

Manuel Koch

List of Publications by Year in descending order

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159
papers

9,583
citations

31976

53
h-index

48315

88
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173
all docs

173
docs citations

173
times ranked

13918
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultraviolet-radiation-induced inflammation promotes angiotropism and metastasis in melanoma. Nature, 2014, 507, 109-113.	27.8	547
2	Longitudinal Isolation of Potent Near-Germline SARS-CoV-2-Neutralizing Antibodies from COVID-19 Patients. Cell, 2020, 182, 843-854.e12.	28.9	310
3	Regulation of angiogenesis: Wound healing as a model. Progress in Histochemistry and Cytochemistry, 2007, 42, 115-170.	5.1	290
4	Collagens are functional, high affinity ligands for the inhibitory immune receptor LAIR-1. Journal of Experimental Medicine, 2006, 203, 1419-1425.	8.5	278
5	Laminin Expression in Adult and Developing Retinae: Evidence of Two Novel CNS Laminins. Journal of Neuroscience, 2000, 20, 6517-6528.	3.6	247
6	Characterization and Expression of the Laminin β 3 Chain: A Novel, Non-Basement Membrane-associated, Laminin Chain. Journal of Cell Biology, 1999, 145, 605-618.	5.2	232
7	Differential Proteomic Analysis Distinguishes Tissue Repair Biomarker Signatures in Wound Exudates Obtained from Normal Healing and Chronic Wounds. Journal of Proteome Research, 2010, 9, 4758-4766.	3.7	203
8	Bone Morphogenetic Protein 1 Is an Extracellular Processing Enzyme of the Laminin 5 β 2 Chain. Journal of Biological Chemistry, 2000, 275, 22728-22735.	3.4	201
9	A Novel Marker of Tissue Junctions, Collagen XXII. Journal of Biological Chemistry, 2004, 279, 22514-22521.	3.4	179
10	Regulation of extracellular matrix synthesis by mechanical stress. Biochemistry and Cell Biology, 1996, 74, 737-744.	2.0	173
11	Compositional Differences between Infant and Adult Human Corneal Basement Membranes. , 2007, 48, 4989.		171
12	Collagen XXVIII, a Novel von Willebrand Factor A Domain-containing Protein with Many Imperfections in the Collagenous Domain. Journal of Biological Chemistry, 2006, 281, 3494-3504.	3.4	162
13	Type XIV Collagen Regulates Fibrillogenesis. Journal of Biological Chemistry, 2009, 284, 8427-8438.	3.4	161
14	Tenascin-C expression by fibroblasts is elevated in stressed collagen gels.. Journal of Cell Biology, 1994, 127, 2093-2101.	5.2	160
15	Novel Role for Netrins in Regulating Epithelial Behavior during Lung Branching Morphogenesis. Current Biology, 2004, 14, 897-905.	3.9	159
16	Three Novel Collagen VI Chains with High Homology to the β 3 Chain. Journal of Biological Chemistry, 2008, 283, 10658-10670.	3.4	146
17	The Epidermal Basement Membrane Is a Composite of Separate Laminin- or Collagen IV-containing Networks Connected by Aggregated Perlecan, but Not by Nidogens. Journal of Biological Chemistry, 2012, 287, 18700-18709.	3.4	144
18	A Novel Member of the Netrin Family, β 2-Netrin, Shares Homology with the β 2 Chain of Laminin. Journal of Cell Biology, 2000, 151, 221-234.	5.2	143

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19	Collagen XII: Protecting bone and muscle integrity by organizing collagen fibrils. International Journal of Biochemistry and Cell Biology, 2014, 53, 51-54.	2.8	127
20	Collagen XII and XIV, New Partners of Cartilage Oligomeric Matrix Protein in the Skin Extracellular Matrix Suprastructure. Journal of Biological Chemistry, 2012, 287, 22549-22559.	3.4	114
21	Type XII collagen regulates osteoblast polarity and communication during bone formation. Journal of Cell Biology, 2011, 193, 1115-1130.	5.2	113
22	Supramolecular Interactions in the Dermo-epidermal Junction Zone. Journal of Biological Chemistry, 2008, 283, 24506-24513.	3.4	111
23	Recessive and dominant mutations in COL12A1 cause a novel EDS/myopathy overlap syndrome in humans and mice. Human Molecular Genetics, 2014, 23, 2339-2352.	2.9	107
24	Large and small splice variants of collagen XII: differential expression and ligand binding.. Journal of Cell Biology, 1995, 130, 1005-1014.	5.2	106
25	Proteinases of the Bone Morphogenetic Protein-1 Family Convert Procollagen VII to Mature Anchoring Fibril Collagen. Journal of Biological Chemistry, 2002, 277, 26372-26378.	3.4	105
26	Scleraxis Is Required for Cell Lineage Differentiation and Extracellular Matrix Remodeling During Murine Heart Valve Formation In Vivo. Circulation Research, 2008, 103, 948-956.	4.5	104
27	Knockdown of <i>col22a1</i> gene in zebrafish induces a muscular dystrophy by disruption of the myotendinous junction. Development (Cambridge), 2013, 140, 4602-4613.	2.5	100
28	Collagen XXIV, a Vertebrate Fibrillar Collagen with Structural Features of Invertebrate Collagens. Journal of Biological Chemistry, 2003, 278, 43236-43244.	3.4	99
29	Long-lived macrophage reprogramming drives spike protein-mediated inflammasome activation in COVID-19. EMBO Molecular Medicine, 2021, 13, e14150.	6.9	98
30	Rapid and Reversible Regulation of Collagen XII Expression by Changes in Tensile Stress. Experimental Cell Research, 1999, 247, 320-328.	2.6	95
31	Odd skipped-related 1 identifies a population of embryonic fibro-adipogenic progenitors regulating myogenesis during limb development. Nature Communications, 2017, 8, 1218.	12.8	95
32	Probing the Functional Equivalence of Otoferlin and Synaptotagmin 1 in Exocytosis. Journal of Neuroscience, 2011, 31, 4886-4895.	3.6	94
33	Basement membrane stiffness determines metastases formation. Nature Materials, 2021, 20, 892-903.	27.5	94
34	The roles of types XII and XIV collagen in fibrillogenesis and matrix assembly in the developing cornea. Journal of Cellular Biochemistry, 2002, 87, 208-220.	2.6	90
35	Tenascin-Y: a protein of novel domain structure is secreted by differentiated fibroblasts of muscle connective tissue.. Journal of Cell Biology, 1996, 134, 1499-1512.	5.2	89
36	Cleavage and Oligomerization of Gliomedin, a Transmembrane Collagen Required for Node of Ranvier Formation. Journal of Biological Chemistry, 2007, 282, 10647-10659.	3.4	84

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37	Evidence for a protein tether involved in somatic touch. EMBO Journal, 2010, 29, 855-867.	7.8	84
38	Collagen XII Interacts with Avian Tenascin-X through Its NC3 Domain. Journal of Biological Chemistry, 2006, 281, 27461-27470.	3.4	83
39	Epithelial synthesis of tenascin at tips of growing bronchi and graded accumulation in basement membrane and mesenchyme. Experimental Cell Research, 1991, 194, 297-300.	2.6	81
40	The initiation of embryonic-like collagen fibrillogenesis by adult human tendon fibroblasts when cultured under tension. Biomaterials, 2010, 31, 4889-4897.	11.4	81
41	Binding of Netrin-4 to Laminin Short Arms Regulates Basement Membrane Assembly*. Journal of Biological Chemistry, 2007, 282, 23750-23758.	3.4	80
42	Structural Decoding of the Netrin-1/UNC5 Interaction and its Therapeutical Implications in Cancers. Cancer Cell, 2016, 29, 173-185.	16.8	80
43	Î±1(XX) Collagen, a New Member of the Collagen Subfamily, Fibril-associated Collagens with Interrupted Triple Helices. Journal of Biological Chemistry, 2001, 276, 23120-23126.	3.4	79
44	Mutations in the collagen XII gene define a new form of extracellular matrix-related myopathy. Human Molecular Genetics, 2014, 23, 2353-2363.	2.9	79
45	The Cysteine-rich Domain of Snake Venom Metalloproteinases Is a Ligand for von Willebrand Factor A Domains. Journal of Biological Chemistry, 2006, 281, 39746-39756.	3.4	78
46	CD36-mediated activation of endothelial cell apoptosis by an N-terminal recombinant fragment of thrombospondin-2 inhibits breast cancer growth and metastasis in vivo. Breast Cancer Research and Treatment, 2011, 128, 337-346.	2.5	74
47	Structural decoding of netrin-4 reveals a regulatory function towards mature basement membranes. Nature Communications, 2016, 7, 13515.	12.8	74
48	Laminin-332 coordinates mechanotransduction and growth cone bifurcation in sensory neurons. Nature Neuroscience, 2011, 14, 993-1000.	14.8	66
49	Defective Formation of the Inner Limiting Membrane in Laminin Î²2- and Î²3-Null Mice Produces Retinal Dysplasia. , 2010, 51, 1773.		60
50	Collagen XIV is important for growth and structural integrity of the myocardium. Journal of Molecular and Cellular Cardiology, 2012, 53, 626-638.	1.9	60
51	Expression of Type XXIII Collagen mRNA and Protein. Journal of Biological Chemistry, 2006, 281, 21546-21557.	3.4	58
52	Characterization of a conduit system containing laminin-5 in the human thymus: a potential transport system for small molecules. Journal of Cell Science, 2006, 119, 1396-1405.	2.0	58
53	Zebrafish collagen XII is present in embryonic connective tissue sheaths (fascia) and basement membranes. Matrix Biology, 2009, 28, 32-43.	3.6	58
54	Rapid SARS-CoV-2 testing in primary material based on a novel multiplex RT-LAMP assay. PLoS ONE, 2020, 15, e0238612.	2.5	58

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55	The extracellular matrix component WIF-1 is expressed during, and can modulate, retinal development. <i>Molecular and Cellular Neurosciences</i> , 2004, 27, 477-488.	2.2	57
56	Identification of a myofibroblast-specific expression signature in skin wounds. <i>Matrix Biology</i> , 2018, 65, 59-74.	3.6	57
57	Decellularization and antibody staining of mouse tissues to map native extracellular matrix structures in 3D. <i>Nature Protocols</i> , 2019, 14, 3395-3425.	12.0	55
58	Temporal and spatial expression of collagens during murine atrioventricular heart valve development and maintenance. <i>Developmental Dynamics</i> , 2008, 237, 3051-3058.	1.8	53
59	Niche stiffening compromises hair follicle stem cell potential during ageing by reducing bivalent promoter accessibility. <i>Nature Cell Biology</i> , 2021, 23, 771-781.	10.3	51
60	Complete Primary Structure of Two Splice Variants of Collagen XII, and Assignment of Î±1(XII) Collagen (COL12A1), Î±1(IX) Collagen (COL9A1), and Î±1(XIX) Collagen (COL19A1) to Human Chromosome 6q12-q13. <i>Genomics</i> , 1997, 41, 236-242.	2.9	49
61	SMOC1 is a tenascin-C interacting protein over-expressed in brain tumors. <i>Matrix Biology</i> , 2011, 30, 225-233.	3.6	49
62	Composition and adaptation of human myotendinous junction and neighboring muscle fibers to heavy resistance training. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017, 27, 1547-1559.	2.9	48
63	A major oligomeric fibroblast proteoglycan identified as a novel large form of type-XII collagen. <i>FEBS Journal</i> , 1992, 207, 847-856.	0.2	47
64	An N-Terminal 80 kDa Recombinant Fragment of Human Thrombospondin-2 Inhibits Vascular Endothelial Growth Factor Induced Endothelial Cell Migration In Vitro and Tumor Growth and Angiogenesis In Vivo. <i>Journal of Investigative Dermatology</i> , 2003, 121, 1536-1543.	0.7	46
65	Comparative Proteomic Analysis of Normal and Collagen IX Null Mouse Cartilage Reveals Altered Extracellular Matrix Composition and Novel Components of the Collagen IX Interactome. <i>Journal of Biological Chemistry</i> , 2013, 288, 13481-13492.	3.4	46
66	Maltose-Binding Protein (MBP), a Secretion-Enhancing Tag for Mammalian Protein Expression Systems. <i>PLoS ONE</i> , 2016, 11, e0152386.	2.5	46
67	Smart Hydrogels for the Augmentation of Bone Regeneration by Endogenous Mesenchymal Progenitor Cell Recruitment. <i>Advanced Science</i> , 2020, 7, 1903395.	11.2	46
68	Making recombinant extracellular matrix proteins. <i>Methods</i> , 2008, 45, 75-85.	3.8	45
69	Collagens VI and XII form complexes mediating osteoblast interactions during osteogenesis. <i>Cell and Tissue Research</i> , 2016, 364, 623-635.	2.9	44
70	Gene Expression Profiling of the Extracellular Matrix Signature in Macrophages of Different Activation Status: Relevance for Skin Wound Healing. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5086.	4.1	43
71	Discovery of ultrapotent broadly neutralizing antibodies from SARS-CoV-2 elite neutralizers. <i>Cell Host and Microbe</i> , 2022, 30, 69-82.e10.	11.0	42
72	CREB-AP1 Protein Complexes Regulate Transcription of the Collagen XXIV Gene (Col24a1) in Osteoblasts. <i>Journal of Biological Chemistry</i> , 2006, 281, 5445-5452.	3.4	40

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73	Shedding of Collagen XXIII Is Mediated by Furin and Depends on the Plasma Membrane Microenvironment. <i>Journal of Biological Chemistry</i> , 2007, 282, 27424-27435.	3.4	40
74	Collagen XXIV (Col24a1) Gene Expression is a Specific Marker of Osteoblast Differentiation and Bone Formation. <i>Connective Tissue Research</i> , 2008, 49, 68-75.	2.3	40
75	Tenascin-C Orchestrates an Immune-Suppressive Tumor Microenvironment in Oral Squamous Cell Carcinoma. <i>Cancer Immunology Research</i> , 2020, 8, 1122-1138.	3.4	40
76	Endothelium-Derived Netrin-4 Supports Pancreatic Epithelial Cell Adhesion and Differentiation through Integrins $\alpha 2 \beta 1$ and $\alpha 3 \beta 1$. <i>PLoS ONE</i> , 2011, 6, e22750.	2.5	39
77	Collagen XXIII, Novel Ligand for Integrin $\alpha 2 \beta 1$ in the Epidermis. <i>Journal of Biological Chemistry</i> , 2011, 286, 27804-27813.	3.4	39
78	Abnormal Corneal Endothelial Maturation in Collagen XII and XIV Null Mice. , 2013, 54, 3297.		38
79	Laminin deficits induce alterations in the development of dopaminergic neurons in the mouse retina. <i>Visual Neuroscience</i> , 2007, 24, 549-562.	1.0	37
80	The chick and human collagen alpha1(XII) gene promoter. Activity of highly conserved regions around the first exon and in the first intron. <i>FEBS Journal</i> , 1998, 257, 362-371.	0.2	36
81	Locally controlling mesenchymal stem cell morphogenesis by 3D PDGF-BB gradients towards the establishment of an in vitro perivascular niche. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 101-111.	1.3	35
82	Lgr5 and Col22a1 Mark Progenitor Cells in the Lineage toward Juvenile Articular Chondrocytes. <i>Stem Cell Reports</i> , 2019, 13, 713-729.	4.8	35
83	Collagen XII mediated cellular and extracellular mechanisms regulate establishment of tendon structure and function. <i>Matrix Biology</i> , 2021, 95, 52-67.	3.6	35
84	Nano-structure of the laminin $\beta 3$ -1 short arm reveals an extended and curved multidomain assembly. <i>Matrix Biology</i> , 2010, 29, 565-572.	3.6	34
85	Loss of epidermal MMP-14 expression interferes with angiogenesis but not with re-epithelialization. <i>European Journal of Cell Biology</i> , 2012, 91, 748-756.	3.6	34
86	Intranasal Administration of a Monoclonal Neutralizing Antibody Protects Mice against SARS-CoV-2 Infection. <i>Viruses</i> , 2021, 13, 1498.	3.3	33
87	The expression and function of netrin-4 in murine ocular tissues. <i>Experimental Eye Research</i> , 2012, 96, 24-35.	2.6	32
88	Structural elucidation of full-length nidogen and the laminin-nidogen complex in solution. <i>Matrix Biology</i> , 2014, 33, 60-67.	3.6	32
89	Role of collagen XII in skin homeostasis and repair. <i>Matrix Biology</i> , 2020, 94, 57-76.	3.6	30
90	The $\beta 3$ chain of laminin is widely but differentially expressed in murine basement membranes: Expression and functional studies. <i>Matrix Biology</i> , 2012, 31, 120-134.	3.6	29

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91	Autocrine Transforming Growth Factor- β 1 Activation Mediated by Integrin β 3 Regulates Transcriptional Expression of Laminin-332 in Madin-Darby Canine Kidney Epithelial Cells. <i>Molecular Biology of the Cell</i> , 2010, 21, 3654-3668.	2.1	28
92	CCN5 expression in mammals. <i>Journal of Cell Communication and Signaling</i> , 2007, 1, 127-143.	3.4	27
93	Integrin β 3 subunit regulates events linked to epithelial repair, including keratinocyte migration and protein expression. <i>Wound Repair and Regeneration</i> , 2010, 18, 325-334.	3.0	27
94	Tenascin (cytotactin): an extracellular matrix protein involved in morphogenesis of the nervous system. <i>Seminars in Neuroscience</i> , 1991, 3, 341-350.	2.2	26
95	Zebrafish Collagen XIV Is Transiently Expressed in Epithelia and Is Required for Proper Function of Certain Basement Membranes. <i>Journal of Biological Chemistry</i> , 2013, 288, 6777-6787.	3.4	26
96	Collagen XXII binds to collagen-binding integrins via the novel motifs GLQGER and GFKGER. <i>Biochemical Journal</i> , 2014, 459, 217-227.	3.7	26
97	Analysis of obstetric complications and uterine connective tissue in tenascin-X-deficient humans and mice. <i>Cell and Tissue Research</i> , 2008, 332, 523-532.	2.9	25
98	NC1 Long and NC3 Short Splice Variants of Type XII Collagen Are Overexpressed during Corneal Scarring. , 2012, 53, 7246.		25
99	Remodeling of muscle fibers approaching the human myotendinous junction. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 1859-1865.	2.9	25
100	Dominant collagen XII mutations cause a distal myopathy. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 1980-1988.	3.7	24
101	Netrin-1 promotes naive pluripotency through <i>Neo1</i> and <i>Unc5b</i> co-regulation of Wnt and MAPK signalling. <i>Nature Cell Biology</i> , 2020, 22, 389-400.	10.3	24
102	Posttraumatic stress disorder (PTSD) in the German Armed Forces: a retrospective study in inpatients of a German army hospital. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2012, 262, 459-467.	3.2	23
103	Molecular diagnosis of anti-laminin 332 (epiligrin) mucous membrane pemphigoid. <i>Orphanet Journal of Rare Diseases</i> , 2018, 13, 111.	2.7	23
104	Local photodynamic action of methylene blue favorably modulates the postinterventional vascular wound healing response. <i>Journal of Vascular Surgery</i> , 2000, 31, 1168-1177.	1.1	22
105	Evaluation of a New Spike (S)-Protein-Based Commercial Immunoassay for the Detection of Anti-SARS-CoV-2 IgG. <i>Microorganisms</i> , 2021, 9, 733.	3.6	22
106	Viral Glycoproteins Induce NLRP3 Inflammasome Activation and Pyroptosis in Macrophages. <i>Viruses</i> , 2021, 13, 2076.	3.3	22
107	Collagen XII Is a Regulator of Corneal Stroma Structure and Function. , 2020, 61, 61.		21
108	Gene Characterization of Sciellin (SCEL) and Protein Localization in Vertebrate Epithelia Displaying Barrier Properties. <i>Genomics</i> , 2000, 70, 264-268.	2.9	20

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109	Determination of a molecular shape for netrin-4 from hydrodynamic and small angle X-ray scattering measurements. <i>Matrix Biology</i> , 2012, 31, 135-140.	3.6	20
110	Ex Vivo Pathogenicity of Anti- α 1 Laminin β 1 Autoantibodies. <i>American Journal of Pathology</i> , 2014, 184, 494-506.	3.8	20
111	Lack of netrin-4 modulates pathologic neovascularization in the eye. <i>Scientific Reports</i> , 2016, 6, 18828.	3.3	20
112	Regulated Synthesis and Functions of Laminin 5 in Polarized Madin-Darby Canine Kidney Epithelial Cells. <i>Molecular Biology of the Cell</i> , 2006, 17, 3664-3677.	2.1	19
113	MEGF9: a novel transmembrane protein with a strong and developmentally regulated expression in the nervous system. <i>Biochemical Journal</i> , 2007, 401, 447-457.	3.7	19
114	Effect of the Topical Use of the Antioxidant Taurine on the Two Basement Membrane Proteins of Regenerating Oral Gingival Epithelium. <i>Journal of Periodontology</i> , 2012, 83, 127-134.	3.4	19
115	The cartilage-specific lectin C-type lectin domain family 3 member A (CLEC3A) enhances tissue plasminogen activator-mediated plasminogen activation. <i>Journal of Biological Chemistry</i> , 2018, 293, 203-214.	3.4	19
116	Local VEGF-A blockade modulates the microenvironment of the corneal graft bed. <i>American Journal of Transplantation</i> , 2019, 19, 2446-2456.	4.7	19
117	Proteolytic Processing Regulates Placental Growth Factor Activities. <i>Journal of Biological Chemistry</i> , 2013, 288, 17976-17989.	3.4	16
118	New specific HSP47 functions in collagen subfamily chaperoning. <i>FASEB Journal</i> , 2020, 34, 12040-12052.	0.5	16
119	Analysis of IgM, IgA, and IgG isotype antibodies Directed against SARS-CoV-2 spike glycoprotein and ORF8 in the course of COVID-19. <i>Scientific Reports</i> , 2021, 11, 8920.	3.3	15
120	Basement Membrane Deposition of Nidogen 1 but Not Nidogen 2 Requires the Nidogen Binding Module of the Laminin β 1 Chain. <i>Journal of Biological Chemistry</i> , 2011, 286, 1911-1918.	3.4	14
121	Affinity-Enhanced Multimeric VEGF (Vascular Endothelial Growth Factor) and PlGF (Placental Growth) Tj ETQq1 1 0.784314 rgBT /Overlo Hypertension, 2020, 76, 1176-1184.	2.7	14
122	Autoimmunity against laminins. <i>Clinical Immunology</i> , 2016, 170, 39-52.	3.2	13
123	COMP and TSP-4 interact specifically with the novel GXKGHR motif only found in fibrillar collagens. <i>Scientific Reports</i> , 2018, 8, 17187.	3.3	13
124	Pivotal Role of Tenascin-W (-N) in Postnatal Incisor Growth and Periodontal Ligament Remodeling. <i>Frontiers in Immunology</i> , 2020, 11, 608223.	4.8	13
125	Extracellular Matrix Remodeling by Fibroblast-MMP14 Regulates Melanoma Growth. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12276.	4.1	13
126	The proteomic profile of the human myotendinous junction. <i>IScience</i> , 2022, 25, 103836.	4.1	13

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127	Cloning and Analysis of a Murine PIAS Family Member, PIAS ³ , in Developing Skin and Neurons. <i>Journal of Molecular Neuroscience</i> , 2000, 14, 107-122.	2.3	12
128	Interleukin 27 induces differentiation of neural C6-precursor cells into astrocytes. <i>Biochemical and Biophysical Research Communications</i> , 2007, 364, 483-487.	2.1	12
129	Analysis of the cartilage proteome from three different mouse models of genetic skeletal diseases reveals common and discrete disease signatures. <i>Biology Open</i> , 2013, 2, 802-811.	1.2	12
130	A new MMP α -mediated prodomain cleavage mechanism to activate bone morphogenetic proteins from the extracellular matrix. <i>FASEB Journal</i> , 2021, 35, e21353.	0.5	10
131	Collagen XII Regulates Corneal Stromal Structure by Modulating Transforming Growth Factor- β Activity. <i>American Journal of Pathology</i> , 2022, 192, 308-319.	3.8	10
132	Homogenous overexpression of the extracellular matrix protein Netrin-1 in a hollow fiber bioreactor. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 6047-6057.	3.6	9
133	Identification of a Novel Vasoconstrictor Peptide Specific for the Systemic Circulation. <i>Hypertension</i> , 2012, 59, 1256-1262.	2.7	8
134	Biophysical analysis of a lethal laminin alpha-1 mutation reveals altered self-interaction. <i>Matrix Biology</i> , 2016, 49, 93-105.	3.6	8
135	Solution Structure of <i>C. elegans</i> UNC-6: A Nematode Parologue of the Axon Guidance Protein Netrin-1. <i>Biophysical Journal</i> , 2019, 116, 2121-2130.	0.5	8
136	Topical VEGF-C/D Inhibition Prevents Lymphatic Vessel Ingrowth into Cornea but Does Not Improve Corneal Graft Survival. <i>Journal of Clinical Medicine</i> , 2020, 9, 1270.	2.4	8
137	Collagen XIV Is an Intrinsic Regulator of Corneal Stromal Structure and Function. <i>American Journal of Pathology</i> , 2021, 191, 2184-2194.	3.8	8
138	No substantial preexisting B cell immunity against SARS-CoV-2 in healthy adults. <i>IScience</i> , 2022, 25, 103951.	4.1	8
139	The cytoplasmic tail of the β 3 integrin subunit promotes neurite outgrowth in PC12 cells. <i>Journal of Neuroscience Research</i> , 2005, 82, 753-761.	2.9	7
140	EMILIN proteins are novel extracellular constituents of the dentin-pulp complex. <i>Scientific Reports</i> , 2020, 10, 15320.	3.3	7
141	Caldesmon ablation in mice causes umbilical herniation and alters contractility of fetal urinary bladder smooth muscle. <i>Journal of General Physiology</i> , 2021, 153, .	1.9	7
142	Spleen tyrosine kinase mediates innate and adaptive immune crosstalk in SARS-CoV-2 mRNA vaccination. <i>EMBO Molecular Medicine</i> , 2022, 14, .	6.9	7
143	RNA sequencing and immunofluorescence of the myotendinous junction of mature horses and humans. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 321, C453-C470.	4.6	6
144	Modified amelogenin is a new and versatile nanomaterial for biomedical applications. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1708-1713.	3.3	5

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145	Decreased Trabecular Bone Mass in Col22a1-Deficient Mice. <i>Cells</i> , 2021, 10, 3020.	4.1	5
146	Modulating tenascin-C functions by targeting the MAtRix REgulating MOtif, "MAREMO". <i>Matrix Biology</i> , 2022, 108, 20-38.	3.6	5
147	LTBP1 promotes fibrillin incorporation into the extracellular matrix. <i>Matrix Biology</i> , 2022, 110, 60-75.	3.6	5
148	Structural Analysis and Mutation Detection Strategy for the Human LamC3 Gene. <i>Biochemical and Biophysical Research Communications</i> , 2001, 280, 39-44.	2.1	4
149	Microfluidic Devices for Studying the Effect of Netrin-1 on Neutrophil and Breast Cancer Cell Migration. <i>Advanced Biology</i> , 2018, 2, 1700178.	3.0	3
150	Adipocytes are present at human and murine myotendinous junctions. <i>Translational Sports Medicine</i> , 2021, 4, 223-230.	1.1	3
151	Collagen XII Deficiency Increases the Risk of Anterior Cruciate Ligament Injury in Mice. <i>Journal of Clinical Medicine</i> , 2021, 10, 4051.	2.4	3
152	AMD-Associated HTRA1 Variants Do Not Influence TGF- β 2 Signaling in Microglia. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1185, 3-7.	1.6	3
153	<sc>Ehlers-Danlos</sc>/myopathy overlap syndrome caused by a large de novo deletion in <sc><i>COL12A1</i></sc>. <i>American Journal of Medical Genetics, Part A</i> , 2022, 188, 1556-1561.	1.2	3
154	Inflammation of the Human Dental Pulp Induces Phosphorylation of eNOS at Thr495 in Blood Vessels. <i>Biomedicines</i> , 2022, 10, 1586.	3.2	3
155	Genomic organization of the gene for mouse PIAS1 ³ and analysis of its promoter. <i>Gene</i> , 2001, 266, 123-130.	2.2	2
156	Epithelial loss of mitochondrial oxidative phosphorylation leads to disturbed enamel and impaired dentin matrix formation in postnatal developed mouse incisor. <i>Scientific Reports</i> , 2020, 10, 22037.	3.3	2
157	Generation of Matrix Degradation Products Using an In Vitro MMP Cleavage Assay. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6245.	4.1	2
158	Collagen XXIV null mice have osteoporotic bones. <i>FASEB Journal</i> , 2010, 24, 638.1.	0.5	0
159	Type XII collagen regulates osteoblast polarity and communication during bone formation. <i>Journal of Experimental Medicine</i> , 2011, 208, i19-i19.	8.5	0