

Patrick Chames

List of Publications by Year in descending order

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88
papers

4,861
citations

117619

34
h-index

95259

68
g-index

94
all docs

94
docs citations

94
times ranked

6498
citing authors

#	ARTICLE	IF	CITATIONS
1	Trispecific T-cell engagers for dual tumor-targeting of colorectal cancer. <i>Oncolmmunology</i> , 2022, 11, 2034355.	4.6	21
2	Nanobody-based sensors reveal a high proportion of mGlu heterodimers in the brain. <i>Nature Chemical Biology</i> , 2022, 18, 894-903.	8.0	19
3	Combining Acoustic Force Spectroscopy and DNA Scaffold for High Throughput Measurement of Ligand-Receptor Kinetics at Single Molecule Resolution. <i>Biophysical Journal</i> , 2021, 120, 186a.	0.5	0
4	A nanobody activating metabotropic glutamate receptor 4 discriminates between homo- and heterodimers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	11
5	Multiphoton Deep-Tissue Imaging of Micrometastases and Disseminated Cancer Cells Using Conjugates of Quantum Dots and Single-Domain Antibodies. <i>Methods in Molecular Biology</i> , 2021, 2350, 105-123.	0.9	4
6	Anti-NKG2D single domain-based antibodies for the modulation of anti-tumor immune response. <i>Oncolmmunology</i> , 2021, 10, 1854529.	4.6	19
7	A Novel Anti-Kv10.1 Nanobody Fused to Single-Chain TRAIL Enhances Apoptosis Induction in Cancer Cells. <i>Frontiers in Pharmacology</i> , 2020, 11, 686.	3.5	16
8	A Bispecific Antibody-Based Approach for Targeting Mesothelin in Triple Negative Breast Cancer. <i>Frontiers in Immunology</i> , 2019, 10, 1593.	4.8	44
9	Nanobody-CD16 Catch Bond Reveals NK Cell Mechanosensitivity. <i>Biophysical Journal</i> , 2019, 116, 1516-1526.	0.5	36
10	Nanobody Engineering: Toward Next Generation Immunotherapies and Immunoimaging of Cancer. <i>Antibodies</i> , 2019, 8, 13.	2.5	100
11	Nanophotonic tools based on the conjugates of nanoparticles with the single-domain antibodies for multi-photon micrometastases detection and ultrasensitive biochemical assays. , 2019, , .		0
12	Single- and two-photon imaging of human micrometastases and disseminated tumour cells with conjugates of nanobodies and quantum dots. <i>Scientific Reports</i> , 2018, 8, 4595.	3.3	34
13	Advanced Nanotools for Imaging of Solid Tumors and Circulating and Disseminated Cancer Cells. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2018, 125, 703-707.	0.6	1
14	Phage Display and Selections on Purified Antigens. <i>Methods in Molecular Biology</i> , 2018, 1827, 165-178.	0.9	2
15	Quantification and imaging of HER2 protein using nanocrystals conjugated with single-domain antibodies. <i>Journal of Physics: Conference Series</i> , 2017, 784, 012016.	0.4	1
16	Allosteric nanobodies uncover a role of hippocampal mGlu2 receptor homodimers in contextual fear consolidation. <i>Nature Communications</i> , 2017, 8, 1967.	12.8	66
17	Taking up Cancer Immunotherapy Challenges: Bispecific Antibodies, the Path Forward?. <i>Antibodies</i> , 2016, 5, 1.	2.5	34
18	In vivo detection of small tumour lesions by multi-pinhole SPECT applying a ^{99m} Tc-labelled nanobody targeting the Epidermal Growth Factor Receptor. <i>Scientific Reports</i> , 2016, 6, 21834.	3.3	47

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19	V1/V2 Neutralizing Epitope is Conserved in Divergent Non-M Groups of HIV-1. <i>Journal of Acquired Immune Deficiency Syndromes</i> (1999), 2016, 71, 237-245.	2.1	7
20	Nanosized Fluorescent Diagnostic Probes Consisting of Single-domain Antibodies Conjugated with Quantum Dots. <i>Materials Today: Proceedings</i> , 2016, 3, 518-522.	1.8	0
21	Multiphoton Imaging of Tumor Biomarkers in situ Using Single-domain Antibodies Conjugated with Quantum Dots in a Set Orientation. <i>Materials Today: Proceedings</i> , 2016, 3, 523-526.	1.8	6
22	Oriented Conjugates of Single-domain Antibodies and Fluorescent Quantum Dots for Highly Sensitive Detection of Tumor-associated Biomarkers in Cells and Tissues. <i>Physics Procedia</i> , 2015, 73, 228-234.	1.2	5
23	Anti-Mesothelin Nanobodies for Both Conventional and Nanoparticle-Based Biomedical Applications. <i>Journal of Biomedical Nanotechnology</i> , 2015, 11, 1201-1212.	1.1	17
24	Diagnostic nanoprobe based on the conjugates of quantum dots and single-domain antibodies for cancer biomarkers detection in immunohistochemistry and flow cytometry. , 2015, , .		0
25	Multiphoton imaging of tumor biomarkers in situ using highly oriented conjugates of single-domain antibodies and quantum dots. , 2015, , .		0
26	Conformational Nanobodies Reveal Tethered Epidermal Growth Factor Receptor Involved in EGFR/ErbB2 Preimers. <i>ACS Nano</i> , 2015, 9, 1388-1399.	14.6	38
27	Detection of carcinoembryonic antigen using single-domain or full-size antibodies stained with quantum dot conjugates. <i>Analytical Biochemistry</i> , 2015, 478, 26-32.	2.4	24
28	SINGLE-PHOTON AND TWO-PHOTON TUMOR IMAGING AND DIAGNOSIS USING ORIENTED CONJUGATES OF SINGLE-DOMAIN ANTIBODIES AND QUANTUM DOTS. , 2015, , 495-498.		1
29	Selection of Intracellular Single-Domain Antibodies Targeting the HIV-1 Vpr Protein by Cytoplasmic Yeast Two-Hybrid System. <i>PLoS ONE</i> , 2014, 9, e113729.	2.5	14
30	A Fc γ RIII-engaging bispecific antibody expands the range of HER2-expressing breast tumors eligible to antibody therapy. <i>Oncotarget</i> , 2014, 5, 5304-5319.	1.8	42
31	Adaptation of HIV-1 Envelope Glycoprotein gp120 to Humoral Immunity over the Course of the Epidemic. <i>AIDS Research and Human Retroviruses</i> , 2014, 30, A224-A224.	1.1	1
32	Drift of the HIV-1 Envelope Glycoprotein gp120 toward Increased Neutralization Resistance over the Course of the Epidemic: a Comprehensive Study Using the Most Potent and Broadly Neutralizing Monoclonal Antibodies. <i>Journal of Virology</i> , 2014, 88, 13910-13917.	3.4	42
33	Masked Selection: A Straightforward and Flexible Approach for the Selection of Binders Against Specific Epitopes and Differentially Expressed Proteins by Phage Display. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 653-665.	3.8	32
34	Highly Sensitive Single Domain Antibody-Quantum Dot Conjugates for Detection of HER2 Biomarker in Lung and Breast Cancer Cells. <i>ACS Nano</i> , 2014, 8, 5682-5695.	14.6	89
35	Multiphoton imaging of tumor biomarkers with conjugates of single-domain antibodies and quantum dots. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 1701-1709.	3.3	59
36	Single-Domain Antibody-Based and Linker-Free Bispecific Antibodies Targeting Fc γ RIII Induce Potent Antitumor Activity without Recruiting Regulatory T Cells. <i>Molecular Cancer Therapeutics</i> , 2013, 12, 1481-1491.	4.1	63

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37	Straightforward Selection of Broadly Neutralizing Single-Domain Antibodies Targeting the Conserved CD4 and Coreceptor Binding Sites of HIV-1 gp120. <i>Journal of Virology</i> , 2013, 87, 1137-1149.	3.4	40
38	Heavy Chain-Only IgG2b Llama Antibody Effects Near-Pan HIV-1 Neutralization by Recognizing a CD4-Induced Epitope That Includes Elements of Coreceptor- and CD4-Binding Sites. <i>Journal of Virology</i> , 2013, 87, 10173-10181.	3.4	22
39	Single-Domain Antibody-SH3 Fusions for Efficient Neutralization of HIV-1 Nef Functions. <i>Journal of Virology</i> , 2012, 86, 4856-4867.	3.4	19
40	Affinity Determination of Biotinylated Antibodies by Flow Cytometry. <i>Methods in Molecular Biology</i> , 2012, 907, 443-449.	0.9	4
41	Bi-photon imaging and diagnostics using ultra-small diagnostic probes engineered from semiconductor nanocrystals and single-domain antibodies. , 2012, , .		2
42	Single-domain antibodies: a versatile and rich source of binders for breast cancer diagnostic approaches. <i>Molecular BioSystems</i> , 2012, 8, 2385.	2.9	30
43	Synthetic Customized scFv Libraries. <i>Methods in Molecular Biology</i> , 2012, 907, 109-122.	0.9	10
44	Phage Display and Selections on Purified Antigens. <i>Methods in Molecular Biology</i> , 2012, 907, 213-224.	0.9	9
45	Phage Display and Selections on Cells. <i>Methods in Molecular Biology</i> , 2012, 907, 225-235.	0.9	25
46	Oriented conjugates of monoclonal and single-domain antibodies with quantum dots for flow cytometry and immunohistochemistry diagnostic applications. , 2012, , .		3
47	Structural definition of a novel CD4-induced epitope that is targeted by a single-headed immunoglobulin to effect broad and potent HIV neutralization. <i>Retrovirology</i> , 2012, 9, .	2.0	1
48	Straightforward selection of broadly neutralizing single-domain antibodies targeting the conserved CD4 and co-receptor binding sites of HIV-1 gp120. <i>Retrovirology</i> , 2012, 9, .	2.0	0
49	Oriented conjugates of single-domain antibodies and quantum dots: toward a new generation of ultrasmall diagnostic nanoprobe. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 516-525.	3.3	140
50	Inhibition of the Nef regulatory protein of HIV-1 by a single-domain antibody. <i>Blood</i> , 2011, 117, 3559-3568.	1.4	57
51	Bispecific Single Domain Antibodies. , 2011, , 101-114.		1
52	State of the Art in Tumor Antigen and Biomarker Discovery. <i>Cancers</i> , 2011, 3, 2554-2596.	3.7	38
53	Semiconductor quantum dots for multiplexed bio-detection on solid-state microarrays. <i>Critical Reviews in Oncology/Hematology</i> , 2010, 74, 1-15.	4.4	53
54	Therapeutic Antibodies for the Treatment of Pancreatic Cancer. <i>Scientific World Journal</i> , The, 2010, 10, 1107-1120.	2.1	15

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55	Strong and oriented immobilization of single domain antibodies from crude bacterial lysates for high-throughput compatible cost-effective antibody array generation. <i>Molecular BioSystems</i> , 2010, 6, 2241.	2.9	35
56	Bispecific antibodies for cancer therapy. <i>MAbs</i> , 2009, 1, 539-547.	5.2	260
57	Llama single-domain antibodies directed against nonconventional epitopes of tumor-associated carcinoembryonic antigen absent from nonspecific cross-reacting antigen. <i>FEBS Journal</i> , 2009, 276, 3881-3893.	4.7	58
58	Therapeutic antibodies: successes, limitations and hopes for the future. <i>British Journal of Pharmacology</i> , 2009, 157, 220-233.	5.4	1,123
59	Bispecific antibodies for cancer therapy. <i>Current Opinion in Drug Discovery & Development</i> , 2009, 12, 276-83.	1.9	25
60	Selection of human antibody fragments directed against tumor T cell epitopes for adoptive T cell therapy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2008, 73A, 1093-1099.	1.5	10
61	Isolation and characterization of anti-FcγRIII (CD16) llama single-domain antibodies that activate natural killer cells. <i>Protein Engineering, Design and Selection</i> , 2007, 21, 1-10.	2.1	75
62	Engineering of Large Numbers of Highly Specific Homing Endonucleases that Induce Recombination on Novel DNA Targets. <i>Journal of Molecular Biology</i> , 2006, 355, 443-458.	4.2	175
63	A combinatorial approach to create artificial homing endonucleases cleaving chosen sequences. <i>Nucleic Acids Research</i> , 2006, 34, e149-e149.	14.5	271
64	948. Rapid Production of Specific Artificial Meganucleases for Gene Correction in Patients with Inherited Disease. <i>Molecular Therapy</i> , 2006, 13, S366.	8.2	0
65	Optimizing the exogenous antigen loading of monocyte-derived dendritic cells. <i>International Immunology</i> , 2005, 17, 621-635.	4.0	19
66	T Cell Retargeting with MHC Class I-Restricted Antibodies: The CD28 Costimulatory Domain Enhances Antigen-Specific Cytotoxicity and Cytokine Production. <i>Journal of Immunology</i> , 2005, 174, 7853-7858.	0.8	61
67	A Major Histocompatibility Complex-Peptide-restricted Antibody and T Cell Receptor Molecules Recognize Their Target by Distinct Binding Modes. <i>Journal of Biological Chemistry</i> , 2005, 280, 2972-2980.	3.4	69
68	In vivo selection of engineered homing endonucleases using double-strand break induced homologous recombination. <i>Nucleic Acids Research</i> , 2005, 33, e178-e178.	14.5	55
69	Isolation of human antibodies to tumor-associated endothelial cell markers by in vitro human endothelial cell selection with phage display libraries. <i>Journal of Immunological Methods</i> , 2004, 287, 31-47.	1.4	44
70	Genetic engineering of T cell specificity for immunotherapy of cancer. <i>Human Immunology</i> , 2003, 64, 56-68.	2.4	56
71	A novel engineered meganuclease induces homologous recombination in yeast and mammalian cells. <i>Nucleic Acids Research</i> , 2003, 31, 2952-2962.	14.5	225
72	Selection of Antibodies Against Biotinylated Antigens. , 2002, 178, 147-157.		22

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73	TCR-Like Human Antibodies Expressed on Human CTLs Mediate Antibody Affinity-Dependent Cytolytic Activity. <i>Journal of Immunology</i> , 2002, 169, 1110-1118.	0.8	70
74	Direct visualization of distinct T cell epitopes derived from a melanoma tumor-associated antigen by using human recombinant antibodies with MHC- restricted T cell receptor-like specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9421-9426.	7.1	90
75	Isolation and characterization of human recombinant antibodies endowed with the antigen-specific, major histocompatibility complex-restricted specificity of T cells directed toward the widely expressed tumor T-cell epitopes of the telomerase catalytic subunit. <i>Cancer Research</i> , 2002, 62, 3184-94.	0.9	85
76	A phage display selected Fab fragment with MHC class I-restricted specificity for MAGE-A1 allows for retargeting of primary human T lymphocytes. <i>Gene Therapy</i> , 2001, 8, 1601-1608.	4.5	72
77	Selections on Biotinylated Antigens. , 2001, , 149-166.		1
78	Natural and designer binding sites made by phage display technology. <i>Trends in Immunology</i> , 2000, 21, 371-378.	7.5	202
79	Grafting primary human T lymphocytes with cancer-specific chimeric single chain and two chain TCR. <i>Gene Therapy</i> , 2000, 7, 1369-1377.	4.5	150
80	Antibody engineering and its applications in tumor targeting and intracellular immunization. <i>FEMS Microbiology Letters</i> , 2000, 189, 1-8.	1.8	45
81	Direct selection of a human antibody fragment directed against the tumor T-cell epitope HLA-A1-MAGE-A1 from a nonimmunized phage-Fab library. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 7969-7974.	7.1	111
82	Antibody engineering and its applications in tumor targeting and intracellular immunization. <i>FEMS Microbiology Letters</i> , 2000, 189, 1-8.	1.8	1
83	Engineering of an Anti-Steroid Antibody: Amino Acid Substitutions Change Antibody Fine Specificity from Cortisol Estradiol. <i>Clinical Chemistry and Laboratory Medicine</i> , 1998, 36, 355-9.	2.3	8
84	Intracellular Immunization of Prokaryotic Cells against a Bacteriotoxin. <i>Journal of Bacteriology</i> , 1998, 180, 514-518.	2.2	7
85	Production of a soluble and active MBP-scFv fusion: favorable effect of the leaky tolR strain. <i>FEBS Letters</i> , 1997, 405, 224-228.	2.8	13
86	Polymerase Chain Reaction-Based Site-Directed Mutagenesis Using Magnetic Beads. <i>Analytical Biochemistry</i> , 1996, 234, 210-214.	2.4	9
87	Evaluation of half-life of immobilized enzyme during continuous reaction in bioreactors: A theoretical study. <i>Biotechnology and Bioengineering</i> , 1987, 30, 963-969.	3.3	8
88	Engineering of ultra-small diagnostic nanoprobe through oriented conjugation of single-domain antibodies and quantum dots. <i>Protocol Exchange</i> , 0, , .	0.3	23