

Agnieszka Å»ylich-Stachula

List of Publications by Year in descending order

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35
papers

337
citations

840585

11
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887953

17
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docs citations

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#	ARTICLE	IF	CITATIONS
1	Antimicrobial Potential of the Genera <i>Geobacillus</i> and <i>Parageobacillus</i> , as Well as Endolysins Biosynthesized by Their Bacteriophages. <i>Antibiotics</i> , 2022, 11, 242.	1.5	8
2	A method for the transient inhibition of toxicity of secretory recombinant proteins, exemplified by bacterial alkaline phosphatase. Novel protocol for problematic DNA termini dephosphorylation. <i>MethodsX</i> , 2021, 8, 101340.	0.7	1
3	A vector-enzymatic DNA fragment amplification-expression technology for construction of artificial, concatemeric DNA, RNA and proteins for novel biomaterials, biomedical and industrial applications. <i>Materials Science and Engineering C</i> , 2020, 108, 110426.	3.8	8
4	Boosting toxic protein biosynthesis: transient in vivo inactivation of engineered bacterial alkaline phosphatase. <i>Microbial Cell Factories</i> , 2020, 19, 166.	1.9	7
5	An efficient method for the construction of artificial, concatemeric DNA, RNA and proteins with genetically programmed functions, using a novel, vector-enzymatic DNA fragment amplification-expression technology. <i>MethodsX</i> , 2020, 7, 101070.	0.7	2
6	Data regarding a new, vector-enzymatic DNA fragment amplification-expression technology for the construction of artificial, concatemeric DNA, RNA and proteins, as well as biological effects of selected polypeptides obtained using this method. <i>Data in Brief</i> , 2020, 28, 105069.	0.5	4
7	Novel parameter describing restriction endonucleases: Secondary-Cognate-Specificity and chemical stimulation of <i>TsoI</i> leading to substrate specificity change. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3439-3451.	1.7	1
8	Randomized DNA libraries construction tool: a new 3-bp ~frequent cutter™ <i>TthHB27I</i> /sinefungin endonuclease with chemically-induced specificity. <i>BMC Genomics</i> , 2018, 19, 361.	1.2	2
9	Sequence, genome organization, annotation and proteomics of the thermophilic, 47.7-kb <i>Geobacillus stearothermophilus</i> bacteriophage TP-84 and its classification in the new <i>Tp84virus</i> genus. <i>PLoS ONE</i> , 2018, 13, e0195449.	1.1	14
10	The promises and risks of probiotic <i>Bacillus</i> species. <i>Acta Biochimica Polonica</i> , 2018, 65, 509-519.	0.3	51
11	Chemically~enzymatic synthesis of photosensitive DNA. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 167, 228-235.	1.7	4
12	The third restriction~modification system from <i>Thermus aquaticus</i> YT-1: solving the riddle of two <i>TaqI</i> specificities. <i>Nucleic Acids Research</i> , 2017, 45, 9005-9018.	6.5	3
13	Thermostable proteins bioprocesses: The activity of restriction endonuclease-methyltransferase from <i>Thermus thermophilus</i> (RM. <i>TthHB27I</i>) cloned in <i>Escherichia coli</i> is critically affected by the codon composition of the synthetic gene. <i>PLoS ONE</i> , 2017, 12, e0186633.	1.1	11
14	Detection of endospore producing <i>Bacillus</i> species from commercial probiotics and their preliminary microbiological characterization. <i>Journal of Environmental Biology</i> , 2017, 38, 1435-1440.	0.2	5
15	Development of a method for the construction of artificial genes coding for bioactive peptide-based biopolymers. <i>New Biotechnology</i> , 2016, 33, S191.	2.4	0
16	Engineering <i>TaqI</i> bifunctional endonuclease DNA recognition fidelity: the effect of a single amino acid substitution within the methyltransferase catalytic site. <i>Molecular Biology Reports</i> , 2016, 43, 269-282.	1.0	2
17	A putative Type IIS restriction endonuclease <i>GeoIcI</i> from <i>Geobacillus</i> sp. ~ A robust, thermostable alternative to mesophilic prototype <i>BbvI</i> . <i>Journal of Biosciences</i> , 2016, 41, 27-38.	0.5	1
18	Two-stage gene assembly/cloning of a member of the <i>TspDTI</i> subfamily of bifunctional restriction endonucleases, <i>TthHB27I</i> . <i>Journal of Biotechnology</i> , 2015, 194, 67-80.	1.9	9

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19	A new prototype IIS/IIC/IIG endonuclease-methyltransferase TsoI from the thermophile <i>Thermus scotoductus</i> , recognising 5'â€²-TARCCA(N11/9)-3'â€² sequences. <i>Journal of Biotechnology</i> , 2015, 194, 19-26.	1.9	3
20	Artificial Plasmid Labeled with 5'â€²-Bromoâ€²â€²-deoxyuridine: A Universal Molecular System for Strand Break Detection. <i>ChemBioChem</i> , 2014, 15, 1409-1412.	1.3	4
21	Cofactor analogue-induced chemical reactivation of endonuclease activity in a DNA cleavage/methylation deficient TspGWI N473A variant in the NPPY motif. <i>Molecular Biology Reports</i> , 2014, 41, 2313-2323.	1.0	3
22	Modified 'one amino acid-one codon' engineering of high GC content TaqII-coding gene from thermophilic <i>Thermus aquaticus</i> results in radical expression increase. <i>Microbial Cell Factories</i> , 2014, 13, 7.	1.9	22
23	Photoinduced Single Strand Breaks and Intrastrand Cross-Links in an Oligonucleotide Labeled with 5-Bromouracil. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5009-5016.	1.2	17
24	A new genomic tool, ultra-frequently cleaving TaqII/sinefungin endonuclease with a combined 2.9-bp recognition site, applied to the construction of horse DNA libraries. <i>BMC Genomics</i> , 2013, 14, 370.	1.2	8
25	Three-stage biochemical selection: cloning of prototype class IIS/IIC/IIG restriction endonuclease-methyltransferase TsoI from the thermophile <i>Thermus scotoductus</i> . <i>BMC Molecular Biology</i> , 2013, 14, 17.	3.0	10
26	Related bifunctional restriction endonuclease-methyltransferase triplets: TspDTI, Tth111II/TthHB27I and TsoI with distinct specificities. <i>BMC Molecular Biology</i> , 2012, 13, 13.	3.0	20
27	Chemically-induced affinity star restriction specificity: a novel TspGWI/sinefungin endonuclease with theoretical 3-bp cleavage frequency. <i>BioTechniques</i> , 2011, 50, 397-406.	0.8	17
28	PCR synthesis of double stranded DNA labeled with 5-bromouridine. A step towards finding a bromonucleoside for clinical trials. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011, 56, 671-677.	1.4	12
29	Enzymatic synthesis of long double-stranded DNA labeled with haloderivatives of nucleobases in a precisely pre-determined sequence. <i>BMC Biochemistry</i> , 2011, 12, 47.	4.4	3
30	Bifunctional TaqII restriction endonuclease: redefining the prototype DNA recognition site and establishing the Fidelity Index for partial cleaving.. <i>BMC Biochemistry</i> , 2011, 12, 62.	4.4	15
31	Unexpected Photoproduct Generated via the Acetone-Sensitized Photolysis of 5-Bromo-2'â€²-deoxyuridine in a Water/Isopropanol Solution: Experimental and Computational Studies. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16902-16907.	1.2	2
32	Cloning and analysis of a bifunctional methyltransferase/restriction endonuclease TspGWI, the prototype of a <i>Thermus</i> sp. enzyme family. <i>BMC Molecular Biology</i> , 2009, 10, 52.	3.0	24
33	A new <i>Thermus</i> sp. class-IIS enzyme sub-family: isolation of a 'twin' endonuclease TspDTI with a novel specificity 5'-ATGAA(N11/9)-3', related to TspGWI, TaqII and Tth111II. <i>Nucleic Acids Research</i> , 2003, 31, 74e-74.	6.5	20
34	TspGWI, a thermophilic class-IIS restriction endonuclease from <i>Thermus</i> sp., recognizes novel asymmetric sequence 5'-ACGGA(N11/9)-3'. <i>Nucleic Acids Research</i> , 2002, 30, 33e-33.	6.5	17
35	DNA-FACE, - An <i>Escherichia coli</i> -based DNA Amplification-Expression Technology for Automatic Assembly of Concatemeric ORFs and Proteins. , 0, , .		1