

Samir Bejar

List of Publications by Year in descending order

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99
papers

3,207
citations

136950

32
h-index

182427

51
g-index

100
all docs

100
docs citations

100
times ranked

2836
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochemical and molecular characterization of a detergent-stable serine alkaline protease from <i>Bacillus pumilus</i> CBS with high catalytic efficiency. <i>Biochimie</i> , 2008, 90, 1291-1305.	2.6	166
2	Application of a statistical design to the optimization of parameters and culture medium for α -amylase production by <i>Aspergillus oryzae</i> CBS 819.72 grown on gruel (wheat grinding by-product). <i>Bioresource Technology</i> , 2008, 99, 5602-5609.	9.6	155
3	Biocatalysts: application and engineering for industrial purposes. <i>Critical Reviews in Biotechnology</i> , 2016, 36, 246-258.	9.0	145
4	Purification and characterization of a thermostable keratinolytic serine alkaline proteinase from <i>Streptomyces</i> sp. strain AB1 with high stability in organic solvents. <i>Bioresource Technology</i> , 2010, 101, 8361-8369.	9.6	116
5	Biochemical and Molecular Characterization of a Serine Keratinase from <i>Brevibacillus brevis</i> US575 with Promising Keratin-Biodegradation and Hide-Dehairing Activities. <i>PLoS ONE</i> , 2013, 8, e76722.	2.5	115
6	Cloning, purification and biochemical characterization of metallic-ions independent and thermoactive l-arabinose isomerase from the <i>Bacillus stearothermophilus</i> US100 strain. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 191-199.	2.4	82
7	Biochemical and molecular characterization of a thermo- and detergent-stable alkaline serine keratinolytic protease from <i>Bacillus circulans</i> strain DZ100 for detergent formulations and feather-biodegradation process. <i>International Biodeterioration and Biodegradation</i> , 2013, 83, 129-138.	3.9	76
8	A novel keratinase from <i>Bacillus tequilensis</i> strain Q7 with promising potential for the leather bating process. <i>International Journal of Biological Macromolecules</i> , 2015, 79, 952-964.	7.5	73
9	Physical and enzymatic properties of a new manganese peroxidase from the white-rot fungus <i>Trametes pubescens</i> strain i8 for lignin biodegradation and textile-dyes biodecolorization. <i>International Journal of Biological Macromolecules</i> , 2019, 125, 514-525.	7.5	73
10	Enhancement of the thermostability and the catalytic efficiency of <i>Bacillus pumilus</i> CBS protease by site-directed mutagenesis. <i>Biochimie</i> , 2010, 92, 360-369.	2.6	69
11	Biochemical characterization of a detergent-stable serine alkaline protease from <i>Caldicoprobacter guelmensis</i> . <i>International Journal of Biological Macromolecules</i> , 2015, 81, 299-307.	7.5	69
12	Novel serine keratinase from <i>Caldicoprobacter algeriensis</i> exhibiting outstanding hide dehairing abilities. <i>International Journal of Biological Macromolecules</i> , 2016, 86, 321-328.	7.5	68
13	Production, purification and biochemical characterization of a novel detergent-stable serine alkaline protease from <i>Bacillus safensis</i> strain RH12. <i>International Journal of Biological Macromolecules</i> , 2019, 121, 1227-1239.	7.5	66
14	Purification and sequence analysis of the atypical maltohexaose-forming α -amylase of the <i>B. stearothermophilus</i> US100. <i>Enzyme and Microbial Technology</i> , 2001, 28, 537-542.	3.2	63
15	Thermostability enhancement and change in starch hydrolysis profile of the maltohexaose-forming amylase of <i>Bacillus stearothermophilus</i> US100 strain. <i>Biochemical Journal</i> , 2006, 394, 51-56.	3.7	61
16	Excellent laundry detergent compatibility and high dehairing ability of the <i>Bacillus pumilus</i> CBS alkaline proteinase (SAPB). <i>Biotechnology and Bioprocess Engineering</i> , 2009, 14, 503-512.	2.6	57
17	Characterization, high production and antimicrobial activity of exopolysaccharides from <i>Lactococcus lactis</i> F-mou. <i>Microbial Pathogenesis</i> , 2019, 132, 10-19.	2.9	57
18	Production, purification and characterization of two α -amylase isoforms from a newly isolated <i>Aspergillus Oryzae</i> strain S2. <i>Process Biochemistry</i> , 2012, 47, 18-25.	3.7	54

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19	Characterization of a novel protease from <i>Aeribacillus pallidus</i> strain VP3 with potential biotechnological interest. <i>International Journal of Biological Macromolecules</i> , 2017, 94, 221-232.	7.5	51
20	Purification and characterization of two novel peroxidases from the dye-decolorizing fungus <i>Bjerkandera adusta</i> strain CX-9. <i>International Journal of Biological Macromolecules</i> , 2018, 106, 636-646.	7.5	51
21	<i>Aspergillus oryzae</i> S2 alpha-amylase production under solid state fermentation: Optimization of culture conditions. <i>International Journal of Biological Macromolecules</i> , 2015, 75, 73-80.	7.5	49
22	The overexpression of the SAPB of <i>Bacillus pumilus</i> CBS and mutated sapB-L31I/T33S/N99Y alkaline proteases in <i>Bacillus subtilis</i> DB430: New attractive properties for the mutant enzyme. <i>Bioresource Technology</i> , 2012, 105, 142-151.	9.6	46
23	Effects of <i>Lactobacillus plantarum</i> immobilization in alginate coated with chitosan and gelatin on antibacterial activity. <i>International Journal of Biological Macromolecules</i> , 2014, 64, 84-89.	7.5	46
24	A novel detergent-stable solvent-tolerant serine thiol alkaline protease from <i>Streptomyces koyangensis</i> TN650. <i>International Journal of Biological Macromolecules</i> , 2015, 79, 871-882.	7.5	46
25	A β -cyclodextrin glycosyltransferase from a newly isolated <i>Paenibacillus pabuli</i> US132 strain: Purification, properties and potential use in bread-making. <i>Biochemical Engineering Journal</i> , 2007, 34, 44-50.	3.6	44
26	Rational design of <i>Bacillus stearothermophilus</i> US100 l-arabinose isomerase: Potential applications for d-tagatose production. <i>Biochimie</i> , 2009, 91, 650-653.	2.6	44
27	Production of d-tagatose, a low caloric sweetener during milk fermentation using l-arabinose isomerase. <i>Bioresource Technology</i> , 2011, 102, 3309-3315.	9.6	43
28	Co-expression of l-arabinose isomerase and d-glucose isomerase in <i>E. coli</i> and development of an efficient process producing simultaneously d-tagatose and d-fructose. <i>Enzyme and Microbial Technology</i> , 2007, 40, 1531-1537.	3.2	41
29	Heterologous expression, secretion and characterization of the <i>Geobacillus thermoleovorans</i> US105 type I pullulanase. <i>Applied Microbiology and Biotechnology</i> , 2008, 78, 473-481.	3.6	39
30	A thermophilic and thermostable xylanase from <i>Caldicoprobacter algeriensis</i> : Recombinant expression, characterization and application in paper biobleaching. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 808-817.	7.5	39
31	Optimized production and characterization of a detergent-stable protease from <i>Lysinibacillus fusiformis</i> C250R. <i>International Journal of Biological Macromolecules</i> , 2017, 101, 383-397.	7.5	37
32	A novel organic solvent- and detergent-stable serine alkaline protease from <i>Trametes cingulata</i> strain CTM10101. <i>International Journal of Biological Macromolecules</i> , 2016, 91, 961-972.	7.5	36
33	Identification of a novel protease from the thermophilic <i>Anoxybacillus kamchatkensis</i> M1V and its application as laundry detergent additive. <i>Extremophiles</i> , 2019, 23, 687-706.	2.3	36
34	Biochemical and molecular characterization of new keratinolytic protease from <i>Actinomadura viridilutea</i> DZ50. <i>International Journal of Biological Macromolecules</i> , 2016, 92, 299-315.	7.5	35
35	Enhancement of the thermostability of the maltogenic amylase MAUS149 by Gly312Ala and Lys436Arg substitutions. <i>Bioresource Technology</i> , 2011, 102, 1740-1746.	9.6	34
36	A thermostable α -amylase producing maltohexaose from a new isolated <i>Bacillus</i> sp. US100: study of activity and molecular cloning of the corresponding gene. <i>Enzyme and Microbial Technology</i> , 1999, 24, 584-589.	3.2	32

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37	Improvement of <i>Trichoderma reesei</i> xylanase II thermal stability by serine to threonine surface mutations. <i>International Journal of Biological Macromolecules</i> , 2015, 72, 163-170.	7.5	32
38	Production, purification, and biochemical characterization of serine alkaline protease from <i>Penicillium chrysogenum</i> strain X5 used as excellent bio-additive for textile processing. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 1002-1016.	7.5	32
39	Glucose isomerase of the <i>Streptomyces</i> sp. SK strain: purification, sequence analysis and implication of alanine 103 residue in the enzyme thermostability and acidotolerance. <i>Biochimie</i> , 2004, 86, 561-568.	2.6	30
40	Purification and biochemical characterization of a novel thermostable lichenase from <i>Aspergillus niger</i> US368. <i>Carbohydrate Polymers</i> , 2013, 98, 967-975.	10.2	30
41	Purification and biochemical characterization of a novel thermostable protease from the oyster mushroom <i>Pleurotus sajor-caju</i> strain CTM10057 with industrial interest. <i>BMC Biotechnology</i> , 2019, 19, 43.	3.3	30
42	Probing the Crucial Role of Leu31 and Thr33 of the <i>Bacillus pumilus</i> CBS Alkaline Protease in Substrate Recognition and Enzymatic Depilation of Animal Hide. <i>PLoS ONE</i> , 2014, 9, e108367.	2.5	28
43	Title is missing!. <i>Biotechnology Letters</i> , 1998, 20, 553-556.	2.2	27
44	Probing the Essential Catalytic Residues and Substrate Affinity in the Thermoactive <i>Bacillus stearothermophilus</i> US100 I-Arabinose Isomerase by Site-Directed Mutagenesis. <i>Journal of Bacteriology</i> , 2007, 189, 3556-3563.	2.2	27
45	Biochemical characterization, cloning and molecular modeling of a detergent and organic solvent-stable family 11 xylanase from the newly isolated <i>Aspergillus niger</i> US368 strain. <i>Process Biochemistry</i> , 2012, 47, 1839-1847.	3.7	27
46	Expression of an <i>Aspergillus niger</i> xylanase in yeast: Application in breadmaking and in vitro digestion. <i>International Journal of Biological Macromolecules</i> , 2015, 79, 103-109.	7.5	27
47	A thermostable humic acid peroxidase from <i>Streptomyces</i> sp. strain AH4: Purification and biochemical characterization. <i>Bioresource Technology</i> , 2012, 111, 383-390.	9.6	26
48	The optimized production, purification, characterization, and application in the bread making industry of three acid-stable alpha-amylases isoforms from a new isolated <i>Bacillus subtilis</i> strain US586. <i>Journal of Food Biochemistry</i> , 2019, 43, e12826.	2.9	26
49	Immobilization of the glucose isomerase from <i>Caldicoprobacter algeriensis</i> on Sepabeads EC-HA and its efficient application in continuous High Fructose Syrup production using packed bed reactor. <i>Food Chemistry</i> , 2020, 309, 125710.	8.2	25
50	Thermostability improvement of maltogenic amylase MAUS149 by error prone PCR. <i>Journal of Biotechnology</i> , 2013, 168, 601-606.	3.8	24
51	Exploring the acidotolerance of Î ² -galactosidase from <i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i> : an attractive enzyme for lactose bioconversion. <i>Research in Microbiology</i> , 2009, 160, 775-784.	2.1	23
52	Purification and biochemical characterization of a novel thermostable and halotolerant subtilisin SAPN, a serine protease from <i>Melghiribacillus thermohalophilus</i> Nari2AT for chitin extraction from crab and shrimp shell by-products. <i>Extremophiles</i> , 2019, 23, 529-547.	2.3	23
53	Optimization of submerged <i>Aspergillus oryzae</i> S2 Î±-amylase production. <i>Food Science and Biotechnology</i> , 2016, 25, 185-192.	2.6	22
54	Identification of critical residues for the activity and thermostability of <i>Streptomyces</i> sp. SK glucose isomerase. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 9715-9726.	3.6	21

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55	Production, purification, and characterization of a highly thermostable and humic acid biodegrading peroxidase from a decolorizing <i>Streptomyces albidoflavus</i> strain TN644 isolated from a Tunisian off-shore oil field. <i>International Biodeterioration and Biodegradation</i> , 2014, 90, 36-44.	3.9	21
56	Citrus flavonoids collectively dominate the $\hat{\pm}$ -amylase and $\hat{\pm}$ -glucosidase inhibitions. <i>Biologia (Poland)</i> , 2017, 72, 764-773.	1.5	20
57	A Three-Step Process for the Bioconversion of Whey Permeate into a Glucose-Free D-Tagatose Syrup. <i>Catalysts</i> , 2020, 10, 647.	3.5	19
58	Biochemical and molecular characterization of <i>Pseudomonas aeruginosa</i> CTM50182 organic solvent-stable elastase. <i>International Journal of Biological Macromolecules</i> , 2013, 60, 165-177.	7.5	18
59	Expression of <i>A. niger</i> US368 xylanase in <i>E. coli</i> : Purification, characterization and copper activation. <i>International Journal of Biological Macromolecules</i> , 2015, 74, 263-270.	7.5	18
60	A novel thermostable and efficient Class II glucose isomerase from the thermophilic <i>Caldicoprobacter algeriensis</i> : Biochemical characterization, molecular investigation, and application in High Fructose Syrup production. <i>International Journal of Biological Macromolecules</i> , 2019, 129, 31-40.	7.5	18
61	The Cyclodextrin Glycosyltransferase of <i>Paenibacillus pabuli</i> US132 Strain: Molecular Characterization and Overproduction of the Recombinant Enzyme. <i>Journal of Biomedicine and Biotechnology</i> , 2008, 2008, 1-9.	3.0	17
62	Characterization of a purified decolorizing detergent-stable peroxidase from <i>Streptomyces griseosporus</i> SN9. <i>International Journal of Biological Macromolecules</i> , 2015, 73, 253-263.	7.5	17
63	Cloning and Sequencing of an Original Gene Encoding a Maltogenic Amylase from <i>Bacillus</i> sp. US149 Strain and Characterization of the Recombinant Activity. <i>Molecular Biotechnology</i> , 2008, 38, 211-219.	2.4	16
64	Engineered glucose isomerase from <i>Streptomyces</i> sp. SK is resistant to Ca^{2+} inhibition and Co^{2+} independent. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 537-546.	3.0	16
65	Purification and biochemical characterization of two detergent-stable serine alkaline proteases from <i>Streptomyces</i> sp. strain AH4. <i>World Journal of Microbiology and Biotechnology</i> , 2015, 31, 1079-1092.	3.6	16
66	Overexpression and Biochemical Characterization of a Thermostable Phytase from <i>Bacillus subtilis</i> US417 in <i>Pichia pastoris</i> . <i>Molecular Biotechnology</i> , 2014, 56, 839-848.	2.4	15
67	Apigenin isolated from <i>A. americana</i> encodes Human and <i>Aspergillus oryzae</i> S2 $\hat{\pm}$ -amylase inhibitions: credible approach for antifungal and antidiabetic therapies. <i>Journal of Food Science and Technology</i> , 2018, 55, 1489-1498.	2.8	15
68	Production optimization, characterization, and covalent immobilization of a thermophilic <i>Serratia rubidaea</i> lipase isolated from an Algerian oil waste. <i>Molecular Biology Reports</i> , 2019, 46, 3167-3181.	2.3	12
69	Gene cloning, expression, molecular modeling and docking study of the protease SAPRH from <i>Bacillus safensis</i> strain RH12. <i>International Journal of Biological Macromolecules</i> , 2019, 125, 876-891.	7.5	12
70	Improvement of cyclodextrin glycosyltransferase (CGTase) production by recombinant <i>Escherichia coli</i> pAD26 immobilized on the cotton. <i>Biologia (Poland)</i> , 2012, 67, 1049-1055.	1.5	11
71	<i>Aspergillus oryzae</i> S2 AmyA amylase expression in <i>Pichia pastoris</i> : production, purification and novel properties. <i>Molecular Biology Reports</i> , 2019, 46, 921-932.	2.3	11
72	<i>Aspergillus Oryzae</i> S2 $\hat{\pm}$ -Amylase Domain C Involvement in Activity and Specificity: In Vivo Proteolysis, Molecular and Docking Studies. <i>PLoS ONE</i> , 2016, 11, e0153868.	2.5	11

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73	Effect of <i>Aspergillus oryzae</i> CBS 819.72 α -amylase on rheological dough properties and bread quality. <i>Biologia (Poland)</i> , 2013, 68, 808-815.	1.5	10
74	The Bioengineering and Industrial Applications of Bacterial Alkaline Proteases: the Case of SAPB and KERAB. , 0, , .		9
75	Fermentative production of extracellular amylase from novel amylase producer, <i>Tuber maculatum</i> mycelium, and its characterization. <i>Preparative Biochemistry and Biotechnology</i> , 2018, 48, 549-555.	1.9	9
76	Mutations affecting the activity of the cyclodextrin glucanotransferase of <i>Paenibacillus pabuli</i> US132: insights into the low hydrolytic activity of cyclodextrin glucanotransferases. <i>Biologia (Poland)</i> , 2012, 67, 636-643.	1.5	7
77	Effect of <i>Agave americana</i> L. on the human, and <i>Aspergillus oryzae</i> S2 α -amylase inhibitions. <i>Natural Product Research</i> , 2019, 33, 755-758.	1.8	7
78	Structural Investigation and Homology Modeling Studies of Native and Truncated Forms of α -Amylases from <i>Sclerotinia sclerotiorum</i> . <i>Journal of Microbiology and Biotechnology</i> , 2009, 19, 1306-18.	2.1	7
79	Alpha-amylase gene of thermophilic <i>Streptomyces</i> sp. TO1: nucleotide sequence, transcriptional and amino acid sequence analysis. <i>FEMS Microbiology Letters</i> , 1998, 160, 17-23.	1.8	6
80	Expression by <i>Streptomyces lividans</i> of the Rat α -Integrin CD11b A-Domain as a Secreted and Soluble Recombinant Protein. <i>Journal of Biomedicine and Biotechnology</i> , 2007, 2007, 1-6.	3.0	6
81	Involvement of alanine 103 residue in kinetic and physicochemical properties of glucose isomerases from <i>Streptomyces</i> species. <i>Biotechnology Journal</i> , 2007, 2, 254-259.	3.5	6
82	Involvement of cysteine 306 and alanine 63 in the thermostability and oligomeric organization of glucose isomerase from <i>Streptomyces</i> sp. SK. <i>Biologia (Poland)</i> , 2009, 64, 845-851.	1.5	6
83	Excretory overexpression of <i>Paenibacillus pabuli</i> US132 cyclodextrin glucanotransferase (CGTase) in <i>Escherichia coli</i> : gene cloning and optimization of the culture conditions using experimental design. <i>Biologia (Poland)</i> , 2011, 66, 945-953.	1.5	6
84	Biochemical and molecular characterization of a novel metalloprotease from <i>Pseudomonas fluorescens</i> strain TBS09. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 2351-2363.	7.5	6
85	Modifying <i>Aspergillus Oryzae</i> S2 amylase substrate specificity and thermostability through its tetramerisation using biochemical and in silico studies and stabilization. <i>International Journal of Biological Macromolecules</i> , 2018, 117, 483-492.	7.5	6
86	Changes in the catalytic properties and substrate specificity of <i>Bacillus</i> sp. US149 maltogenic amylase by mutagenesis of residue 46. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2013, 40, 947-953.	3.0	5
87	Efficient synthetic signal peptides for <i>Streptomyces</i> . <i>Biotechnology Letters</i> , 2000, 22, 1305-1310.	2.2	4
88	Differential properties of native and tagged or untagged recombinant glucose isomerases of <i>Streptomyces</i> sp. SK and possible implication of the glycosylation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 94, 82-87.	1.8	4
89	Two new gene clusters involved in the degradation of plant cell wall from the fecal microbiota of Tunisian dromedary. <i>PLoS ONE</i> , 2018, 13, e0194621.	2.5	4
90	Genome sequence and Carbohydrate Active Enzymes (CAZymes) repertoire of the thermophilic <i>Caldicoprobacter algeriensis</i> TH7C1T. <i>Microbial Cell Factories</i> , 2022, 21, .	4.0	4

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91	Construction of new stable strain over-expressing the glucose isomerase of the <i>Streptomyces</i> sp. SK strain. <i>Enzyme and Microbial Technology</i> , 2005, 37, 735-738.	3.2	3
92	Characterization of an original serine alkaline proteinase from <i>Bacillus pumilus</i> CBS. <i>Journal of Biotechnology</i> , 2008, 136, S305.	3.8	3
93	US132 Cyclodextrin Glucanotransferase Engineering by Random Mutagenesis for an Anti-Staling Purpose. <i>Molecular Biotechnology</i> , 2016, 58, 551-557.	2.4	3
94	Valorization of Potato Peels Starch for Efficient α -Cyclodextrin Production and Purification through an Eco-Friendly Process. <i>Starch/Staerke</i> , 2022, 74, .	2.1	3
95	CLONING AND SEQUENCING OF THE α -AMYLASE GENE FROM <i>BACILLUS SUBTILIS</i> 116 STRAIN ENCODING AN ENZYME CLOSELY IDENTICAL TO THAT FROM <i>BACILLUS AMYLOLIQUEFACIENS</i> BUT DISTINCT IN THERMAL STABILITY. <i>Journal of Food Biochemistry</i> , 2010, 34, 263-282.	2.9	2
96	Optimization of <i>Aspergillus oryzae</i> S2 α -amylase, ascorbic acid, and glucose oxidase combination for improved French and composite Ukrainian wheat dough properties and bread quality using a mixture design approach. <i>Food Science and Biotechnology</i> , 2016, 25, 1291-1298.	2.6	2
97	Improved stability and reusability of cotton-immobilized recombinant <i>Escherichia coli</i> producing US132 Cyclodextrin Glucanotransferase. <i>Annals of Microbiology</i> , 2015, 65, 383-391.	2.6	1
98	Highlight on mutations affecting the US132 cyclodextrin glucanotransferase binding specificity, thermal stability, and anti-staling activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 212, 112375.	5.0	1
99	Expression of Mutated SapB-N99Y Keratinase in <i>Bacillus subtilis</i> DB430 and Its Attractive Properties for Soaking Hides and Skins in the Leather Processing Industry. <i>Environmental Science and Engineering</i> , 2021, , 743-749.	0.2	0