

Stanisław Bielecki

List of Publications by Year in descending order

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69
papers

3,354
citations

218677

26
h-index

149698

56
g-index

73
all docs

73
docs citations

73
times ranked

4026
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial cellulose – the natural power to heal wounds. <i>Biomaterials</i> , 2006, 27, 145-151.	11.4	1,010
2	Enzymatic biodiesel synthesis – Key factors affecting efficiency of the process. <i>Renewable Energy</i> , 2009, 34, 1185-1194.	8.9	405
3	Factors affecting the yield and properties of bacterial cellulose. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2002, 29, 189-195.	3.0	273
4	– New methods Modified bacterial cellulose tubes for regeneration of damaged peripheral nerves. <i>Archives of Medical Science</i> , 2013, 3, 527-534.	0.9	105
5	Molecular aspects of bacterial nanocellulose biosynthesis. <i>Microbial Biotechnology</i> , 2019, 12, 633-649.	4.2	83
6	A cold-adapted extracellular serine proteinase of the yeast <i>Leucosporidium antarcticum</i> . <i>Extremophiles</i> , 2003, 7, 435-442.	2.3	80
7	Microbial β -Glucanases Different from Cellulases. <i>Critical Reviews in Biotechnology</i> , 1991, 10, 275-304.	9.0	70
8	Relationships between lipases and lipids in mycelia of two <i>Mucor</i> strains. <i>Enzyme and Microbial Technology</i> , 2006, 39, 1214-1222.	3.2	65
9	Antarctic marine bacterium <i>Pseudoalteromonas</i> sp. 22b as a source of cold-adapted β -galactosidase. <i>New Biotechnology</i> , 2003, 20, 317-324.	2.7	57
10	Crystal structures of the apo form of β -fructofuranosidase from <i>Bifidobacterium longum</i> and its complex with fructose. <i>FEBS Journal</i> , 2011, 278, 1728-1744.	4.7	56
11	Complete genome sequence of <i>Gluconacetobacter xylinus</i> E25 strain – Valuable and effective producer of bacterial nanocellulose. <i>Journal of Biotechnology</i> , 2014, 176, 18-19.	3.8	53
12	Comparative genomics of the <i>Komagataeibacter</i> strains – Efficient bionanocellulose producers. <i>MicrobiologyOpen</i> , 2019, 8, e00731.	3.0	51
13	Biosolubilization of Polish brown coal by <i>Gordonia alkanivorans</i> S7 and <i>Bacillus mycoides</i> NS1020. <i>Fuel Processing Technology</i> , 2015, 131, 430-436.	7.2	48
14	Glycerol-plasticized bacterial nanocellulose-based composites with enhanced flexibility and liquid sorption capacity. <i>Cellulose</i> , 2019, 26, 5409-5426.	4.9	42
15	The effect of nitrate and ammonium ions on kinetics of diesel oil degradation by <i>Gordonia alkanivorans</i> S7. <i>International Biodeterioration and Biodegradation</i> , 2008, 61, 214-222.	3.9	39
16	The influence of liquid systems for shoot multiplication, secondary metabolite production and plant regeneration of <i>Scutellaria alpina</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2017, 128, 479-486.	2.3	38
17	Isolation and properties of <i>Aspergillus niger</i> IBT-90 xylanase for bakery. <i>Applied Microbiology and Biotechnology</i> , 2006, 69, 665-671.	3.6	36
18	Thermostability and esterification activity of <i>Mucor javanicus</i> lipase entrapped in silica aerogel matrix and in organic solvents. <i>Biotechnology Letters</i> , 1997, 11, 9-11.	0.5	35

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19	Immobilization of dextransucrase and its use with soluble dextranase for glucooligosaccharides synthesis. <i>Enzyme and Microbial Technology</i> , 2004, 34, 555-560.	3.2	35
20	Effect of ethanol supplementation on the transcriptional landscape of bionanocellulose producer <i>Komagataeibacter xylinus</i> E25. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 6673-6688.	3.6	35
21	Medical and Cosmetic Applications of Bacterial NanoCellulose. , 2016, , 145-165.		33
22	Stable composite of bacterial nanocellulose and perforated polypropylene mesh for biomedical applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 978-987.	3.4	33
23	Molecular basis of cellulose biosynthesis disappearance in submerged culture of <i>Acetobacter xylinum</i> .. <i>Acta Biochimica Polonica</i> , 2019, 52, 691-698.	0.5	31
24	Efficient expression and secretion of two co-produced xylanases from <i>Aspergillus niger</i> in <i>Pichia pastoris</i> directed by their native signal peptides and the <i>Saccharomyces cerevisiae</i> α -mating factor. <i>Enzyme and Microbial Technology</i> , 2006, 39, 683-689.	3.2	29
25	Purification and characterization of two endo-1,4- β -xylanases from Antarctic krill, <i>Euphausia superba</i> Dana. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2000, 127, 325-335.	1.6	28
26	Modification of bacterial nanocellulose properties through mutation of motility related genes in <i>Komagataeibacter hansenii</i> ATCC 53582. <i>New Biotechnology</i> , 2019, 52, 60-68.	4.4	28
27	Towards control of cellulose biosynthesis by <i>Komagataeibacter</i> using systems-level and strain engineering strategies: current progress and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 6565-6585.	3.6	28
28	Catalytic properties of membrane-bound <i>Mucor</i> lipase immobilized in a hydrophilic carrier. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 19-20, 261-268.	1.8	27
29	Structural changes of bacterial nanocellulose pellicles induced by genetic modification of <i>Komagataeibacter hansenii</i> ATCC 23769. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 5339-5353.	3.6	26
30	Biosynthesis, purification and characterization of β -fructofuranosidase from <i>Bifidobacterium longum</i> KN29.1. <i>Process Biochemistry</i> , 2011, 46, 1963-1972.	3.7	24
31	Assessment of usefulness exhibited by different tacks in laparoscopic ventral hernia repair. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2007, 21, 925-928.	2.4	20
32	Novel Bionanocellulose/ β -Carrageenan Composites for Tissue Engineering. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1352.	2.5	20
33	Stabilization of an intracellular <i>Mucor circinelloides</i> lipase for application in non-aqueous media. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004, 29, 163-171.	1.8	19
34	Improvement of efficiency of brown coal biosolubilization by novel recombinant <i>Fusarium oxysporum</i> laccase. <i>AMB Express</i> , 2018, 8, 133.	3.0	19
35	Scaffolds for Chondrogenic Cells Cultivation Prepared from Bacterial Cellulose with Relaxed Fibers Structure Induced Genetically. <i>Nanomaterials</i> , 2018, 8, 1066.	4.1	19
36	Stability of extracellular proteinase productivity by <i>Bacillus subtilis</i> cells immobilized in PVA-cryogel. <i>Enzyme and Microbial Technology</i> , 2004, 34, 168-176.	3.2	18

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37	Response surface methodology-based improvement of the yield and differentiation of properties of bacterial cellulose by metabolic enhancers. <i>International Journal of Biological Macromolecules</i> , 2021, 187, 584-593.	7.5	18
38	Bacterial NanoCellulose Characterization. , 2016, , 59-71.		17
39	Solid phase peptide synthesis: Fluoride ion release of protected peptide fragments. <i>Tetrahedron</i> , 1992, 48, 499-514.	1.9	16
40	Diversity of laccase-coding genes in <i>Fusarium oxysporum</i> genomes. <i>Frontiers in Microbiology</i> , 2015, 6, 933.	3.5	16
41	Bacterial NanoCellulose Synthesis, <i>Recent Findings</i> . , 2016, , 19-46.		16
42	Activation of <i>Mucor circinelloides</i> lipase in organic medium. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 19-20, 287-294.	1.8	15
43	Sugar ester synthesis by a mycelium-bound <i>Mucor circinelloides</i> lipase in a micro-reactor equipped with water activity sensor. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004, 29, 155-161.	1.8	15
44	PVA-biocatalyst with entrapped viable <i>Bacillus subtilis</i> cells. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 11, 671-676.	1.8	13
45	Mathematical modelling of ester synthesis by lipase in biphasic system. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 11, 1043-1050.	1.8	13
46	The unique cold-adapted extracellular subtilase from psychrophilic yeast <i>Leucosporidium antarcticum</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2003, 21, 39-42.	1.8	13
47	Optimization and characterization of bacterial nanocellulose produced by <i>Komagataeibacter rhaeticus</i> K3. <i>Carbohydrate Polymer Technologies and Applications</i> , 2021, 2, 100022.	2.6	13
48	Evolved <i>Fusarium oxysporum</i> laccase expressed in <i>Saccharomyces cerevisiae</i> . <i>Scientific Reports</i> , 2020, 10, 3244.	3.3	12
49	Highly Stretchable Bacterial Cellulose Produced by <i>Komagataeibacter hansenii</i> S11. <i>Polymers</i> , 2021, 13, 4455.	4.5	12
50	Isolation and preliminary characterization of a respiratory nitrate reductase from hydrocarbon-degrading bacterium <i>Gordonia alkanivorans</i> S7. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2010, 37, 625-629.	3.0	11
51	Biocompatibility of Modified Bionanocellulose and Porous Poly(ϵ -caprolactone) Biomaterials. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2014, 63, 518-526.	3.4	10
52	BNC Biosynthesis with Increased Productivity in a Newly Designed Surface Air-Flow Bioreactor. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3850.	2.5	10
53	Synthesis of Oligosaccharides by β -Fructofuranosidase in Biphasic Medium Containing Organic Solvent as Bulk Phase. <i>Biocatalysis and Biotransformation</i> , 1996, 13, 217-231.	2.0	8
54	Oligosaccharide synthesis by invertase in organic media containing SDS. <i>Biotechnology Letters</i> , 1998, 20, 287-290.	2.2	8

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55	Activity of immobilised in situ intracellular lipases from <i>Mucor circinelloides</i> and <i>Mucor racemosus</i> in the synthesis of sucrose esters. <i>Progress in Biotechnology</i> , 2000, 17, 221-227.	0.2	8
56	Molecular basis of cellulose biosynthesis disappearance in submerged culture of <i>Acetobacter xylinum</i> . <i>Acta Biochimica Polonica</i> , 2005, 52, 691-8.	0.5	7
57	Characterization of non-flocculent cells isolated from a culture of flocculent <i>Saccharomyces cerevisiae</i> NCYC 1001. <i>FEMS Microbiology Letters</i> , 1989, 61, 189-194.	1.8	6
58	Effect of fructose and glucose supplementation on invertase mediated synthesis of oligosaccharides from sucrose. <i>Biotechnology Letters</i> , 1995, 17, 519-524.	2.2	6
59	Molecular modelling of a psychrophilic β -galactosidase. <i>Biocatalysis and Biotransformation</i> , 2005, 23, 201-209.	2.0	6
60	Taxonomic Review and Microbial Ecology in β -Bacterial NanoCellulose Fermentation. , 2016, , 1-17.		6
61	Application of a continuous bioreactor cascade to study the effect of linoleic acid on hybridoma cell physiology. <i>Biotechnology and Bioengineering</i> , 2006, 95, 370-383.	3.3	5
62	Extracellular Nucleotides Affect the Proangiogenic Behavior of Fibroblasts, Keratinocytes, and Endothelial Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 238.	4.1	5
63	Specificity of Endo- β -1,3-glucanase G A from <i>Cellulomonas cellulans</i> towards Structurally Diversified Acceptor Molecules in Transglycosylation Reaction. <i>Biocatalysis and Biotransformation</i> , 2002, 20, 95-100.	2.0	3
64	Oligosaccharide synthesis by endo- β -1,3-glucanase GA from <i>Cellulomonas cellulans</i> . <i>Progress in Biotechnology</i> , 2000, 17, 163-169.	0.2	2
65	Medical Devices Regulation. , 2016, , 167-178.		1
66	Molecular Control Over BNC Biosynthesis. , 2016, , 47-58.		1
67	Enhancement of invertase activity in organic media for oligosaccharide synthesis. <i>Progress in Biotechnology</i> , 1998, 15, 423-428.	0.2	0
68	Rapid isolation of kestose by low-pressure chromatography after enzymatic synthesis with invertase. <i>Biotechnology Letters</i> , 1999, 13, 625-629.	0.5	0
69	Putative motility-related genes in <i>Gluconacetobacter xylinus</i> . Initial verification of their influence on BioNanoCellulose biosynthesis. <i>New Biotechnology</i> , 2014, 31, S109.	4.4	0