Anna ArÃ-s

List of Publications by Year
in descending order

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Version: 2024-02-01

74 papers	2,014 citations	257101 24 h-index	264894 42 g-index
76 all docs	76 docs citations	76 times ranked	1924 citing authors

#	Article	IF	Citations
1	Aggregation as bacterial inclusion bodies does not imply inactivation of enzymes and fluorescent proteins. Microbial Cell Factories, 2005, 4, 27.	1.9	266
2	The conformational quality of insoluble recombinant proteins is enhanced at low growth temperatures. Biotechnology and Bioengineering, 2007, 96, 1101-1106.	1.7	189
3	Effects of forage provision to young calves on rumen fermentation and development of the gastrointestinal tract. Journal of Dairy Science, 2013, 96, 5226-5236.	1.4	129
4	Associations between subclinical hypocalcemia and postparturient diseases in dairy cows. Journal of Dairy Science, 2017, 100, 7427-7434.	1.4	105
5	Localization of Functional Polypeptides in Bacterial Inclusion Bodies. Applied and Environmental Microbiology, 2007, 73, 289-294.	1.4	102
6	Effects of an extract of plant flavonoids (Bioflavex) on rumen fermentation and performance in heifers fed high-concentrate diets1. Journal of Animal Science, 2012, 90, 4975-4984.	0.2	94
7	Modular protein engineering for non-viral gene therapy. Trends in Biotechnology, 2004, 22, 371-377.	4.9	50
8	A combination of lactic acid bacteria regulates Escherichia coli infection and inflammation of the bovine endometrium. Journal of Dairy Science, 2017, 100, 479-492.	1.4	43
9	Functional protein-based nanomaterial produced in microorganisms recognized as safe: A new platform for biotechnology. Acta Biomaterialia, 2016, 43, 230-239.	4.1	42
10	Trends in recombinant protein use in animal production. Microbial Cell Factories, 2017, 16, 40.	1.9	40
11	The chaperone DnaK controls the fractioning of functional protein between soluble and insoluble cell fractions in inclusion body-forming cells. Microbial Cell Factories, 2006, 5, 26.	1.9	38
12	Effects of ring castration with local anesthesia and analgesia in Holstein calves at 3 months of age on welfare indicators1. Journal of Animal Science, 2010, 88, 2789-2796.	0.2	37
13	Changes in gene expression in the rumen and colon epithelia during the dry period through lactation of dairy cows and effects of live yeast supplementation. Journal of Dairy Science, 2018, 101, 2631-2640.	1.4	36
14	Folding of a misfolding-prone Î²-galactosidase in absence of DnaK. Biotechnology and Bioengineering, 2005, 90, 869-875.	1.7	35
15	Bacterial inclusion bodies are cytotoxic in vivo in absence of functional chaperones DnaK or GroEL. Journal of Biotechnology, 2005, 118, 406-412.	1.9	35
16	Engineering nuclear localization signals in modular protein vehicles for gene therapy. Biochemical and Biophysical Research Communications, 2003, 304, 625-631.	1.0	33
17	Neuroprotection from NMDA excitotoxic lesion by Cu/Zn superoxide dismutase gene delivery to the postnatal rat brain by a modular protein vector. BMC Neuroscience, 2006, 7, 35.	0.8	32
18	A new approach to obtain pure and active proteins from Lactococcus lactis protein aggregates. Scientific Reports, 2018, 8, 13917.	1.6	32

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19	The expression of recombinant genes from bacteriophage lambda strong promoters triggers the SOS response inEscherichia coli. , 1998, 60, 551-559.		31
20	Lon and ClpP proteases participate in the physiological disintegration of bacterial inclusion bodies. Journal of Biotechnology, 2005, 119, 163-171.	1.9	31
21	Exploiting viral cell-targeting abilities in a single polypeptide, non-infectious, recombinant vehicle for integrin-mediated DNA delivery and gene expression. , 2000, 68, 689-696.		30
22	Molecular Organization of Proteinâ€“DNA Complexes for Cell-Targeted DNA Delivery. Biochemical and Biophysical Research Communications, 2000, 278, 455-461.	1.0	30
23	Potential of lactic acid bacteria at regulating Escherichia coli infection and inflammation of bovine endometrium. Theriogenology, 2016, 85, 625-637.	0.9	30
24	Pre-calving Intravaginal Administration of Lactic Acid Bacteria Reduces Metritis Prevalence and Regulates Blood Neutrophil Gene Expression After Calving in Dairy Cattle. Frontiers in Veterinary Science, 2018, 5, 135.	0.9	29
25	Insertional protein engineering for analytical molecular sensing. Microbial Cell Factories, 2006, 5, 15.	1.9	26
26	Short communication: The effects of cabergoline administration at dry-off of lactating cows on udder engorgement, milk leakages, and lying behavior. Journal of Dairy Science, 2015, 98, 7097-7101.	1.4	24
27	Nonviral Gene Delivery to the Central Nervous System Based on a Novel Integrin-Targeting Multifunctional Protein. Human Gene Therapy, 2003, 14, 1215-1223.	1.4	23
28	Amyloid-linked cellular toxicity triggered by bacterial inclusion bodies. Biochemical and Biophysical Research Communications, 2007, 355, 637-642.	1.0	22
29	Effects of intravaginal lactic acid bacteria on bovine endometrium: Implications in uterine health. Veterinary Microbiology, 2017, 204, 174-179.	0.8	22
30	A new generation of recombinant polypeptides combines multiple protein domains for effective antimicrobial activity. Microbial Cell Factories, 2020, 19, 122.	1.9	19
31	The Biological Potential Hidden in Inclusion Bodies. Pharmaceutics, 2020, 12, 157.	2.0	19
32	Cell lysis in Escherichia coli cultures stimulates growth and biosynthesis of recombinant proteins in surviving cells. Microbiological Research, 2001, 156, 13-18.	2.5	18
33	RGD domains neuroprotect the immature brain by a glialâ€dependent mechanism. Annals of Neurology, 2007, 62, 251-261.	2.8	18
34	Is calcitonin an active hormone in the onset and prevention of hypocalcemia in dairy cattle?. Journal of Dairy Science, 2016, 99, 3023-3030.	1.4	17
35	Getting value from the waste: recombinant production of a sweet protein by Lactococcus lactis grown on cheese whey. Microbial Cell Factories, 2018, 17, 126.	1.9	16
36	Profiling the allosteric response of an engineered Î²-galactosidase to its effector, anti-HIV antibody. Biochemical and Biophysical Research Communications, 2004, 314, 854-860.	1.0	15

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37	Mammary serum amyloid A3 activates involution of the mammary gland in dairy cows. Journal of Dairy Science, 2014, 97, 7595-7605.	1.4	15
38	Efficient Accommodation of Recombinant, Foot-and-Mouth Disease Virus RGD Peptides to Cell-Surface Integrins. Biochemical and Biophysical Research Communications, 2001, 285, 201-206.	1.0	14
39	High-throughput, functional screening of the anti-HIV-1 humoral response by an enzymatic nanosensor. Molecular Immunology, 2006, 43, 2119-2123.	1.0	14
40	Citrus aurantium flavonoid extract improves concentrate efficiency, animal behavior, and reduces rumen inflammation of Holstein bulls fed high-concentrate diets. Animal Feed Science and Technology, 2019, 258, 114304.	1.1	14
41	Fattening Holstein heifers by feeding high-moisture corn (whole or ground) ad libitum separately from concentrate and straw1. Journal of Animal Science, 2015, 93, 4903-4916.	0.2	12
42	Aggregation-prone peptides modulate activity of bovine interferon gamma released from naturally occurring protein nanoparticles. New Biotechnology, 2020, 57, 11-19.	2.4	11
43	Potential of MMP-9 based nanoparticles at optimizing the cow dry period: pulling apart the effects of MMP-9 and nanoparticles. Scientific Reports, 2020, 10, 11299.	1.6	11
44	Exploring the use of leucine zippers for the generation of a new class of inclusion bodies for pharma and biotechnological applications. Microbial Cell Factories, 2020, 19, 175.	1.9	11
45	Influence of milk processing temperature on growth performance, nitrogen retention, and hindgut's inflammatory status and bacterial populations in a calf model. Journal of Dairy Research, 2017, 84, 355-359.	0.7	10
46	Effect of metritis on endometrium tissue transcriptome during puerperium in Holstein lactating cows. Theriogenology, 2018, 122, 116-123.	0.9	10
47	In Vivo Bactericidal Efficacy of GWH1 Antimicrobial Peptide Displayed on Protein Nanoparticles, a Potential Alternative to Antibiotics. Pharmaceutics, 2020, 12, 1217.	2.0	10
48	Comparison of commercially-available RNA extraction methods for effective bacterial RNA isolation from milk spiked samples. Electronic Journal of Biotechnology, 2010, 13, 0-0.	1.2	9
49	Recombinant Expression of Goat Milk Serum Amyloid A: Preliminary Studies of the Protein and Derived Peptides on Macrophage Phagocytosis. Protein and Peptide Letters, 2012, 19, 299-307.	0.4	9
50	Recombinant Protein-Based Nanoparticles: Elucidating Their Inflammatory Effects In Vivo and Their Potential as a New Therapeutic Format. Pharmaceutics, 2020, 12, 450.	2.0	9
51	Effects of Flavonoids Extracted from Citrus aurantium on Performance, Behavior, and Rumen Gene Expression in Holstein Bulls Fed with High-Concentrate Diets in Pellet Form. Animals, 2021, 11, 1387.	1.0	9
52	Heat identification by 17Î²-estradiol and progesterone quantification in individual raw milk samples by enzyme immunoassay. Electronic Journal of Biotechnology, 2011, 14, .	1.2	8
53	Selecting Subpopulations of High-Quality Protein Conformers among Conformational Mixtures of Recombinant Bovine MMP-9 Solubilized from Inclusion Bodies. International Journal of Molecular Sciences, 2021, 22, 3020.	1.8	8
54	A cell adhesion peptide from foot-and-mouth disease virus can direct cell targeted delivery of a functional enzyme. , 1998, 59, 294-301.		7

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55	Enhanced molecular recognition signal in allosteric biosensing by proper substrate selection. Biotechnology and Bioengineering, 2006, 94, 193-199.	1.7	7
56	New flow-through analytical system based on ion-selective field effect transistors with optimised calcium selective photocurable membrane for bovine serum analysis. Talanta, 2013, 113, 31-35.	2.9	7
57	Consequences of supplying methyl donors during pregnancy on the methylome of the offspring from lactating and non-lactating dairy cattle. PLoS ONE, 2017, 12, e0189581.	1.1	7
58	Distinct chaperone affinity to folding variants of homologous recombinant proteins. Biotechnology Letters, 1999, 21, 531-536.	1.1	6
59	Overexpression of the nuclear factor kappaB inhibitor A20 is neurotoxic after an excitotoxic injury to the immature rat brain. Neurological Research, 2013, 35, 308-319.	0.6	6
60	Exploring the impact of the recombinant Escherichia coli strain on defensins antimicrobial activity: BL21 versus Origami strain. Microbial Cell Factories, 2022, 21, 77.	1.9	6
61	Heat-inactivation of plasmid-encoded CI857 repressor induces gene expression from IndÃ¢Â^Â'lambda prophage in recombinantEscherichia coli. FEMS Microbiology Letters, 1999, 177, 327-334.	0.7	4
62	Short communication: Recombinant mammary serum amyloid A3 as a potential strategy for preventing intramammary infections in dairy cows at dryoff. Journal of Dairy Science, 2020, 103, 3615-3621.	1.4	4
63	Engineering the E. coli Î²-galactosidase for the screening of antiviral protease inhibitors. Biochemical and Biophysical Research Communications, 2005, 329, 453-456.	1.0	3
64	Allosteric molecular sensing of anti-HIV antibodies by an immobilized engineered Î²-galactosidase. Enzyme and Microbial Technology, 2007, 41, 492-497.	1.6	3
65	Nondenaturing Solubilization of Inclusion Bodies from Lactic Acid Bacteria. Methods in Molecular Biology, 2022, 2406, 389-400.	0.4	3
66	Potential of Oral Nanoparticles Containing Cytokines as Intestinal Mucosal Immunostimulants in Pigs: A Pilot Study. Animals, 2022, 12, 1075.	1.0	3
67	Sequence edition of single domains modulates the final immune and antimicrobial potential of a new generation of multidomain recombinant proteins. Scientific Reports, 2021, 11, 23798.	1.6	2
68	Comparative analysis of E. coli inclusion bodies and thermal protein aggregates. Microbial Cell Factories, 2006, 5, P16.	1.9	1
69	The Potential of Metalloproteinase-9 Administration to Accelerate Mammary Involution and Boost the Immune System at Dry-Off. Animals, 2021, 11, 3415.	1.0	1
70	of Inclusion Produced in Bacteria and Yeast. Methods in Molecular Biology, 2022, 2406, 401-416.	0.4	1
71	Cellular toxicity triggered by bacterial inclusion bodies. Microbial Cell Factories, 2006, 5, P9.	1.9	0
72	Title is missing!. Microbial Cell Factories, 2006, 5, P43.	1.9	0

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73	Performance of beta-galactosidase inclusion bodies in enzymatic bioprocesses. Microbial Cell Factories, 2006, 5, P14.	1.9	0
74	Effects of Peptein supplementation on ruminal microbiota and in situ feed degradability in dairy cows. Animal Feed Science and Technology, 2017, 231, 89-96.	1.1	0