

Ryutaro Asano

List of Publications by Year in descending order

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63
papers

1,065
citations

361413

20
h-index

477307

29
g-index

65
all docs

65
docs citations

65
times ranked

856
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic Consequences of Mutations in Vernier Zone Residues of a Humanized Anti-human Epidermal Growth Factor Receptor Murine Antibody, 528. <i>Journal of Biological Chemistry</i> , 2008, 283, 1156-1166.	3.4	86
2	Humanization of the Bispecific Epidermal Growth Factor Receptor α —CD3 Diabody and Its Efficacy as a Potential Clinical Reagent. <i>Clinical Cancer Research</i> , 2006, 12, 4036-4042.	7.0	62
3	Highly Effective Recombinant Format of a Humanized IgG-like Bispecific Antibody for Cancer Immunotherapy with Retargeting of Lymphocytes to Tumor Cells. <i>Journal of Biological Chemistry</i> , 2007, 282, 27659-27665.	3.4	51
4	Rational engineering of <i>Aerococcus viridans</i> l-lactate oxidase for the mediator modification to achieve quasi-direct electron transfer type lactate sensor. <i>Biosensors and Bioelectronics</i> , 2020, 151, 111974.	10.1	43
5	Rational design of direct electron transfer type l-lactate dehydrogenase for the development of multiplexed biosensor. <i>Biosensors and Bioelectronics</i> , 2021, 176, 112933.	10.1	40
6	A highly effective and stable bispecific diabody for cancer immunotherapy: cure of xenografted tumors by bispecific diabody and T-LAK cells. <i>Cancer Immunology, Immunotherapy</i> , 2004, 53, 497-509.	4.2	35
7	Domain order of a bispecific diabody dramatically enhances its antitumor activity beyond structural format conversion: the case of the hEx3 diabody. <i>Protein Engineering, Design and Selection</i> , 2013, 26, 359-367.	2.1	34
8	Construction and humanization of a functional bispecific EGFR α — α CD16 diabody using a refolding system. <i>FEBS Journal</i> , 2012, 279, 223-233.	4.7	31
9	Tumor-directed lymphocyte-activating cytokines: refolding-based preparation of recombinant human interleukin-12 and an antibody variable domain-fused protein by additive-introduced stepwise dialysis. <i>Biochemical and Biophysical Research Communications</i> , 2005, 328, 98-105.	2.1	29
10	Diabody-based Recombinant Formats of Humanized IgG-like Bispecific Antibody With Effective Retargeting of Lymphocytes to Tumor Cells. <i>Journal of Immunotherapy</i> , 2008, 31, 752-761.	2.4	29
11	Minimizing the effects of oxygen interference on l-lactate sensors by a single amino acid mutation in <i>Aerococcus viridans</i> l-lactate oxidase. <i>Biosensors and Bioelectronics</i> , 2018, 103, 163-170.	10.1	29
12	Construction of a diabody (small recombinant bispecific antibody) using a refolding system. <i>Protein Engineering, Design and Selection</i> , 2000, 13, 583-588.	2.1	28
13	Application of the Fc fusion format to generate tag-free bispecific diabodies. <i>FEBS Journal</i> , 2010, 277, 477-487.	4.7	27
14	Cytotoxic Enhancement of a Bispecific Diabody by Format Conversion to Tandem Single-chain Variable Fragment (taFv). <i>Journal of Biological Chemistry</i> , 2011, 286, 1812-1818.	3.4	26
15	Glycosylation analysis of an aggregated antibody produced by Chinese hamster ovary cells in bioreactor culture. <i>Journal of Bioscience and Bioengineering</i> , 2014, 117, 639-644.	2.2	25
16	Chemo-enzymatic Total Syntheses of Jorunnamycin A, Saframycin A, and N-Fmoc Saframycin Y3. <i>Journal of the American Chemical Society</i> , 2018, 140, 10705-10709.	13.7	24
17	Highly Enhanced Cytotoxicity of a Dimeric Bispecific Diabody, the hEx3 Tetrabody. <i>Journal of Biological Chemistry</i> , 2010, 285, 20844-20849.	3.4	23
18	A nanocluster design for the construction of artificial cellulosomes. <i>Catalysis Science and Technology</i> , 2012, 2, 499.	4.1	22

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19	Convenient and Universal Fabrication Method for Antibody–Enzyme Complexes as Sensing Elements Using the SpyCatcher/SpyTag System. <i>Analytical Chemistry</i> , 2018, 90, 14500-14506.	6.5	22
20	Efficient Construction of a Diabody Using a Refolding System: Anti- Carcinoembryonic Antigen Recombinant Antibody Fragment. <i>Journal of Biochemistry</i> , 2002, 132, 903-909.	1.7	21
21	Rearranging the domain order of a diabody-based IgG-like bispecific antibody enhances its antitumor activity and improves its degradation resistance and pharmacokinetics. <i>MAbs</i> , 2014, 6, 1243-1254.	5.2	20
22	Trehalose suppresses antibody aggregation during the culture of Chinese hamster ovary cells. <i>Journal of Bioscience and Bioengineering</i> , 2014, 117, 632-638.	2.2	20
23	Strategic design and improvement of the internal electron transfer of heme b domain-fused glucose dehydrogenase for use in direct electron transfer-type glucose sensors. <i>Biosensors and Bioelectronics</i> , 2021, 176, 112911.	10.1	18
24	A semi high-throughput method for screening small bispecific antibodies with high cytotoxicity. <i>Scientific Reports</i> , 2017, 7, 2862.	3.3	17
25	Engineering the hinge region of human IgG1 Fc-fused bispecific antibodies to improve fragmentation resistance. <i>Scientific Reports</i> , 2018, 8, 17253.	3.3	15
26	In vitro and in vivo antitumor effects of recombinant bispecific antibodies based on humanized anti-EGFR antibody. <i>Oncology Reports</i> , 2011, 26, 949-55.	2.6	14
27	Mechanism of action of a T cell-dependent bispecific antibody as a breakthrough immunotherapy against refractory colorectal cancer with an oncogenic mutation. <i>Cancer Immunology, Immunotherapy</i> , 2021, 70, 177-188.	4.2	13
28	T Cell Bispecific Antibodies: An Antibody-Based Delivery System for Inducing Antitumor Immunity. <i>Pharmaceuticals</i> , 2021, 14, 1172.	3.8	13
29	Development of a POCT type insulin sensor employing anti-insulin single chain variable fragment based on faradaic electrochemical impedance spectroscopy under single frequency measurement. <i>Biosensors and Bioelectronics</i> , 2022, 200, 113901.	10.1	13
30	Development of a DNA aptamer that binds to the complementarity-determining region of therapeutic monoclonal antibody and affinity improvement induced by pH-change for sensitive detection. <i>Biosensors and Bioelectronics</i> , 2022, 203, 114027.	10.1	13
31	Structural considerations for functional anti-EGFR – anti-CD3 bispecific diabodies in light of domain order and binding affinity. <i>Oncotarget</i> , 2018, 9, 13884-13893.	1.8	12
32	Rapid and homogeneous electrochemical detection by fabricating a high affinity bispecific antibody-enzyme complex using two Catcher/Tag systems. <i>Biosensors and Bioelectronics</i> , 2021, 175, 112885.	10.1	12
33	Development of glycosylated peptide enzyme sensor based flow injection analysis system for haemoglobin A1c monitoring using quasi-direct electron transfer type engineered fructosyl peptide oxidase. <i>Biosensors and Bioelectronics</i> , 2021, 177, 112984.	10.1	12
34	Preferential heterodimerization of a bispecific diabody based on a humanized anti-EGFR antibody 528. <i>Protein Engineering, Design and Selection</i> , 2008, 21, 597-603.	2.1	11
35	Multimerization of anti-epidermal growth factor receptor IgG fragments induces an antitumor effect: the case for humanized 528 scFv multimers. <i>FEBS Journal</i> , 2013, 280, 4816-4826.	4.7	11
36	Comprehensive study of domain rearrangements of single-chain bispecific antibodies to determine the best combination of configurations and microbial host cells. <i>MAbs</i> , 2018, 10, 854-863.	5.2	11

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37	Development of an affinity-matured humanized anti-epidermal growth factor receptor antibody for cancer immunotherapy. <i>Protein Engineering, Design and Selection</i> , 2013, 26, 113-122.	2.1	10
38	Anti-EGFR scFv tetramer (tetrabody) with a stable monodisperse structure, strong anticancer effect, and a long <i>in vivo</i> half-life. <i>FEBS Open Bio</i> , 2016, 6, 594-602.	2.3	10
39	Esterification of PQQ Enhances Blood-Brain Barrier Permeability and Inhibitory Activity against Amyloidogenic Protein Fibril Formation. <i>ACS Chemical Neuroscience</i> , 2018, 9, 2898-2903.	3.5	10
40	Rapid, convenient, and highly sensitive detection of human hemoglobin in serum using a high-affinity bivalent antibody-enzyme complex. <i>Talanta</i> , 2021, 234, 122638.	5.5	10
41	Light-induced production of isobutanol and 3-methyl-1-butanol by metabolically engineered cyanobacteria. <i>Microbial Cell Factories</i> , 2022, 21, 7.	4.0	10
42	Application of an engineered chromatic acclimation sensor for red-light-regulated gene expression in cyanobacteria. <i>Algal Research</i> , 2019, 44, 101691.	4.6	9
43	Construction of a circularly connected VHH bispecific antibody (cyclobody) for the desirable positioning of antigen-binding sites. <i>Biochemical and Biophysical Research Communications</i> , 2020, 523, 72-77.	2.1	8
44	Functional Fv fragment of an antibody specific for CD28: Fv-mediated co-stimulation of T cells. <i>FEBS Letters</i> , 2000, 476, 266-271.	2.8	7
45	Selection of human antibody fragments on the basis of stabilization of the variable domain in the presence of target antigens. <i>Biochemical and Biophysical Research Communications</i> , 2002, 295, 31-36.	2.1	7
46	OUP accepted manuscript. <i>Protein Engineering, Design and Selection</i> , 2016, 30, 15-21.	2.1	7
47	Functional Domain Order of an Anti-EGFR – Anti-CD16 Bispecific Diabody Involving NK Cell Activation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8914.	4.1	7
48	Anti-EGFR antibody 528 binds to domain III of EGFR at a site shifted from the cetuximab epitope. <i>Scientific Reports</i> , 2021, 11, 5790.	3.3	7
49	Continuous electrochemical monitoring of L-glutamine using redox-probe-modified L-glutamine-binding protein based on intermittent pulse amperometry. <i>Sensors and Actuators B: Chemical</i> , 2021, 346, 130554.	7.8	7
50	Transient potentiometry based d-serine sensor using engineered d-amino acid oxidase showing quasi-direct electron transfer property. <i>Biosensors and Bioelectronics</i> , 2022, 200, 113927.	10.1	7
51	Elucidation of the intra- and inter-molecular electron transfer pathways of glucoside 3-dehydrogenase. <i>Bioelectrochemistry</i> , 2018, 122, 115-122.	4.6	6
52	Affinity maturation of humanized anti-epidermal growth factor receptor antibody using a modified phage-based open sandwich selection method. <i>Scientific Reports</i> , 2018, 8, 5414.	3.3	4
53	Compact Seahorse-Shape Activating Antibody for Cancer Therapy. <i>Advanced Therapeutics</i> , 2018, 1, 1700031.	3.2	4
54	Build-up functionalization of anti-EGFR – anti-CD3 bispecific diabodies by integrating high-affinity mutants and functional molecular formats. <i>Scientific Reports</i> , 2020, 10, 4913.	3.3	4

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55	Fabrication of Fragment Antibody-Enzyme Complex as a Sensing Element for Immunosensing. International Journal of Molecular Sciences, 2022, 23, 1335.	4.1	4
56	Strategies to simplify operation procedures for applying labeled antibody-based immunosensors to point-of-care testing. Analytical Biochemistry, 2022, 654, 114806.	2.4	4
57	Chemically Crosslinked Bispecific Antibodies for Cancer Therapy: Breaking from the Structural Restrictions of the Genetic Fusion Approach. International Journal of Molecular Sciences, 2020, 21, 711.	4.1	3
58	Evaluation of intercellular cross-linking abilities correlated with cytotoxicities of bispecific antibodies with domain rearrangements using AFM force-sensing. Biosensors and Bioelectronics, 2021, 178, 113037.	10.1	3
59	High-throughput cytotoxicity and antigen-binding assay for screening small bispecific antibodies without purification. Journal of Bioscience and Bioengineering, 2018, 126, 153-161.	2.2	2
60	Biosensors: Immunosensors. , 2021, , .		2
61	Selected IL-21R Expression and Apoptosis Induction by IL-21 in Follicular Lymphoma.. Blood, 2004, 104, 2284-2284.	1.4	1
62	1C1448 Protein engineering for site-specific bioconjugation chemistry : Construction of multiple functional low-molecular antibodies(Proteins: Measurement, Analysis, Engineering, Oral) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (P S23.	0.1	0
63	Development of Engineered Antibodies for Novel Electrochemical Immunosensors. Denki Kagaku, 2022, 90, 69-69.	0.0	0