Peter D Yurchenco

List of Publications by Year
in descending order

114 papers	15,572 citations	19657 61 h-index	28297 105 g-index
116 all docs	116 docs citations	116 times ranked	10593 citing authors

#	Article	IF	Citations
1	Form and function: The laminin family of heterotrimers. Developmental Dynamics, 2000, 218, 213-234.	1.8	1,051
2	Molecular architecture of basement membranes. FASEB Journal, 1990, 4, 1577-1590.	0.5	876
3	A simplified laminin nomenclature. Matrix Biology, 2005, 24, 326-332.	3.6	760
4	A new nomenclature for the laminins. Matrix Biology, 1994, 14, 209-211.	3.6	740
5	Basement Membranes: Cell Scaffoldings and Signaling Platforms. Cold Spring Harbor Perspectives in Biology, 2011, 3, a004911-a004911.	5.5	717
6	LAMININ FUNCTIONS IN TISSUE MORPHOGENESIS. Annual Review of Cell and Developmental Biology, 2004, 20, 255-284.	9.4	646
7	Rac1 orientates epithelial apical polarity through effects on basolateral laminin assembly. Nature Cell Biology, 2001, 3, 831-838.	10.3	416
8	The nature and biology of basement membranes. Matrix Biology, 2017, 57-58, 1-11.	3.6	400
9	Laminin mediates tissue-specific gene expression in mammary epithelia.. Journal of Cell Biology, 1995, 129, 591-603.	5.2	377
10	Integrin-linked kinase (ILK) is required for polarizing the epiblast, cell adhesion, and controlling actin accumulation. Genes and Development, 2003, 17, 926-940.	5.9	348
11	Self-assembly of basement membrane collagen. Biochemistry, 1984, 23, 1839-1850.	2.5	346
12	Laminins in basement membrane assembly. Cell Adhesion and Migration, 2013, 7, 56-63.	2.7	333
13	Basement membrane assembly, stability and activities observed through a developmental lens. Matrix Biology, 2004, 22, 521-538.	3.6	328
14	Basement membrane structure in situ: evidence for lateral associations in the type IV collagen network.. Journal of Cell Biology, 1987, 105, 2559-2568.	5.2	326
15	Developmental and Pathogenic Mechanisms of Basement Membrane Assembly. Current Pharmaceutical Design, 2009, 15, 1277-1294.	1.9	304
16	Basal lamina assembly. Current Opinion in Cell Biology, 1994, 6, 674-681.	5.4	302
17	Matrix assembly, regulation, and survival functions of laminin and its receptors in embryonic stem cell differentiation. Journal of Cell Biology, 2002, 157, 1279-1290.	5.2	300
18	Laminin Polymerization Induces a Receptorâ€“Cytoskeleton Network. Journal of Cell Biology, 1999, 145, 619-631.	5.2	280

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19	The Role of Laminin in Embryonic Cell Polarization and Tissue Organization. Developmental Cell, 2003, 4, 613-624.	7.0	273
20	Laminin forms an independent network in basement membranes [published erratum appears in J Cell Biol 1992 Jun;118(2):493]. Journal of Cell Biology, 1992, 117, 1119-1133.	5.2	257
21	Self-assembly of Laminin Isoforms. Journal of Biological Chemistry, 1997, 272, 31525-31532.	3.4	217
22	Role of Î±-Dystroglycan as a Schwann Cell Receptor for Mycobacterium leprae. Science, 1998, 282, 2076-2079.	12.6	210
23	Endothelial cells interact with the core protein of basement membrane perlecan through beta 1 and beta 3 integrins: an adhesion modulated by glycosaminoglycan.. Journal of Cell Biology, 1992, 119, 945-959.	5.2	193
24	Binding of laminin to type IV collagen: a morphological study.. Journal of Cell Biology, 1985, 100, 1848-1853.	5.2	187
25	Developmental expression of perlecan during murine embryogenesis. Developmental Dynamics, 1997, 210, 130-145.	1.8	176
26	Neural Targeting of Mycobacterium leprae Mediated by the G Domain of the Laminin-Î±2 Chain. Cell, 1997, 88, 811-821.	28.9	171
27	Models for the self-assembly of basement membrane.. Journal of Histochemistry and Cytochemistry, 1986, 34, 93-102.	2.5	170
28	Structure of low density heparan sulfate proteoglycan isolated from a mouse tumor basement membrane. Journal of Molecular Biology, 1987, 197, 297-313.	4.2	164
29	Role of Laminin Terminal Globular Domains in Basement Membrane Assembly. Journal of Biological Chemistry, 2007, 282, 21437-21447.	3.4	155
30	Laminin Î± subunits and their role in C. elegansdevelopment. Development (Cambridge), 2003, 130, 3343-3358.	2.5	131
31	A laminin 511 matrix is regulated by TAZ and functions as the ligand for the Î±6BÎ²1 integrin to sustain breast cancer stem cells. Genes and Development, 2015, 29, 1-6.	5.9	131
32	Mild Congenital Muscular Dystrophy in Two Patients with an Internally Deleted Laminin Â2-Chain. Human Molecular Genetics, 1997, 6, 747-752.	2.9	130
33	The Â chain of laminin-1 is independently secreted and drives secretion of its Â- and Â-chain partners. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 10189-10194.	7.1	129
34	Regulation of Neurite Outgrowth by Integrin Activation. Journal of Neuroscience, 2000, 20, 6551-6560.	3.6	129
35	Lamininâ€“sulfatide binding initiates basement membrane assembly and enables receptor signaling in Schwann cells and fibroblasts. Journal of Cell Biology, 2005, 169, 179-189.	5.2	125
36	Terminal short arm domains of basement membrane laminin are critical for its self-assembly.. Journal of Cell Biology, 1990, 110, 825-832.	5.2	118

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37	Recombinant Laminin-8 (Î±4Î²1Î³1). Journal of Biological Chemistry, 2000, 275, 14853-14859.	3.4	116
38	Division of Labor among the Î±6Î²4 Integrin, Î²1 Integrins, and an E3 Laminin Receptor to Signal Morphogenesis and Î²-Casein Expression in Mammary Epithelial Cells. Molecular Biology of the Cell, 1999, 10, 2817-2828.	2.1	114
39	Abnormal muscle mechanosignaling triggers cardiomyopathy in mice with Marfan syndrome. Journal of Clinical Investigation, 2014, 124, 1329-39.	8.2	110
40	Mapping of Network-forming, Heparin-binding, and Î±1Î²1 Integrin-recognition Sites within the Î±-Chain Short Arm of Laminin-1. Journal of Biological Chemistry, 1995, 270, 9398-9406.	3.4	108
41	Cell and heparin binding in the distal long arm of laminin: identification of active and cryptic sites with recombinant and hybrid glycoprotein [published erratum appears in J Cell Biol 1993 Dec;123(6 Pt) Tj ETQq1 1 0.784314 rgBT /Ov		103
42	Assembly and tissue functions of early embryonic laminins and netrins. Current Opinion in Cell Biology, 2004, 16, 572-579.	5.4	99
43	Utrophin Binds Laterally along Actin Filaments and Can Couple Costameric Actin with Sarcolemma When Overexpressed in Dystrophin-deficient Muscle. Molecular Biology of the Cell, 2002, 13, 1512-1521.	2.1	98
44	Domain-specific activation of neuronal migration and neurite outgrowth-promoting activities of laminin. Neuron, 1994, 13, 117-130.	8.1	92
45	PINCH1 regulates cell-matrix and cell-cell adhesions, cell polarity and cell survival during the peri-implantation stage. Journal of Cell Science, 2005, 118, 2913-2921.	2.0	91
46	Identification of dystroglycan as a second laminin receptor in oligodendrocytes, with a role in myelination. Development (Cambridge), 2007, 134, 1723-1736.	2.5	91
47	The Laminin Î±2-Chain Short Arm Mediates Cell Adhesion through Both the Î±1Î²1 and Î±2Î²1 Integrins. Journal of Biological Chemistry, 1997, 272, 29330-29336.	3.4	90
48	Recognition of the N-terminal Modules of Thrombospondin-1 and Thrombospondin-2 by Î±6Î²1 Integrin. Journal of Biological Chemistry, 2003, 278, 40679-40687.	3.4	90
49	The laminin Î±2 expressed by dystrophic dy2J mice is defective in its ability to form polymers. Current Biology, 1999, 9, 1327-1330.	3.9	80
50	Laminin-deficient muscular dystrophy: Molecular pathogenesis and structural repair strategies. Matrix Biology, 2018, 71-72, 174-187.	3.6	80
51	Contributions of the LG Modules and Furin Processing to Laminin-2 Functions. Journal of Biological Chemistry, 2002, 277, 18928-18937.	3.4	79
52	Equilibration of fucosyl glycoprotein pools in HeLa cells. Biochemistry, 1977, 16, 944-953.	2.5	76
53	Structural decoding of netrin-4 reveals a regulatory function towards mature basement membranes. Nature Communications, 2016, 7, 13515.	12.8	74
54	Dystroglycan binding to laminin Î±1LG4 module influences epithelial morphogenesis of salivary gland and lung in vitro. Differentiation, 2001, 69, 121-134.	1.9	72

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55	Î²1 integrin is necessary for ureteric bud branching morphogenesis and maintenance of collecting duct structural integrity. Development (Cambridge), 2009, 136, 3357-3366.	2.5	72
56	Laminin-induced Clustering of Dystroglycan on Embryonic Muscle Cells: Comparison with Agrin-induced Clustering. Journal of Cell Biology, 1997, 136, 1047-1058.	5.2	71
57	Laminin assembles into separate basement membrane and fibrillar matrices in Schwann cells. Journal of Cell Science, 2002, 115, 1005-1015.	2.0	71
58	Modulation of Angiogenesis in Vitro by Laminin-Entactin Complex. Developmental Biology, 1994, 164, 197-206.	2.0	68
59	Laminin assembles into separate basement membrane and fibrillar matrices in Schwann cells. Journal of Cell Science, 2002, 115, 1005-15.	2.0	68
60	Basement membranes: molecular organization and function in development and disease. Current Opinion in Cell Biology, 1989, 1, 983-988.	5.4	67
61	Cdc42 is crucial for the establishment of epithelial polarity during early mammalian development. Developmental Dynamics, 2007, 236, 2767-2778.	1.8	67
62	Integrating Activities of Laminins that Drive Basement Membrane Assembly and Function. Current Topics in Membranes, 2015, 76, 1-30.	0.9	67
63	Assembly of Basement Membranes. Annals of the New York Academy of Sciences, 1990, 580, 195-213.	3.8	62
64	Linker proteins restore basement membrane and correct LAMA2 -related muscular dystrophy in mice. Science Translational Medicine, 2017, 9, .	12.4	60
65	Fucosyl-glycoprotein and precursor pools in HeLa cells. Biochemistry, 1975, 14, 3107-3114.	2.5	55
66	Crystal Structure and Cell Surface Anchorage Sites of Laminin Î±1LG4-5. Journal of Biological Chemistry, 2007, 282, 11573-11581.	3.4	55
67	[23] Basement membrane assembly. Methods in Enzymology, 1994, 245, 489-518.	1.0	54
68	[17] Labeling complex carbohydrates of animal cells with monosaccharides. Methods in Enzymology, 1978, 50, 175-204.	1.0	53
69	Loss of basement membrane, receptor and cytoskeletal lattices in a laminin-deficient muscular dystrophy. Journal of Cell Science, 2004, 117, 735-742.	2.0	50
70	Scaffold-forming and Adhesive Contributions of Synthetic Laminin-binding Proteins to Basement Membrane Assembly. Journal of Biological Chemistry, 2009, 284, 8984-8994.	3.4	50
71	Schwann Cell Myelination Requires Integration of Laminin Activities. Journal of Cell Science, 2012, 125, 4609-19.	2.0	49
72	Î±6Î²1 and Î±7Î²1 Integrins Are Required in Schwann Cells to Sort Axons. Journal of Neuroscience, 2013, 33, 17995-18007.	3.6	49

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73	Analysis of basement membrane self-assembly and cellular interactions with native and recombinant glycoproteins. Methods in Cell Biology, 2002, 69, 111-144.	1.1	48
74	Mechanisms of cytoskeletal regulation: Functional and antigenic diversity in human erythrocyte and brain beta spectrin. Journal of Cellular Biochemistry, 1986, 30, 51-69.	2.6	46
75	Characterization of commercial laminin preparations from human placenta in comparison to recombinant laminins 2 (Î±2Î²1Î³1), 8 (Î±4Î²1Î³1), 10 (Î±5Î²1Î³1). Matrix Biology, 2006, 25, 89-93.	3.6	46
76	The molecular structure of human tissue typeÂXV presents a unique conformation among the collagens. Biochemical Journal, 2007, 404, 535-544.	3.7	40
77	Integrin and dystroglycan compensate each other to mediate laminin-dependent basement membrane assembly and epiblast polarization. Matrix Biology, 2017, 57-58, 272-284.	3.6	38
78	Chimeric protein repair of laminin polymerization ameliorates muscular dystrophy phenotype. Journal of Clinical Investigation, 2017, 127, 1075-1089.	8.2	38
79	Perlecan is recruited by dystroglycan to nodes of Ranvier and binds the clustering molecule gliomedin. Journal of Cell Biology, 2015, 208, 313-329.	5.2	37
80	Whole-Genome Sequencing of Invasion-Resistant Cells Identifies Laminin Î±2 as a Host Factor for Bacterial Invasion. MBio, 2017, 8, .	4.1	36
81	High resolution platinum-carbon replication of freeze-dried basement membrane. Microscopy Research and Technique, 1994, 28, 13-28.	2.2	32
82	Expression of red cell membrane proteins in erythroid precursor cells. Journal of Supramolecular Structure, 1980, 13, 255-269.	2.3	31
83	Localization of Heparin Binding Activity in Recombinant Laminin G Domain. FEBS Journal, 1997, 250, 138-143.	0.2	30
84	Laminin Self-Assembly: A Three-Arm Interaction Hypothesis for the Formation of a Network in Basement Membranes. Contributions To Nephrology, 1994, 107, 47-56.	1.1	29
85	Neuronal Receptors Mediating Responses to AntibodyActivated Laminin-1. Journal of Neuroscience, 1998, 18, 9703-9715.	3.6	29
86	Rac1 Is Essential for Basement Membrane-Dependent Epiblast Survival. Molecular and Cellular Biology, 2010, 30, 3569-3581.	2.3	29
87	Assembly of Laminin and Type IV Collagen into Basement Membrane Networks. , 1994, , 351-388.		29
88	A mutation affecting laminin alpha 5 polymerisation gives rise to a syndromic developmental disorder. Development (Cambridge), 2020, 147, .	2.5	28
89	Renal collecting system growth and function depend upon embryonic Î³1 laminin expression. Development (Cambridge), 2011, 138, 4535-4544.	2.5	27
90	Integrin Î±3Î²1 regulates kidney collecting duct development via TRAF6-dependent K63-linked polyubiquitination of Akt. Molecular Biology of the Cell, 2015, 26, 1857-1874.	2.1	27

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91	Pathogenicity of a Human Laminin Î²2 Mutation Revealed in Models of Alport Syndrome. Journal of the American Society of Nephrology: JASN, 2018, 29, 949-960.	6.1	27
92	Conjugation of LG Domains of Agrins and Perlecan to Polymerizing Laminin-2 Promotes Acetylcholine Receptor Clustering. Journal of Biological Chemistry, 2005, 280, 41449-41457.	3.4	26
93	Matrix Assembly, Cell Polarization, and Cell Survival: Analysis of Peri-Implantation Development With Cultured Embryonic Stem Cells. , 2006, 329, 113-126.		24
94	Integrin alpha6 maintains the structural integrity of the kidney collecting system. Matrix Biology, 2017, 57-58, 244-257.	3.6	24
95	Analysis of Integrin Functions in Periâ€Implantation Embryos, Hematopoietic System, and Skin. Methods in Enzymology, 2007, 426, 239-289.	1.0	23
96	Supramolecular Organization of Basement Membranes. , 1993, , 19-47.		18
97	The Ultrastructural Organization and Architecture of Basement Membranes. Novartis Foundation Symposium, 1984, 108, 6-24.	1.1	17
98	Chimeric protein identification of dystrophic, Pierson and other laminin polymerization residues. Matrix Biology, 2018, 67, 32-46.	3.6	14
99	Organization of the laminin polymer node. Matrix Biology, 2021, 98, 49-63.	3.6	14
100	Linker Protein Repair of LAMA2 Dystrophic Neuromuscular Basement Membranes. Frontiers in Molecular Neuroscience, 2019, 12, 305.	2.9	11
101	Type IV Collagen "7S" Tetramer Formation: Aspects of Kinetics and Thermodynamics. Annals of the New York Academy of Sciences, 1985, 460, 530-533.	3.8	10
102	A deletion in the N-terminal polymerizing domain of laminin Î²2 is a new mouse model of chronic nephrotic syndrome. Kidney International, 2020, 98, 133-146.	5.2	10
103	Solute partitioning and filtration by extracellular matrices. American Journal of Physiology - Renal Physiology, 2009, 297, F1092-F1100.	2.7	8
104	Amelioration of muscle and nerve pathology of Lama2-related dystrophy by AAV9-laminin-Î±LN linker protein. JCI Insight, 2022, 7, .	5.0	6
105	Form and function: The laminin family of heterotrimers. , 0, .		4
106	Binding of the Renal Epithelial Cell Line LLC-PK1 to Laminin Is Regulated by Protein Kinase C. Journal of the American Society of Nephrology: JASN, 1999, 10, 1214-1223.	6.1	4
107	Analysis of Laminin Structure and Function with Recombinant Glycoprotein Expressed in Insect Cells. , 2000, 139, 27-37.		3
108	Laminin Polymerization and Binding to Glycosaminoglycans: A Hypothesis for Modulation of Basement Membrane Structure. Springer Series in Biophysics, 1989, , 357-366.	0.4	3

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109	Merosin deficient congenital muscular dystrophy type 1A: An international workshop on the road to therapy 15-17 November 2019, Maastricht, the Netherlands. Neuromuscular Disorders, 2021, 31, 673-680.	0.6	2
110	Binding of Laminin to Type IV Collagen: A Morphological Study. Annals of the New York Academy of Sciences, 1985, 460, 401-403.	3.8	1
111	Developmental expression of perlecan during murine embryogenesis. , 0, .		1
112	Corrections - Equilibration of Fucosyl Glycoprotein Pools in HeLa Cells. Biochemistry, 1977, 16, 2580-2580.	2.5	0
113	Laminin matrix assembly and the mediation of epithelial differentiation. FASEB Journal, 2007, 21, A90.	0.5	0
114	Evidence for lateral associations in the Type IV collagen network from freeze-dried platinum-carbon replicated amniotic basement membrane. Proceedings Annual Meeting Electron Microscopy Society of America, 1987, 45, 968-969.	0.0	0