Peter Bruckner

List of Publications by Year
in descending order

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92 papers	8,604 citations	41258 49 h-index	49773 87 g-index
95 all docs	95 docs citations	95 times ranked	6905 citing authors

#	Article	IF	Citations
1	Analysis of opticin binding to collagen fibrils identifies a single binding site in the gap region and a high specificity towards thin heterotypic fibrils containing collagens II, and XI or V/XI. PLoS ONE, 2020, 15, e0234672.	1.1	1
2	Forced exercise-induced osteoarthritis is attenuated in mice lacking the small leucine-rich proteoglycan decorin. Annals of the Rheumatic Diseases, 2017, 76, 442-449.	0.5	42
3	The binding capacity of Î±1Î²1-, Î±2Î²1- and Î±10Î²1-integrins depends on non-collagenous surface macromolecules rather than the collagens in cartilage fibrils. Matrix Biology, 2017, 63, 91-105.	1.5	44
4	Supramolecular Organization of Collagen Fibrils in Healthy and Osteoarthritic Human Knee and Hip Joint Cartilage. PLoS ONE, 2016, 11, e0163552.	1.1	65
5	ER Stress During the Pubertal Growth Spurt Results in Impaired Long-Bone Growth in Chondrocyte-Specific ERp57 Knockout Mice. Journal of Bone and Mineral Research, 2015, 30, 1481-1493.	3.1	26
6	Lateral Growth Limitation of Corneal Fibrils and Their Lamellar Stacking Depend on Covalent Collagen Cross-linking by Transglutaminase-2 and Lysyl Oxidases, Respectively. Journal of Biological Chemistry, 2014, 289, 921-929.	1.6	16
7	Cerebral Aneurysms: Formation, Progression, and Developmental Chronology. Translational Stroke Research, 2014, 5, 167-173.	2.3	49
8	Age of Collagen in Intracranial Saccular Aneurysms. Stroke, 2014, 45, 1757-1763.	1.0	35
9	Exploring the Age of Intracranial Aneurysms Using Carbon Birth Dating. Stroke, 2013, 44, 799-802.	1.0	20
10	Syndecan 4 supports bone fracture repair, but not fetal skeletal development, in mice. Arthritis and Rheumatism, 2013, 65, 743-752.	6.7	44
11	A8.13â€…Syndecan-4 Function is Essential for Matrix Remodelling Under Inflammatory Conditions, But Dispensable During Embryogenesis. Annals of the Rheumatic Diseases, 2013, 72, A61.3-A62.	0.5	0
12	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.	1.6	144
13	WARP Interacts with Collagen VI-Containing Microfibrils in the Pericellular Matrix of Human Chondrocytes. PLoS ONE, 2012, 7, e52793.	1.1	23
14	A secreted variant of cartilage oligomeric matrix protein carrying a chondrodysplasiaâ€causing mutation (p.H587R) disrupts collagen fibrillogenesis. Arthritis and Rheumatism, 2011, 63, 159-167.	6.7	20
15	Collagens, Suprastructures, and Collagen Fibril Assembly. , 2011, , 77-115.		51
16	Suprastructures of extracellular matrices: paradigms of functions controlled by aggregates rather than molecules. Cell and Tissue Research, 2010, 339, 7-18.	1.5	82
17	Biglycan, a Danger Signal That Activates the NLRP3 Inflammasome via Toll-like and P2X Receptors. Journal of Biological Chemistry, 2009, 284, 24035-24048.	1.6	407
18	Aberrations of dermal connective tissue in patients with cervical artery dissection (sCAD). Journal of Neurology, 2008, 255, 340-346.	1.8	22

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19	Unilateral nephrectomy leads to up-regulation of syndecan-2- and TGF-beta-mediated glomerulosclerosis in syndecan-4 deficient male mice. Matrix Biology, 2008, 27, 42-52.	1.5	24
20	Collagen IX-deficiency seriously compromises growth cartilage development in mice. Matrix Biology, 2008, 27, 319-329.	1.5	50
21	Terminal Differentiation of Chick Embryo Chondrocytes Requires Shedding of a Cell Surface Protein That Binds 1,25-Dihydroxyvitamin D3. Journal of Biological Chemistry, 2008, 283, 1104-1112.	1.6	18
22	Supramolecular Interactions in the Dermo-epidermal Junction Zone. Journal of Biological Chemistry, 2008, 283, 24506-24513.	1.6	111
23	Type XXVII collagen at the transition of cartilage to bone during skeletogenesis. Bone, 2007, 41, 535-542.	1.4	67
24	Collagen IX is indispensable for timely maturation of cartilage during fracture repair in mice. Matrix Biology, 2007, 26, 85-95.	1.5	32
25	The glycosaminoglycan chain of decorin plays an important role in collagen fibril formation at the early stages of fibrillogenesis. FEBS Journal, 2007, 274, 4246-4255.	2.2	133
26	The anchorless adhesin Eap (extracellular adherence protein) from Staphylococcus aureus selectively recognizes extracellular matrix aggregates but binds promiscuously to monomeric matrix macromolecules. Matrix Biology, 2006, 25, 252-260.	1.5	26
27	Supramolecular Structure of Cartilage Matrix. , 2006, , 407-420.		1
28	WARP Is a Novel Multimeric Component of the Chondrocyte Pericellular Matrix That Interacts with Perlecan. Journal of Biological Chemistry, 2006, 281, 7341-7349.	1.6	41
29	Collagen XII Interacts with Avian Tenascin-X through Its NC3 Domain. Journal of Biological Chemistry, 2006, 281, 27461-27470.	1.6	83
30	Altered Integration of Matrilin-3 into Cartilage Extracellular Matrix in the Absence of Collagen IX. Molecular and Cellular Biology, 2005, 25, 10465-10478.	1.1	136
31	Collagenous Transmembrane Proteins: Recent Insights into Biology and Pathology*. Journal of Biological Chemistry, 2005, 280, 4005-4008.	1.6	144
32	A Novel Marker of Tissue Junctions, Collagen XXII. Journal of Biological Chemistry, 2004, 279, 22514-22521.	1.6	179
33	Recombinant Human Laminin-5 Domains. Journal of Biological Chemistry, 2004, 279, 5184-5193.	1.6	45
34	Collagen XVIII/endostatin is essential for vision and retinal pigment epithelial function. EMBO Journal, 2004, 23, 89-99.	3.5	114
35	Pro-MMP-9 is a specific macrophage product and is activated by osteoarthritic chondrocytes via MMP-3 or a MT1-MMP/MMP-13 cascade. Experimental Cell Research, 2004, 297, 303-312.	1.2	103
36	Molecular Structure and Interaction of Recombinant Human Type XVI Collagen. Journal of Molecular Biology, 2004, 339, 835-853.	2.0	57

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37	The role of reactive oxygen species in homeostasis and degradation of cartilage. Osteoarthritis and Cartilage, 2003, 11, 747-755.	0.6	629
38	Discrete integration of collagen XVI into tissue-specific collagen fibrils or beaded microfibrils. Matrix Biology, 2003, 22, 131-143.	1.5	98
39	SC1/Hevin. Journal of Biological Chemistry, 2003, 278, 11351-11358.	1.6	75
40	Macromolecular Specificity of Collagen Fibrillogenesis. Journal of Biological Chemistry, 2003, 278, 37352-37359.	1.6	73
41	Vipera lebetina Venom Contains Two Disintegrins Inhibiting Laminin-binding Î²1 Integrins. Journal of Biological Chemistry, 2003, 278, 26488-26496.	1.6	45
42	Absence of Decorin Adversely Influences Tubulointerstitial Fibrosis of the Obstructed Kidney by Enhanced Apoptosis and Increased Inflammatory Reaction. American Journal of Pathology, 2002, 160, 1181-1191.	1.9	212
43	Rhodocetin antagonizes stromal tumor invasion in vitro and other Î±2Î²1 integrin-mediated cell functions. Matrix Biology, 2002, 21, 547-558.	1.5	47
44	The integrin Î²1 subunit cytoplasmic tail forms oligomers: a potential role in Î²1 integrin clustering. Biology of the Cell, 2002, 94, 375-387.	0.7	12
45	Endochondral ossification of costal cartilage is arrested after chondrocytes have reached hypertrophic stage of late differentiation. Matrix Biology, 2001, 19, 707-715.	1.5	24
46	Role of the subchondral vascular system in endochondral ossification: endothelial cell-derived proteinases derepress late cartilage differentiation in vitro. Matrix Biology, 2001, 20, 205-213.	1.5	34
47	Paracrine interactions of chondrocytes and macrophages in cartilage degradation: articular chondrocytes provide factors that activate macrophage-derived pro-gelatinase B (pro-MMP-9). Journal of Cell Science, 2001, 114, 3813-3822.	1.2	62
48	Periosteally derived osteoblast-like cells differentiate into chondrocytes in suspension culture in agarose. , 2000, 259, 124-130.		27
49	Collagen XVII Is Destabilized by a Glycine Substitution Mutation in the Cell Adhesion Domain Col15. Journal of Biological Chemistry, 2000, 275, 3093-3099.	1.6	52
50	Collagen XI Nucleates Self-assembly and Limits Lateral Growth of Cartilage Fibrils. Journal of Biological Chemistry, 2000, 275, 10370-10378.	1.6	224
51	Spatio-temporal distribution of chondromodulin-I mRNA in the chicken embryo: Expression during cartilage development and formation of the heart and eye. , 1999, 216, 233-243.		30
52	Collagen XVI is expressed by human dermal fibroblasts and keratinocytes and is associated with the microfibrillar apparatus in the upper papillary dermis. Matrix Biology, 1999, 18, 309-317.	1.5	49
53	Terminal differentiation of chondrocytes is arrested at distinct stages identified by their expression repertoire of marker genes. Matrix Biology, 1998, 17, 435-448.	1.5	42
54	Decorin Core Protein Fragment Leu155-Val260 Interacts with TGF-Î² but Does Not Compete for Decorin Binding to Type I Collagen. Archives of Biochemistry and Biophysics, 1998, 355, 241-248.	1.4	138

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55	Role of the Subchondral Vascular System in Endochondral Ossification: Endothelial Cells Specifically Derepress Late Differentiation in Resting Chondrocytesin Vitro. Experimental Cell Research, 1998, 238, 491-497.	1.2	57
56	Cartilage Fibrils of Mammals are Biochemically Heterogeneous: Differential Distribution of Decorin and Collagen IX. Journal of Cell Biology, 1998, 142, 285-294.	2.3	119
57	Absence of the Î±1(IX) Chain Leads to a Functional Knock-out of the Entire Collagen IX Protein in Mice. Journal of Biological Chemistry, 1997, 272, 20650-20654.	1.6	87
58	Distinct Isoforms of Chicken Decorin Contain Either One or Two Dermatan Sulfate Chains. Journal of Biological Chemistry, 1996, 271, 30347-30353.	1.6	30
59	Terminal Differentiation of Chondrocytes in Culture Is a Spontaneous Process and Is Arrested by Transforming Growth Factor-Î²2 and Basic Fibroblast Growth Factor in Synergy. Experimental Cell Research, 1995, 216, 191-198.	1.2	105
60	Structure and function of cartilage collagens. Microscopy Research and Technique, 1994, 28, 378-384.	1.2	146
61	Delayed Triple Helix Formation of Mutant Collagen from Patient with Osteogenesis Imperfecta. Journal of Molecular Biology, 1994, 236, 940-949.	2.0	126
62	Collagens: diversity at the molecular and supramolecular levels. Current Opinion in Structural Biology, 1993, 3, 430-436.	2.6	55
63	Induction of proliferation or hypertrophy of chondrocytes in serum-free culture: the role of insulin-like growth factor-I, insulin, or thyroxine.. Journal of Cell Biology, 1992, 116, 1035-1042.	2.3	162
64	Mechanism of action of FK 506 and cyclosporin. Lancet, The, 1991, 337, 439.	6.3	7
65	Cartilage contains mixed fibrils of collagen types II, IX, and XI.. Journal of Cell Biology, 1989, 108, 191-197.	2.3	476
66	Induction and prevention of chondrocyte hypertrophy in culture.. Journal of Cell Biology, 1989, 109, 2537-2545.	2.3	156
67	Anchoring Fibrils and Type VII collagen are Absent From Skin in Severe Recessive Dystrophic Epidermolysis Bullosa. Journal of Investigative Dermatology, 1989, 93, 3-9.	0.3	119
68	D-periodic distribution of collagen type IX along cartilage fibrils.. Journal of Cell Biology, 1988, 106, 991-997.	2.3	342
69	Tissue form of type VII collagen from human skin and dermal fibroblasts in culture. FEBS Journal, 1987, 165, 607-611.	0.2	90
70	Type VI collagen represents a major fraction of connective tissue collagens. FEBS Journal, 1987, 166, 699-703.	0.2	81
71	On the role of type IX collagen in the extracellular matrix of cartilage: type IX collagen is localized to intersections of collagen fibrils.. Journal of Cell Biology, 1986, 102, 1931-1939.	2.3	179
72	Type IX collagen from sternal cartilage of chicken embryo contains covalently bound glycosaminoglycans.. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 2608-2612.	3.3	106

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73	High Post-translational Modification Levels In Type II Procollagen Are Not A Consequence Of Slow Triple-Helix Formation. Collagen and Related Research, 1985, 5, 245-251.	2.2	9
74	Type IX Collagen Identified As Proteoglycan Lt. Annals of the New York Academy of Sciences, 1985, 460, 397-398.	1.8	3
75	Formation of the triple helix of type I procollagen in cellulo. Temperature-dependent kinetics support a model based on cis trans isomerization of peptide bonds. FEBS Journal, 1984, 140, 391-395.	0.2	53
76	Procollagen is more stable in cellulo than in vitro. FEBS Journal, 1984, 140, 397-399.	0.2	38
77	Immunochemical properties of the aminopropeptide of procollagen type III. FEBS Journal, 1983, 135, 197-202.	0.2	21
78	p-HMW-Collagen, a minor collagen obtained from chick embryo cartilage without proteolytic treatment of the tissue. FEBS Journal, 1983, 136, 333-339.	0.2	47
79	Structural and Immunological Characterization of Type IV Collagen Isolated from Chicken Tissues. FEBS Journal, 1982, 126, 417-423.	0.2	26
80	Structure and Helical Stability of a Modified Procollagen Synthesized in the Presence of 3,4-Dehydroproline. Journal of Biological Chemistry, 1982, 257, 9181-9188.	1.6	19
81	Isolation of unhydroxylated type I procollagen folding of the protein in vitro. Archives of Biochemistry and Biophysics, 1981, 212, 668-677.	1.4	36
82	Formation of the Triple Helix of Type I Procollagen in cellulo. A Kinetic Model Based on cis-trans Isomerization of Peptide Bonds. FEBS Journal, 1981, 118, 607-613.	0.2	102
83	Disorder of collagen metabolism in a patient with osteogenesis imperfecta (lethal type): increased degree of hydroxylation of lysine in collagen types I and III. European Journal of Clinical Investigation, 1981, 11, 39-47.	1.7	79
84	Proteolytic enzymes as probes for the triple-helical conformation of procollagen. Analytical Biochemistry, 1981, 110, 360-368.	1.1	329
85	Folding Mechanism of the Triple Helix in Type-III Collagen and Type-III pN-Collagen. Role of Disulfide Bridges and Peptide Bond Isomerization. FEBS Journal, 1980, 106, 619-632.	0.2	248
86	Characterization of Pepsin Fragments of Basement Membrane Collagen Obtained from a Mouse Tumor. FEBS Journal, 1979, 95, 255-263.	0.2	119
87	Nature of the Collagenous Protein in a Tumor Basement Membrane. FEBS Journal, 1978, 84, 43-52.	0.2	323
88	Three Conformationally Distinct Domains in the Amino-Terminal Segment of Type III Procollagen and Its Rapid Triple Helix Coil Transition. FEBS Journal, 1978, 90, 595-603.	0.2	116
89	The Role of Cis-Trans Isomerization of Peptide Bonds in the Coil Triple Helix Conversion of Collagen. FEBS Journal, 1978, 90, 605-613.	0.2	124
90	Physical properties of the amino-terminal precursor-specific portion of type I procollagen. Biochemistry, 1977, 16, 4026-4033.	1.2	42

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91	A Classical Synthesis of the Collagen-like Peptides with the Sequence Z(GlyProPro)nOBut and their characterization with circular dichroism and ultracentrifugation. Helvetica Chimica Acta, 1975, 58, 1276-1287.	1.0	14
92	Collagen Suprastructures. Topics in Current Chemistry, 0, , 185-205.	4.0	84