George Georgiou

List of Publications by Year
in descending order

196 papers	20,852 citations	10650 74 h-index	13274 135 g-index
204 all docs	204 docs citations	204 times ranked	24443 citing authors

#	Article	IF	Citations
1	Tryptophan depletion results in tryptophan-to-phenylalanine substitutants. Nature, 2022, 603, 721-727.	13.7	47
2	Improving Antibody Therapeutics by Manipulating the Fc Domain: Immunological and Structural Considerations. Annual Review of Biomedical Engineering, 2022, 24, 249-274.	5.7	20
3	Leveraging intrinsic flexibility to engineer enhanced enzyme catalytic activity. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	14
4	Hypersensitivity to ferroptosis in chromophobe RCC is mediated by a glutathione metabolic dependency and cystine import via solute carrier family 7 member 11. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	13
5	Combinatorial Approaches to Enhance DNA Damage following Enzyme-Mediated Depletion of L-Cys for Treatment of Pancreatic Cancer. Molecular Therapy, 2021, 29, 775-787.	3.7	8
6	YESS 2.0, a Tunable Platform for Enzyme Evolution, Yields Highly Active TEV Protease Variants. ACS Synthetic Biology, 2021, 10, 63-71.	1.9	24
7	Prevalent, protective, and convergent IgG recognition of SARS-CoV-2 non-RBD spike epitopes. Science, 2021, 372, 1108-1112.	6.0	210
8	A Prevalent Focused Human Antibody Response to the Influenza Virus Hemagglutinin Head Interface. MBio, 2021, 12, e0114421.	1.8	17
9	Influenza vaccination in the elderly boosts antibodies against conserved viral proteins and egg-produced glycans. Journal of Clinical Investigation, 2021, 131, .	3.9	12
10	IgG Immune Complexes Inhibit NaÃ¯ve T Cell Proliferation and Suppress Effector Function in Cytotoxic T Cells. Frontiers in Immunology, 2021, 12, 713704.	2.2	3
11	Determinants governing T cell receptor Î±/Î²-chain pairing in repertoire formation of identical twins. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 532-540.	3.3	42
12	Computerâ€based engineering of thermostabilized antibody fragments. AIChE Journal, 2020, 66, e16864.	1.8	12
13	Conformational Dynamics Contribute to Substrate Selectivity and Catalysis in Human Kynureninase. ACS Chemical Biology, 2020, 15, 3159-3166.	1.6	6
14	Disulfide stabilization of human norovirus GI.1 virus-like particles focuses immune response toward blockade epitopes. Npj Vaccines, 2020, 5, 110.	2.9	6
15	Cysteine depletion induces pancreatic tumor ferroptosis in mice. Science, 2020, 368, 85-89.	6.0	692
16	Tumor-associated myeloid cells provide critical support for T-ALL. Blood, 2020, 136, 1837-1850.	0.6	16
17	A facile technology for the high-throughput sequencing of the paired VH:VL and TCRÎ²:TCRÎ± repertoires. Science Advances, 2020, 6, eaay9093.	4.7	18
18	Plasmacytoid Dendritic Cells and Type I Interferon Promote Extrafollicular B Cell Responses to Extracellular Self-DNA. Immunity, 2020, 52, 1022-1038.e7.	6.6	109

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19	Enzyme-mediated depletion of serum <scp>l</scp> -Met abrogates prostate cancer growth via multiple mechanisms without evidence of systemic toxicity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13000-13011.	3.3	27
20	Rapid Screen for Tyrosine Kinase Inhibitor Resistance Mutations and Substrate Specificity. ACS Chemical Biology, 2019, 14, 1888-1895.	1.6	8
21	An engineered human Fc domain that behaves like a pH-toggle switch for ultra-long circulation persistence. Nature Communications, 2019, 10, 5031.	5.8	49
22	Radiotherapy and Immunotherapy Promote Tumoral Lipid Oxidation and Ferroptosis via Synergistic Repression of SLC7A11. Cancer Discovery, 2019, 9, 1673-1685.	7.7	566
23	Sera Antibody Repertoire Analyses Reveal Mechanisms of Broad and Pandemic Strain Neutralizing Responses after Human Norovirus Vaccination. Immunity, 2019, 50, 1530-1541.e8.	6.6	71
24	Enzyme-mediated depletion of l-cyst(e)ine synergizes with thioredoxin reductase inhibition for suppression of pancreatic tumor growth. Npj Precision Oncology, 2019, 3, 16.	2.3	28
25	An Engineered Human Fc variant With Exquisite Selectivity for FcÎ³RIIIaV158 Reveals That Ligation of FcÎ³RIIIa Mediates Potent Antibody Dependent Cellular Phagocytosis With GM-CSF-Differentiated Macrophages. Frontiers in Immunology, 2019, 10, 562.	2.2	17
26	CD8+ T cells regulate tumour ferroptosis during cancer immunotherapy. Nature, 2019, 569, 270-274.	13.7	1,528
27	Longitudinal Analysis Reveals Early Development of Three MPER-Directed Neutralizing Antibody Lineages from an HIV-1-Infected Individual. Immunity, 2019, 50, 677-691.e13.	6.6	77
28	Persistent Antibody Clonotypes Dominate the Serum Response to Influenza over Multiple Years and Repeated Vaccinations. Cell Host and Microbe, 2019, 25, 367-376.e5.	5.1	93
29	Influenza Infection in Humans Induces Broadly Cross-Reactive and Protective Neuraminidase-Reactive Antibodies. Cell, 2018, 173, 417-429.e10.	13.5	295
30	Identification of tumor-reactive B cells and systemic IgG in breast cancer based on clonal frequency in the sentinel lymph node. Cancer Immunology, Immunotherapy, 2018, 67, 729-738.	2.0	42
31	Functional interrogation and mining of natively paired human VH:VL antibody repertoires. Nature Biotechnology, 2018, 36, 152-155.	9.4	109
32	Sequencing HIV-neutralizing antibody exons and introns reveals detailed aspects of lineage maturation. Nature Communications, 2018, 9, 4136.	5.8	11
33	High-affinity IgA against microbial glycans. Nature Immunology, 2018, 19, 514-515.	7.0	1
34	Reversal of indoleamine 2,3-dioxygenaseâ€"mediated cancer immune suppression by systemic kynurenine depletion with a therapeutic enzyme. Nature Biotechnology, 2018, 36, 758-764.	9.4	201
35	Systematic Analysis of Monoclonal Antibodies against Ebola Virus GP Defines Features that Contribute to Protection. Cell, 2018, 174, 938-952.e13.	13.5	173
36	Dynamics of Lâ€Kynureninase Orthologs during Catalysis. FASEB Journal, 2018, 32, 527.13.	0.2	0

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37	Low CD21 expression defines a population of recent germinal center graduates primed for plasma cell differentiation. Science Immunology, 2017, 2, .	5.6	203
38	Potent and broad HIV-neutralizing antibodies in memory B cells and plasma. Science Immunology, 2017, 2, .	5.6	119
39	Middle-Down 193-nm Ultraviolet Photodissociation for Unambiguous Antibody Identification and its Implications for Immunoproteomic Analysis. Analytical Chemistry, 2017, 89, 6498-6504.	3.2	13
40	IgG Fc domains that bind C1q but not effector FcÎ³ receptors delineate the importance of complement-mediated effector functions. Nature Immunology, 2017, 18, 889-898.	7.0	122
41	Profiling Protease Specificity: Combining Yeast ER Sequestration Screening (YESS) with Next Generation Sequencing. ACS Chemical Biology, 2017, 12, 510-518.	1.6	30
42	Mapping the secrets of the antibody pool. Nature Biotechnology, 2017, 35, 921-922.	9.4	3
43	Increased cathepsin S in Prdm1â˜’/â˜’ dendritic cells alters the TFH cell repertoire and contributes to lupus. Nature Immunology, 2017, 18, 1016-1024.	7.0	86
44	Systemic depletion of L-cyst(e)ine with cyst(e)inase increases reactive oxygen species and suppresses tumor growth. Nature Medicine, 2017, 23, 120-127.	15.2	413
45	Temporal stability and molecular persistence of the bone marrow plasma cell antibody repertoire. Nature Communications, 2016, 7, 13838.	5.8	11
46	Discovery of high affinity anti-ricin antibodies by B cell receptor sequencing and by yeast display of combinatorial V_H:V_Llibraries from immunized animals. MAbs, 2016, 8, 1035-1044.	2.6	29
47	A missense mutation inASRGL1is involved in causing autosomal recessive retinal degeneration. Human Molecular Genetics, 2016, 25, ddw113.	1.4	16
48	Large-scale sequence and structural comparisons of human naive and antigen-experienced antibody repertoires. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2636-45.	3.3	179
49	Influenza immunization elicits antibodies specific for an egg-adapted vaccine strain. Nature Medicine, 2016, 22, 1465-1469.	15.2	104
50	Molecular-level analysis of the serum antibody repertoire in young adults before and after seasonal influenza vaccination. Nature Medicine, 2016, 22, 1456-1464.	15.2	271
51	Subtype-specific addiction of the activated B-cell subset of diffuse large B-cell lymphoma to FOXP1. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E577-E586.	3.3	36
52	Immunoglobulin isotype knowledge and application to Fc engineering. Current Opinion in Immunology, 2016, 40, 62-69.	2.4	61
53	Ultra-high-throughput sequencing of the immune receptor repertoire from millions of lymphocytes. Nature Protocols, 2016, 11, 429-442.	5.5	140
54	Structures of HIV-1 Env V1V2 with broadly neutralizing antibodies reveal commonalities that enable vaccine design. Nature Structural and Molecular Biology, 2016, 23, 81-90.	3.6	162

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55	Handmade microfluidic device for biochemical applications in emulsion. Journal of Bioscience and Bioengineering, 2016, 121, 471-476.	1.1	3
56	Facile Discovery of a Diverse Panel of Anti-Ebola Virus Antibodies by Immune Repertoire Mining. Scientific Reports, 2015, 5, 13926.	1.6	47
57	An Alternate Pathway of Arsenate Resistance in <i>E. coli</i> Mediated by the Glutathione S-Transferase GstB. ACS Chemical Biology, 2015, 10, 875-882.	1.6	20
58	Serology in the 21st century: the molecular-level analysis of the serum antibody repertoire. Current Opinion in Immunology, 2015, 35, 89-97.	2.4	80
59	Human recombinant arginase enzyme reduces plasma arginine in mouse models of arginase deficiency. Human Molecular Genetics, 2015, 24, 6417-6427.	1.4	40
60	Yeast Endoplasmic Reticulum Sequestration Screening for the Engineering of Proteases from Libraries Expressed in Yeast. Methods in Molecular Biology, 2015, 1319, 81-93.	0.4	14
61	Computational and Functional Analysis of the Virus-Receptor Interface Reveals Host Range Trade-Offs in New World Arenaviruses. Journal of Virology, 2015, 89, 11643-11653.	1.5	15
62	In-depth determination and analysis of the human paired heavy- and light-chain antibody repertoire. Nature Medicine, 2015, 21, 86-91.	15.2	345
63	Next-generation sequencing and protein mass spectrometry for the comprehensive analysis of human cellular and serum antibody repertoires. Current Opinion in Chemical Biology, 2015, 24, 112-120.	2.8	76
64	Fine-tuning citrate synthase flux potentiates and refines metabolic innovation in the Lenski evolution experiment. ELife, 2015, 4, .	2.8	79
65	Systematic Characterization and Comparative Analysis of the Rabbit Immunoglobulin Repertoire. PLoS ONE, 2014, 9, e101322.	1.1	61
66	Identification and characterization of the constituent human serum antibodies elicited by vaccination. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2259-2264.	3.3	238
67	IgGA: A â€œCross-Isotypeâ€•Engineered Human Fc Antibody Domain that Displays Both IgG-like and IgA-like Effector Functions. Chemistry and Biology, 2014, 21, 1603-1609.	6.2	55
68	Differences in the Composition of the Human Antibody Repertoire by B Cell Subsets in the Blood. Frontiers in Immunology, 2014, 5, 96.	2.2	62
69	Developmental pathway for potent V1V2-directed HIV-neutralizing antibodies. Nature, 2014, 509, 55-62.	13.7	681
70	The promise and challenge of high-throughput sequencing of the antibody repertoire. Nature Biotechnology, 2014, 32, 158-168.	9.4	633
71	Proteomic Identification of Monoclonal Antibodies from Serum. Analytical Chemistry, 2014, 86, 4758-4766.	3.2	69
72	Antibody Fc engineering improves frequency and promotes kinetic boosting of serial killing mediated by NK cells. Blood, 2014, 124, 3241-3249.	0.6	85

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73	Antibody-mediates inhibition of human C1s and the classical complement pathway. Immunobiology, 2013, 218, 1041-1048.	0.8	4
74	High-throughput sequencing of the paired human immunoglobulin heavy and light chain repertoire. Nature Biotechnology, 2013, 31, 166-169.	9.4	401
75	GFP Reporter Screens for the Engineering of Amino Acid Degrading Enzymes from Libraries Expressed in Bacteria. Methods in Molecular Biology, 2013, 978, 31-44.	0.4	1
76	Effective Phagocytosis of Low Her2 Tumor Cell Lines with Engineered, Aglycosylated IgG Displaying High FcÎ³RIIa Affinity and Selectivity. ACS Chemical Biology, 2013, 8, 368-375.	1.6	61
77	Engineering of TEV protease variants by yeast ER sequestration screening (YESS) of combinatorial libraries. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7229-7234.	3.3	105
78	Molecular deconvolution of the monoclonal antibodies that comprise the polyclonal serum response. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2993-2998.	3.3	127
79	Multi-copy genes that enhance the yield of mammalian G protein-coupled receptors in Escherichia coli. Metabolic Engineering, 2012, 14, 591-602.	3.6	26
80	Revisiting the Role of Glycosylation in the Structure of Human IgG Fc. ACS Chemical Biology, 2012, 7, 1596-1602.	1.6	128
81	SCHEMA-Designed Variants of Human Arginase I and II Reveal Sequence Elements Important to Stability and Catalysis. ACS Synthetic Biology, 2012, 1, 221-228.	1.9	52
82	Antibody Repertoires in Humanized NOD-scid-IL2RÎ³null Mice and Human B Cells Reveals Human-Like Diversification and Tolerance Checkpoints in the Mouse. PLoS ONE, 2012, 7, e35497.	1.1	77
83	Directed Evolution of Highly Selective Proteases by Using a Novel FACSâ€Based Screen that Capitalizes on the p53 Regulator MDM2. ChemBioChem, 2012, 13, 649-653.	1.3	26
84	Strategies for optimizing the serum persistence of engineered human arginase I for cancer therapy. Journal of Controlled Release, 2012, 158, 171-179.	4.8	23
85	Engineering Anti-AML Antibodies for Improved NK Cell ADCC. Blood, 2012, 120, 3629-3629.	0.6	2
86	The Problem of Expression of Multidisulfide Bonded Recombinant Proteins in E. coli. , 2011, , 183-215.		0
87	Bypassing glycosylation: engineering aglycosylated full-length IgG antibodies for human therapy. Current Opinion in Biotechnology, 2011, 22, 858-867.	3.3	88
88	Systems analysis of adaptive immunity by utilization of high-throughput technologies. Current Opinion in Biotechnology, 2011, 22, 584-589.	3.3	25
89	Strain engineering for improved expression of recombinant proteins in bacteria. Microbial Cell Factories, 2011, 10, 32.	1.9	160
90	Comprehensive engineering of Escherichia coli for enhanced expression of IgG antibodies. Metabolic Engineering, 2011, 13, 241-251.	3.6	79

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91	Therapeutic enzyme deimmunization by combinatorial T-cell epitope removal using neutral drift. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1272-1277.	3.3	114
92	Enrichment of Escherichia coli spheroplasts displaying scFv antibodies specific for antigens expressed on the human cell surface. Applied Microbiology and Biotechnology, 2010, 88, 1385-1391.	1.7	9
93	Rapid construction and characterization of synthetic antibody libraries without DNA amplification. Biotechnology and Bioengineering, 2010, 106, 347-357.	1.7	30
94	Efficient expression and purification of human aglycosylated FcÎ³ receptors in <i>Escherichia coli</i>. Biotechnology and Bioengineering, 2010, 107, 21-30.	1.7	15
95	Selection of fullâ€length IgGs by tandem display on filamentous phage particles and <i>Escherichiaâ€ƒcoli</i> fluorescenceâ€activated cell sorting screening. FEBS Journal, 2010, 277, 2291-2303.	2.2	40
96	Monoclonal antibodies isolated without screening by analyzing the variable-gene repertoire of plasma cells. Nature Biotechnology, 2010, 28, 965-969.	9.4	299
97	Aglycosylated IgG variants expressed in bacteria that selectively bind FcÎ³RI potentiate tumor cell killing by monocyte-dendritic cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 604-609.	3.3	146
98	Simple Genetic Selection Protocol for Isolation of Overexpressed Genes That Enhance Accumulation of Membrane-Integrated Human G Protein-Coupled Receptors in<i>Escherichia coli</i>. Applied and Environmental Microbiology, 2010, 76, 5852-5859.	1.4	40
99	Replacing Mn²⁺ with Co²⁺ in Human Arginase I Enhances Cytotoxicity toward <scp>l</scp>-Arginine Auxotrophic Cancer Cell Lines. ACS Chemical Biology, 2010, 5, 333-342.	1.6	105
100	Genetic analysis of G proteinâ€coupled receptor expression in <i>Escherichia coli</i>: Inhibitory role of DnaJ on the membrane integration of the human central cannabinoid receptor. Biotechnology and Bioengineering, 2009, 102, 357-367.	1.7	42
101	Engineering next generation proteases. Current Opinion in Biotechnology, 2009, 20, 390-397.	3.3	43
102	Engineering antibody fragments to fold in the absence of disulfide bonds. Protein Science, 2009, 18, 259-267.	3.1	24
103	Construction and flow cytometric screening of targeted enzyme libraries. Nature Protocols, 2009, 4, 893-901.	5.5	24
104	Proteins from PHB granules. Protein Science, 2009, 14, 1385-1386.	3.1	4
105	Proteases That Can Distinguish among Different Post-translational Forms of Tyrosine Engineered Using Multicolor Flow Cytometry. Journal of the American Chemical Society, 2009, 131, 18186-18190.	6.6	14
106	Mechanistic Challenges and Engineering Applications of Protein Export in E. coli. , 2009, , 327-349.		2
107	Expression of active human sialyltransferase ST6GalNAcI in Escherichia coli. Microbial Cell Factories, 2009, 8, 50.	1.9	25
108	An Engineered Protease that Cleaves Specifically after Sulfated Tyrosine. Angewandte Chemie - International Edition, 2008, 47, 7861-7863.	7.2	25

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109	Substrate specificity of human kallikreins 1 and 6 determined by phage display. Protein Science, 2008, 17, 664-672.	3.1	34
110	Highly active and selective endopeptidases with programmed substrate specificities. Nature Chemical Biology, 2008, 4, 290-294.	3.9	82
111	E-clonal antibodies: selection of full-length IgG antibodies using bacterial periplasmic display. Nature Protocols, 2008, 3, 1766-1777.	5.5	46
112	Efficient production of membraneâ€integrated and detergentâ€soluble G proteinâ€coupled receptors in <i>Escherichia coli</i>. Protein Science, 2008, 17, 1857-1863.	3.1	61
113	Synthetic Antibody Libraries Focused Towards Peptide Ligands. Journal of Molecular Biology, 2008, 378, 622-633.	2.0	60
114	Laboratory Evolution of Escherichia coli Thioredoxin for Enhanced Catalysis of Protein Oxidation in the Periplasm Reveals a Phylogenetically Conserved Substrate Specificity Determinant. Journal of Biological Chemistry, 2008, 283, 840-848.	1.6	14
115	Functional plasticity of a peroxidase allows evolution of diverse disulfide-reducing pathways. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6735-6740.	3.3	40
116	De Novo Design and Evolution of Artificial Disulfide Isomerase Enzymes Analogous to the Bacterial DsbC. Journal of Biological Chemistry, 2008, 283, 31469-31476.	1.6	16
117	Substrate Specificity of the Escherichia coli Outer Membrane Protease OmpP. Journal of Bacteriology, 2007, 189, 522-530.	1.0	48
118	Export Pathway Selectivity of Escherichia coli Twin Arginine Translocation Signal Peptides. Journal of Biological Chemistry, 2007, 282, 8309-8316.	1.6	120
119	APEx 2-hybrid, a quantitative protein-protein interaction assay for antibody discovery and engineering. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8247-8252.	3.3	48
120	A scFv Antibody Mutant Isolated in a Genetic Screen for Improved Export via the Twin Arginine Transporter Pathway Exhibits Faster Folding. Journal of Molecular Biology, 2007, 369, 631-639.	2.0	35
121	Escherichia coli tatC Mutations that Suppress Defective Twin-Arginine Transporter Signal Peptides. Journal of Molecular Biology, 2007, 374, 283-291.	2.0	47
122	Binding and enrichment of <i>Escherichia coli</i> spheroplasts expressing inner membrane tethered scFv antibodies on surface immobilized antigens. Biotechnology and Bioengineering, 2007, 98, 39-47.	1.7	34
123	Advances and challenges in membrane protein expression. AICHE Journal, 2007, 53, 752-756.	1.8	14
124	Isolation of engineered, full-length antibodies from libraries expressed in Escherichia coli. Nature Biotechnology, 2007, 25, 563-565.	9.4	206
125	Beyond toothpicks: new methods for isolating mutant bacteria. Nature Reviews Microbiology, 2007, 5, 680-688.	13.6	45
126	A bacterial two-hybrid system based on the twin-arginine transporter pathway ofE. coli. Protein Science, 2007, 16, 1001-1008.	3.1	27

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127	The Many Faces of Glutathione in Bacteria. Antioxidants and Redox Signaling, 2006, 8, 753-762.	2.5	385
128	The Bacterial Twin-Arginine Translocation Pathway. Annual Review of Microbiology, 2006, 60, 373-395.	2.9	294
129	Engineering of recombinant antibody fragments to methamphetamine by anchored periplasmic expression. Journal of Immunological Methods, 2006, 308, 43-52.	0.6	29
130	Assembly of multimeric phage nanostructures through leucine zipper interactions. Biotechnology and Bioengineering, 2006, 95, 539-545.	1.7	17
131	Preparative expression of secreted proteins in bacteria: status report and future prospects. Current Opinion in Biotechnology, 2005, 16, 538-545.	3.3	186
132	A biocatalyst for the removal of sulfite from alcoholic beverages. Biotechnology and Bioengineering, 2005, 89, 123-127.	1.7	6
133	Evolution of highly active enzymes by homology-independent recombination. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10082-10087.	3.3	54
134	Engineering of protease variants exhibiting high catalytic activity and exquisite substrate selectivity. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6855-6860.	3.3	140
135	Why High-error-rate Random Mutagenesis Libraries are Enriched in Functional and Improved Proteins. Journal of Molecular Biology, 2005, 350, 806-816.	2.0	130
136	Engineered DsbC chimeras catalyze both protein oxidation and disulfide-bond isomerization in Escherichia coli: Reconciling two competing pathways. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10018-10023.	3.3	46
137	Substrate Specificity of the Escherichia coli Outer Membrane Protease OmpT. Journal of Bacteriology, 2004, 186, 5919-5925.	1.0	85
138	Genetic Analysis of Disulfide Isomerization in Escherichia coli : Expression of DsbC Is Modulated by RNase E-Dependent mRNA Processing. Journal of Bacteriology, 2004, 186, 654-660.	1.0	12
139	Anchored periplasmic expression, a versatile technology for the isolation of high-affinity antibodies from Escherichia coli-expressed libraries. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9193-9198.	3.3	200
140	Virus-Based Toolkit for the Directed Synthesis of Magnetic and Semiconducting Nanowires. Science, 2004, 303, 213-217.	6.0	946
141	Phage Shock Protein PspA of Escherichia coli Relieves Saturation of Protein Export via the Tat Pathway. Journal of Bacteriology, 2004, 186, 366-373.	1.0	144
142	Screening of large protein libraries by the ?cell immobilized on adsorbed bead? approach. Biotechnology and Bioengineering, 2004, 86, 196-200.	1.7	13
143	A Periplasmic Fluorescent Reporter Protein and its Application in High-throughput Membrane Protein Topology Analysis. Journal of Molecular Biology, 2004, 341, 901-909.	2.0	36
144	Isolation and expression of recombinant antibody fragments to the biological warfare pathogen Brucella melitensis. Journal of Immunological Methods, 2003, 276, 185-196.	0.6	133

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145	Effects of codon usage versus putative 5â€²-mRNA structure on the expression of Fusarium solani cutinase in the Escherichia coli cytoplasm. Protein Expression and Purification, 2003, 27, 134-142.	0.6	94
146	Synthesis and organization of nanoscale IIâ€“VI semiconductor materials using evolved peptide specificity and viral capsid assembly. Journal of Materials Chemistry, 2003, 13, 2414-2421.	6.7	174
147	Enhanced crossover SCRATCHY: construction and high-throughput screening of a combinatorial library containing multiple non-homologous crossovers. Nucleic Acids Research, 2003, 31, 126e-126.	6.5	57
148	BIOCHEMISTRY: An Overoxidation Journey with a Return Ticket. Science, 2003, 300, 592-594.	6.0	113
149	Viral assembly of oriented quantum dot nanowires. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6946-6951.	3.3	468
150	Folding quality control in the export of proteins by the bacterial twin-arginine translocation pathway. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6115-6120.	3.3	290
151	Genetic Analysis of the Twin Arginine Translocator Secretion Pathway in Bacteria. Journal of Biological Chemistry, 2002, 277, 29825-29831.	1.6	133
152	How to Flip the (Redox) Switch. Cell, 2002, 111, 607-610.	13.5	150
153	Cell-Surface display of heterologous proteins: From high-throughput screening to environmental applications. Biotechnology and Bioengineering, 2002, 79, 496-503.	1.7	104
154	Production of Correctly Folded Fab Antibody Fragment in the Cytoplasm of Escherichia coli trxB gor Mutants via the Coexpression of Molecular Chaperones. Protein Expression and Purification, 2001, 23, 338-347.	0.6	172
155	High-throughput antibody isolation. Current Opinion in Chemical Biology, 2001, 5, 683-689.	2.8	58
156	Isolation of high-affinity ligand-binding proteins by periplasmic expression with cytometric screening (PECS). Nature Biotechnology, 2001, 19, 537-542.	9.4	125
157	Analysis of large libraries of protein mutants using flow cytometry. Advances in Protein Chemistry, 2001, 55, 293-315.	4.4	51
158	Effect of Sequences of the Active-Site Dipeptides of DsbA and DsbC on In Vivo Folding of Multidisulfide Proteins in Escherichia coli. Journal of Bacteriology, 2001, 183, 980-988.	1.0	52
159	Fixation and stabilization of Escherichia coli cells displaying genetically engineered cell surface proteins. , 2000, 52, 625-630.		10
160	A hollow-fiber membrane bioreactor for the removal of trichloroethylene from the vapor phase. , 2000, 68, 548-556.		25
161	Function-based isolation of novel enzymes from a large library. Nature Biotechnology, 2000, 18, 1071-1074.	9.4	171
162	Flow cytometric screening of cell-based libraries. Journal of Immunological Methods, 2000, 243, 211-227.	0.6	106

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163	Force Measurements between Bacteria and Poly(ethylene glycol)-Coated Surfaces. Langmuir, 2000, 16, 9155-9158.	1.6	119
164	Antibody Engineering. Annual Review of Biomedical Engineering, 2000, 2, 339-376.	5.7	206
165	In vitro scanning saturation mutagenesis of all the specificity determining residues in an antibody binding site. Protein Engineering, Design and Selection, 1999, 12, 349-356.	1.0	61
166	Secretory Production of Recombinant Protein by a High Cell Density Culture of a Protease Negative Mutant Escherichia coli Strain. Biotechnology Progress, 1999, 15, 164-167.	1.3	32
167	Facilitating the Formation of Disulfide Bonds in the Escherichia coli Periplasm via Coexpression of Yeast Protein Disulfide Isomerase. Biotechnology Progress, 1999, 15, 1033-1038.	1.3	28
168	Site-protected fixation and immobilization ofEscherichia coli cells displaying surface-anchored ?-lactamase. , 1999, 62, 155-159.		7
169	Demonstration of efficient trichloroethylene biodegradation in a hollow-fiber membrane bioreactor. , 1999, 62, 681-692.		27
170	Demonstration of efficient trichloroethylene biodegradation in a hollow-fiber membrane bioreactor. , 1999, 64, 630-630.		2
171	Adhesion Forces between E. coli Bacteria and Biomaterial Surfaces. Langmuir, 1999, 15, 2719-2725.	1.6	411
172	Rapid Amperometric Verification of PCR Amplification of DNA. Analytical Chemistry, 1999, 71, 535-538.	3.2	42
173	Development of an optimized expression system for the screening of antibody libraries displayed on the Escherichia coli surface. Protein Engineering, Design and Selection, 1999, 12, 613-621.	1.0	117
174	Evaluating the interaction of bacteria with biomaterials using atomic force microscopy. Journal of Biomaterials Science, Polymer Edition, 1998, 9, 1361-1373.	1.9	61
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