Antonio Villaverde

List of Publications by Citations

322 papers	9,227 citations	51 h-index	80 g-index
354 ext. papers	10,270 ext. citations	6.6 avg, IF	6.28 L-index

#	Paper	IF	Citations
322	Microbial factories for recombinant pharmaceuticals. *Microbial Cell Factories*, **2009**, 8, 17	6.4	288
321	Protein quality in bacterial inclusion bodies. *Trends in Biotechnology*, **2006**, 24, 179-85	15.1	271
320	Protein aggregation in recombinant bacteria: biological role of inclusion bodies. *Biotechnology Letters*, **2003**, 25, 1385-95	3	245
319	Protein folding and conformational stress in microbial cells producing recombinant proteins: a host comparative overview. *Microbial Cell Factories*, **2008**, 7, 11	6.4	229
318	Biomedical applications of distally controlled magnetic nanoparticles. *Trends in Biotechnology*, **2009** , 27, 468-76	15.1	226
317	Aggregation as bacterial inclusion bodies does not imply inactivation of enzymes and fluorescent proteins. *Microbial Cell Factories*, **2005**, 4, 27	6.4	217
316	Recombinant pharmaceuticals from microbial cells: a 2015 update. *Microbial Cell Factories*, **2016**, 15, 33	6.4	205
315	Amyloid-like properties of bacterial inclusion bodies. *Journal of Molecular Biology*, **2005**, 347, 1025-37	6.5	191
314	Construction and deconstruction of bacterial inclusion bodies. *Journal of Biotechnology*, **2002**, 96, 3-12	3.7	173
313	The conformational quality of insoluble recombinant proteins is enhanced at low growth temperatures. *Biotechnology and Bioengineering*, **2007**, 96, 1101-6	4.9	152
312	Bacterial inclusion bodies: making gold from waste. *Trends in Biotechnology*, **2012**, 30, 65-70	15.1	138
311	Detoxifying Escherichia coli for endotoxin-free production of recombinant proteins. *Microbial Cell Factories*, **2015**, 14, 57	6.4	129
310	Protein aggregation as bacterial inclusion bodies is reversible. *FEBS Letters*, **2001**, 489, 29-33	3.8	109
309	Coevolution of cells and viruses in a persistent infection of foot-and-mouth disease virus in cell culture. *Journal of Virology*, **1988**, 62, 2050-8	6.6	109
308	Recombinant protein solubility - does more mean better?. *Nature Biotechnology*, **2007**, 25, 718-20	44.5	104
307	Fine architecture of bacterial inclusion bodies. *FEBS Letters*, **2000**, 471, 7-11	3.8	103
306	Unconventional microbial systems for the cost-efficient production of high-quality protein therapeutics. *Biotechnology Advances*, **2013**, 31, 140-53	17.8	99

305	Localization of functional polypeptides in bacterial inclusion bodies. *Applied and Environmental Microbiology*, **2007**, 73, 289-94	4.8	93
304	Bacterial Inclusion Bodies: Discovering Their Better Half. *Trends in Biochemical Sciences*, **2017**, 42, 726-737	10.3	90
303	Localization of chaperones DnaK and GroEL in bacterial inclusion bodies. *Journal of Bacteriology*, **2005**, 187, 3599-601	3.5	90
302	Nanostructured bacterial materials for innovative medicines. *Trends in Microbiology*, **2010**, 18, 423-30	12.4	88
301	Optimized release of recombinant proteins by ultrasonication of E. coli cells. *Biotechnology and Bioengineering*, **1998**, 58, 536-40	4.9	84
300	Divergent genetic control of protein solubility and conformational quality in Escherichia coli. *Journal of Molecular Biology*, **2007**, 374, 195-205	6.5	80
299	Annual acknowledgement of manuscript reviewers. *Microbial Cell Factories*, **2015**, 14, 34	6.4	78
298	Membrane-active peptides for non-viral gene therapy: making the safest easier. *Trends in Biotechnology*, **2008**, 26, 267-75	15.1	77
297	Role of molecular chaperones in inclusion body formation. *FEBS Letters*, **2003**, 537, 215-21	3.8	75
296	In vivo architectonic stability of fully de novo designed protein-only nanoparticles. *ACS Nano*, **2014**, 8, 4166-76	16.7	74
295	Side effects of chaperone gene co-expression in recombinant protein production. *Microbial Cell Factories*, **2010**, 9, 64	6.4	71
294	Protein-Based Therapeutic Killing for Cancer Therapies. *Trends in Biotechnology*, **2018**, 36, 318-335	15.1	71
293	Plasmid maintenance in Escherichia coli recombinant cultures is dramatically, steadily, and specifically influenced by features of the encoded proteins **1998**, 58, 625-632		69
292	Peptide-mediated DNA condensation for non-viral gene therapy. *Biotechnology Advances*, **2009**, 27, 432-8	17.8	66
291	Surface Cell Growth Engineering Assisted by a Novel Bacterial Nanomaterial. *Advanced Materials*, **2009**, 21, 4249-4253	24	64
290	Environmental quality of mussel farms in the Vigo estuary: pollution by PAHs, origin and effects on reproduction. *Environmental Pollution*, **2011**, 159, 250-265	9.3	63
289	Isolation of cell-free bacterial inclusion bodies. *Microbial Cell Factories*, **2010**, 9, 71	6.4	63
288	Functional inclusion bodies produced in bacteria as naturally occurring nanopills for advanced cell therapies. *Advanced Materials*, **2012**, 24, 1742-7	24	62

287	Dynamics of in vivo protein aggregation: building inclusion bodies in recombinant bacteria. *FEMS Microbiology Letters*, **1998**, 169, 9-15	2.9	62
286	The nanoscale properties of bacterial inclusion bodies and their effect on mammalian cell proliferation. *Biomaterials*, **2010**, 31, 5805-12	15.6	60
285	The position of the heterologous domain can influence the solubility and proteolysis of beta-galactosidase fusion proteins in E. coli. *Journal of Biotechnology*, **1996**, 48, 191-200	3.7	59
284	Tunable geometry of bacterial inclusion bodies as substrate materials for tissue engineering. *Nanotechnology*, **2010**, 21, 205101	3.4	58
283	Fine regulation of cI857-controlled gene expression in continuous culture of recombinant Escherichia coli by temperature. *Applied and Environmental Microbiology*, **1993**, 59, 3485-7	4.8	58
282	Biological role of bacterial inclusion bodies: a model for amyloid aggregation. *FEBS Journal*, **2011**, 278, 2419-27	5.7	57
281	Non-amyloidogenic peptide tags for the regulatable self-assembling of protein-only nanoparticles. *Biomaterials*, **2012**, 33, 8714-22	15.6	56
280	Dynamics of in vivo protein aggregation: building inclusion bodies in recombinant bacteria. *FEMS Microbiology Letters*, **1998**, 169, 9-15	2.9	55
279	Towards protein-based viral mimetics for cancer therapies. *Trends in Biotechnology*, **2015**, 33, 253-8	15.1	54
278	Supramolecular organization of protein-releasing functional amyloids solved in bacterial inclusion bodies. *Acta Biomaterialia*, **2013**, 9, 6134-42	10.8	54
277	BBB-targeting, protein-based nanomedicines for drug and nucleic acid delivery to the CNS. *Biotechnology Advances*, **2015**, 33, 277-87	17.8	54
276	Intracellular CXCR4+ cell targeting with T22-empowered protein-only nanoparticles. *International Journal of Nanomedicine*, **2012**, 7, 4533-44	7.3	53
275	Protein nanodisk assembling and intracellular trafficking powered by an arginine-rich (R9) peptide. *Nanomedicine*, **2010**, 5, 259-68	5.6	53
274	Bacterial inclusion bodies are industrially exploitable amyloids. *FEMS Microbiology Reviews*, **2019**, 43, 53-72	15.1	49
273	Bottom-Up Instructive Quality Control in the Biofabrication of Smart Protein Materials. *Advanced Materials*, **2015**, 27, 7816-22	24	47
272	Packaging protein drugs as bacterial inclusion bodies for therapeutic applications. *Microbial Cell Factories*, **2012**, 11, 76	6.4	47
271	Improved mimicry of a foot-and-mouth disease virus antigenic site by a viral peptide displayed on beta-galactosidase surface. *Bio/technology*, **1995**, 13, 801-4		47
270	Selective depletion of metastatic stem cells as therapy for human colorectal cancer. *EMBO Molecular Medicine*, **2018**, 10,	12	47

269	Beta-galactosidase enzymatic activity as a molecular probe to detect specific antibodies. *Journal of Biological Chemistry*, **1996**, 271, 21251-6	5.4	45
268	Modular protein engineering for non-viral gene therapy. *Trends in Biotechnology*, **2004**, 22, 371-7	15.1	43
267	Role of the chaperone DnaK in protein solubility and conformational quality in inclusion body-forming Escherichia coli cells. *FEMS Microbiology Letters*, **2007**, 273, 187-95	2.9	42
266	Self-assembling toxin-based nanoparticles as self-delivered antitumoral drugs. *Journal of Controlled Release*, **2018**, 274, 81-92	11.7	41
265	Engineering of solvent-exposed loops in Escherichia coli beta-galactosidase. *FEBS Letters*, **1998**, 434, 23-7	3.8	41
264	Engineering protein self-assembling in protein-based nanomedicines for drug delivery and gene therapy. *Critical Reviews in Biotechnology*, **2015**, 35, 209-21	9.4	40
263	Production of functional inclusion bodies in endotoxin-free Escherichia coli. *Applied Microbiology and Biotechnology*, **2014**, 98, 9229-38	5.7	40
262	Biological activities of histidine-rich peptides; merging biotechnology and nanomedicine. *Microbial Cell Factories*, **2011**, 10, 101	6.4	40
261	Fixation of mutations at the VP1 gene of foot-and-mouth disease virus. Can quasispecies define a transient molecular clock?. *Gene*, **1991**, 103, 147-53	3.8	40
260	Allosteric enzymes as biosensors for molecular diagnosis. *FEBS Letters*, **2003**, 554, 169-72	3.8	39
259	Functional protein aggregates: just the tip of the iceberg. *Nanomedicine*, **2015**, 10, 2881-91	5.6	37
258	Bioadhesiveness and efficient mechanotransduction stimuli synergistically provided by bacterial inclusion bodies as scaffolds for tissue engineering. *Nanomedicine*, **2012**, 7, 79-93	5.6	37
257	Influence of growth temperature on the production of antibody Fab fragments in different microbes: a host comparative analysis. *Biotechnology Progress*, **2011**, 27, 38-46	2.8	37
256	Peptide-assisted traffic engineering for nonviral gene therapy. *Drug Discovery Today*, **2008**, 13, 1067-74	8.8	36
255	Yield, solubility and conformational quality of soluble proteins are not simultaneously favored in recombinant Escherichia coli. *Biotechnology and Bioengineering*, **2008**, 101, 1353-8	4.9	36
254	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	6.4	36
253	Nanostructured antimicrobial peptides: The last push towards clinics. *Biotechnology Advances*, **2020**, 44, 107603	17.8	36
252	Higher metastatic efficiency of KRas G12V than KRas G13D in a colorectal cancer model. *FASEB Journal*, **2015**, 29, 464-76	0.9	35

251	Assembly of histidine-rich protein materials controlled through divalent cations. *Acta Biomaterialia*, **2019**, 83, 257-264	10.8	35
250	Functional protein-based nanomaterial produced in microorganisms recognized as safe: A new platform for biotechnology. *Acta Biomaterialia*, **2016**, 43, 230-239	10.8	34
249	Limited in vivo proteolysis of aggregated proteins. *Biochemical and Biophysical Research Communications*, **1997**, 237, 325-30	3.4	34
248	Intracellular targeting of CD44+ cells with self-assembling, protein only nanoparticles. *International Journal of Pharmaceutics*, **2014**, 473, 286-95	6.5	33
247	Proteolytic digestion of bacterial inclusion body proteins during dynamic transition between soluble and insoluble forms. *BBA - Proteins and Proteomics*, **1999**, 1434, 170-6		32
246	Selective CXCR4 Cancer Cell Targeting and Potent Antineoplastic Effect by a Nanostructured Version of Recombinant Ricin. *Small*, **2018**, 14, e1800665	11	32
245	Multifunctional nanovesicle-bioactive conjugates prepared by a one-step scalable method using CO2-expanded solvents. *Nano Letters*, **2013**, 13, 3766-74	11.5	31
244	Modular protein engineering in emerging cancer therapies. *Current Pharmaceutical Design*, **2009**, 15, 893-916	3.3	31
243	Folding of a misfolding-prone beta-galactosidase in absence of DnaK. *Biotechnology and Bioengineering*, **2005**, 90, 869-75	4.9	31
242	Galactosidase-A Loaded-Nanoliposomes with Enhanced Enzymatic Activity and Intracellular Penetration. *Advanced Healthcare Materials*, **2016**, 5, 829-40	10.1	31
241	Nanostructured recombinant cytokines: A highly stable alternative to short-lived prophylactics. *Biomaterials*, **2016**, 107, 102-14	15.6	31
240	Cellular uptake and intracellular fate of protein releasing bacterial amyloids in mammalian cells. *Soft Matter*, **2016**, 12, 3451-60	3.6	30
239	Engineering nuclear localization signals in modular protein vehicles for gene therapy. *Biochemical and Biophysical Research Communications*, **2003**, 304, 625-31	3.4	30
238	Engineering regulable Escherichia coli beta-galactosidases as biosensors for anti-HIV antibody detection in human sera. *Journal of Biological Chemistry*, **2001**, 276, 40087-95	5.4	30
237	Evolution of cellular ATP concentration after UV-mediated induction of SOS system in Escherichia coli. *Biochemical and Biophysical Research Communications*, **1983**, 117, 556-61	3.4	30
236	Improving protein delivery of fibroblast growth factor-2 from bacterial inclusion bodies used as cell culture substrates. *Acta Biomaterialia*, **2014**, 10, 1354-9	10.8	29
235	Two-dimensional microscale engineering of protein-based nanoparticles for cell guidance. *ACS Nano*, **2013**, 7, 4774-84	16.7	29
234	The Functional quality of soluble recombinant polypeptides produced in Escherichia coli is defined by a wide conformational spectrum. *Applied and Environmental Microbiology*, **2008**, 74, 7431-3	4.8	29

233	Bacterial inclusion bodies are cytotoxic in vivo in absence of functional chaperones DnaK or GroEL. *Journal of Biotechnology*, **2005**, 118, 406-12	3.7	29
232	Molecular organization of protein-DNA complexes for cell-targeted DNA delivery. *Biochemical and Biophysical Research Communications*, **2000**, 278, 455-61	3.4	29
231	Enhanced production of pL-controlled recombinant proteins and plasmid stability in Escherichia coli RecA+ strains. *Journal of Biotechnology*, **1993**, 29, 299-306	3.7	29
230	Cancer-specific uptake of a liganded protein nanocarrier targeting aggressive CXCR4 colorectal cancer models. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2016**, 12, 1987-1996	6	29
229	Nanostructured toxins for the selective destruction of drug-resistant human CXCR4 colorectal cancer stem cells. *Journal of Controlled Release*, **2020**, 320, 96-104	11.7	28
228	Peptide-Based Nanostructured Materials with Intrinsic Proapoptotic Activities in CXCR4+ Solid Tumors. *Advanced Functional Materials*, **2017**, 27, 1700919	15.6	27
227	Secretion-dependent proteolysis of heterologous protein by recombinant Escherichia coli is connected to an increased activity of the energy-generating dissimilatory pathway **1999**, 66, 61-67		27
226	Functional inclusion bodies produced in the yeast Pichia pastoris. *Microbial Cell Factories*, **2016**, 15, 166	6.4	26
225	Sheltering DNA in self-organizing, protein-only nano-shells as artificial viruses for gene delivery. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 535-41	6	26
224	Recombinant protein materials for bioengineering and nanomedicine. *Nanomedicine*, **2014**, 9, 2817-28	5.6	26
223	The expression of recombinant genes from bacteriophage lambda strong promoters triggers the SOS response in Escherichia coli. *Biotechnology and Bioengineering*, **1998**, 60, 551-9	4.9	26
222	In situ protein folding and activation in bacterial inclusion bodies. *Biotechnology and Bioengineering*, **2008**, 100, 797-802	4.9	26
221	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	3.2	26
220	Exploiting viral cell-targeting abilities in a single polypeptide, non-infectious, recombinant vehicle for integrin-mediated DNA delivery and gene expression. *Biotechnology and Bioengineering*, **2000**, 68, 689-96	4.9	26
219	An Auristatin nanoconjugate targeting CXCR4+ leukemic cells blocks acute myeloid leukemia dissemination. *Journal of Hematology and Oncology*, **2020**, 13, 36	22.4	26
218	Targeting Antitumoral Proteins to Breast Cancer by Local Administration of Functional Inclusion Bodies. *Advanced Science*, **2019**, 6, 1900849	13.6	25
217	A nanostructured bacterial bioscaffold for the sustained bottom-up delivery of protein drugs. *Nanomedicine*, **2013**, 8, 1587-99	5.6	25
216	Lon and ClpP proteases participate in the physiological disintegration of bacterial inclusion bodies. *Journal of Biotechnology*, **2005**, 119, 163-71	3.7	25

215	Engineering Secretory Amyloids for Remote and Highly Selective Destruction of Metastatic Foci. *Advanced Materials*, **2020**, 32, e1907348	24	25
214	A CXCR4-targeted nanocarrier achieves highly selective tumor uptake in diffuse large B-cell lymphoma mouse models. *Haematologica*, **2020**, 105, 741-753	6.6	25
213	Release of targeted protein nanoparticles from functional bacterial amyloids: A death star-like approach. *Journal of Controlled Release*, **2018**, 279, 29-39	11.7	24
212	Rational engineering of single-chain polypeptides into protein-only, BBB-targeted nanoparticles. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2016**, 12, 1241-51	6	24
211	Bacterial mimetics of endocrine secretory granules as immobilized in vivo depots for functional protein drugs. *Scientific Reports*, **2016**, 6, 35765	4.9	24
210	A new approach to obtain pure and active proteins from Lactococcus lactis protein aggregates. *Scientific Reports*, **2018**, 8, 13917	4.9	24
209	Fast electrochemical detection of anti-HIV antibodies: coupling allosteric enzymes and disk microelectrode arrays. *Analytica Chimica Acta*, **2009**, 641, 1-6	6.6	23
208	Insertional protein engineering for analytical molecular sensing. *Microbial Cell Factories*, **2006**, 5, 15	6.4	23
207	3D gene of foot-and-mouth disease virus. Conservation by convergence of average sequences. *Journal of Molecular Biology*, **1988**, 204, 771-6	6.5	23
206	Topographically targeted osteogenesis of mesenchymal stem cells stimulated by inclusion bodies attached to polycaprolactone surfaces. *Nanomedicine*, **2014**, 9, 207-20	5.6	21
205	Recombinant Fab expression and secretion in Escherichia coli continuous culture at medium cell densities: Influence of temperature. *Process Biochemistry*, **2012**, 47, 446-452	4.8	21
204	Distinct mechanisms of antibody-mediated enzymatic reactivation in beta-galactosidase molecular sensors. *FEBS Letters*, **1998**, 438, 267-71	3.8	21
203	An optimized ultrasonication protocol for bacterial cell disruption and recovery of β-galactosidase fusion proteins. *Biotechnology Letters*, **1994**, 8, 509		21
202	Uses of beta-galactosidase tag in on-line monitoring production of fusion proteins and gene expression in Escherichia coli. *Enzyme and Microbial Technology*, **1993**, 15, 66-71	3.8	21
201	Artificial Inclusion Bodies for Clinical Development. *Advanced Science*, **2020**, 7, 1902420	13.6	21
200	Engineering tumor cell targeting in nanoscale amyloidal materials. *Nanotechnology*, **2017**, 28, 015102	3.4	20
199	Expanding the recombinant protein quality in Lactococcus lactis. *Microbial Cell Factories*, **2014**, 13, 167	6.4	20
198	Enhanced response to antibody binding in engineered beta-galactosidase enzymatic sensors. *BBA - Proteins and Proteomics*, **2002**, 1596, 212-24		20

197	Nonviral gene delivery to the central nervous system based on a novel integrin-targeting multifunctional protein. *Human Gene Therapy*, **2003**, 14, 1215-23	4.8	20
196	Conformational flexibility in a highly mobile protein loop of foot-and-mouth disease virus: distinct structural requirements for integrin and antibody binding. *Journal of Molecular Biology*, **1998**, 283, 331-8	6.5	20
195	A recombinant, arginine-glycine-aspartic acid (RGD) motif from foot-and-mouth disease virus binds mammalian cells through vitronectin and, to a lower extent, fibronectin receptors. *Gene*, **1996**, 180, 101-6	3.8	20
194	ATP hydrolysis during SOS induction in Escherichia coli. *Journal of Bacteriology*, **1986**, 167, 1055-7	3.5	20
193	Selective delivery of T22-PE24-H6 to CXCR4 diffuse large B-cell lymphoma cells leads to wide therapeutic index in a disseminated mouse model. *Theranostics*, **2020**, 10, 5169-5180	12.1	20
192	Functionalization of 3D scaffolds with protein-releasing biomaterials for intracellular delivery. *Journal of Controlled Release*, **2013**, 171, 63-72	11.7	19
191	Protein-only, antimicrobial peptide-containing recombinant nanoparticles with inherent built-in antibacterial activity. *Acta Biomaterialia*, **2017**, 60, 256-263	10.8	19
190	Internalization and kinetics of nuclear migration of protein-only, arginine-rich nanoparticles. *Biomaterials*, **2010**, 31, 9333-9	15.6	19
189	Amyloid-linked cellular toxicity triggered by bacterial inclusion bodies. *Biochemical and Biophysical Research Communications*, **2007**, 355, 637-42	3.4	19
188	Control of Escherichia coli growth rate through cell density. *Microbiological Research*, **2002**, 157, 257-65	5.3	19
187	Intrinsic functional and architectonic heterogeneity of tumor-targeted protein nanoparticles. *Nanoscale*, **2017**, 9, 6427-6435	7.7	18
186	Rehosting of bacterial chaperones for high-quality protein production. *Applied and Environmental Microbiology*, **2009**, 75, 7850-4	4.8	18
185	Molecular mechanisms for antibody-mediated modulation of peptide-displaying enzyme sensors. *Biochemical and Biophysical Research Communications*, **2000**, 275, 360-4	3.4	18
184	Molecular cloning and expression of the VP1 gene of foot-and-mouth disease virus C1 in E. coli: effect on bacterial cell viability. *Applied Microbiology and Biotechnology*, **1991**, 35, 788-92	5.7	18
183	Integrating mechanical and biological control of cell proliferation through bioinspired multieffector materials. *Nanomedicine*, **2015**, 10, 873-91	5.6	17
182	Strategies for the production of difficult-to-express full-length eukaryotic proteins using microbial cell factories: production of human alpha-galactosidase A. *Applied Microbiology and Biotechnology*, **2015**, 99, 5863-74	5.7	17
181	Friendly production of bacterial inclusion bodies. *Korean Journal of Chemical Engineering*, **2010**, 27, 385-389	2.8	17
180	Insertion of a 27 amino acid viral peptide in different zones of Escherichia coli beta-galactosidase: effects on the enzyme activity. *FEMS Microbiology Letters*, **1994**, 123, 107-12	2.9	17

179	Functional recruitment for drug delivery through protein-based nanotechnologies. *Nanomedicine*, **2016**, 11, 1333-6	5.6	17
178	RGD-based cell ligands for cell-targeted drug delivery act as potent trophic factors. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2012**, 8, 1263-6	6	16
177	Divalent Cations: A Molecular Glue for Protein Materials. *Trends in Biochemical Sciences*, **2020**, 45, 992-1003	10.3	16
176	Highly Versatile Polyelectrolyte Complexes for Improving the Enzyme Replacement Therapy of Lysosomal Storage Disorders. *ACS Applied Materials & Interfaces*, **2016**, 8, 25741-25752	9.5	16
175	Conformational Conversion during Controlled Oligomerization into Nonamylogenic Protein Nanoparticles. *Biomacromolecules*, **2018**, 19, 3788-3797	6.9	15
174	Overexpression of the immunoreceptor CD300f has a neuroprotective role in a model of acute brain injury. *Brain Pathology*, **2012**, 22, 318-28	6	15
173	Inclusion bodies of fuculose-1-phosphate aldolase as stable and reusable biocatalysts. *Biotechnology Progress*, **2012**, 28, 421-7	2.8	15
172	RGD domains neuroprotect the immature brain by a glial-dependent mechanism. *Annals of Neurology*, **2007**, 62, 251-61	9.4	15
171	Profiling the allosteric response of an engineered beta-galactosidase to its effector, anti-HIV antibody. *Biochemical and Biophysical Research Communications*, **2004**, 314, 854-60	3.4	15
170	Activated RecA protein may induce expression of a gene that is not controlled by the LexA repressor and whose function is required for mutagenesis and repair of UV-irradiated bacteriophage lambda. *Journal of Bacteriology*, **1987**, 169, 4816-21	3.5	15
169	Induction of the SOS response by hydroxyurea in Escherichia coli K12. *Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis*, **1987**, 192, 105-8		15
168	Conformational and functional variants of CD44-targeted protein nanoparticles bio-produced in bacteria. *Biofabrication*, **2016**, 8, 025001	10.5	15
167	A novel bio-functional material based on mammalian cell aggresomes. *Applied Microbiology and Biotechnology*, **2015**, 99, 7079-88	5.7	14
166	High-throughput, functional screening of the anti-HIV-1 humoral response by an enzymatic nanosensor. *Molecular Immunology*, **2006**, 43, 2119-23	4.3	14
165	Cell lysis in Escherichia coli cultures stimulates growth and biosynthesis of recombinant proteins in surviving cells. *Microbiological Research*, **2001**, 156, 13-8	5.3	14
164	In situ proteolytic digestion of inclusion body polypeptides occurs as a cascade process. *Biochemical and Biophysical Research Communications*, **2001**, 282, 436-41	3.4	14
163	Ammonium-mediated reduction of plasmid copy number and recombinant gene expression in Escherichia coli. *Biotechnology Progress*, **1994**, 10, 648-51	2.8	14
162	Protein-driven nanomedicines in oncotherapy. *Current Opinion in Pharmacology*, **2019**, 47, 1-7	5.1	13

161	The Biological Potential Hidden in Inclusion Bodies. *Pharmaceutics*, **2020**, 12,	6.4	13
160	Integrated approach to produce a recombinant, His-tagged human □galactosidase A in mammalian cells. *Biotechnology Progress*, **2011**, 27, 1206-17	2.8	13
159	Efficient accommodation of recombinant, foot-and-mouth disease virus RGD peptides to cell-surface integrins. *Biochemical and Biophysical Research Communications*, **2001**, 285, 201-6	3.4	13
158	Complex Particulate Biomaterials as Immunostimulant-Delivery Platforms. *PLoS ONE*, **2016**, 11, e0164073	3.7	13
157	Fluorescent Dye Labeling Changes the Biodistribution of Tumor-Targeted Nanoparticles. *Pharmaceutics*, **2020**, 12,	6.4	13
156	Engineering multifunctional protein nanoparticles by in vitro disassembling and reassembling of heterologous building blocks. *Nanotechnology*, **2017**, 28, 505102	3.4	12
155	Structural and functional features of self-assembling protein nanoparticles produced in endotoxin-free Escherichia coli. *Microbial Cell Factories*, **2016**, 15, 59	6.4	12
154	Polylinker-encoded peptides can confer toxicity to recombinant proteins produced in Escherichia coli. *Biotechnology Progress*, **1996**, 12, 723-7	2.8	12
153	Nanoparticulate architecture of protein-based artificial viruses is supported by protein-DNA interactions. *Nanomedicine*, **2011**, 6, 1047-61	5.6	11
152	Secretion-dependent proteolysis of recombinant proteins is associated with inhibition of cell growth in Escherichia coli. *Biotechnology Letters*, **1997**, 19, 373-378	3	11
151	The impact of dnaKJ overexpression on recombinant protein solubility results from antagonistic effects on the control of protein quality. *Biotechnology Letters*, **2004**, 26, 595-601	3	11
150	Variable specific activity ofEscherichia coli?-galactosidase in bacterial cells. *Biotechnology and Bioengineering*, **2001**, 72, 255-260	4.9	11
149	Prediction of transport properties for Lennard-Jones fluids and their binary mixtures using the effective-diameter hard-sphere kinetic theory. *Molecular Physics*, **1991**, 74, 1315-1334	1.7	11
148	Bacterial inclusion body purification. *Methods in Molecular Biology*, **2015**, 1258, 293-305	1.4	11
147	Endosomal escape of protein nanoparticles engineered through humanized histidine-rich peptides. *Science China Materials*, **2020**, 63, 644-653	7.1	11
146	Enzymatic characterization of highly stable human alpha-galactosidase A displayed on magnetic particles. *Biochemical Engineering Journal*, **2012**, 67, 20-27	4.2	10
145	Protein aggregated into bacterial inclusion bodies does not result in protection from proteolytic digestion. *Biotechnology Letters*, **2002**, 24, 1939-1944	3	10
144	Engineering a Nanostructured Nucleolin-Binding Peptide for Intracellular Drug Delivery in Triple-Negative Breast Cancer Stem Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 5381-5388	9.5	10

143	Release of functional fibroblast growth factor-2 from artificial inclusion bodies. *Journal of Controlled Release*, **2020**, 327, 61-69	11.7	10
142	CXCR4(+)-targeted protein nanoparticles produced in the food-grade bacterium Lactococcus lactis. *Nanomedicine*, **2016**, 11, 2387-98	5.6	10
141	The fusogenic peptide HA2 impairs selectivity of CXCR4-targeted protein nanoparticles. *Chemical Communications*, **2017**, 53, 4565-4568	5.8	9
140	Collaborative membrane activity and receptor-dependent tumor cell targeting for precise nanoparticle delivery in CXCR4 colorectal cancer. *Acta Biomaterialia*, **2019**, 99, 426-432	10.8	9
139	Engineering a recombinant chlorotoxin as cell-targeted cytotoxic nanoparticles. *Science China Materials*, **2019**, 62, 892-898	7.1	9
138	A refined cocktailing of pro-apoptotic nanoparticles boosts anti-tumor activity. *Acta Biomaterialia*, **2020**, 113, 584-596	10.8	9
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136	Viral spread within ageing bacterial populations. *Gene*, **1997**, 202, 147-9	3.8	9
135	Insertional mutagenesis in the tailspike protein of bacteriophage P22. *Biochemical and Biophysical Research Communications*, **1998**, 244, 428-33	3.4	9
134	Tolerance of Escherichia coli beta-galactosidase C-terminus to different-sized fusions. *Biotechnology and Bioengineering*, **1999**, 64, 644-9	4.9	9
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