Samir Bejar

List of Publications by Citations

99 papers	2,575 citations	30 h-index	46 g-index
100 ext. papers	2,864 ext. citations	5.1 avg, IF	5 L-index

#	Paper	IF	Citations
99	Biochemical and molecular characterization of a detergent-stable serine alkaline protease from Bacillus pumilus CBS with high catalytic efficiency. *Biochimie*, **2008**, 90, 1291-305	4.6	149
98	Application of a statistical design to the optimization of parameters and culture medium for alpha-amylase production by Aspergillus oryzae CBS 819.72 grown on gruel (wheat grinding by-product). *Bioresource Technology*, **2008**, 99, 5602-9	11	132
97	Biocatalysts: application and engineering for industrial purposes. *Critical Reviews in Biotechnology*, **2016**, 36, 246-58	9.4	116
96	Purification and characterization of a thermostable keratinolytic serine alkaline proteinase from Streptomyces sp. strain AB1 with high stability in organic solvents. *Bioresource Technology*, **2010**, 101, 8361-9	11	106
95	Biochemical and molecular characterization of a serine keratinase from Brevibacillus brevis US575 with promising keratin-biodegradation and hide-dehairing activities. *PLoS ONE*, **2013**, 8, e76722	3.7	96
94	Cloning, purification and biochemical characterization of metallic-ions independent and thermoactive l-arabinose isomerase from the Bacillus stearothermophilus US100 strain. *Biochimica Et Biophysica Acta - General Subjects*, **2006**, 1760, 191-9	4	75
93	Enhancement of the thermostability and the catalytic efficiency of Bacillus pumilus CBS protease by site-directed mutagenesis. *Biochimie*, **2010**, 92, 360-9	4.6	61
92	Biochemical characterization of a detergent-stable serine alkaline protease from Caldicoprobacter guelmensis. *International Journal of Biological Macromolecules*, **2015**, 81, 299-307	7.9	60
91	Biochemical and molecular characterization of a thermo- and detergent-stable alkaline serine keratinolytic protease from Bacillus circulans strain DZ100 for detergent formulations and feather-biodegradation process. *International Biodeterioration and Biodegradation*, **2013**, 83, 129-138	4.8	59
90	Purification and sequence analysis of the atypical maltohexaose-forming alpha-amylase of the B. stearothermophilus US100. *Enzyme and Microbial Technology*, **2001**, 28, 537-542	3.8	58
89	A novel keratinase from Bacillus tequilensis strain Q7 with promising potential for the leather bating process. *International Journal of Biological Macromolecules*, **2015**, 79, 952-64	7.9	54
88	Novel serine keratinase from Caldicoprobacter algeriensis exhibiting outstanding hide dehairing abilities. *International Journal of Biological Macromolecules*, **2016**, 86, 321-8	7.9	53
87	Thermostability enhancement and change in starch hydrolysis profile of the maltohexaose-forming amylase of Bacillus stearothermophilus US100 strain. *Biochemical Journal*, **2006**, 394, 51-6	3.8	51
86	Production, purification and characterization of two □amylase isoforms from a newly isolated Aspergillus Oryzae strain S2. *Process Biochemistry*, **2012**, 47, 18-25	4.8	50
85	Excellent laundry detergent compatibility and high dehairing ability of the Bacillus pumilus CBS alkaline proteinase (SAPB). *Biotechnology and Bioprocess Engineering*, **2009**, 14, 503-512	3.1	50
84	Physical and enzymatic properties of a new manganese peroxidase from the white-rot fungus Trametes pubescens strain i8 for lignin biodegradation and textile-dyes biodecolorization. *International Journal of Biological Macromolecules*, **2019**, 125, 514-525	7.9	48
83	Production, purification and biochemical characterization of a novel detergent-stable serine alkaline protease from Bacillus safensis strain RH12. *International Journal of Biological Macromolecules*, **2019**, 121, 1227-1239	7.9	43

82	Characterization of a novel protease from Aeribacillus pallidus strain VP3 with potential biotechnological interest. *International Journal of Biological Macromolecules*, **2017**, 94, 221-232	7.9	41
81	The overexpression of the SAPB of Bacillus pumilus CBS and mutated sapB-L31I/T33S/N99Y alkaline proteases in Bacillus subtilis DB430: new attractive properties for the mutant enzyme. *Bioresource Technology*, **2012**, 105, 142-51	11	39
80	A □-cyclodextrin glycosyltransferase from a newly isolated Paenibacillus pabuli US132 strain: Purification, properties and potential use in bread-making. *Biochemical Engineering Journal*, **2007**, 34, 44-50	4.2	39
79	Aspergillus oryzae S2 alpha-amylase production under solid state fermentation: optimization of culture conditions. *International Journal of Biological Macromolecules*, **2015**, 75, 73-80	7.9	38
78	Rational design of Bacillus stearothermophilus US100 L-arabinose isomerase: potential applications for D-tagatose production. *Biochimie*, **2009**, 91, 650-3	4.6	38
77	Co-expression of l-arabinose isomerase and d-glucose isomerase in E. coli and development of an efficient process producing simultaneously d-tagatose and d-fructose. *Enzyme and Microbial Technology*, **2007**, 40, 1531-1537	3.8	38
76	A novel detergent-stable solvent-tolerant serine thiol alkaline protease from Streptomyces koyangensis TN650. *International Journal of Biological Macromolecules*, **2015**, 79, 871-82	7.9	36
75	Production of D-tagatose, a low caloric sweetener during milk fermentation using L-arabinose isomerase. *Bioresource Technology*, **2011**, 102, 3309-15	11	36
74	Purification and characterization of two novel peroxidases from the dye-decolorizing fungus Bjerkandera adusta strain CX-9. *International Journal of Biological Macromolecules*, **2018**, 106, 636-646	7.9	36
73	Heterologous expression, secretion and characterization of the Geobacillus thermoleovorans US105 type I pullulanase. *Applied Microbiology and Biotechnology*, **2008**, 78, 473-81	5.7	34
72	Effects of Lactobacillus plantarum immobilization in alginate coated with chitosan and gelatin on antibacterial activity. *International Journal of Biological Macromolecules*, **2014**, 64, 84-9	7.9	32
71	Characterization, high production and antimicrobial activity of exopolysaccharides from Lactococcus lactis F-mou. *Microbial Pathogenesis*, **2019**, 132, 10-19	3.8	30
70	Improvement of Trichoderma reesei xylanase II thermal stability by serine to threonine surface mutations. *International Journal of Biological Macromolecules*, **2015**, 72, 163-70	7.9	30
69	A thermostable □amylase producing maltohexaose from a new isolated Bacillus sp. US100: study of activity and molecular cloning of the corresponding gene. *Enzyme and Microbial Technology*, **1999**, 24, 584-589	3.8	30
68	Biochemical and molecular characterization of new keratinoytic protease from Actinomadura viridilutea DZ50. *International Journal of Biological Macromolecules*, **2016**, 92, 299-315	7.9	30
67	Glucose isomerase of the Streptomyces sp. SK strain: purification, sequence analysis and implication of alanine 103 residue in the enzyme thermostability and acidotolerance. *Biochimie*, **2004**, 86, 561-8	4.6	28
66	A novel organic solvent- and detergent-stable serine alkaline protease from Trametes cingulata strain CTM10101. *International Journal of Biological Macromolecules*, **2016**, 91, 961-72	7.9	27
65	Enhancement of the thermostability of the maltogenic amylase MAUS149 by Gly312Ala and Lys436Arg substitutions. *Bioresource Technology*, **2011**, 102, 1740-6	11	27

64	Optimized production and characterization of a detergent-stable protease from Lysinibacillus fusiformis C250R. *International Journal of Biological Macromolecules*, **2017**, 101, 383-397	7.9	26
63	Purification and biochemical characterization of a novel thermostable lichenase from Aspergillus niger US368. *Carbohydrate Polymers*, **2013**, 98, 967-75	10.3	26
62	Probing the crucial role of Leu31 and Thr33 of the Bacillus pumilus CBS alkaline protease in substrate recognition and enzymatic depilation of animal hide. *PLoS ONE*, **2014**, 9, e108367	3.7	25
61	Probing the essential catalytic residues and substrate affinity in the thermoactive Bacillus stearothermophilus US100 L-arabinose isomerase by site-directed mutagenesis. *Journal of Bacteriology*, **2007**, 189, 3556-63	3.5	25
60	A thermostable humic acid peroxidase from Streptomyces sp. strain AH4: purification and biochemical characterization. *Bioresource Technology*, **2012**, 111, 383-90	11	23
59	Production, purification, and biochemical characterization of serine alkaline protease from Penicillium chrysogenium strain X5 used as excellent bio-additive for textile processing. *International Journal of Biological Macromolecules*, **2018**, 119, 1002-1016	7.9	22
58	Identification of a novel protease from the thermophilic Anoxybacillus kamchatkensis M1V and its application as laundry detergent additive. *Extremophiles*, **2019**, 23, 687-706	3	22
57	Exploring the acidotolerance of beta-galactosidase from Lactobacillus delbrueckii subsp. bulgaricus: an attractive enzyme for lactose bioconversion. *Research in Microbiology*, **2009**, 160, 775-84	4	22
56	Expression of an Aspergillus niger xylanase in yeast: Application in breadmaking and in vitro digestion. *International Journal of Biological Macromolecules*, **2015**, 79, 103-9	7.9	21
55	Thermostability improvement of maltogenic amylase MAUS149 by error prone PCR. *Journal of Biotechnology*, **2013**, 168, 601-6	3.7	21
54	Biochemical characterization, cloning and molecular modeling of a detergent and organic solvent-stable family 11 xylanase from the newly isolated Aspergillus niger US368 strain. *Process Biochemistry*, **2012**, 47, 1839-1847	4.8	21
53	A thermostable glucose isomerase having a relatively low optimum pH: study of activity and molecular cloning of the corresponding gene. *Biotechnology Letters*, **1998**, 20, 553-556	3	21
52	The optimized production, purification, characterization, and application in the bread making industry of three acid-stable alpha-amylases isoforms from a new isolated Bacillus subtilis strain US586. *Journal of Food Biochemistry*, **2019**, 43, e12826	3.3	19
51	Production, purification, and characterization of a highly thermostable and humic acid biodegrading peroxidase from a decolorizing Streptomyces albidoflavus strain TN644 isolated from a Tunisian off-shore oil field. *International Biodeterioration and Biodegradation*, **2014**, 90, 36-44	4.8	19
50	Purification and biochemical characterization of a novel thermostable and halotolerant subtilisin SAPN, a serine protease from Melghiribacillus thermohalophilus Nari2A for chitin extraction from crab and shrimp shell by-products. *Extremophiles*, **2019**, 23, 529-547	3	17
49	Expression of A. niger US368 xylanase in E. coli: purification, characterization and copper activation. *International Journal of Biological Macromolecules*, **2015**, 74, 263-70	7.9	17
48	Purification and biochemical characterization of a novel thermostable protease from the oyster mushroom Pleurotus sajor-caju strain CTM10057 with industrial interest. *BMC Biotechnology*, **2019**, 19, 43	3.5	17
47	Biochemical and molecular characterization of Pseudomonas aeruginosa CTM50182 organic solvent-stable elastase. *International Journal of Biological Macromolecules*, **2013**, 60, 165-77	7.9	17

46	A thermophilic and thermostable xylanase from Caldicoprobacter algeriensis: Recombinant expression, characterization and application in paper biobleaching. *International Journal of Biological Macromolecules*, **2020**, 164, 808-817	7.9	17
45	Optimization of submerged S2 amylase production. *Food Science and Biotechnology*, **2016**, 25, 185-192	3	16
44	The cyclodextrin glycosyltransferase of Paenibacillus pabuli US132 strain: molecular characterization and overproduction of the recombinant enzyme. *Journal of Biomedicine and Biotechnology*, **2008**, 2008, 692573		16
43	Overexpression and biochemical characterization of a thermostable phytase from Bacillus subtilis US417 in Pichia pastoris. *Molecular Biotechnology*, **2014**, 56, 839-48	3	15
42	Cloning and sequencing of an original gene encoding a maltogenic amylase from Bacillus sp. US149 strain and characterization of the recombinant activity. *Molecular Biotechnology*, **2008**, 38, 211-9	3	15
41	Characterization of a purified decolorizing detergent-stable peroxidase from Streptomyces griseosporeus SN9. *International Journal of Biological Macromolecules*, **2015**, 73, 253-63	7.9	14
40	Engineered glucose isomerase from Streptomyces sp. SK is resistant to Ca+ inhibition and Co+ independent. *Journal of Industrial Microbiology and Biotechnology*, **2012**, 39, 537-46	4.2	14
39	Purification and biochemical characterization of two detergent-stable serine alkaline proteases from Streptomyces sp. strain AH4. *World Journal of Microbiology and Biotechnology*, **2015**, 31, 1079-92	4.4	13
38	Identification of critical residues for the activity and thermostability of Streptomyces sp. SK glucose isomerase. *Applied Microbiology and Biotechnology*, **2013**, 97, 9715-26	5.7	13
37	A Three-Step Process for the Bioconversion of Whey Permeate into a Glucose-Free D-Tagatose Syrup. *Catalysts*, **2020**, 10, 647	4	12
36	Citrus flavonoids collectively dominate the amylase and glucosidase inhibitions. *Biologia (Poland)*, **2017**, 72, 764-773	1.5	12
35	Immobilization of the glucose isomerase from Caldicoprobacter algeriensis on Sepabeads EC-HA and its efficient application in continuous High Fructose Syrup production using packed bed reactor. *Food Chemistry*, **2020**, 309, 125710	8.5	12
34	A novel thermostable and efficient Class II glucose isomerase from the thermophilic Caldicoprobacter algeriensis: Biochemical characterization, molecular investigation, and application in High Fructose Syrup production. *International Journal of Biological Macromolecules*, **2019**, 129, 31-40	7.9	9
33	Improvement of cyclodextrin glycosyltransferase (CGTase) production by recombinant Escherichia coli pAD26 immobilized on the cotton. *Biologia (Poland)*, **2012**, 67, 1049-1055	1.5	9
32	Apigenin isolated from encodes Human and S2 amylase inhibitions: credible approach for antifungal and antidiabetic therapies. *Journal of Food Science and Technology*, **2018**, 55, 1489-1498	3.3	8
31	Effect of Aspergillus oryzae CBS 819.72 amylase on rheological dough properties and bread quality. *Biologia (Poland)*, **2013**, 68, 808-815	1.5	8
30	The Bioengineering and Industrial Applications of Bacterial Alkaline Proteases: the Case of SAPB and KERAB **2011**,		8
29	Aspergillus Oryzae S2 Amylase Domain C Involvement in Activity and Specificity: In Vivo Proteolysis, Molecular and Docking Studies. *PLoS ONE*, **2016**, 11, e0153868	3.7	8

28	Production optimization, characterization, and covalent immobilization of a thermophilic Serratia rubidaea lipase isolated from an Algerian oil waste. *Molecular Biology Reports*, **2019**, 46, 3167-3181	2.8	7
27	Mutations affecting the activity of the cyclodextrin glucanotransferase of Paenibacillus pabuli US132: insights into the low hydrolytic activity of cyclodextrin glucanotransferases. *Biologia (Poland)*, **2012**, 67, 636-643	1.5	7
26	Structural investigation and homology modeling studies of native and truncated forms of alpha-amylases from Sclerotinia sclerotiorum. *Journal of Microbiology and Biotechnology*, **2009**, 19, 1306-18	3.3	7
25	Biochemical and molecular characterization of a novel metalloprotease from Pseudomonas fluorescens strain TBS09. *International Journal of Biological Macromolecules*, **2018**, 107, 2351-2363	7.9	6
24	Fermentative production of extracellular amylase from novel amylase producer, Tuber maculatum mycelium, and its characterization. *Preparative Biochemistry and Biotechnology*, **2018**, 48, 549-555	2.4	6
23	Involvement of cysteine 306 and alanine 63 in the thermostability and oligomeric organization of glucose isomerase from Streptomyces sp. SK. *Biologia (Poland)*, **2009**, 64, 845-851	1.5	6
22	alpha-Amylase gene of thermophilic Streptomyces sp. TO1: nucleotide sequence, transcriptional and amino acid sequence analysis. *FEMS Microbiology Letters*, **1998**, 160, 17-23	2.9	6
21	Expression by streptomyces lividans of the rat alpha integrin CD11b A-domain as a secreted and soluble recombinant protein. *Journal of Biomedicine and Biotechnology*, **2007**, 2007, 54327		6
20	Involvement of alanine 103 residue in kinetic and physicochemical properties of glucose isomerases from Streptomyces species. *Biotechnology Journal*, **2007**, 2, 254-9	5.6	6
19	Aspergillus oryzae S2 AmyA amylase expression in Pichia pastoris: production, purification and novel properties. *Molecular Biology Reports*, **2019**, 46, 921-932	2.8	6
18	Changes in the catalytic properties and substrate specificity of Bacillus sp. US149 maltogenic amylase by mutagenesis of residue 46. *Journal of Industrial Microbiology and Biotechnology*, **2013**, 40, 947-53	4.2	5
17	Excretory overexpression of Paenibacillus pabuli US132 cyclodextrin glucanotransferase (CGTase) in Escherichia coli: gene cloning and optimization of the culture conditions using experimental design. *Biologia (Poland)*, **2011**, 66, 945-953	1.5	5
16	Modifing Aspergillus Oryzae S2 amylase substrate specificity and thermostability through its tetramerisation using biochemical and in silico studies and stabilization. *International Journal of Biological Macromolecules*, **2018**, 117, 483-492	7.9	5
15	Gene cloning, expression, molecular modeling and docking study of the protease SAPRH from Bacillus safensis strain RH12. *International Journal of Biological Macromolecules*, **2019**, 125, 876-891	7.9	4
14	Effect of Agave americana L. on the human, and Aspergillus oryzae S2 α-amylase inhibitions. *Natural Product Research*, **2019**, 33, 755-758	2.3	4
13	Differential properties of native and tagged or untagged recombinant glucose isomerases of Streptomyces sp. SK and possible implication of the glycosylation. *Journal of Molecular Catalysis B: Enzymatic*, **2013**, 94, 82-87		3
12	Two new gene clusters involved in the degradation of plant cell wall from the fecal microbiota of Tunisian dromedary. *PLoS ONE*, **2018**, 13, e0194621	3.7	3
11	CLONING AND SEQUENCING OF THE α-AMYLASE GENE FROM BACILLUS SUBTILIS US116 STRAIN ENCODING AN ENZYME CLOSELY IDENTICAL TO THAT FROM BACILLUS AMYLOLIQUEFACIENS BUT DISTINCT IN THERMAL STABILITY. *Journal of Food Biochemistry*, **2010**, 34, 263-282	3.3	2

10	Characterization of an original serine alkaline proteinase from Bacillus pumilus CBS. *Journal of Biotechnology*, **2008**, 136, S305	3.7	2
9	Construction of new stable strain over-expressing the glucose isomerase of the Streptomyces sp. SK strain. *Enzyme and Microbial Technology*, **2005**, 37, 735-738	3.8	2
8	Efficient synthetic signal peptides for Streptomyces. *Biotechnology Letters*, **2000**, 22, 1305-1310	3	2
7	Optimization of S2 □amylase, ascorbic acid, and glucose oxidase combination for improved French and composite Ukrainian wheat dough properties and bread quality using a mixture design approach. *Food Science and Biotechnology*, **2016**, 25, 1291-1298	3	2
6	Improved stability and reusability of cotton-immobilized recombinant Escherichia coli producing US132 Cyclodextrin Glucanotransferase. *Annals of Microbiology*, **2015**, 65, 383-391	3.2	1
5	US132 Cyclodextrin Glucanotransferase Engineering by Random Mutagenesis for an Anti-Staling Purpose. *Molecular Biotechnology*, **2016**, 58, 551-7	3	1
4	Valorization of Potato Peels Starch for Efficient □-Cyclodextrin□Production and purification through an Eco-Friendly Process. *Starch/Staerke*,2200037	2.3	1
3	Highlight on mutations affecting the US132 cyclodextrin glucanotransferase binding specificity, thermal stability, and anti-staling activity.. *Colloids and Surfaces B: Biointerfaces*, **2022**, 212, 112375	6	
2	Expression of Mutated SapB-N99Y Keratinase in Bacillus subtilis DB430 and Its Attractive Properties for Soaking Hides and Skins in the Leather Processing Industry. *Environmental Science and Engineering*, **2021**, 743-749	0.2	
1	Biotechnological Properties of New Microbial Peroxidases for Lignin and Humic Acid Biodegradation and Biodeterioration. *Environmental Science and Engineering*, **2021**, 771-776	0.2	