

Samir Bejar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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	6	
98	Expression of Mutated SapB-N99Y Keratinase in Bacillus subtilis 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	
97	Biotechnological Properties of New Microbial Peroxidases for Lignin and Humic Acid Biodegradation and Biodeterioration. <i>Environmental Science and Engineering</i> , 2021 , 771-776	0.2	
96	A Three-Step Process for the Bioconversion of Whey Permeate into a Glucose-Free D-Tagatose Syrup. <i>Catalysts</i> , 2020 , 10, 647	4	12
95	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. <i>Food Chemistry</i> , 2020 , 309, 125710	8.5	12
94	A thermophilic and thermostable xylanase from Caldicoprobacter algeriensis: Recombinant expression, characterization and application in paper biobleaching. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 808-817	7.9	17
93	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. <i>International Journal of Biological Macromolecules</i> , 2019 , 129, 31-40	7.9	9
92	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. <i>Extremophiles</i> , 2019 , 23, 529-547	3	17
91	Characterization, high production and antimicrobial activity of exopolysaccharides from Lactococcus lactis F-mou. <i>Microbial Pathogenesis</i> , 2019 , 132, 10-19	3.8	30
90	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. <i>Journal of Food Biochemistry</i> , 2019 , 43, e12826	3.3	19
89	Production optimization, characterization, and covalent immobilization of a thermophilic Serratia rubidaea lipase isolated from an Algerian oil waste. <i>Molecular Biology Reports</i> , 2019 , 46, 3167-3181	2.8	7
88	Identification of a novel protease from the thermophilic Anoxybacillus kamchatkensis M1V and its application as laundry detergent additive. <i>Extremophiles</i> , 2019 , 23, 687-706	3	22
87	Purification and biochemical characterization of a novel thermostable protease from the oyster mushroom Pleurotus sajor-caju strain CTM10057 with industrial interest. <i>BMC Biotechnology</i> , 2019 , 19, 43	3.5	17
86	Gene cloning, expression, molecular modeling and docking study of the protease SAPRH from Bacillus safensis strain RH12. <i>International Journal of Biological Macromolecules</i> , 2019 , 125, 876-891	7.9	4
85	Production, purification and biochemical characterization of a novel detergent-stable serine alkaline protease from Bacillus safensis strain RH12. <i>International Journal of Biological Macromolecules</i> , 2019 , 121, 1227-1239	7.9	43
84	Aspergillus oryzae S2 AmyA amylase expression in Pichia pastoris: production, purification and novel properties. <i>Molecular Biology Reports</i> , 2019 , 46, 921-932	2.8	6
83	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. <i>International Journal of Biological Macromolecules</i> , 2019 , 125, 514-525	7.9	48

82	Effect of Agave americana L. on the human, and Aspergillus oryzae S2 α -amylase inhibitions. <i>Natural Product Research</i> , 2019 , 33, 755-758	2.3	4
81	Apigenin isolated from encodes Human and S2 α -amylase inhibitions: credible approach for antifungal and antidiabetic therapies. <i>Journal of Food Science and Technology</i> , 2018 , 55, 1489-1498	3.3	8
80	Biochemical and molecular characterization of a novel metalloprotease from Pseudomonas fluorescens strain TBS09. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 2351-2363	7.9	6
79	Production, purification, and biochemical characterization of serine alkaline protease from Penicillium chrysogenum strain X5 used as excellent bio-additive for textile processing. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 1002-1016	7.9	22
78	Fermentative production of extracellular amylase from novel amylase producer, Tuber maculatum mycelium, and its characterization. <i>Preparative Biochemistry and Biotechnology</i> , 2018 , 48, 549-555	2.4	6
77	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	3.7	3
76	Purification and characterization of two novel peroxidases from the dye-decolorizing fungus Bjerkandera adusta strain CX-9. <i>International Journal of Biological Macromolecules</i> , 2018 , 106, 636-646	7.9	36
75	Modifying Aspergillus Oryzae 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	7.9	5
74	Optimized production and characterization of a detergent-stable protease from Lysinibacillus fusiformis C250R. <i>International Journal of Biological Macromolecules</i> , 2017 , 101, 383-397	7.9	26
73	Characterization of a novel protease from Aeribacillus pallidus strain VP3 with potential biotechnological interest. <i>International Journal of Biological Macromolecules</i> , 2017 , 94, 221-232	7.9	41
72	Citrus flavonoids collectively dominate the α -amylase and β -glucosidase inhibitions. <i>Biologia (Poland)</i> , 2017 , 72, 764-773	1.5	12
71	Biocatalysts: application and engineering for industrial purposes. <i>Critical Reviews in Biotechnology</i> , 2016 , 36, 246-58	9.4	116
70	A novel organic solvent- and detergent-stable serine alkaline protease from Trametes cingulata strain CTM10101. <i>International Journal of Biological Macromolecules</i> , 2016 , 91, 961-72	7.9	27
69	Optimization of submerged S2 α -amylase production. <i>Food Science and Biotechnology</i> , 2016 , 25, 185-192	3	16
68	Novel serine keratinase from Caldicoprobacter algeriensis exhibiting outstanding hide dehairing abilities. <i>International Journal of Biological Macromolecules</i> , 2016 , 86, 321-8	7.9	53
67	Aspergillus Oryzae S2 α -Amylase Domain C Involvement in Activity and Specificity: In Vivo Proteolysis, Molecular and Docking Studies. <i>PLoS ONE</i> , 2016 , 11, e0153868	3.7	8
66	US132 Cyclodextrin Glucanotransferase Engineering by Random Mutagenesis for an Anti-Staling Purpose. <i>Molecular Biotechnology</i> , 2016 , 58, 551-7	3	1
65	Biochemical and molecular characterization of new keratinolytic protease from Actinomyces viridilutea DZ50. <i>International Journal of Biological Macromolecules</i> , 2016 , 92, 299-315	7.9	30

64	Optimization of 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	3	2
63	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, 952-64	7.9	54
62	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, 871-82	7.9	36
61	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, 103-9	7.9	21
60	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	7.9	60
59	Characterization of a purified decolorizing detergent-stable peroxidase from <i>Streptomyces griseosporus</i> SN9. <i>International Journal of Biological Macromolecules</i> , 2015 , 73, 253-63	7.9	14
58	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, 263-70	7.9	17
57	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	3.2	1
56	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, 163-70	7.9	30
55	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, 1079-92	4.4	13
54	<i>Aspergillus oryzae</i> S2 α -amylase production under solid state fermentation: optimization of culture conditions. <i>International Journal of Biological Macromolecules</i> , 2015 , 75, 73-80	7.9	38
53	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	4.8	19
52	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, 84-9	7.9	32
51	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, 839-48	3	15
50	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	3.7	25
49	Purification and biochemical characterization of a novel thermostable lichenase from <i>Aspergillus niger</i> US368. <i>Carbohydrate Polymers</i> , 2013 , 98, 967-75	10.3	26
48	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	4.8	59
47	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, 947-53	4.2	5

46	Biochemical and molecular characterization of <i>Pseudomonas aeruginosa</i> CTM50182 organic solvent-stable elastase. <i>International Journal of Biological Macromolecules</i> , 2013 , 60, 165-77	7.9	17
45	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	8
44	Thermostability improvement of maltogenic amylase MAUS149 by error prone PCR. <i>Journal of Biotechnology</i> , 2013 , 168, 601-6	3.7	21
43	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		3
42	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, 9715-26	5.7	13
41	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	3.7	96
40	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, 142-51	11	39
39	A thermostable humic acid peroxidase from <i>Streptomyces</i> sp. strain AH4: purification and biochemical characterization. <i>Bioresource Technology</i> , 2012 , 111, 383-90	11	23
38	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	4.8	50
37	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
36	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	9
35	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	4.8	21
34	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, 537-46	4.2	14
33	The Bioengineering and Industrial Applications of Bacterial Alkaline Proteases: the Case of SAPB and KERAB 2011 ,		8
32	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	5
31	Enhancement of the thermostability of the maltogenic amylase MAUS149 by Gly312Ala and Lys436Arg substitutions. <i>Bioresource Technology</i> , 2011 , 102, 1740-6	11	27
30	Production of D-tagatose, a low caloric sweetener during milk fermentation using L-arabinose isomerase. <i>Bioresource Technology</i> , 2011 , 102, 3309-15	11	36
29	CLONING AND SEQUENCING OF THE α -AMYLASE GENE FROM <i>BACILLUS SUBTILIS</i> US116 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	3.3	2

28	Enhancement of the thermostability and the catalytic efficiency of <i>Bacillus pumilus</i> CBS protease by site-directed mutagenesis. <i>Biochimie</i> , 2010 , 92, 360-9	4.6	61
27	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, 8361-9	11	106
26	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	3.1	50
25	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
24	Rational design of <i>Bacillus stearothermophilus</i> US100 L-arabinose isomerase: potential applications for D-tagatose production. <i>Biochimie</i> , 2009 , 91, 650-3	4.6	38
23	Exploring the acidotolerance of beta-galactosidase from <i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i> : an attractive enzyme for lactose bioconversion. <i>Research in Microbiology</i> , 2009 , 160, 775-84	4	22
22	Structural investigation and homology modeling studies of native and truncated forms of alpha-amylases from <i>Sclerotinia sclerotiorum</i> . <i>Journal of Microbiology and Biotechnology</i> , 2009 , 19, 1306-18	3.3	7
21	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, 1291-305	4.6	149
20	Characterization of an original serine alkaline proteinase from <i>Bacillus pumilus</i> CBS. <i>Journal of Biotechnology</i> , 2008 , 136, S305	3.7	2
19	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, 692573		16
18	Heterologous expression, secretion and characterization of the <i>Geobacillus thermoleovorans</i> US105 type I pullulanase. <i>Applied Microbiology and Biotechnology</i> , 2008 , 78, 473-81	5.7	34
17	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, 211-9	3	15
16	Application of a statistical design to the optimization of parameters and culture medium for alpha-amylase production by <i>Aspergillus oryzae</i> CBS 819.72 grown on gruel (wheat grinding by-product). <i>Bioresource Technology</i> , 2008 , 99, 5602-9	11	132
15	Expression by <i>Streptomyces lividans</i> of the rat alpha integrin CD11b A-domain as a secreted and soluble recombinant protein. <i>Journal of Biomedicine and Biotechnology</i> , 2007 , 2007, 54327		6
14	A α -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	4.2	39
13	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	3.8	38
12	Involvement of alanine 103 residue in kinetic and physicochemical properties of glucose isomerases from <i>Streptomyces</i> species. <i>Biotechnology Journal</i> , 2007 , 2, 254-9	5.6	6
11	Probing the essential catalytic residues and substrate affinity in the thermoactive <i>Bacillus stearothermophilus</i> US100 L-arabinose isomerase by site-directed mutagenesis. <i>Journal of Bacteriology</i> , 2007 , 189, 3556-63	3.5	25

10	Cloning, purification and biochemical characterization of metallic-ions independent and thermoactive l-arabinose isomerase from the Bacillus stearothermophilus US100 strain. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006 , 1760, 191-9	4	75
9	Thermostability enhancement and change in starch hydrolysis profile of the maltohexaose-forming amylase of Bacillus stearothermophilus US100 strain. <i>Biochemical Journal</i> , 2006 , 394, 51-6	3.8	51
8	Construction of new stable strain over-expressing the glucose isomerase of the Streptomyces sp. SK strain. <i>Enzyme and Microbial Technology</i> , 2005 , 37, 735-738	3.8	2
7	Glucose isomerase of the Streptomyces sp. SK strain: purification, sequence analysis and implication of alanine 103 residue in the enzyme thermostability and acidotolerance. <i>Biochimie</i> , 2004 , 86, 561-8	4.6	28
6	Purification and sequence analysis of the atypical maltohexaose-forming alpha-amylase of the B. stearothermophilus US100. <i>Enzyme and Microbial Technology</i> , 2001 , 28, 537-542	3.8	58
5	Efficient synthetic signal peptides for Streptomyces. <i>Biotechnology Letters</i> , 2000 , 22, 1305-1310	3	2
4	A thermostable ßamylase producing maltohexaose from a new isolated Bacillus sp. US100: study of activity and molecular cloning of the corresponding gene. <i>Enzyme and Microbial Technology</i> , 1999 , 24, 584-589	3.8	30
3	A thermostable glucose isomerase having a relatively low optimum pH: study of activity and molecular cloning of the corresponding gene. <i>Biotechnology Letters</i> , 1998 , 20, 553-556	3	21
2	alpha-Amylase gene of thermophilic Streptomyces sp. TO1: nucleotide sequence, transcriptional and amino acid sequence analysis. <i>FEMS Microbiology Letters</i> , 1998 , 160, 17-23	2.9	6
1	Valorization of Potato Peels Starch for Efficient α-Cyclodextrin Production and purification through an Eco-Friendly Process. <i>Starch/Staerke</i> , 2200037	2.3	1