Martine Pugniere

List of Publications by Year
in descending order

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107 papers	3,461 citations	147801 31 h-index	175258 52 g-index
110 all docs	110 docs citations	110 times ranked	5034 citing authors

#	Article	IF	Citations
1	Rational design of a CD4 mimic that inhibits HIV-1 entry and exposes cryptic neutralization epitopes. Nature Biotechnology, 2003, 21, 71-76.	17.5	182
2	Phosphatidylinositol-(4,5)-bisphosphate enables efficient secretion of HIV-1 Tat by infected T-cells. EMBO Journal, 2010, 29, 1348-1362.	7.8	174
3	Host Cell Invasion by Apicomplexan Parasites: Insights from the Co-Structure of AMA1 with a RON2 Peptide. Science, 2011, 333, 463-467.	12.6	168
4	Evidence of a bactericidal permeability increasing protein in an invertebrate, theCrassostrea gigas Cg-BPI. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17759-17764.	7.1	124
5	Insight into Invertebrate Defensin Mechanism of Action. Journal of Biological Chemistry, 2010, 285, 29208-29216.	3.4	117
6	Preclinical validation of AXL receptor as a target for antibody-based pancreatic cancer immunotherapy. Oncogene, 2014, 33, 5405-5414.	5.9	97
7	Generation of llama single-domain antibodies against methotrexate, a prototypical hapten. Molecular Immunology, 2007, 44, 1680-1690.	2.2	88
8	HcPro, a multifunctional protein encoded by a plant RNA virus, targets the 20S proteasome and affects its enzymic activities. Journal of General Virology, 2005, 86, 2595-2603.	2.9	87
9	Antibodyâ€“antigenic peptide interactions monitored by SPR and QCM-D. Biosensors and Bioelectronics, 2007, 22, 3113-3119.	10.1	81
10	NMR structure of rALFâ€Pm3, an antiâ€lipopolysaccharide factor from shrimp: Model of the possible lipid Aâ€binding site. Biopolymers, 2009, 91, 207-220.	2.4	76
11	Transportin-1 binds to the HIV-1 capsid via a nuclear localization signal and triggers uncoating. Nature Microbiology, 2019, 4, 1840-1850.	13.3	76
12	Isolation and characterization of anti-FcÂRIII (CD16) llama single-domain antibodies that activate natural killer cells. Protein Engineering, Design and Selection, 2007, 21, 1-10.	2.1	75
13	Structureâ€“Activity Relationships of Phenyl-Furanyl-Rhodanines as Inhibitors of RNA Polymerase with Antibacterial Activity on Biofilms. Journal of Medicinal Chemistry, 2007, 50, 4195-4204.	6.4	74
14	Streptabody, a high avidity molecule made by tetramerization of in vivo biotinylated, phage display-selected scFv fragments on streptavidin. Molecular Immunology, 2000, 37, 1067-1077.	2.2	71
15	Intracellular distribution of viral gene products regulates a complex mechanism of cauliflower mosaic virus acquisition by its aphid vector. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2422-2427.	7.1	69
16	Immunotherapy of triple-negative breast cancer with cathepsin D-targeting antibodies. , 2019, 7, 29.		63
17	Llama singleâ€domain antibodies directed against nonconventional epitopes of tumorâ€associated carcinoembryonic antigen absent from nonspecific crossâ€reacting antigen. FEBS Journal, 2009, 276, 3881-3893.	4.7	58
18	Synthetic Peptides Derived from the Variable Regions of an Anti-CD4 Monoclonal Antibody Bind to CD4 and Inhibit HIV-1 Promoter Activation in Virus-infected Cells. Journal of Biological Chemistry, 1999, 274, 3789-3796.	3.4	56

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19	IgG1 Allotypes Influence the Pharmacokinetics of Therapeutic Monoclonal Antibodies through FcRn Binding. Journal of Immunology, 2016, 196, 607-613.	0.8	55
20	Functional Specific Binding of Testosterone to Schistosoma haematobium 28-Kilodalton Glutathione S-Transferase. Infection and Immunity, 2002, 70, 601-605.	2.2	50
21	Antibody targeting of claudin-1 as a potential colorectal cancer therapy. Journal of Experimental and Clinical Cancer Research, 2017, 36, 89.	8.6	48
22	New recognition specificity in a plant immune receptor by molecular engineering of its integrated domain. Nature Communications, 2022, 13, 1524.	12.8	47
23	Protein-disulfide Isomerase (PDI) in FRTL5 Cells. Journal of Biological Chemistry, 2000, 275, 1920-1929.	3.4	44
24	Systematic mapping of regions of human cardiac troponin I involved in binding to cardiac troponin C: N- and C-terminal low affinity contributing regions. FEBS Letters, 2000, 479, 99-105.	2.8	43
25	Localization of the Discontinuous Immunodominant Region Recognized by Human Anti-thyroperoxidase Autoantibodies in Autoimmune Thyroid Diseases. Journal of Biological Chemistry, 2003, 278, 9560-9569.	3.4	43
26	Casein Interactions Studied by the Surface Plasmon Resonance Technique. Journal of Dairy Science, 2002, 85, 2711-2721.	3.4	42
27	Developments in SPR Fragment Screening. Expert Opinion on Drug Discovery, 2016, 11, 489-499.	5.0	38
28	Targeting the NRG1/HER3 pathway in tumor cells and cancer-associated fibroblasts with an anti-neuregulin 1 antibody inhibits tumor growth in pre-clinical models of pancreatic cancer. Cancer Letters, 2018, 432, 227-236.	7.2	37
29	The anti-Mullerian hormone type II receptor: insights into the binding domains recognized by a monoclonal antibody and the natural ligand. Biochemical Journal, 2004, 379, 785-793.	3.7	35
30	Anti-HER3 Domain 1 and 3 Antibodies Reduce Tumor Growth by Hindering HER2/HER3 Dimerization and AKT-Induced MDM2, XIAP, and FoxO1 Phosphorylation. Neoplasia, 2013, 15, 335-IN40.	5.3	34
31	A peptide mimetic of an anti-CD4 monoclonal antibody by rational design. Biochemical and Biophysical Research Communications, 2003, 307, 198-205.	2.1	33
32	A llama single domain anti-idiotypic antibody mimicking HER2 as a vaccine: Immunogenicity and efficacy. Vaccine, 2009, 27, 4826-4833.	3.8	33
33	Design and Validation of a Novel Generic Platform for the Production of Tetravalent IgG1-like Bispecific Antibodies. Journal of Immunology, 2016, 196, 3199-3211.	0.8	30
34	Cyclophilin A enables specific HIV-1 Tat palmitoylation and accumulation in uninfected cells. Nature Communications, 2018, 9, 2251.	12.8	30
35	PIP30/FAM192A is a novel regulator of the nuclear proteasome activator PA28Î³. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6477-E6486.	7.1	29
36	Affinity for the cognate monoclonal antibody of synthetic peptides derived from selection by phage display. FEBS Journal, 2000, 267, 1819-1829.	0.2	28

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37	Targeting of Human Breast Cancer by a Bispecific Antibody Directed against Two Tumour-Associated Antigens: ErbB-2 and Carcinoembryonic Antigen. Tumor Biology, 2002, 23, 337-347.	1.8	28
38	Cyclophilin A as negative regulator of apoptosis by sequestering cytochrome c. Biochemical and Biophysical Research Communications, 2010, 393, 325-330.	2.1	28
39	Binding analysis between monomeric Î²-casein and hydrophobic bioactive compounds investigated by surface plasmon resonance and fluorescence spectroscopy. Food Chemistry, 2019, 286, 289-296.	8.2	28
40	Anti-digoxin scFv fragments expressed in bacteria and in insect cells have different antigen binding properties. FEBS Letters, 1998, 423, 159-166.	2.8	27
41	Does fusion of domains from unrelated proteins affect their folding pathways and the structural changes involved in their function? A case study with the diphtheria toxin T domain. Protein Engineering, Design and Selection, 2002, 15, 383-391.	2.1	27
42	Directed Mutagenesis in Region 713-720 of Human Thyroperoxidase Assigns 713KFPED717 Residues as Being Involved in the B Domain of the Discontinuous Immunodominant Region Recognized by Human Autoantibodies. Journal of Biological Chemistry, 2004, 279, 39058-39067.	3.4	26
43	Human Anti-Thyroid Peroxidase Single-Chain Fragment Variable of Ig Isolated from a Combinatorial Library Assembled In-Cell: Insights into the In Vivo Situation. Journal of Immunology, 2000, 164, 4162-4169.	0.8	25
44	Thyroid Peroxidase Autoantibodies Obtained from Random Single Chain Fv Libraries Contain the Same Heavy/Light Chain Combinations as Occurin Vivo. Endocrinology, 2001, 142, 4740-4750.	2.8	25
45	Synthesis and NMR Structure of P41icf, a Potent Inhibitor of Human Cathepsin L. Journal of the American Chemical Society, 2003, 125, 1508-1517.	13.7	24
46	Isolation and characterisation of a human anti-idiotypic scFv used as a surrogate tumour antigen to elicit an anti-HER-2/neu humoral response in mice. British Journal of Cancer, 2004, 90, 2032-2041.	6.4	24
47	Changes in the Dimeric State of Neuronal Nitric Oxide Synthase Affect the Kinetics of Secretagogue-Induced Insulin Response. Diabetes, 2004, 53, 1467-1474.	0.6	23
48	A method to confer Protein L binding ability to any antibody fragment. MAbs, 2016, 8, 379-388.	5.2	23
49	Mapping the Paratope of Anti-CD4 Recombinant Fab 13B8.2 by Combining Parallel Peptide Synthesis and Site-directed Mutagenesis. Journal of Biological Chemistry, 2003, 278, 14265-14273.	3.4	22
50	Increment in Drug Loading on an Antibodyâ€“Drug Conjugate Increases Its Binding to the Human Neonatal Fc Receptor in Vitro. Molecular Pharmaceutics, 2016, 13, 1405-1412.	4.6	22
51	One-Step Conversion of Amino Acids into N-Menthyloxycarbonyl Alkyl Ester Derivatives for Chiral Gas Chromatography. Analytical Biochemistry, 1993, 214, 420-425.	2.4	21
52	Discovery of a cryptic site at the interface 2 of TEAD â€“ Towards a new family of YAP/TAZ-TEAD inhibitors. European Journal of Medicinal Chemistry, 2021, 226, 113835.	5.5	21
53	Immobilization of enzymes on alumina by means of pyridoxal 5â€²-phosphate. Bioscience Reports, 1988, 8, 263-269.	2.4	20
54	Specific esterase activity of subtilisin toward esters of Î±-haloacids. Tetrahedron Letters, 1990, 31, 4883-4886.	1.4	20

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55	The Antibiotics in the Chemical Space. Current Medicinal Chemistry, 2009, 16, 390-393.	2.4	20
56	Fragment-Based Identification of a Locus in the Sec7 Domain of Arno for the Design of Proteinâ€"Protein Interaction Inhibitors. Journal of Medicinal Chemistry, 2013, 56, 8497-8511.	6.4	20
57	Imidazoquinoxaline anticancer derivatives and imiquimod interact with tubulin: Characterization of molecular microtubule inhibiting mechanisms in correlation with cytotoxicity. PLoS ONE, 2017, 12, e0182022.	2.5	20
58	Peptide and ester synthesis in organic solvents catalyzed by seryl proteases linked to alumina. Proteins: Structure, Function and Bioinformatics, 1986, 1, 134-138.	2.6	19
59	Selective retention of organic phosphate esters and phosphonates on aluminium oxide. Bioscience Reports, 1986, 6, 477-483.	2.4	19
60	Use of a Surface Plasmon Resonance Method To Investigate Antibiotic and Plasma Protein Interactions. Antimicrobial Agents and Chemotherapy, 2009, 53, 1528-1531.	3.2	19
61	Targeting Aspergillus fumigatus Crf Transglycosylases With Neutralizing Antibody Is Relevant but Not Sufficient to Erase Fungal Burden in a Neutropenic Rat Model. Frontiers in Microbiology, 2019, 10, 600.	3.5	19
62	Parallel acoustic detection of biological warfare agents surrogates by means of piezoelectric immunochips. Sensors and Actuators B: Chemical, 2009, 138, 532-538.	7.8	18
63	Oligomeric-Induced Activity by Thienyl Pyrimidine Compounds Traps Prion Infectivity. Journal of Neuroscience, 2011, 31, 14882-14892.	3.6	18
64	Racemization of amino acid esters catalysed by pyridoxal 5? phosphate as a step in the production of L-amino acids. Biotechnology Letters, 1983, 5, 447-452.	2.2	17
65	A recycling anti-transferrin receptor-1 monoclonal antibody as an efficient therapy for erythroleukemia through target up-regulation and antibody-dependent cytotoxic effector functions. MAbs, 2019, 11, 593-605.	5.2	17
66	Enhancement of radiation therapy by tumor necrosis factor alpha in human colon cancer using a bispecific antibody. International Journal of Radiation Oncology Biology Physics, 2003, 55, 1363-1373.	0.8	16
67	Computational and biophysical approaches to proteinâ€"protein interaction inhibition of Plasmodium falciparum AMA1/RON2 complex. Journal of Computer-Aided Molecular Design, 2015, 29, 525-539.	2.9	16
68	The anti-tumor efficacy of 3C23K, a glyco-engineered humanized anti-MISRII antibody, in an ovarian cancer model is mainly mediated by engagement of immune effector cells. Oncotarget, 2017, 8, 37061-37079.	1.8	16
69	Lactoferrin Retargets Human Adenoviruses to TLR4 to Induce an Abortive NLRP3-Associated Pyroptotic Response in Human Phagocytes. Frontiers in Immunology, 2021, 12, 685218.	4.8	16
70	Low molecular weight serine protease inhibitors from insects are proteins with highly conserved sequences. Insect Biochemistry and Molecular Biology, 2000, 30, 145-152.	2.7	15
71	Alterins Produced by Oyster-Associated Pseudoalteromonas Are Antibacterial Cyclolipopeptides with LPS-Binding Activity. Marine Drugs, 2020, 18, 630.	4.6	15
72	The humanized anti-human AMHRII mAb 3C23K exerts an anti-tumor activity against human ovarian cancer through tumor-associated macrophages. Oncotarget, 2017, 8, 99950-99965.	1.8	14

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73	Adsorption liquid chromatography on silica for the chiral separation of amino acids and asymmetric amines derivatized with optically active N-Î±-9-fluorenylmethyloxycarbonyl-amino acid-N-carboxyanhydrides. Journal of Chromatography A, 1997, 767, 69-75.	3.7	13
74	The chimeric mouse-human anti-CD4 Fab 13B8.2 expressed in baculovirus inhibits both antigen presentation and HIV-1 promoter activation. Human Antibodies, 2001, 10, 67-76.	1.5	13
75	A strategy for inducing an immune response against Androctonus australis scorpion venom toxin I in mice. Production of high-affinity monoclonal antibodies and their use in a sensitive two-site immunometric assay. Journal of Immunological Methods, 2002, 271, 37-46.	1.4	13
76	Fully human IgG and IgM antibodies directed against the carcinoembryonic antigen (CEA) Gold 4 epitope and designed for radioimmunotherapy (RIT) of colorectal cancers. BMC Cancer, 2004, 4, 75.	2.6	13
77	A homogeneous resonance energy transfer-based assay to monitor MutS/DNA interactions. Analytical Biochemistry, 2008, 383, 301-306.	2.4	13
78	Nanofluidic Fluorescence Microscopy (NFM) for real-time monitoring of protein binding kinetics and affinity studies. Biosensors and Bioelectronics, 2017, 88, 25-33.	10.1	13
79	CCSP counterbalances airway epithelial-driven neutrophilic chemotaxis. European Respiratory Journal, 2019, 54, 1802408.	6.7	13
80	Interaction of the octapeptide angiotensin II with a high-affinity single-chain Fv and with peptides derived from the antibody paratope. Journal of Immunological Methods, 2001, 254, 147-160.	1.4	11
81	Atomic Force Microscopy Study of the Topography and Nanomechanics of Casein Micelles Captured by an Antibody. Langmuir, 2017, 33, 4720-4728.	3.5	11
82	Design, Synthesis and Evaluation of a Series of 1,5â€Diarylâ€1,2,3â€triazoleâ€4â€carbohydrazones as Inhibitors of the YAPâ€TAZ/TEAD Complex. ChemMedChem, 2021, 16, 2823-2844.	3.2	11
83	Enzymatic synthesis of side chain benzyl esters of L-Î±-amino dicarboxylic acids. Tetrahedron: Asymmetry, 1992, 3, 1015-1018.	1.8	10
84	Expression and folding of an antibody fragment selected in vivo for high expression levels in Escherichia coli cytoplasm. Research in Microbiology, 2002, 153, 469-474.	2.1	10
85	Kinetics of Interaction between ADP-ribosylation Factor-1 (Arf1) and the Sec7 Domain of Arno Guanine Nucleotide Exchange Factor, Modulation by Allosteric Factors, and the Uncompetitive Inhibitor Brefeldin A. Journal of Biological Chemistry, 2013, 288, 4659-4672.	3.4	10
86	Pronase in amino acid technology: Optical resolution of nonproteinogenic ?-amino acids. Chirality, 1994, 6, 472-478.	2.6	9
87	Highly conserved Î²16/Î²17 Î²-hairpin structure in human immunodeficiency virus type 1 YU2 gp120 is critical for CCR5 binding. Journal of Molecular Medicine, 2005, 83, 542-552.	3.9	9
88	Biological activities on T lymphocytes of a baculovirus-expressed chimeric recombinant IgG1 antibody with specificity for the CDR3-like loop on the D1 domain of the CD4 molecule. Clinical Immunology, 2006, 119, 38-50.	3.2	9
89	Thrombospondin-1 (TSP-1), a new bone morphogenetic protein-2 and -4 (BMP-2/4) antagonist identified in pituitary cells. Journal of Biological Chemistry, 2017, 292, 15352-15368.	3.4	9
90	Adenovirus-Î±-Defensin Complexes Induce NLRP3-Associated Maturation of Human Phagocytes via Toll-Like Receptor 4 Engagement. Journal of Virology, 2022, 96, jvi0185021.	3.4	9

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91	Study of hydrophobic interactions between acylated proteins and phospholipid bilayers using BIACORE. Journal of Molecular Recognition, 2001, 14, 72-78.	2.1	8
92	Characterization of monoclonal antibodies against Escherichia coli core RNA polymerase. Biochemical Journal, 2002, 361, 347-354.	3.7	8
93	Thyroid Peroxidase Autoantibodies Obtained from Random Single Chain Fv Libraries Contain the Same Heavy/Light Chain Combinations as Occur in Vivo. Endocrinology, 2001, 142, 4740-4750.	2.8	7
94	Enzymatic hydrolysis of asymmetric heterocyclic amino acid derivatives. Biotechnology Letters, 1985, 7, 641-646.	2.2	6
95	4C3 Human Monoclonal Antibody: A Proof of Concept for Non-pathogenic Proteinase 3 Anti-neutrophil Cytoplasmic Antibodies in Granulomatosis With Polyangiitis. Frontiers in Immunology, 2020, 11, 573040.	4.8	6
96	Characterization of monoclonal antibodies against Escherichia coli core RNA polymerase. Biochemical Journal, 2002, 361, 347.	3.7	5
97	Modulation of ?-chymotrypsin specificity induced by pyridoxal. Biotechnology Letters, 1981, 3, 571-576.	2.2	4
98	Optical resolution of two isomeric naphthylalanines by immobilized enyzmes. Chirality, 1991, 3, 170-173.	2.6	4
99	Exploration and Modulation of Antibody Fragment Biophysical Properties by Replacing the Framework Region Sequences. Antibodies, 2020, 9, 9.	2.5	4
100	Development of Amino Acids Functionalized SBA-15 for the Improvement of Protein Adsorption. Molecules, 2021, 26, 6085.	3.8	4
101	Racemization of amino acid esters by aromatic aldehydes in basic non-aqueous solvents. Biotechnology Letters, 1985, 7, 31-36.	2.2	3
102	Nanofluidic fluorescence microscopy with integrated concentration gradient generation for one-shot parallel kinetic assays. Sensors and Actuators B: Chemical, 2018, 274, 338-342.	7.8	3
103	Abstract B245: Claudin-1 (CLDN1) as a new therapeutic target in colorectal cancer: Inhibition of cell growth and survival by an anti-CLDN1 monoclonal antibody.. , 2013, , .		2
104	Precise Characterization of the Epitope Recognized by a Monoclonal Antibody AgainstEscherichia coliRNA Polymerase. Hybridoma, 2005, 24, 1-5.	0.4	1
105	121 POSTER Isolation and characterisation of anti-idiotypic scFv antibody fragments and llama VHH domains used as a surrogate tumour antigen to elicit an anti-HER-2 humoral response in mice. European Journal of Cancer, Supplement, 2006, 4, 40.	2.2	1
106	Abstract 2528: 3C23K: an anti-human MÃ¼llerian inhibiting substance type II receptor humanized monoclonal antibody for ovarian cancer targeted therapy. , 2012, , .		1
107	Abstract 1779: Anti-MÃ¼llerian hormone type II receptor (AMHRII), a cancer target for GM103, a novel antibody-drug conjugate (ADC). , 2018, , .		0