

Alex Y Strongin

List of Publications by Year in descending order

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184
papers

12,620
citations

29994

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28224

105
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185
all docs

185
docs citations

185
times ranked

12990
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism Of Cell Surface Activation Of 72-kDa Type IV Collagenase. Journal of Biological Chemistry, 1995, 270, 5331-5338.	1.6	1,392
2	Compensation mechanism in tumor cell migration. Journal of Cell Biology, 2003, 160, 267-277.	2.3	1,284
3	S-Nitrosylation of Matrix Metalloproteinases: Signaling Pathway to Neuronal Cell Death. Science, 2002, 297, 1186-1190.	6.0	897
4	A Highly Specific Inhibitor of Matrix Metalloproteinase-9 Rescues Laminin from Proteolysis and Neurons from Apoptosis in Transient Focal Cerebral Ischemia. Journal of Neuroscience, 2005, 25, 6401-6408.	1.7	397
5	MT1-MMP Initiates Activation of pro-MMP-2 and Integrin $\alpha 5 \beta 1$ Promotes Maturation of MMP-2 in Breast Carcinoma Cells. Experimental Cell Research, 2001, 263, 209-223.	1.2	359
6	Insights into RNA unwinding and ATP hydrolysis by the flavivirus NS3 protein. EMBO Journal, 2008, 27, 3209-3219.	3.5	221
7	Matrix-dependent Proteolysis of Surface Transglutaminase by Membrane-type Metalloproteinase Regulates Cancer Cell Adhesion and Locomotion. Journal of Biological Chemistry, 2001, 276, 18415-18422.	1.6	214
8	Processing of Integrin $\alpha 5 \beta 1$ Subunit by Membrane Type 1 Matrix Metalloproteinase Stimulates Migration of Breast Carcinoma Cells on Vitronectin and Enhances Tyrosine Phosphorylation of Focal Adhesion Kinase. Journal of Biological Chemistry, 2002, 277, 9749-9756.	1.6	197
9	Structural evidence for regulation and specificity of flaviviral proteases and evolution of the Flaviviridae fold. Protein Science, 2007, 16, 795-806.	3.1	187
10	Mutation Analysis of Membrane Type-1 Matrix Metalloproteinase (MT1-MMP). Journal of Biological Chemistry, 2001, 276, 25705-25714.	1.6	147
11	Functional activation of integrin $\alpha 5 \beta 1$ in tumor cells expressing membrane-type 1 matrix metalloproteinase. , 2000, 86, 15-23.		142
12	An Alternative Processing of Integrin $\alpha 5 \beta 1$ Subunit in Tumor Cells by Membrane Type-1 Matrix Metalloproteinase. Journal of Biological Chemistry, 2002, 277, 7377-7385.	1.6	134
13	Up-regulation of vascular endothelial growth factor by membrane-type 1 matrix metalloproteinase stimulates human glioma xenograft growth and angiogenesis. Cancer Research, 2002, 62, 580-8.	0.4	132
14	Efficient synthetic inhibitors of anthrax lethal factor. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9499-9504.	3.3	126
15	Substrate Cleavage Analysis of Furin and Related Proprotein Convertases. Journal of Biological Chemistry, 2008, 283, 20897-20906.	1.6	126
16	Novel MT1-MMP Small-Molecule Inhibitors Based on Insights into Hemopexin Domain Function in Tumor Growth. Cancer Research, 2012, 72, 2339-2349.	0.4	122
17	Characterization of matrix metalloproteinase-26, a novel metalloproteinase widely expressed in cancer cells of epithelial origin. Biochemical Journal, 2001, 356, 705-718.	1.7	119
18	The Low Density Lipoprotein Receptor-related Protein LRP Is Regulated by Membrane Type-1 Matrix Metalloproteinase (MT1-MMP) Proteolysis in Malignant Cells. Journal of Biological Chemistry, 2004, 279, 4260-4268.	1.6	119

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19	MMP-28, a new human matrix metalloproteinase with an unusual cysteine-switch sequence is widely expressed in tumors. <i>Gene</i> , 2001, 265, 87-93.	1.0	116
20	Repurposing of the anti-malaria drug chloroquine for Zika Virus treatment and prophylaxis. <i>Scientific Reports</i> , 2017, 7, 15771.	1.6	111
21	Characterization of the Zika virus two-component NS2B-NS3 protease and structure-assisted identification of allosteric small-molecule antagonists. <i>Antiviral Research</i> , 2017, 143, 218-229.	1.9	104
22	Simultaneous Visualization of Protumorigenic Src and MT1-MMP Activities with Fluorescence Resonance Energy Transfer. <i>Cancer Research</i> , 2010, 70, 2204-2212.	0.4	102
23	Tumor cell invasion through matrigel is regulated by activated matrix metalloproteinase-2. <i>Anticancer Research</i> , 1997, 17, 3201-10.	0.5	102
24	Human β -cell Precursors Mature Into Functional Insulin-producing Cells in an Immunoisolation Device: Implications for Diabetes Cell Therapies. <i>Transplantation</i> , 2009, 87, 983-991.	0.5	99
25	Membrane type-1 matrix metalloproteinase stimulates tumour cell-induced platelet aggregation: role of receptor glycoproteins. <i>British Journal of Pharmacology</i> , 2004, 141, 241-252.	2.7	98
26	HTS Identifies Novel and Specific Uncompetitive Inhibitors of the Two-Component NS2B-NS3 Proteinase of West Nile Virus. <i>Assay and Drug Development Technologies</i> , 2007, 5, 737-750.	0.6	95
27	Tissue Inhibitor of Metalloproteinases-2 Binding to Membrane-type 1 Matrix Metalloproteinase Induces MAPK Activation and Cell Growth by a Non-proteolytic Mechanism. <i>Journal of Biological Chemistry</i> , 2008, 283, 87-99.	1.6	95
28	Epigenetic Control of the Invasion-promoting MT1-MMP/MMP-2/TIMP-2 Axis in Cancer Cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 12727-12734.	1.6	95
29	Cleavage targets and the D-arginine-based inhibitors of the West Nile virus NS3 processing proteinase. <i>Biochemical Journal</i> , 2006, 393, 503-511.	1.7	94
30	Targeting Host Cell Furin Proprotein Convertases as a Therapeutic Strategy against Bacterial Toxins and Viral Pathogens*. <i>Journal of Biological Chemistry</i> , 2007, 282, 20847-20853.	1.6	93
31	Proteolytic and non-proteolytic roles of membrane type-1 matrix metalloproteinase in malignancy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2010, 1803, 133-141.	1.9	91
32	β -Catenin regulates the gene of MMP-26, a novel matrix metalloproteinase expressed both in carcinomas and normal epithelial cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2004, 36, 942-956.	1.2	88
33	The MMP-9/TIMP-1 Axis Controls the Status of Differentiation and Function of Myelin-Forming Schwann Cells in Nerve Regeneration. <i>PLoS ONE</i> , 2012, 7, e33664.	1.1	88
34	A Unique Substrate Binding Mode Discriminates Membrane Type-1 Matrix Metalloproteinase from Other Matrix Metalloproteinases. <i>Journal of Biological Chemistry</i> , 2002, 277, 23788-23793.	1.6	84
35	Membrane Type-1 Matrix Metalloproteinase (MT1-MMP) Exhibits an Important Intracellular Cleavage Function and Causes Chromosome Instability. <i>Journal of Biological Chemistry</i> , 2005, 280, 25079-25086.	1.6	84
36	Promoter characterization of the novel human matrix metalloproteinase-26 gene: regulation by the T-cell factor-4 implies specific expression of the gene in cancer cells of epithelial origin. <i>Biochemical Journal</i> , 2002, 363, 253-262.	1.7	82

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37	Mislocalization and unconventional functions of cellular MMPs in cancer. <i>Cancer and Metastasis Reviews</i> , 2006, 25, 87-98.	2.7	80
38	Characterization of matrix metalloproteinase-26, a novel metalloproteinase widely expressed in cancer cells of epithelial origin. <i>Biochemical Journal</i> , 2001, 356, 705.	1.7	79
39	The Wnt/Planar Cell Polarity Protein-tyrosine Kinase-7 (PTK7) Is a Highly Efficient Proteolytic Target of Membrane Type-1 Matrix Metalloproteinase. <i>Journal of Biological Chemistry</i> , 2010, 285, 35740-35749.	1.6	77
40	Matrix Metalloproteinase Proteolysis of the Myelin Basic Protein Isoforms Is a Source of Immunogenic Peptides in Autoimmune Multiple Sclerosis. <i>PLoS ONE</i> , 2009, 4, e4952.	1.1	76
41	Membrane type-1 matrix metalloproteinase (MT1-MMP) processing of pro- $\alpha_5\beta_1$ integrin regulates cross-talk between $\alpha_5\beta_1$ and $\alpha_2\beta_1$ integrins in breast carcinoma cells. <i>Experimental Cell Research</i> , 2003, 291, 167-175.	1.2	75
42	Basis for substrate recognition and distinction by matrix metalloproteinases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4148-55.	3.3	75
43	Determination of Matrix Metalloproteinase Activity Using Biotinylated Gelatin. <i>Analytical Biochemistry</i> , 2000, 286, 149-155.	1.1	73
44	Active-site MMP-selective antibody inhibitors discovered from convex paratope synthetic libraries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14970-14975.	3.3	72
45	Aberrant, persistent inclusion into lipid rafts limits the tumorigenic function of membrane type-1 matrix metalloproteinase in malignant cells. <i>Experimental Cell Research</i> , 2004, 293, 81-95.	1.2	69
46	Structure-activity relationship and improved hydrolytic stability of pyrazole derivatives that are allosteric inhibitors of West Nile Virus NS2B-NS3 proteinase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 5773-5777.	1.0	69
47	Interaction of Hepatitis B Viral Oncoprotein with Cellular Target HBXIP Dysregulates Centrosome Dynamics and Mitotic Spindle Formation. <i>Journal of Biological Chemistry</i> , 2008, 283, 2793-2803.	1.6	68
48	NS4A regulates the ATPase activity of the NS3 helicase: a novel cofactor role of the non-structural protein NS4A from West Nile virus. <i>Journal of General Virology</i> , 2009, 90, 2081-2085.	1.3	67
49	The transmembrane domain is essential for the microtubular trafficking of membrane type-1 matrix metalloproteinase (MT1-MMP). <i>Journal of Cell Science</i> , 2005, 118, 4975-4984.	1.2	65
50	Prostaglandin FP Agonists Alter Metalloproteinase Gene Expression in Sclera. , 2004, 45, 4368.		61
51	Furin regulates the intracellular activation and the uptake rate of cell surface-associated MT1-MMP. <i>Oncogene</i> , 2006, 25, 5648-5655.	2.6	61
52	Intracellular serine protease from <i>Bacillus subtilis</i> . Structural comparison with extracellular serine proteases-subtilisins. <i>Biochemical and Biophysical Research Communications</i> , 1977, 77, 298-305.	1.0	60
53	The Calcium-binding Proteins S100A8 and S100A9 Initiate the Early Inflammatory Program in Injured Peripheral Nerves. <i>Journal of Biological Chemistry</i> , 2015, 290, 11771-11784.	1.6	60
54	Molecular Signature of MT1-MMP: Transactivation of the Downstream Universal Gene Network in Cancer. <i>Cancer Research</i> , 2008, 68, 4086-4096.	0.4	59

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55	Anthrax Lethal Factor Protease Inhibitors: Synthesis, SAR, and Structure-Based 3D QSAR Studies. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 27-30.	2.9	58
56	Zika Virus: Origins, Pathological Action, and Treatment Strategies. <i>Frontiers in Microbiology</i> , 2018, 9, 3252.	1.5	58
57	Promoter characterization of the novel human matrix metalloproteinase-26 gene: regulation by the T-cell factor-4 implies specific expression of the gene in cancer cells of epithelial origin. <i>Biochemical Journal</i> , 2002, 363, 253.	1.7	57
58	Cleavage preference distinguishes the two-component NS2/NS3 serine proteinases of Dengue and West Nile viruses. <i>Biochemical Journal</i> , 2007, 401, 743-752.	1.7	57
59	Timp2 binding with cellular MT1-MMP stimulates invasion-promoting MEK/ERK signaling in cancer cells. <i>International Journal of Cancer</i> , 2010, 126, 1067-1078.	2.3	57
60	Delayed administration of a matrix metalloproteinase inhibitor limits progressive brain injury after hypoxia-ischemia in the neonatal rat. <i>Journal of Neuroinflammation</i> , 2008, 5, 34.	3.1	56
61	Immunodominant fragments of myelin basic protein initiate T cell-dependent pain. <i>Journal of Neuroinflammation</i> , 2012, 9, 119.	3.1	56
62	Cell-Surface-Associated Tissue Transglutaminase Is a Target of MMP-2 Proteolysis. <i>Biochemistry</i> , 2004, 43, 11760-11769.	1.2	55
63	Matrix Metalloproteinase 26 Proteolysis of the NH2-Terminal Domain of the Estrogen Receptor β Correlates with the Survival of Breast Cancer Patients. <i>Cancer Research</i> , 2006, 66, 2716-2724.	0.4	55
64	Epigenetic regulation of matrix metalloproteinases and their collagen substrates in cancer. <i>Biomolecular Concepts</i> , 2011, 2, 135-147.	1.0	55
65	High-Resolution Analysis and Functional Mapping of Cleavage Sites and Substrate Proteins of Furin in the Human Proteome. <i>PLoS ONE</i> , 2013, 8, e54290.	1.1	54
66	O-Glycosylation Regulates Autolysis of Cellular Membrane Type-1 Matrix Metalloproteinase (MT1-MMP). <i>Journal of Biological Chemistry</i> , 2006, 281, 16897-16905.	1.6	53
67	Protein-tyrosine Pseudokinase 7 (PTK7) Directs Cancer Cell Motility and Metastasis. <i>Journal of Biological Chemistry</i> , 2014, 289, 24238-24249.	1.6	53
68	The cytoplasmic tail peptide sequence of membrane type-1 matrix metalloproteinase (MT1-MMP) directly binds to gC1qR, a compartment-specific chaperone-like regulatory protein. <i>FEBS Letters</i> , 2002, 527, 51-57.	1.3	50
69	Activatable and Cell-Penetrable Multiplex FRET Nanosensor for Profiling MT1-MMP Activity in Single Cancer Cells. <i>Nano Letters</i> , 2015, 15, 5025-5032.	4.5	50
70	The isolation and properties of collagenolytic proteases from crab hepatopancreas. <i>Biochemical and Biophysical Research Communications</i> , 1990, 166, 1411-1420.	1.0	49
71	The Hemopexin-like C-terminal Domain of Membrane Type 1 Matrix Metalloproteinase Regulates Proteolysis of a Multifunctional Protein, gC1qR. <i>Journal of Biological Chemistry</i> , 2002, 277, 9318-9325.	1.6	49
72	Matrix Metalloproteinase-26 Is Associated with Estrogen-Dependent Malignancies and Targets β -1-Antitrypsin Serpin. <i>Cancer Research</i> , 2004, 64, 8657-8665.	0.4	49

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73	Rhodanine Derivatives as Selective Protease Inhibitors Against Bacterial Toxins. <i>Chemical Biology and Drug Design</i> , 2008, 71, 131-139.	1.5	49
74	The structure and regulation of the human and mouse matrix metalloproteinase-21 gene and protein. <i>Biochemical Journal</i> , 2003, 372, 503-515.	1.7	48
75	Switching the Substrate Specificity of the Two-Component NS2B-NS3 Flavivirus Proteinase by Structure-Based Mutagenesis. <i>Journal of Virology</i> , 2007, 81, 4501-4509.	1.5	48
76	Coordinated histone modifications and chromatin reorganization in a single cell revealed by FRET biosensors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11681-E11690.	3.3	48
77	Microarray-based Transcriptional and Epigenetic Profiling of Matrix Metalloproteinases, Collagens, and Related Genes in Cancer. <i>Journal of Biological Chemistry</i> , 2010, 285, 19647-19659.	1.6	47
78	Membrane Type-1 Matrix Metalloproteinase Functions as a Proprotein Self-convertase. <i>Journal of Biological Chemistry</i> , 2003, 278, 8257-8260.	1.6	46
79	Virtual Ligand Screening of the National Cancer Institute (NCI) Compound Library Leads to the Allosteric Inhibitory Scaffolds of the West Nile Virus NS3 Proteinase. <i>Assay and Drug Development Technologies</i> , 2011, 9, 69-78.	0.6	46
80	Identification of Annexin A4 as a hepatopancreas factor involved in liver cell survival. <i>Developmental Biology</i> , 2014, 395, 96-110.	0.9	46
81	Membrane-type-1 matrix metalloproteinase confers tumorigenicity on nonmalignant epithelial cells. <i>Oncogene</i> , 2005, 24, 1689-1697.	2.6	44
82	Matrix Metalloproteinase-14 Both Sheds Cell Surface Neuronal Glial Antigen 2 (NG2) Proteoglycan on Macrophages and Governs the Response to Peripheral Nerve Injury. <i>Journal of Biological Chemistry</i> , 2015, 290, 3693-3707.	1.6	44
83	Proteoglycan Maturation Follows Rapid Trafficking and Processing of MT1-MMP in Furin-Negative Colon Carcinoma LoVo Cells. <i>Traffic</i> , 2004, 5, 627-641.	1.3	43
84	The Two-component NS2B-NS3 Proteinase Represses DNA Unwinding Activity of the West Nile Virus NS3 Helicase. <i>Journal of Biological Chemistry</i> , 2008, 283, 17270-17278.	1.6	43
85	A new chromogenic substrate for subtilisin. <i>Analytical Biochemistry</i> , 1974, 62, 371-376.	1.1	42
86	Gelatin Zymography and Substrate Cleavage Assays of Matrix Metalloproteinase-2 in Breast Carcinoma Cells Overexpressing Membrane Type-1 Matrix Metalloproteinase. <i>Laboratory Investigation</i> , 2002, 82, 1583-1590.	1.7	41
87	Unconventional Activation Mechanisms of MMP-26, a Human Matrix Metalloproteinase with a Unique PHCG XXD Cysteine-switch Motif. <i>Journal of Biological Chemistry</i> , 2002, 277, 18967-18972.	1.6	40
88	Inflammatory Proprotein Convertase-Matrix Metalloproteinase Proteolytic Pathway in Antigen-presenting Cells as a Step to Autoimmune Multiple Sclerosis. <i>Journal of Biological Chemistry</i> , 2009, 284, 30615-30626.	1.6	39
89	A monoclonal antibody interferes with TIMP-2 binding and incapacitates the MMP-2-activating function of multifunctional, pro-tumorigenic MMP-14/MT1-MMP. <i>Oncogenesis</i> , 2013, 2, e80-e80.	2.1	39
90	Matrix metalloproteinases – From the cleavage data to the prediction tools and beyond. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 1952-1963.	1.9	39

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91	Human 92kDa type IV collagenase: Functional analysis of fibronectin and carboxyl-end domains. <i>Kidney International</i> , 1993, 43, 158-162.	2.6	38
92	Engineering a leucine zipper-TRAIL homotrimer with improved cytotoxicity in tumor cells. <i>Molecular Cancer Therapeutics</i> , 2009, 8, 1515-1525.	1.9	37
93	Mycoplasma CG- and GATC-specific DNA methyltransferases selectively and efficiently methylate the host genome and alter the epigenetic landscape in human cells. <i>Epigenetics</i> , 2015, 10, 303-318.	1.3	37
94	Selective and potent furin inhibitors protect cells from anthrax without significant toxicity. <i>International Journal of Biochemistry and Cell Biology</i> , 2010, 42, 987-995.	1.2	36
95	Cellular Membrane Type-1 Matrix Metalloproteinase (MT1-MMP) Cleaves C3b, an Essential Component of the Complement System. <i>Journal of Biological Chemistry</i> , 2004, 279, 46551-46557.	1.6	35
96	Distinct Interactions with Cellular E-Cadherin of the Two Virulent Metalloproteinases Encoded by a <i>Bacteroides fragilis</i> Pathogenicity Island. <i>PLoS ONE</i> , 2014, 9, e113896.	1.1	35
97	Selective function-blocking monoclonal human antibody highlights the important role of membrane type-1 matrix metalloproteinase (MT1-MMP) in metastasis. <i>Oncotarget</i> , 2017, 8, 2781-2799.	0.8	35
98	Membrane Type-1 Matrix Metalloproteinase Confers Aneuploidy and Tumorigenicity on Mammary Epithelial Cells. <i>Cancer Research</i> , 2006, 66, 10460-10465.	0.4	34
99	New Details of HCV NS3/4A Proteinase Functionality Revealed by a High-Throughput Cleavage Assay. <i>PLoS ONE</i> , 2012, 7, e35759.	1.1	34
100	Inhibition of Membrane Type-1 Matrix Metalloproteinase by Cancer Drugs Interferes with the Homing of Diabetogenic T Cells into the Pancreas. <i>Journal of Biological Chemistry</i> , 2005, 280, 27755-27758.	1.6	33
101	Cloning and expression of <i>Clostridium thermocellum</i> genes coding for thermostable exoglucanases (cellobiohydrolases) in <i>Escherichia coli</i> cells. <i>Biochemical and Biophysical Research Communications</i> , 1990, 169, 1055-1060.	1.0	32
102	Structure-based mutagenesis identifies important novel determinants of the NS2B cofactor of the West Nile virus two-component NS2B-NS3 proteinase. <i>Journal of General Virology</i> , 2008, 89, 636-641.	1.3	32
103	Quantitative FRET Imaging to Visualize the Invasiveness of Live Breast Cancer Cells. <i>PLoS ONE</i> , 2013, 8, e58569.	1.1	31
104	Acute- and late-phase matrix metalloproteinase (MMP)-9 activity is comparable in female and male rats after peripheral nerve injury. <i>Journal of Neuroinflammation</i> , 2018, 15, 89.	3.1	31
105	Proteolysis of the Membrane Type-1 Matrix Metalloproteinase Prodomain. <i>Journal of Biological Chemistry</i> , 2007, 282, 36283-36291.	1.6	30
106	Expression and purification of a two-component flaviviral proteinase resistant to autocleavage at the NS2B-NS3 junction region. <i>Protein Expression and Purification</i> , 2007, 52, 334-339.	0.6	30
107	Centrosomal Pericentrin Is a Direct Cleavage Target of Membrane Type-1 Matrix Metalloproteinase in Humans but Not in Mice. <i>Journal of Biological Chemistry</i> , 2005, 280, 42237-42241.	1.6	29
108	Crystal and Solution Structures of a Prokaryotic M16B Peptidase: an Open and Shut Case. <i>Structure</i> , 2009, 17, 1465-1475.	1.6	29

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109	Methylation of <i>MGMT</i> and <i>ADAMTS14</i> in normal colon mucosa: biomarkers of a field defect for cancerization preferentially targeting elder African-Americans. <i>Oncotarget</i> , 2015, 6, 3420-3431.	0.8	29
110	Proteolysis-Driven Oncogenesis. <i>Cell Cycle</i> , 2007, 6, 147-150.	1.3	27
111	Insights into Ectodomain Shedding and Processing of Protein-tyrosine Pseudokinase 7 (PTK7). <i>Journal of Biological Chemistry</i> , 2012, 287, 42009-42018.	1.6	27
112	High-Throughput Multiplexed Peptide-Centric Profiling Illustrates Both Substrate Cleavage Redundancy and Specificity in the MMP Family. <i>Chemistry and Biology</i> , 2015, 22, 1122-1133.	6.2	26
113	Prinomastat, a hydroxamate inhibitor of matrix metalloproteinases, has a complex effect on migration of breast carcinoma cells. <i>International Journal of Cancer</i> , 2003, 104, 533-541.	2.3	25
114	Convergent evolution as a mechanism for pathogenic adaptation. <i>Trends in Microbiology</i> , 2005, 13, 522-527.	3.5	25
115	Autocatalytic Activation of the Furin Zymogen Requires Removal of the Emerging Enzyme's N-Terminus from the Active Site. <i>PLoS ONE</i> , 2009, 4, e5031.	1.1	25
116	Biochemical Characterization of the Cellular Glycosylphosphatidylinositol-linked Membrane Type-6 Matrix Metalloproteinase. <i>Journal of Biological Chemistry</i> , 2010, 285, 16076-16086.	1.6	25
117	Potential Relation of Aberrant Proteolysis of Human Protein Tyrosine Kinase 7 (PTK7) chuzhoi by Membrane Type 1 Matrix Metalloproteinase (MT1-MMP) to Congenital Defects. <i>Journal of Biological Chemistry</i> , 2011, 286, 20970-20976.	1.6	25
118	Substrate Cleavage Profiling Suggests a Distinct Function of <i>Bacteroides fragilis</i> Metalloproteinases (Fragilysin and Metalloproteinase II) at the Microbiome-Inflammation-Cancer Interface. <i>Journal of Biological Chemistry</i> , 2013, 288, 34956-34967.	1.6	25
119	A reliable technique for large-scale DNA separation. <i>Analytical Biochemistry</i> , 1977, 79, 1-10.	1.1	24
120	Downstream signaling and genome-wide regulatory effects of PTK7 pseudokinase and its proteolytic fragments in cancer cells. <i>Cell Communication and Signaling</i> , 2014, 12, 15.	2.7	24
121	Epigenetic inactivation of the extracellular matrix metalloproteinase ADAMTS19 gene and the metastatic spread in colorectal cancer. <i>Clinical Epigenetics</i> , 2015, 7, 124.	1.8	24
122	Spinal activity of interleukin 6 mediates myelin basic protein-induced allodynia. <i>Brain, Behavior, and Immunity</i> , 2016, 56, 378-389.	2.0	24
123	Directed Evolution to Engineer Monobody for FRET Biosensor Assembly and Imaging at Live-Cell Surface. <i>Cell Chemical Biology</i> , 2018, 25, 370-379.e4.	2.5	23
124	Structural and functional parameters of the flaviviral protease: a promising antiviral drug target. <i>Future Virology</i> , 2010, 5, 593-606.	0.9	22
125	Interference with the Complement System by Tumor Cell Membrane Type-1 Matrix Metalloproteinase Plays a Significant Role in Promoting Metastasis in Mice. <i>Cancer Research</i> , 2006, 66, 6258-6263.	0.4	21
126	Internal Cleavages of the Autoinhibitory Prodomain Are Required for Membrane Type 1 Matrix Metalloproteinase Activation, although Furin Cleavage Alone Generates Inactive Proteinase. <i>Journal of Biological Chemistry</i> , 2010, 285, 27726-27736.	1.6	21

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127	Reciprocal relationship between membrane type 1 matrix metalloproteinase and the algescic peptides of myelin basic protein contributes to chronic neuropathic pain. <i>Brain, Behavior, and Immunity</i> , 2017, 60, 282-292.	2.0	21
128	Cloning of clostridium thermocellum endoglucanase genes in escherichia coli. <i>Biochemical and Biophysical Research Communications</i> , 1990, 167, 1057-1064.	1.0	20
129	On the appearance of <i>Bacillus subtilis</i> intracellular serine protease in the cell membrane and culture medium. <i>Archives of Microbiology</i> , 1978, 119, 287-293.	1.0	19
130	Nicotinic acetylcholine receptor-mediated stimulation of endothelial cells results in the arrest of haematopoietic progenitor cells on endothelium. <i>British Journal of Haematology</i> , 2005, 129, 257-265.	1.2	18
131	Defining the roles of T cell membrane proteinase and CD44 in type 1 diabetes. <i>IUBMB Life</i> , 2007, 59, 6-13.	1.5	18
132	Structural and functional diversity of metalloproteinases encoded by the <i>Bacteroides fragilis</i> pathogenicity island. <i>FEBS Journal</i> , 2014, 281, 2487-2502.	2.2	18
133	The alternatively spliced fibronectin CS1 isoform regulates IL-17A levels and mechanical allodynia after peripheral nerve injury. <i>Journal of Neuroinflammation</i> , 2015, 12, 158.	3.1	18
134	Potential Therapeutic Targeting of Coronavirus Spike Glycoprotein Priming. <i>Molecules</i> , 2020, 25, 2424.	1.7	18
135	Non-proteolytic, Receptor/Ligand Interactions Associate Cellular Membrane Type-1 Matrix Metalloproteinase with the Complement Component C1q. <i>Journal of Biological Chemistry</i> , 2004, 279, 50321-50328.	1.6	17
136	Role of myelin auto-antigens in pain: a female connection. <i>Neural Regeneration Research</i> , 2016, 11, 890.	1.6	17
137	Targeting Metalloproteins by Fragment-Based Lead Discovery. <i>Chemical Biology and Drug Design</i> , 2011, 78, 211-223.	1.5	15
138	Intradomain Cleavage of Inhibitory Prodomain Is Essential to Protumorigenic Function of Membrane Type-1 Matrix Metalloproteinase (MT1-MMP) in Vivo. <i>Journal of Biological Chemistry</i> , 2011, 286, 34215-34223.	1.6	15
139	Activity, Specificity, and Probe Design for the Smallpox Virus Protease K7L. <i>Journal of Biological Chemistry</i> , 2012, 287, 39470-39479.	1.6	15
140	A myelin basic protein fragment induces sexually dimorphic transcriptome signatures of neuropathic pain in mice. <i>Journal of Biological Chemistry</i> , 2020, 295, 10807-10821.	1.6	15
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