Anton Middelberg

List of Publications by Year
in descending order

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37 papers	714 citations	566801 15 h-index	552369 26 g-index
40 all docs	40 docs citations	40 times ranked	963 citing authors

#	Article	IF	Citations
1	The mechanical properties of Saccharomyces cerevisiae. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 9871-9874.	3.3	179
2	Peptide interfacial adsorption is kinetically limited by the thermodynamic stability of self association. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 5054-5059.	3.3	56
3	The interfacial structure and Young's modulus of peptide films having switchable mechanical properties. Journal of the Royal Society Interface, 2008, 5, 47-54.	1.5	43
4	Phosphorylated human galectin-3: Facile large-scale preparation of active lectin and detection of structural changes by CD spectroscopy. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 716-722.	1.1	36
5	Encapsulation of DNA and non-viral protein changes the structure of murine polyomavirus virus-like particles. Archives of Virology, 2008, 153, 2027-2039.	0.9	35
6	Receptorâ€Specific Delivery of Protein Antigen to Dendritic Cells by a Nanoemulsion Formed Using Topâ€Down Nonâ€Covalent Click Selfâ€Assembly. Small, 2013, 9, 3736-3742.	5.2	29
7	Analysis of MonoPEGylated Human Galectin-2 by Small-Angle X-ray and Neutron Scattering: Concentration Dependence of PEG Conformation in the Conjugate. Biomacromolecules, 2010, 11, 3504-3510.	2.6	24
8	The production of human papillomavirus type 16 L1 vaccine product from Escherichia coli inclusion bodies. Bioprocess and Biosystems Engineering, 2002, 25, 121-128.	1.7	22
9	Influence of alternating current electrokinetic forces and torque on the elongation of immobilized DNA. Journal of Applied Physics, 2005, 97, 014702.	1.1	21
10	Influence of broth dilution on the disruption of Escherichia coli. Biotechnology Letters, 1995, 9, 759-762.	0.5	20
11	High-throughput process development of an alternative platform for the production of virus-like particles in Escherichia coli. Journal of Biotechnology, 2016, 219, 7-19.	1.9	20
12	Expression and purification of a nanostructure-forming peptide. Journal of Biotechnology, 2008, 135, 85-91.	1.9	19
13	Microbial bioâ€production of a recombinant stimuliâ€responsive biosurfactant. Biotechnology and Bioengineering, 2009, 102, 176-187.	1.7	18
14	High-sensitivity colorimetric detection of DNA hybridization on a gold surface with high spatial resolution. Nanotechnology, 2003, 14, 7-10.	1.3	17
15	Influence of the Thiol Position on the Attachment and Subsequent Hybridization of Thiolated DNA on Gold Surfaces. Langmuir, 2004, 20, 1527-1530.	1.6	17
16	The economics of inclusion body processing. Bioprocess and Biosystems Engineering, 2006, 29, 73-90.	1.7	15
17	Quantifying transport within a porous medium over a hierarchy of length scales. Physics of Fluids, 2006, 18, 033102.	1.6	15
18	The chromatographyâ€free release, isolation and purification of recombinant peptide for fibril selfâ€assembly. Biotechnology and Bioengineering, 2009, 104, 973-985.	1.7	15

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19	Characterisation of the shrinkage of calcium alginate gel membrane with immobilised Lactobacillus rhamnosus. Applied Microbiology and Biotechnology, 2000, 54, 28-32.	1.7	12
20	Quantitative magnetic resonance imaging of urea and lysozyme in protein chromatography. Journal of Chromatography A, 2004, 1033, 311-319.	1.8	12
21	A Simplified Model for the Disruption of Escherichia coli: The Effect of Cell Septation. Biotechnology Progress, 1994, 10, 109-113.	1.3	11
22	Dielectrophoretic manipulation of surface-bound DNA. IET Nanobiotechnology, 2003, 150, 54.	2.1	10
23	Electron Transfer of Plurimodified DNA SAMs. Langmuir, 2007, 23, 8264-8271.	1.6	10
24	Beyond Disease, How Biomedical Engineering Can Improve Global Health. Science Translational Medicine, 2014, 6, 266fs48.	5.8	10
25	Insert engineering and solubility screening improves recovery of virusâ€like particle subunits displaying hydrophobic epitopes. Protein Science, 2015, 24, 1820-1828.	3.1	8
26	Comparative evaluation of integrated purification pathways for bacterial modular polyomavirus major capsid protein VP1 to produce virus-like particles using high throughput process technologies. Journal of Chromatography A, 2021, 1639, 461924.	1.8	6
27	Virusâ€like particle preparation is improved by control over capsomereâ€DNA interactions during chromatographic purification. Biotechnology and Bioengineering, 2021, 118, 1688-1701.	1.7	6
28	An integrated and continuous downstream process for microbial virusâ€like particle vaccine biomanufacture. Biotechnology and Bioengineering, 2022, 119, 2122-2133.	1.7	6
29	Stability of Engineered Ferritin Nanovaccines Investigated by Combined Molecular Simulation and Experiments. Journal of Physical Chemistry B, 2021, 125, 3830-3842.	1.2	5
30	Immunogenicity and Vaccine Efficacy Boosted by Engineering Human Heavy Chain Ferritin and Chimeric Hepatitis B Virus Core Nanoparticles. ACS Applied Bio Materials, 2021, 4, 7147-7156.	2.3	5
31	Quantification of solid cell material by detection of membrane-associated proteins and peptidoglycan. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 807, 111-119.	1.2	2
32	Processing and in vitro Assembly of Virus Like Particle Nanostructures. , 2006, , .		1
33	Using nano-structured interfacial peptide films to create stimuli-responsive foams and emulsions. , 2006, , .		0
34	Terahertz time-domain spectroscopy of peptides in solution. , 2009, , .		0
35	Drug Delivery: Receptor-Specific Delivery of Protein Antigen to Dendritic Cells by a Nanoemulsion Formed Using Top-Down Non-Covalent Click Self-Assembly (Small 22/2013). Small, 2013, 9, 3735-3735.	5.2	0
36	To our readers: Important notice. Vaccine, 2020, 38, 5563.	1.7	0

#	Article	IF	Citations
37	Front Cover Image, Volume 118, Number 4, April 2021. Biotechnology and Bioengineering, 2021, 118, i.	1.7	0