1.3	10
33	Raw oil palm frond leaves as cost-effective substrate for cellulase and xylanase productions by <i>Trichoderma asperellum</i> UC1 under solid-state fermentation. <i>Journal of Environmental Management</i> , 2019, 243, 206-217.	3.8	60
34	Efficacy and cost study of green fungicide formulated from crude beta-glucosidase. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 4503-4518.	1.8	8
35	Isolation of bacteria from Tuz Gölü lake that can grow on high salt concentration. <i>International Journal of Life Sciences and Biotechnology</i> , 2019, 2, 158-164.	0.2	2
36	Identification of <i>Lactobacillus</i> spp. and <i>Fructobacillus</i> spp. isolated from fresh <i>Heterotrigena itama</i> honey and their antagonistic activities against clinical pathogenic bacteria. <i>Journal of Apicultural Research</i> , 2018, 57, 395-405.	0.7	29

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37	Homology modelling and <i>in silico</i> substrate-binding analysis of a <i>Rhizobium</i> sp. RC1 haloalkanoic acid permease. <i>Biotechnology and Biotechnological Equipment</i> , 2018, 32, 339-349.	0.5	4
38	<i>In silico</i> and empirical approaches toward understanding the structural adaptation of the alkaline-stable lipase KV1 from <i>Acinetobacter haemolyticus</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 3077-3093.	2.0	19
39	A single epitope of Epstein-Barr Virus stimulate IgG production in mice. <i>Annals of Medicine and Surgery</i> , 2018, 35, 55-58.	0.5	2
40	Biophysical characterization of a recombinant lipase KV1 from <i>Acinetobacter haemolyticus</i> in relation to pH and temperature. <i>Biochimie</i> , 2018, 152, 198-210.	1.3	7
41	A statistical approach for optimizing the protocol for overexpressing lipase KV1 in <i>Escherichia coli</i> : purification and characterization. <i>Biotechnology and Biotechnological Equipment</i> , 2018, 32, 69-87.	0.5	11
42	Synthesis of geranyl propionate in a solvent-free medium using <i>Rhizomucor miehei</i> lipase covalently immobilized on chitosan-graphene oxide beads. <i>Preparative Biochemistry and Biotechnology</i> , 2017, 47, 199-210.	1.0	23
43	<i>In silico</i> characterization of a novel dehalogenase (DehHX) from the halophile <i>Pseudomonas halophila</i> HX isolated from Tuz Gölü Lake, Turkey: insights into a hypersaline-adapted dehalogenase. <i>Annals of Microbiology</i> , 2017, 67, 371-382.	1.1	28
44	Antibacterial activity of PLAL synthesized nanocinnamon. <i>Materials and Design</i> , 2017, 132, 486-495.	3.3	34
45	Deciphering the catalytic amino acid residues of L-2-haloacid dehalogenase (DehL) from <i>Rhizobium</i> sp. RC1: An <i>in silico</i> analysis. <i>Computational Biology and Chemistry</i> , 2017, 70, 125-132.	1.1	10
46	Optimization of cultivation conditions in banana wastes for production of extracellular $\beta$ -glucosidase by <i>Trichoderma harzianum</i> Rifai efficient for <i>in vitro</i> inhibition of <i>Macrophomina phaseolina</i> . <i>Biotechnology and Biotechnological Equipment</i> , 2017, 31, 921-934.	0.5	7
47	Multi-template homology-based structural model of L-2-haloacid dehalogenase (DehL) from <i>Rhizobium</i> sp. RC1. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 3285-3296.	2.0	13
48	IDENTIFICATION OF NOVEL BACTERIAL SPECIES CAPABLE OF DEGRADING DALAPON USING 16S RRNA SEQUENCING. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016, 78, .	0.3	0
49	L-2-Haloacid dehalogenase (DehL) from <i>Rhizobium</i> sp. RC1. <i>SpringerPlus</i> , 2016, 5, 695.	1.2	17
50	Characterization of an $\alpha$ -haloalkanoic acid-degrading <i>Pseudomonas aeruginosa</i> MX1 isolated from contaminated seawater. <i>Bioremediation Journal</i> , 2016, 20, 89-97.	1.0	9
51	Halophiles: biology, adaptation, and their role in decontamination of hypersaline environments. <i>World Journal of Microbiology and Biotechnology</i> , 2016, 32, 135.	1.7	115
52	Evaluation of <i>Trichoderma</i> isolates as potential biological control agent against soybean charcoal rot disease caused by <i>Macrophomina phaseolina</i> . <i>Biotechnology and Biotechnological Equipment</i> , 2016, 30, 479-488.	0.5	49
53	Statistical modelling of eugenol benzoate synthesis using <i>Rhizomucor miehei</i> lipase reinforced nanobioconjugates. <i>Process Biochemistry</i> , 2016, 51, 249-262.	1.8	37
54	ISOLATION AND IDENTIFICATION OF 3-CHLOROPROPIONIC ACID DEGRADING BACTERIUM FROM MARINE SPONGE. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015, 77, .	0.3	1

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55	Response surface methodological approach for optimizing production of geranyl propionate catalysed by carbon nanotubes nanobioconjugates. <i>Biotechnology and Biotechnological Equipment</i> , 2015, 29, 732-739.	0.5	27
56	Identification of functional residues essential for dehalogenation by the non- $\alpha$ -stereospecific $\alpha$ -haloalkanoic acid dehalogenase from <i>Rhizobium</i> sp. RC1. <i>Journal of Basic Microbiology</i> , 2015, 55, 324-330.	1.8	11
57	An overview of technologies for immobilization of enzymes and surface analysis techniques for immobilized enzymes. <i>Biotechnology and Biotechnological Equipment</i> , 2015, 29, 205-220.	0.5	1,005
58	A facile enzymatic synthesis of geranyl propionate by physically adsorbed <i>Candida rugosa</i> lipase onto multi-walled carbon nanotubes. <i>Enzyme and Microbial Technology</i> , 2015, 72, 49-55.	1.6	51
59	Simple adsorption of <i>Candida rugosa</i> lipase onto multi-walled carbon nanotubes for sustainable production of the flavor ester geranyl propionate. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 32, 99-108.	2.9	55
60	Modelling and optimization of <i>Candida rugosa</i> nanobioconjugates catalysed synthesis of methyl oleate by response surface methodology. <i>Biotechnology and Biotechnological Equipment</i> , 2015, 29, 1113-1127.	0.5	21
61	Sustainable production of the emulsifier methyl oleate by <i>Candida rugosa</i> lipase nanoconjugates. <i>Food and Bioproducts Processing</i> , 2015, 96, 211-220.	1.8	30
62	<i>Candida rugosa</i> Lipase Immobilized onto Acid-Functionalized Multi-walled Carbon Nanotubes for Sustainable Production of Methyl Oleate. <i>Applied Biochemistry and Biotechnology</i> , 2015, 177, 967-984.	1.4	31
63	Comparative diversity and heavy metal biosorption of myxomycetes from forest patches on ultramafic and volcanic soils. <i>Chemistry and Ecology</i> , 2015, 31, 741-753.	0.6	10
64	An S188V Mutation Alters Substrate Specificity of Non-Stereospecific $\alpha$ -Haloalkanoic Acid Dehalogenase E (DehE). <i>PLoS ONE</i> , 2015, 10, e0121687.	1.1	11
65	Screening and Characterization of Several 2,2-Dichloropropionic Acid-Degrading Bacteria Isolated from Marine Sediment of Danga Bay and East Coast of Singapore Island. <i>Bioremediation Journal</i> , 2014, 18, 20-27.	1.0	7
66	Molecular Characterization of Monochloroacetate-Degrading <i>Arthrobacter</i> sp. Strain D2 Isolated from Universiti Teknologi Malaysia Agricultural Area. <i>Bioremediation Journal</i> , 2014, 18, 12-19.	1.0	4
67	Interactions of non-natural halogenated substrates with D-specific dehalogenase (DehD) mutants using in silico studies. <i>Biotechnology and Biotechnological Equipment</i> , 2014, 28, 949-957.	0.5	3
68	Insights into the stereospecificity of the $d$ -specific dehalogenase from <i>Rhizobium</i> sp. RC1 toward $d$ - and $l$ -2-chloropropionate. <i>Biotechnology and Biotechnological Equipment</i> , 2014, 28, 608-615.	0.5	10
69	Characterisation of <i>Arthrobacter</i> sp. S1 that can degrade $\alpha$ and $\beta$ -haloalkanoic acids isolated from contaminated soil. <i>Annals of Microbiology</i> , 2013, 63, 1363-1369.	1.1	16
70	Molecular Modelling and Functional Studies of the Non-Stereospecific $\alpha$ -Haloalkanoic Acid Dehalogenase (DehE) from <i>Rhizobium</i> SP. RC1 and its Association with 3-Chloropropionic Acid ( $\beta$ -Chlorinated Aliphatic Acid). <i>Biotechnology and Biotechnological Equipment</i> , 2013, 27, 3725-3736.	0.5	19
71	RAPD and Protein Analyses Revealed Polymorphism in Mutated Potato Cultivars. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2013, 64, .	0.3	0
72	Callus Induction and Shoot Organogenesis in Two Sugar Beet ( <i>Beta vulgaris</i> L.) Breeding Lines in vitro Cultured. <i>Biotechnology</i> , 2013, 12, 168-178.	0.5	7

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73	Synthetic bxn Gene Utilization in the Resistance of Crops to the Herbicide Bromoxynil â€“ A Review. Jurnal Teknologi (Sciences and Engineering), 2013, 59, .	0.3	0
74	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.	1.8	10
75	D-Specific Dehalogenases, a Review. Biotechnology and Biotechnological Equipment, 2012, 26, 2817-2822.	0.5	12
76	Degradation of Millimolar Concentration of the Herbicide Dalapon (2,2-Dichloropropionic Acid) by Rhizobium Sp. Isolated from Soil. Biotechnology and Biotechnological Equipment, 2012, 26, 3106-3112.	0.5	3
77	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
78	Characteristics of dehalogenase from bacteria isolated from the Gut of Pond-reared Rohu (&lt;i>Labeo rohita&lt;/i>) Juveniles in Myanmar. Advances in Bioscience and Biotechnology (Print), 2012, 03, 353-361.	0.3	2
79	Identification of QTLs for Morph-Physiological Traits Related to Salinity Tolerance at Seedling Stage in Indica Rice. Procedia Environmental Sciences, 2011, 8, 389-395.	1.3	14
80	A review on non-stereospecific haloalkanoic acid dehalogenases. African Journal of Biotechnology, 2011, 10, 9725-9736.	0.3	11
81	Regulation of Dehalogenase E (Dehe) and Expression of Dehalogenase Regulator Gene (<i>Dehr</i>) from <i>Rhizobium</i> Sp. RC1 in <i>E. Coli</i>. Biotechnology and Biotechnological Equipment, 2011, 25, 2237-2242.	0.5	10
82	Agrobacterium tumefaciens-infection Strategies for Greater Transgenic Recovery in Nicotiana tabacum cv. TAPM26. International Journal of Agricultural Research, 2011, 6, 119-133.	0.0	6
83	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
84	Cloning and DNA Sequence Analysis of the Haloalkanoic Permease Uptake Gene from Rhizobium sp. RC1. Biotechnology, 2010, 9, 319-325.	0.5	11
85	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.	0.1	17
86	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.	0.1	11
87	Investigation of Factors in Optimizing Agrobacterium-Mediated Gene Transfer in Citrullus lanatus cv. Round Dragon. Journal of Biological Sciences, 2010, 10, 209-216.	0.1	15
88	An Easy Method for Agrobacterium tumefaciens-Mediated Gene Transfer to Nicotiana tabacum cv. TAPM26. Journal of Biological Sciences, 2010, 10, 480-489.	0.1	7
89	Degradation of 3-chloropropionic acid (3CP) by Pseudomonas sp. B6P isolated from a rice paddy field. Annals of Microbiology, 2009, 59, 447-451.	1.1	33
90	Degradation of D,L-2-chloropropionic Acid by Bacterial Dehalogenases that Shows Stereospecificity and its Partial Enzymatic Characteristics. Biotechnology, 2009, 8, 264-269.	0.5	16

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91	Degradation of 3-Chloropropionic Acid by Escherichia coli JM109 Expressing Dehalogenase (deh) Gene used as Selection Marker. <i>Biotechnology</i> , 2009, 8, 385-388.	0.5	9
92	Biodegradation of Monochloroacetic Acid by a Presumptive Pseudomonas sp. Strain R1 Bacterium Isolated from Malaysian Paddy (Rice) Field. <i>Biotechnology</i> , 2008, 7, 481-486.	0.5	13
93	A Further Characterization of 3-Chloropropionic Acid Dehalogenase from Rhodococcus sp. HJ1. <i>Research Journal of Microbiology</i> , 2008, 3, 482-488.	0.2	8
94	Enzymatic Dehalogenation of 2,2-Dichloropropionic Acid by Locally Isolated Methylobacterium sp. HJ1. <i>Journal of Biological Sciences</i> , 2007, 8, 233-235.	0.1	14
95	A Potential Use of Dehalogenase D (DehD) from Rhizobium sp. for Industrial Process. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 0, , .	0.3	3
96	Enzymatic breakdown of lignocellulosic biomass: the role of glycosyl hydrolases and lytic polysaccharide monoxygenases. <i>Biotechnology and Biotechnological Equipment</i> , 0, , 1-16.	0.5	32
97	Assessments on the catalytic and kinetic properties of beta-glucosidase isolated from a highly efficient antagonistic fungus <i>Trichoderma harzianum</i> . <i>Bioscience Journal</i> , 0, , 830-847.	0.4	2
98	A Potential Use Of Dehalogenase D (DEHD) From Rhizobium sp. For Industrial Process. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 0, , .	0.3	1
99	Pengoptimuman Penyelesaian Masalah Penjadualan Waktu Kuliah dengan Teknik Algoritma Genetik. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 0, , .	0.3	0