

Hiroshi Ueda

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206 papers	3,402 citations	31 h-index	45 g-index
221 ext. papers	3,786 ext. citations	4.4 avg, IF	5.26 L-index

#	Paper	IF	Citations
206	Open sandwich ELISA: a novel immunoassay based on the interchain interaction of antibody variable region. <i>Nature Biotechnology</i> , 1996 , 14, 1714-8	44.5	135
205	Overexpression of bcl-2, apoptosis suppressing gene: Prolonged viable culture period of hybridoma and enhanced antibody production. <i>Biotechnology and Bioengineering</i> , 1995 , 48, 118-22	4.9	105
204	Magnetically palladium catalyst stabilized by diaminoglyoxime-functionalized magnetic Fe ₃ O ₄ nanoparticles as active and reusable catalyst for Suzuki coupling reactions. <i>Journal of Molecular Catalysis A</i> , 2015 , 396, 216-223		104
203	"Quenchbodies": quench-based antibody probes that show antigen-dependent fluorescence. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17386-94	16.4	98
202	Cyclic RGD peptide-labeled upconversion nanophosphors for tumor cell-targeted imaging. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 381, 54-8	3.4	94
201	Noncompetitive detection of low molecular weight peptides by open sandwich immunoassay. <i>Analytical Chemistry</i> , 2007 , 79, 6193-200	7.8	69
200	Demonstration of a homogeneous noncompetitive immunoassay based on bioluminescence resonance energy transfer. <i>Analytical Biochemistry</i> , 2001 , 289, 77-81	3.1	66
199	Open sandwich-based immuno-transistor for label-free and noncompetitive detection of low molecular weight antigen. <i>Analytical Chemistry</i> , 2009 , 81, 7532-7	7.8	55
198	Ultra Q-bodies: quench-based antibody probes that utilize dye-dye interactions with enhanced antigen-dependent fluorescence. <i>Scientific Reports</i> , 2014 , 4, 4640	4.9	53
197	Detection of protein-protein interaction by bioluminescence resonance energy transfer from firefly luciferase to red fluorescent protein. <i>Journal of Bioscience and Bioengineering</i> , 2002 , 94, 362-364	3.3	52
196	Formation of highly toxic soluble amyloid beta oligomers by the molecular chaperone prefoldin. <i>FEBS Journal</i> , 2008 , 275, 5982-93	5.7	51
195	Kinetics and binding sites for interaction of the prefoldin with a group II chaperonin: contiguous non-native substrate and chaperonin binding sites in the archaeal prefoldin. <i>Journal of Biological Chemistry</i> , 2004 , 279, 31788-95	5.4	51
194	Open sandwich enzyme-linked immunosorbent assay for the quantitation of small haptens. <i>Analytical Biochemistry</i> , 2000 , 286, 238-46	3.1	49
193	Engineering of functional chimeric protein G-Vargula luciferase. <i>Analytical Biochemistry</i> , 1997 , 249, 147-52	5.1	46
192	Open sandwich ELISA with V(H)-/V(L)-alkaline phosphatase fusion proteins. <i>Journal of Immunological Methods</i> , 1999 , 224, 171-84	2.5	46
191	Creation of a thermostable firefly luciferase with pH-insensitive luminescent color. <i>Photochemistry and Photobiology</i> , 2003 , 77, 333-8	3.6	44
190	Fluorolabeling of antibody variable domains with green fluorescent protein variants: application to an energy transfer-based homogeneous immunoassay. <i>Protein Engineering, Design and Selection</i> , 2000 , 13, 369-76	1.9	44

189	Sensitive detection of estrogenic mycotoxin zearalenone by open sandwich immunoassay. <i>Analytical Sciences</i> , 2007 , 23, 65-70	1.7	43
188	Enzymatic labeling of a single chain variable fragment of an antibody with alkaline phosphatase by microbial transglutaminase. <i>Biotechnology and Bioengineering</i> , 2004 , 86, 399-404	4.9	43
187	Chaperone-assisted folding of a single-chain antibody in a reconstituted translation system. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 320, 1359-64	3.4	38
186	Micro OS-ELISA: Rapid noncompetitive detection of a small biomarker peptide by open-sandwich enzyme-linked immunosorbent assay (OS-ELISA) integrated into microfluidic device. <i>Lab on A Chip</i> , 2010 , 10, 92-100	7.2	34
185	Open-sandwich enzyme immunoassay for one-step noncompetitive detection of corticosteroid 11-deoxycortisol. <i>Analytical Chemistry</i> , 2009 , 81, 8298-304	7.8	34
184	Site-specific cross-linking of functional proteins by transglutamination. <i>Enzyme and Microbial Technology</i> , 2003 , 33, 492-496	3.8	34
183	Construction, bacterial expression, and characterization of hapten-specific single-chain Fv and alkaline phosphatase fusion protein. <i>Journal of Biochemistry</i> , 1997 , 122, 322-9	3.1	33
182	Homogeneous noncompetitive immunoassay based on the energy transfer between fluorolabeled antibody variable domains (open sandwich fluoroimmunoassay). <i>BioTechniques</i> , 1999 , 27, 738-42	2.5	33
181	From fluorescence polarization to Quenchbody: Recent progress in fluorescent reagentless biosensors based on antibody and other binding proteins. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014 , 1844, 1951-1959	4	32
180	Open sandwich immunoassay: a novel immunoassay approach based on the interchain interaction of an antibody variable region. <i>Journal of Bioscience and Bioengineering</i> , 2002 , 94, 614-619	3.3	32
179	Selection of genetically modified cell population using hapten-specific antibody/receptor chimera. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 315, 132-8	3.4	32
178	Demonstration of protein-fragment complementation assay using purified firefly luciferase fragments. <i>BMC Biotechnology</i> , 2013 , 13, 31	3.5	31
177	Luminescent and substrate binding activities of firefly luciferase N-terminal domain. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003 , 1649, 183-9	4	31
176	Growth rate suppression of cultured mammalian cells enhances protein productivity. <i>Cytotechnology</i> , 1994 , 15, 57-64	2.2	31
175	Flashbody: A Next Generation Fluobody with Fluorescence Intensity Enhanced by Antigen Binding. <i>Analytical Chemistry</i> , 2017 , 89, 6719-6725	7.8	30
174	Direct construction of an open-sandwich enzyme immunoassay for one-step noncompetitive detection of thyroid hormone T4. <i>Analytical Chemistry</i> , 2011 , 83, 1008-14	7.8	30
173	Antibody Fab display system that can perform open-sandwich ELISA. <i>Analytical Biochemistry</i> , 2009 , 386, 36-44	3.1	30
172	A general method to select antibody fragments suitable for noncompetitive detection of monovalent antigens. <i>Analytical Chemistry</i> , 2003 , 75, 4057-64	7.8	30

171	Cell-growth control by monomeric antigen: the cell surface expression of lysozyme-specific Ig V-domains fused to truncated Epo receptor. <i>Journal of Immunological Methods</i> , 2000 , 241, 159-70	2.5	29
170	Rapid detection of the neonicotinoid insecticide imidacloprid using a quenchbody assay. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 4219-4226	4.4	28
169	Detection of vimentin serine phosphorylation by multicolor Quenchbodies. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 17-23	11.8	28
168	T cell growth control using hapten-specific antibody/interleukin-2 receptor chimera. <i>Cytokine</i> , 2009 , 46, 127-36	4	28
167	A homogeneous noncompetitive immunoassay for the detection of small haptens. <i>Analytical Chemistry</i> , 2002 , 74, 2500-4	7.8	28
166	Green Fluorescent Protein-Based Glucose Indicators Report Glucose Dynamics in Living Cells. <i>Analytical Chemistry</i> , 2019 , 91, 4821-4830	7.8	27
165	Site-Selective Protein Chemical Modification of Exposed Tyrosine Residues Using Tyrosine Click Reaction. <i>Bioconjugate Chemistry</i> , 2020 , 31, 1417-1424	6.3	27
164	The influence of domain structures on the signal transduction of chimeric receptors derived from the erythropoietin receptor. <i>Journal of Biochemistry</i> , 2009 , 145, 575-84	3.1	26
163	Human IgG1 expression in silkworm larval hemolymph using BmNPV bacmids and its N-linked glycan structure. <i>Journal of Biotechnology</i> , 2009 , 139, 108-14	3.7	26
162	The role of interface framework residues in determining antibody V(H)/V(L) interaction strength and antigen-binding affinity. <i>FEBS Journal</i> , 2006 , 273, 2184-94	5.7	26
161	Cloning and characterization of extradiol aromatic ring-cleavage dioxygenases of <i>Pseudomonas aeruginosa</i> J1104. <i>Journal of Bioscience and Bioengineering</i> , 1996 , 82, 217-223		26
160	Array-Based Rational Design of Short Peptide Probe-Derived from an Anti-TNT Monoclonal Antibody. <i>ACS Combinatorial Science</i> , 2017 , 19, 625-632	3.9	25
159	Bypassing antibiotic selection: positive screening of genetically modified cells with an antigen-dependent proliferation switch. <i>Nucleic Acids Research</i> , 2003 , 31, e32	20.1	25
158	A homogeneous and noncompetitive immunoassay based on the enhanced fluorescence resonance energy transfer by leucine zipper interaction. <i>Analytical Chemistry</i> , 2002 , 74, 5786-92	7.8	25
157	Homogeneous Noncompetitive Luminescent Immunodetection of Small Molecules by Ternary Protein Fragment Complementation. <i>Analytical Chemistry</i> , 2018 , 90, 3001-3004	7.8	24
156	Selection and growth regulation of genetically modified cells with hapten-specific antibody/receptor tyrosine kinase chimera. <i>Biotechnology Progress</i> , 2009 , 25, 1138-45	2.8	24
155	Monitoring of the refolding process for immobilized firefly luciferase with a biosensor based on surface plasmon resonance. <i>Journal of Biochemistry</i> , 2001 , 129, 1-4	3.1	24
154	Graphene Field Effect Transistor-Based Immunosensor for Ultrasensitive Noncompetitive Detection of Small Antigens. <i>ACS Sensors</i> , 2020 , 5, 24-28	9.2	24

153	An optimized homogeneous noncompetitive immunoassay based on the antigen-driven enzymatic complementation. <i>Journal of Immunological Methods</i> , 2003 , 279, 209-18	2.5	23
152	Open-sandwich immunoassay for sensitive and broad-range detection of a shellfish toxin gonyautoxin. <i>Analytica Chimica Acta</i> , 2013 , 793, 107-13	6.6	22
151	Detection of protein-protein interaction by bioluminescence resonance energy transfer from firefly luciferase to red fluorescent protein. <i>Journal of Bioscience and Bioengineering</i> , 2002 , 94, 362-4	3.3	22
150	Covalent split protein fragment-DNA hybrids generated through N-terminus-specific modification of proteins by oligonucleotides. <i>Organic and Biomolecular Chemistry</i> , 2008 , 6, 2187-94	3.9	21
149	The role of firefly luciferase C-terminal domain in efficient coupling of adenylation and oxidative steps. <i>FEBS Letters</i> , 2005 , 579, 4389-94	3.8	21
148	Open-sandwich molecular imprinting: making a recognition matrix with antigen-imprinted antibody fragments. <i>Bioconjugate Chemistry</i> , 2012 , 23, 1463-9	6.3	20
147	Establishing apoptosis resistant cell lines for improving protein productivity of cell culture. <i>Cytotechnology</i> , 1997 , 23, 55-9	2.2	20
146	Novel site-specific immobilization of a functional protein using a preferred substrate sequence for transglutaminase 2. <i>Journal of Biotechnology</i> , 2007 , 131, 121-7	3.7	20
145	Importance of a CDR H3 basal residue in V(H)/V(L) interaction of human antibodies. <i>Journal of Biochemistry</i> , 2002 , 132, 775-82	3.1	20
144	Insight into the Working Mechanism of Quenchbody: Transition of the Dye around Antibody Variable Region That Fluoresces upon Antigen Binding. <i>Bioconjugate Chemistry</i> , 2016 , 27, 2248-2253	6.3	20
143	Growth control of genetically modified cells using an antibody/c-Kit chimera. <i>Journal of Bioscience and Bioengineering</i> , 2012 , 113, 641-6	3.3	19
142	Detection of small molecule diagnostic markers with phage-based open-sandwich immuno-PCR. <i>Journal of Immunological Methods</i> , 2012 , 377, 1-7	2.5	19
141	Growth promotion of genetically modified hematopoietic progenitors using an antibody/c-Mpl chimera. <i>Cytokine</i> , 2011 , 55, 402-8	4	19
140	Construction of a fluorescein-responsive chimeric receptor with strict ligand dependency. <i>Biotechnology and Bioengineering</i> , 2008 , 101, 975-84	4.9	19
139	ELISA-type assays of trace biomarkers using microfluidic methods. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2017 , 9, e1457	9.2	18
138	Antibody affinity maturation in vitro using unconjugated peptide antigen. <i>Protein Engineering, Design and Selection</i> , 2010 , 23, 185-93	1.9	18
137	Engineering cytokine receptors to control cellular functions. <i>Biochemical Engineering Journal</i> , 2010 , 48, 283-294	4.2	18
136	Detection of protein tyrosine phosphorylation by open sandwich fluoroimmunoassay. <i>Biotechnology Progress</i> , 2006 , 22, 968-73	2.8	18

135	Exogenous gene expression and growth regulation of hematopoietic cells via a novel human artificial chromosome. <i>Journal of Human Genetics</i> , 2006 , 51, 147-150	4.3	18
134	Selection of highly productive mammalian cells based on an inducible growth advantage using an antibody/receptor chimera. <i>Journal of Bioscience and Bioengineering</i> , 2002 , 93, 399-404	3.3	18
133	Q-Bodies from Recombinant Single-Chain Fv Fragment with Better Yield and Expanded Palette of Fluorophores. <i>ACS Sensors</i> , 2016 , 1, 88-94	9.2	17
132	Establishment of an apoptosis-resistant and growth-controllable cell line by transfecting with inducible antisense c-Jun gene. <i>Biotechnology and Bioengineering</i> , 1998 , 58, 65-72	4.9	17
131	Construction of chimeric proteins between protein G and fluorescence-enhanced green fluorescent protein, and their application to immunoassays. <i>Journal of Bioscience and Bioengineering</i> , 1998 , 86, 440-445		16
130	Enhanced fluorescence resonance energy transfer immunoassay with improved sensitivity based on the FabRbased immunoconjugates. <i>Analytical Biochemistry</i> , 2007 , 360, 266-72	3.1	16
129	Enhanced expression of neuronal nitric oxide synthase in islets of exercise-trained rats. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 312, 794-800	3.4	16
128	Cytokines involving gp130 in signal transduction suppressed growth of a mouse hybridoma cell line and enhanced its antibody production. <i>Cytokine</i> , 1996 , 8, 889-94	4	16
127	Replacing factor-dependency with that for lysozyme: affordable culture of IL-6-dependent hybridoma by transfecting artificial cell surface receptor. <i>Biotechnology and Bioengineering</i> , 2001 , 74, 416-23	4.9	15
126	An open sandwich immunoassay for detection of 13(R,S)-hydroxy-9(E),11(E)-octadecadienoic acid. <i>Analyst, The</i> , 2017 , 142, 787-793	5	14
125	Label free Detection of Vitamin B12 Based on Fluorescence Quenching of Graphene Oxide Nanolayer. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015 , 23, 878-884	1.8	14
124	Open flower fluoroimmunoassay: a general method to make fluorescent protein-based immunosensor probes. <i>Analytical Chemistry</i> , 2015 , 87, 3513-9	7.8	14
123	Strategy for making a superior Quenchbody to proteins: effect of the fluorophore position. <i>Sensors</i> , 2014 , 14, 13285-97	3.8	14
122	Improved growth response of antibody/receptor chimera attained by the engineering of transmembrane domain. <i>Protein Engineering, Design and Selection</i> , 2004 , 17, 715-9	1.9	14
121	Single-Step Detection of the Influenza Virus Hemagglutinin Using Bacterially-Produced Quenchbodies. <i>Sensors</i> , 2018 , 19,	3.8	14
120	Development of a Quenchbody for the Detection and Imaging of the Cancer-Related Tight-Junction-Associated Membrane Protein Claudin. <i>Analytical Chemistry</i> , 2017 , 89, 10783-10789	7.8	13
119	Optimal fusion of antibody binding domains resulted in higher affinity and wider specificity. <i>Journal of Bioscience and Bioengineering</i> , 2015 , 120, 504-9	3.3	13
118	Ultra sensitive firefly luciferase-based protein-protein interaction assay (FlimPIA) attained by hinge region engineering and optimized reaction conditions. <i>Biotechnology Journal</i> , 2016 , 11, 91-9	5.6	13

117	A novel murine antibody and an open sandwich immunoassay for the detection of clenbuterol. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 182, 109473	7	13
116	Activation of target signal transducers utilizing chimeric receptors with signaling-molecule binding motifs. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 1528-37	4.9	13
115	Characterization and fed-batch culture of hybridoma overexpressing apoptosis suppressing gene bcl-2. <i>Cytotechnology</i> , 1997 , 24, 135-41	2.2	13
114	Selective expansion of genetically modified T cells using an antibody/interleukin-2 receptor chimera. <i>Journal of Immunological Methods</i> , 2008 , 337, 16-23	2.5	13
113	Importance of terminal residues on circularly permuted Escherichia coli alkaline phosphatase with high specific activity. <i>Journal of Bioscience and Bioengineering</i> , 2005 , 100, 197-202	3.3	13
112	A growth signal with an artificially induced erythropoietin receptor-gp130 cytoplasmic domain heterodimer. <i>Journal of Biochemistry</i> , 2001 , 130, 305-12	3.1	13
111	Improved secretion of molecular chaperone-assisted human IgG in silkworm, and no alterations in their N-linked glycan structures. <i>Biotechnology Progress</i> , 2010 , 26, 232-8	2.8	12
110	Construction of Quenchbodies to detect and image amyloid β oligomers. <i>Analytical Biochemistry</i> , 2018 , 550, 61-67	3.1	11
109	Improved protein-protein interaction assay FlimPIA by the entrapment of luciferase conformation. <i>Analytical Chemistry</i> , 2014 , 86, 2013-8	7.8	11
108	Construction of dye-stapled Quenchbodies by photochemical crosslinking to antibody nucleotide-binding sites. <i>Chemical Communications</i> , 2017 , 53, 10200-10203	5.8	11
107	Isolation of recombinant phage antibodies targeting the hemagglutinin cleavage site of highly pathogenic avian influenza virus. <i>PLoS ONE</i> , 2013 , 8, e61158	3.7	11
106	Human single-chain antibody expression in the hemolymph and fat body of silkworm larvae and pupae using BmNPV bacmids. <i>Journal of Bioscience and Bioengineering</i> , 2009 , 107, 67-72	3.3	11
105	Recent Advances in Quenchbody, a Fluorescent Immunosensor. <i>Sensors</i> , 2021 , 21,	3.8	11
104	Detection and destruction of HER2-positive cancer cells by Ultra Quenchbody-siRNA complex. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 1259-1269	4.9	10
103	Improved detection sensitivity and selectivity attained by open-sandwich selection of an anti-estradiol antibody. <i>Analytical Sciences</i> , 2012 , 28, 861-7	1.7	10
102	Antigen-mediated growth control of hybridoma cells via a human artificial chromosome. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007 , 1770, 206-12	4	10
101	Stabilization of antibody VH-domains by proteolytic selection. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004 , 28, 173-179		10
100	Antigen responsive antibody-receptor kinase chimera. <i>Bio/technology</i> , 1992 , 10, 430-3		10

99	Preparation of Quenchbodies by protein transamination reaction. <i>Journal of Bioscience and Bioengineering</i> , 2016 , 122, 125-30	3.3	10
98	Creation of a Nanobody-Based Fluorescent Immunosensor Mini Q-body for Rapid Signal-On Detection of Small Hapten Methotrexate. <i>ACS Sensors</i> , 2020 , 5, 3457-3464	9.2	9
97	A protein-protein interaction assay based on the functional complementation of mutant firefly luciferases. <i>Analytical Chemistry</i> , 2013 , 85, 7935-40	7.8	9
96	Death signalobody: inducing conditional cell death in response to a specific antigen. <i>Human Gene Therapy Methods</i> , 2013 , 24, 141-50	4.9	9
95	Antigen-mediated migration of murine pro-B Ba/F3 cells via an antibody/receptor chimera. <i>Journal of Biotechnology</i> , 2008 , 133, 154-61	3.7	9
94	Overexpression of bcl-2 improved survival of COS-1 cells and enhanced transient protein production. <i>Journal of Bioscience and Bioengineering</i> , 1996 , 82, 589-591		9
93	N-butylamine functionalized graphene oxide for detection of iron(III) by photoluminescence quenching. <i>Luminescence</i> , 2016 , 31, 229-35	2.5	9
92	An antigen-mediated selection system for mammalian cells that produce glycosylated single-chain Fv. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 324, 1165-72	3.4	8
91	Development of an Open sandwich ELISA for the detection of microcystin-LR. <i>Microchemical Journal</i> , 2020 , 158, 105325	4.8	8
90	One-pot construction of Quenchbodies using antibody-binding proteins. <i>Analytical Methods</i> , 2016 , 8, 7774-7779	3.2	8
89	PM Q-probe: A fluorescent binding protein that converts many antibodies to a fluorescent biosensor. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112425	11.8	7
88	Development of a fluorescent protein-antibody F ₀ resonance energy transfer probe for the detection and imaging of osteocalcin. <i>Journal of Bioscience and Bioengineering</i> , 2017 , 123, 272-276	3.3	7
87	Expression of antibody variable region-human alkaline phosphatase fusion proteins in mammalian cells. <i>Journal of Immunological Methods</i> , 2010 , 361, 57-63	2.5	7
86	Reinforcing apoptosis-resistance of COS and myeloma cells by transfecting with bcl-2 gene. <i>Cytotechnology</i> , 1997 , 25, 25-33	2.2	7
85	Noncompetitive homogeneous immunodetection of small molecules based on beta-glucuronidase complementation. <i>Analyst, The</i> , 2018 , 143, 2096-2101	5	6
84	Dimerization-based homogeneous fluorosensor proteins for the detection of specific dsDNA. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1266-71	11.8	6
83	Mimicry of erythropoietin and interleukin-6 signalling by an antibody/cytokine receptor chimera in murine myeloid 32D cells. <i>Journal of Biochemistry</i> , 2007 , 141, 563-71	3.1	6
82	Refolding of firefly luciferase immobilized on agarose beads. <i>Journal of Biochemistry</i> , 2000 , 127, 351-4	3.1	6

81	A catechol 2,3-dioxygenase gene as a reporter. <i>Bioscience, Biotechnology and Biochemistry</i> , 1995 , 59, 314-5	2.1	6
80	Efficient selection of mu m-mutants from mu m-expressing myeloma cells by treatment with ricin A-conjugated anti-mu antibody. <i>Somatic Cell and Molecular Genetics</i> , 1992 , 18, 553-8		6
79	An enhanced open sandwich immunoassay by molecular evolution for noncompetitive detection of Alternaria mycotoxin tenuazonic acid. <i>Food Chemistry</i> , 2021 , 361, 130103	8.5	6
78	Intrabody-based FRET probe to visualize endogenous histone acetylation. <i>Scientific Reports</i> , 2019 , 9, 10188	4.9	5
77	Simultaneous retention of thermostability and specific activity in chimeric human alkaline phosphatases. <i>Molecular Biotechnology</i> , 2014 , 56, 953-61	3	5
76	A signal-on fluorosensor based on quench-release principle for sensitive detection of antibiotic rapamycin. <i>Biosensors</i> , 2015 , 5, 131-40	5.9	5
75	Protein-based open sandwich immuno-PCR for sensitive detection of small biomarkers. <i>Analytical Sciences</i> , 2013 , 29, 871-6	1.7	5
74	Comparison of the efficiencies of different affinity tags in the purification of a recombinant secretory protein expressed in silkworm larval hemolymph. <i>Biotechnology and Bioprocess Engineering</i> , 2009 , 14, 281-287	3.1	5
73	Production of scFv-displaying BmNPV in silkworm larvae and its efficient purification. <i>Biotechnology and Applied Biochemistry</i> , 2010 , 57, 63-9	2.8	5
72	Development of a homogeneous competitive immunoassay for phosphorylated protein antigen based on the enhanced fluorescence resonance energy transfer technology. <i>Journal of Bioscience and Bioengineering</i> , 2010 , 109, 15-9	3.3	5
71	Application of the random amplified polymorphic DNA (RAPD) technique to distinguishing species of the red tide phytoplankton <i>Chattonella</i> (Raphidophyceae). <i>Journal of Bioscience and Bioengineering</i> , 1998 , 85, 343-345		5
70	A new gibberellin detection system in living cells based on antibody V(H)/V(L) interaction. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 376, 134-8	3.4	5
69	Growth control of hybridoma cells with an artificially induced EpoR-gp130 heterodimer. <i>Cytotechnology</i> , 2006 , 52, 171-9	2.2	5
68	Single cell reporter assay using cell surface displayed Vargula luciferase. <i>Journal of Bioscience and Bioengineering</i> , 2001 , 92, 575-579	3.3	5
67	Enhanced Settling of Mammalian Cells in Tanks with Inclined Plates/Simulation by Fluid Mechanical Model and Experiment.. <i>Journal of Chemical Engineering of Japan</i> , 1995 , 28, 703-707	0.8	5
66	Green fluorescent protein-based lactate and pyruvate indicators suitable for biochemical assays and live cell imaging. <i>Scientific Reports</i> , 2020 , 10, 19562	4.9	5
65	Transmembrane signaling on a protocell: Creation of receptor-enzyme chimeras for immunodetection of specific antibodies and antigens. <i>Scientific Reports</i> , 2019 , 9, 18189	4.9	5
64	Electrostatic engineering of the interface between heavy and light chains promotes antibody Fab fragment production. <i>Cytotechnology</i> , 2017 , 69, 469-475	2.2	4

63	Creation of a Ligand-Dependent Enzyme by Fusing Circularly Permuted Antibody Variable Region Domains. <i>Bioconjugate Chemistry</i> , 2016 , 27, 868-73	6.3	4
62	Expression of an antibody-enzyme complex by the L-chain fusion method. <i>Journal of Bioscience and Bioengineering</i> , 2013 , 116, 17-21	3.3	4
61	Micro open-sandwich ELISA to rapidly evaluate thyroid hormone concentration from serum samples. <i>Bioanalysis</i> , 2010 , 2, 1683-7	2.1	4
60	Activation of circularly permuted β -lactamase tethered to antibody domains by specific small molecules. <i>Bioconjugate Chemistry</i> , 2011 , 22, 633-41	6.3	4
59	Trans-splicing as a novel method to rapidly produce antibody fusion proteins. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 384, 316-21	3.4	4
58	AMEGA: antigen-mediated genetically modified cell amplification. <i>Journal of Immunological Methods</i> , 2004 , 284, 187-94	2.5	4
57	Reversal of antigen-dependent signaling by two mutations in antibody/receptor chimera: implication of inverse agonism in cytokine receptor superfamily. <i>Biochemical Pharmacology</i> , 2004 , 68, 539-48	6	4
56	Homogeneous sandwich immunoassay based on the enzymatic complementation induced by single-chain Fv fragments. <i>Analytical Biochemistry</i> , 2004 , 327, 241-6	3.1	4
55	Enhancement of mutation frequency with nucleotide triphosphate analogs in PCR random mutagenesis. <i>Journal of Bioscience and Bioengineering</i> , 1995 , 79, 303-305		4
54	Mathematical Model of the Firefly Luciferase Complementation Assay Reveals a Non-Linear Relationship between the Detected Luminescence and the Affinity of the Protein Pair Being Analyzed. <i>PLoS ONE</i> , 2016 , 11, e0148256	3.7	4
53	BRET Q-Body: A Ratiometric Quench-based Bioluminescent Immunosensor Made of Luciferase-Dye-Antibody Fusion with Enhanced Response. <i>Analytical Chemistry</i> , 2021 , 93, 7571-7578	7.8	4
52	Development of a fluvoxamine detection system using a Quenchbody, a novel fluorescent biosensor. <i>Drug Testing and Analysis</i> , 2019 , 11, 601-609	3.5	4
51	Creation of stable and strictly regulated enzyme switch for signal-on immunodetection of various small antigens. <i>Journal of Bioscience and Bioengineering</i> , 2019 , 128, 677-682	3.3	3
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