

Ali Osman Belduz

List of Publications by Year in descending order

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Anoxybacillus gonensis sp. nov., a moderately thermophilic, xylose-utilizing, endospore-forming bacterium. International Journal of Systematic and Evolutionary Microbiology, 2003, 53, 1315-1320.	0.8	108
2	Anoxybacillus ayderensis sp. nov. and Anoxybacillus kestanbolensis sp. nov.. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 1499-1503.	0.8	73
3	Mutagenesis of the cyclic AMP receptor protein of Escherichia coli: targeting positions 83, 127 and 128 the cyclic nucleotide binding pocket. Nucleic Acids Research, 1994, 22, 2894-2901.	6.5	55
4	Investigation of potential inhibitor properties of ethanolic propolis extracts against ACE-II receptors for COVID-19 treatment by molecular docking study. Archives of Microbiology, 2021, 203, 3557-3564.	1.0	55
5	Characterization of a thermoalkalophilic esterase from a novel thermophilic bacterium, G2. Bioresource Technology, 2005, 96, 625-631.	4.8	49
6	Eukaryotic Selenocysteine Incorporation Follows a Nonprocessive Mechanism That Competes with Translational Termination. Journal of Biological Chemistry, 2000, 275, 14846-14852.	1.6	47
7	Oxidative cleavage of DNA by homo- and heteronuclear Cu(II)-Mn(II) complexes of an oxime-type ligand. BioMetals, 2002, 15, 357-365.	1.8	44
8	Mutagenesis of the cyclic AMP receptor protein of Escherichia coli targeting positions 72 and 82 of the cyclic nucleotide binding pocket. Nucleic Acids Research, 1993, 21, 1827-1835.	6.5	35
9	Biosorption of Heavy Metals by <i>Anoxybacillus gonensis</i> Immobilized on Diaion HP-2MG. Separation Science and Technology, 2009, 44, 335-358.	1.3	35
10	Biochemical characterization of a novel glucose isomerase from Anoxybacillus gonensis G2T that displays a high level of activity and thermal stability. Journal of Molecular Catalysis B: Enzymatic, 2013, 97, 215-224.	1.8	34
11	Flavobacterium anatoliense sp. nov., isolated from fresh water, and emended description of Flavobacterium ceti. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 2075-2081.	0.8	34
12	Cloning, expression and characterization of highly thermo- and pH-stable maltogenic amylase from a thermophilic bacterium Geobacillus caldxylosilyticus TK4. Process Biochemistry, 2010, 45, 821-828.	1.8	33
13	Purification and characterization of a highly thermostable α -L-Arabinofuranosidase from Geobacillus caldxylosilyticus TK4. Applied Microbiology and Biotechnology, 2007, 75, 813-820.	1.7	32
14	Cloning, purification, and characterization of a thermostable α -L-arabinofuranosidase from Anoxybacillus kestanbolensis AC26Sari. Applied Microbiology and Biotechnology, 2008, 81, 61-68.	1.7	30
15	Determination and Characterization of Thermostable Esterolytic Activity from a Novel Thermophilic Bacterium Anoxybacillus gonensis A4. BMB Reports, 2007, 40, 588-594.	1.1	28
16	<i>Anoxybacillus kaynarcensis</i> sp. nov., a moderately thermophilic, xylanase producing bacterium. Journal of Basic Microbiology, 2013, 53, 410-419.	1.8	27
17	Cloning, purification and characterization of a thermostable carboxylesterase from Anoxybacillus sp. PDF1. Protein Expression and Purification, 2011, 80, 74-79.	0.6	26
18	Use of Feruloyl Esterase as Laccase-Mediator System in Paper Bleaching. Applied Biochemistry and Biotechnology, 2020, 190, 721-731.	1.4	26

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19	<i>Brevibacillus aydinogluensis</i> sp. nov., a moderately thermophilic bacterium isolated from Karakoc hot spring. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2012, 62, 849-855.	0.8	25
20	Molecular phylogeny of the genus <i>Capoeta</i> (Teleostei: Cyprinidae) in Anatolia, Turkey. <i>Biochemical Systematics and Ecology</i> , 2017, 70, 80-94.	0.6	24
21	Characterization of a xylanase from a thermophilic strain of <i>Anoxybacillus pushchinoensis</i> A8. <i>Biologia (Poland)</i> , 2008, 63, 599-606.	0.8	22
22	Molecular phylogeny of Turkish <i>Trachurus</i> species (Perciformes: Carangidae) inferred from mitochondrial DNA analyses. <i>Journal of Fish Biology</i> , 2008, 73, 1228-1248.	0.7	22
23	Cloning, purification and characterization of an alkali-stable endoxylanase from thermophilic <i>Geobacillus</i> sp. 71. <i>World Journal of Microbiology and Biotechnology</i> , 2012, 28, 1981-1988.	1.7	22
24	Degradation of lignin by <i>Bacillus altitudinis</i> SL7 isolated from pulp and paper mill effluent. <i>Water Science and Technology</i> , 2022, 85, 420-432.	1.2	22
25	Cloning, Expression, Purification and Characterization of Fructose-1,6-bisphosphate Aldolase from <i>Anoxybacillus gonensis</i> G2. <i>Journal of Biochemistry</i> , 2007, 141, 817-825.	0.9	20
26	<i>Brevibacillus gelatini</i> sp. nov., isolated from a hot spring. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 712-718.	0.8	20
27	<i>Algoriphagus trabzonensis</i> sp. nov., isolated from freshwater, and emended description of <i>Algoriphagus alkaliphilus</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015, 65, 2234-2240.	0.8	19
28	Cloning, expression and biochemical characterization of lignin-degrading DyP-type peroxidase from <i>Bacillus</i> sp. Strain BL5. <i>Enzyme and Microbial Technology</i> , 2021, 151, 109917.	1.6	18
29	Targeting CoV-2 spike RBD and ACE-2 interaction with flavonoids of Anatolian propolis by in silico and in vitro studies in terms of possible COVID-19 therapeutics. <i>Turkish Journal of Biology</i> , 2021, 45, 530-548.	2.1	17
30	Diphenolases from <i>Anoxybacillus kestanbolensis</i> strains K1 and K4 T. <i>World Journal of Microbiology and Biotechnology</i> , 2005, 21, 501-507.	1.7	16
31	Gram (âˆ-) microorganisms DNA polymerase inhibition, antibacterial and chemical properties of fruit and leaf extracts of <i>Sorbus acuparia</i> and <i>Sorbus caucasica</i> var. <i>yaltirikii</i> . <i>Biomedical Chromatography</i> , 2017, 31, e3901.	0.8	16
32	<i>Streptomonospora tuzyakensis</i> sp. nov., a halophilic actinomycete isolated from saline soil. <i>Antonie Van Leeuwenhoek</i> , 2016, 109, 35-41.	0.7	15
33	Evaluation of arabinofuranosidase and xylanase activities of <i>Geobacillus</i> spp. isolated from some hot springs in Turkey. <i>Journal of Microbiology and Biotechnology</i> , 2007, 17, 1262-70.	0.9	15
34	A new DNA polymerase I from <i>Geobacillus caldxylosilyticus</i> TK4: cloning, characterization, and mutational analysis of two aromatic residues. <i>Applied Microbiology and Biotechnology</i> , 2009, 84, 105-117.	1.7	14
35	Genome sequence of <i>Anoxybacillus ayderensis</i> AB04T isolated from the Ayder hot spring in Turkey. <i>Standards in Genomic Sciences</i> , 2015, 10, 70.	1.5	14
36	The ATPase activity of the G2alt gene encoding an aluminium tolerance protein from <i>Anoxybacillus gonensis</i> G2. <i>Journal of Microbiology</i> , 2011, 49, 641-650.	1.3	13

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37	Phylogenetic relationships among <i>Artemisia</i> species based on nuclear ITS and chloroplast psbA-trnH DNA markers. <i>Biologia (Poland)</i> , 2014, 69, 834-839.	0.8	13
38	Deletion of the <i>hfsB</i> gene increases ethanol production in <i>Thermoanaerobacterium saccharolyticum</i> and several other thermophilic anaerobic bacteria. <i>Biotechnology for Biofuels</i> , 2017, 10, 282.	6.2	13
39	Cloning, expression, purification and characterisation of a thermostable chitinase from <i>Bacillus licheniformis</i> A1. <i>Annals of Microbiology</i> , 2008, 58, 245-251.	1.1	12
40	Use of <i>rpoB</i> sequences and rep-PCR for phylogenetic study of <i>Anoxybacillus</i> species. <i>Journal of Microbiology</i> , 2011, 49, 782-790.	1.3	12
41	Biochemical characterization of a novel thermostable feruloyl esterase from <i>Geobacillus thermoglucosidasius</i> DSM 2542T. <i>Molecular Biology Reports</i> , 2019, 46, 4385-4395.	1.0	12
42	Cloning, characterization and paper pulp applications of a newly isolated DyP type peroxidase from <i>Rhodococcus</i> sp. T1. <i>Molecular Biology Reports</i> , 2019, 46, 569-580.	1.0	12
43	Diversity and enzymatic potential of thermophilic bacteria associated with terrestrial hot springs in Algeria. <i>Brazilian Journal of Microbiology</i> , 2020, 51, 1987-2007.	0.8	12
44	Intraspecific variation of <i>Bufo bufo</i> , based on 16S Ribosomal RNA sequences. <i>Amphibia - Reptilia</i> , 2006, 27, 268-273.	0.1	11
45	C-Terminal proline-rich sequence broadens the optimal temperature and pH ranges of recombinant xylanase from <i>Geobacillus thermodenitrificans</i> C5. <i>Enzyme and Microbial Technology</i> , 2016, 91, 34-41.	1.6	11
46	Cloning, biochemical characterization and molecular docking of novel thermostable β -glucosidase BglA9 from <i>Anoxybacillus ayderensis</i> A9 and its application in de-glycosylation of Polydatin. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 1898-1909.	3.6	11
47	Investigation of potential inhibitor properties of violacein against HIV-1 RT and CoV-2 Spike RBD:ACE-2. <i>World Journal of Microbiology and Biotechnology</i> , 2022, 38, .	1.7	11
48	Characterization of a novel xylose isomerase from <i>Anoxybacillus gonensis</i> G2T. <i>Turkish Journal of Biology</i> , 2014, 38, 586-592.	2.1	10
49	Generation of acid mine drainage around the Karaerik copper mine (Espiye, Giresun, NE Turkey): implications from the bacterial population in the Ac \pm su effluent. <i>Extremophiles</i> , 2016, 20, 673-685.	0.9	10
50	DNA cleavage by homo- and heterotetranuclear Cu(II) and Mn(II) complexes with tetrathioether-tetrathiol moiety. <i>BioMetals</i> , 2000, 13, 261-265.	1.8	9
51	The phylogenetic position of Turkish populations within the European Bitterling, <i>Rhodeus amarus</i> (Osteichthyes: Cyprinidae). <i>Zoology in the Middle East</i> , 2013, 59, 39-50.	0.2	9
52	<i>Fontibacillus pullulanilyticus</i> sp.nov. isolated from soil. <i>Journal of Basic Microbiology</i> , 2016, 56, 857-863.	1.8	8
53	Sulfonamide inhibition studies of the β -carbonic anhydrase from the newly discovered bacterium <i>Enterobacter</i> sp. B13. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 1821-1826.	1.0	8
54	Cloning, expression and biochemical characterization of a β -carbonic anhydrase from the soil bacterium <i>Enterobacter</i> sp. B13. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 1111-1118.	2.5	8

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55	Improved pulp bleaching potential of <i>Bacillus subtilis</i> WB800 through overexpression of three lignolytic enzymes from various bacteria. <i>Biotechnology and Applied Biochemistry</i> , 2018, 65, 560-571.	1.4	8
56	DNA-Binding Properties of the <i>Bacillus subtilis</i> and <i>Aeribacillus pallidus</i> AC6 λ λ Proteins. <i>Journal of Bacteriology</i> , 2011, 193, 575-579.	1.0	7
57	Complete genome of the potential thermozyyme producer <i>Anoxybacillus gonensis</i> G2T isolated from the Gnen hot springs in Turkey. <i>Journal of Biotechnology</i> , 2015, 212, 65-66.	1.9	7
58	Cloning, expression, biochemical characterization, and molecular docking studies of a novel glucose tolerant β -glucosidase from <i>Saccharomonospora</i> sp. NB11. <i>Enzyme and Microbial Technology</i> , 2021, 148, 109799.	1.6	7
59	Cloning, purification and characterization of a cellulase-free xylanase from <i>Geobacillus thermodenitrificans</i> AK53. <i>Applied Biochemistry and Microbiology</i> , 2016, 52, 277-286.	0.3	6
60	Isolation and characterization of xylanolytic new strains of <i>Anoxybacillus</i> from some hot springs in Turkey. <i>Turkish Journal of Biology</i> , 0, , .	2.1	6
61	Genetic discrimination of two <i>Capoeta</i> species in northeastern Anatolia, using mitochondrial 16S rRNA gene. <i>Zoology in the Middle East</i> , 2011, 53, 61-70.	0.2	5
62	Cloning, expression, and characterization of a novel CTP synthase gene from <i>Anoxybacillus gonensis</i> G2. <i>Turkish Journal of Biology</i> , 2014, 38, 111-117.	2.1	5
63	Molecular and in silico cloning, identification, and preharvest period expression analysis of a putative cytochrome P450 monooxygenase gene from <i>Camellia sinensis</i> (L.) Kuntze (tea). <i>Turkish Journal of Biology</i> , 2018, 42, 1-11.	2.1	4
64	<i>Thermus anatoliensis</i> sp. nov., a thermophilic bacterium from geothermal waters of Buharkent, Turkey. <i>Journal of Basic Microbiology</i> , 2015, 55, 1367-1373.	1.8	3
65	Molecular diversity of thermophilic bacteria isolated from Pasinler hot spring (Erzurum, Turkey). <i>Turkish Journal of Biology</i> , 0, , .	2.1	3
66	Multivariate Discrimination among Three <i>Trachurus</i> Species from Turkey. <i>Journal of Animal and Veterinary Advances</i> , 2011, 10, 121-127.	0.1	3
67	Molecular analysis of the genus <i>Anoxybacillus</i> based on sequence similarity of the genes <i>recN</i> , <i>flaA</i> , and <i>ftsY</i> . <i>Folia Microbiologica</i> , 2012, 57, 61-69.	1.1	2
68	Cloning, purification, and characterization of a thermophilic ribulokinase from <i>Anoxybacillus kestanbolensis</i> AC26Sari. <i>Turkish Journal of Biology</i> , 2014, 38, 633-639.	2.1	2
69	Redesigning pH optimum of <i>Geobacillus</i> sp. TF16 endoxylanase through in silico designed DNA swapping strategy. <i>Biochimie</i> , 2017, 137, 174-189.	1.3	2
70	Purification and characterization of β -L-arabinofuranosidases from <i>Geobacillus stearothermophilus</i> strain 12. <i>Biologia (Poland)</i> , 2017, 72, 831-839.	0.8	2
71	HIV λ RT inhibition activity of <i>Satureja spicigera</i> (C.KOCH) BOISS. Aqueous extract and docking studies of phenolic compounds identified by RP λ HPLC λ DAD. <i>Journal of Food Biochemistry</i> , 2021, , e13921.	1.2	2
72	Cloning, purification and characterization of halotolerant xylanase from <i>Geobacillus thermodenitrificans</i> C5. <i>Journal of Microbiology, Biotechnology and Food Sciences</i> , 2016, 05, 523-529.	0.4	2

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73	The Effect of a CO ₂ -Saturated CaCl ₂ Solution on the Transformation Efficiency of <i>Escherichia coli</i> JM 1 09 with an M 13 Derivative. <i>Turkish Journal of Biology</i> , 1997, 21, 133-139.	2.1	2
74	Prebiotic potential of enzymatically prepared resistant starch in reshaping gut microbiota and their respond to body physiology. <i>PLoS ONE</i> , 2022, 17, e0267318.	1.1	2
75	Comparison of DIG-11-dUTP utilization by <i>Geobacillus caldxylosilyticus</i> TK4, <i>Mycobacterium tuberculosis</i> and <i>Escherichia coli</i> DNA polymerases. <i>World Journal of Microbiology and Biotechnology</i> , 2010, 26, 459-464.	1.7	1
76	Biochemical characterization of wild-type and mutant (Q9F and S21Y/V22D) iron oxidases isolated from <i>Acidithiobacillus ferrooxidans</i> M1. <i>Turkish Journal of Biology</i> , 2016, 40, 166-173.	2.1	1
77	Distinctive delignification with consecutive application of <i>Geobacillus</i> sp. 71 xylanase and <i>Rhodococcus jostii</i> rha1 lignin peroxidase. <i>Maderas: Ciencia Y Tecnología</i> , 2018, , 0-0.	0.7	1
78	A novel cryptic and theta type plasmid (pHIG22) from <i>Thermus scodotuctus</i> sp. K6. <i>Gene</i> , 2018, 679, 282-290.	1.0	1
79	Screening of Xylanase and Glucose Isomerase Producing Bacteria Isolated from Hot Springs in Turkey. <i>Sakarya University Journal of Science</i> , 2018, 22, 1804-1811.	0.3	1
80	Screening of thermophilic bacteria producing glucose isomerase from some hot springs in Turkey. <i>Current Opinion in Biotechnology</i> , 2011, 22, S89.	3.3	0
81	Isolation and characterization of extracellular protease producing <i>Geobacillus</i> sp. from various hot springs in Turkey. <i>Current Opinion in Biotechnology</i> , 2011, 22, S89.	3.3	0
82	Biosynthesis of silver nanoparticles using <i>Anoxybacillus gonensis</i> G2 and their antibacterial activity. <i>Journal of Biotechnology</i> , 2014, 185, S104.	1.9	0
83	Determination of paper bleaching potentials of some ligninolytic enzymes produced in operon form. <i>Journal of Biotechnology</i> , 2017, 256, S55.	1.9	0
84	Empowering enzyme characteristics through rational design. <i>Journal of Biotechnology</i> , 2017, 256, S24.	1.9	0
85	Comparative Replication of <i>Autographa californica</i> Nuclear Polyhedrosis Virus in Insect Cell Cultures. <i>Turkish Journal of Biology</i> , 1997, 21, 63-70.	2.1	0
86	Genome-based reclassification of <i>Anoxybacillus karvacharensis</i> Panosyan et al. as a later heterotypic synonym of <i>Anoxybacillus kestanbolensis</i> Dulger et al. 2004; <i>A. flavithermus</i> subsp. <i>yunnanensis</i> CCTCC AB2010187T Dai et al. 2011 as a later heterotypic synonym of <i>A. tengchongensis</i> DSM 23211T Zhang et al. 2011. <i>Archives of Microbiology</i> , 2022, 204, .	1.0	0