

Peter D Yurchenco

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112
papers

13,459
citations

58
h-index

116
g-index

116
ext. papers

14,471
ext. citations

7.4
avg, IF

6.51
L-index

#	Paper	IF	Citations
112	Organization of the laminin polymer node. <i>Matrix Biology</i> , 2021 , 98, 49-63	11.4	0
111	Merosin deficient congenital muscular dystrophy type 1A: An international workshop on the road to therapy 15-17 November 2019, Maastricht, the Netherlands. <i>Neuromuscular Disorders</i> , 2021 , 31, 673-680	2.8	0
110	A deletion in the N-terminal polymerizing domain of laminin α 5 is a new mouse model of chronic nephrotic syndrome. <i>Kidney International</i> , 2020 , 98, 133-146	9.9	4
109	A mutation affecting laminin alpha 5 polymerisation gives rise to a syndromic developmental disorder. <i>Development (Cambridge)</i> , 2020 , 147,	6.6	11
108	Linker Protein Repair of LAMA2 Dystrophic Neuromuscular Basement Membranes. <i>Frontiers in Molecular Neuroscience</i> , 2019 , 12, 305	6.1	6
107	Pathogenicity of a Human Laminin 2 Mutation Revealed in Models of Alport Syndrome. <i>Journal of the American Society of Nephrology: JASN</i> , 2018 , 29, 949-960	12.7	20
106	Chimeric protein identification of dystrophic, Pierson and other laminin polymerization residues. <i>Matrix Biology</i> , 2018 , 67, 32-46	11.4	8
105	Laminin-deficient muscular dystrophy: Molecular pathogenesis and structural repair strategies. <i>Matrix Biology</i> , 2018 , 71-72, 174-187	11.4	49
104	Integrin alpha6 maintains the structural integrity of the kidney collecting system. <i>Matrix Biology</i> , 2017 , 57-58, 244-257	11.4	20
103	Whole-Genome Sequencing of Invasion-Resistant Cells Identifies Laminin α 5 as a Host Factor for Bacterial Invasion. <i>MBio</i> , 2017 , 8,	7.8	21
102	The nature and biology of basement membranes. <i>Matrix Biology</i> , 2017 , 57-58, 1-11	11.4	248
101	Linker proteins restore basement membrane and correct α 5-related muscular dystrophy in mice. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	45
100	Integrin and dystroglycan compensate each other to mediate laminin-dependent basement membrane assembly and epiblast polarization. <i>Matrix Biology</i> , 2017 , 57-58, 272-284	11.4	24
99	Chimeric protein repair of laminin polymerization ameliorates muscular dystrophy phenotype. <i>Journal of Clinical Investigation</i> , 2017 , 127, 1075-1089	15.9	31
98	Structural decoding of netrin-4 reveals a regulatory function towards mature basement membranes. <i>Nature Communications</i> , 2016 , 7, 13515	17.4	48
97	Integrating Activities of Laminins that Drive Basement Membrane Assembly and Function. <i>Current Topics in Membranes</i> , 2015 , 76, 1-30	2.2	51
96	Integrin β 1 regulates kidney collecting duct development via TRAF6-dependent K63-linked polyubiquitination of Akt. <i>Molecular Biology of the Cell</i> , 2015 , 26, 1857-74	3.5	16

95	A laminin 511 matrix is regulated by TAZ and functions as the ligand for the $\beta 5 \alpha 3$ integrin to sustain breast cancer stem cells. <i>Genes and Development</i> , 2015 , 29, 1-6	12.6	104
94	Perlecan is recruited by dystroglycan to nodes of Ranvier and binds the clustering molecule gliomedin. <i>Journal of Cell Biology</i> , 2015 , 208, 313-29	7.3	31
93	Abnormal muscle mechanosignaling triggers cardiomyopathy in mice with Marfan syndrome. <i>Journal of Clinical Investigation</i> , 2014 , 124, 1329-39	15.9	86
92	$\beta 1$ and $\alpha 3$ integrins are required in Schwann cells to sort axons. <i>Journal of Neuroscience</i> , 2013 , 33, 17995-8007	6.6	37
91	Laminins in basement membrane assembly. <i>Cell Adhesion and Migration</i> , 2013 , 7, 56-63	3.2	261
90	Schwann cell myelination requires integration of laminin activities. <i>Journal of Cell Science</i> , 2012 , 125, 4609-19	5.3	39
89	Basement membranes: cell scaffoldings and signaling platforms. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011 , 3,	10.2	553
88	Renal collecting system growth and function depend upon embryonic $\alpha 1$ laminin expression. <i>Development (Cambridge)</i> , 2011 , 138, 4535-44	6.6	25
87	Rac1 is essential for basement membrane-dependent epiblast survival. <i>Molecular and Cellular Biology</i> , 2010 , 30, 3569-81	4.8	27
86	Scaffold-forming and Adhesive Contributions of Synthetic Laminin-binding Proteins to Basement Membrane Assembly. <i>Journal of Biological Chemistry</i> , 2009 , 284, 8984-94	5.4	46
85	Solute partitioning and filtration by extracellular matrices. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 297, F1092-100	4.3	7
84	beta1 integrin is necessary for ureteric bud branching morphogenesis and maintenance of collecting duct structural integrity. <i>Development (Cambridge)</i> , 2009 , 136, 3357-66	6.6	52
83	Developmental and pathogenic mechanisms of basement membrane assembly. <i>Current Pharmaceutical Design</i> , 2009 , 15, 1277-94	3.3	246
82	Cdc42 is crucial for the establishment of epithelial polarity during early mammalian development. <i>Developmental Dynamics</i> , 2007 , 236, 2767-78	2.9	62
81	Role of laminin terminal globular domains in basement membrane assembly. <i>Journal of Biological Chemistry</i> , 2007 , 282, 21437-47	5.4	133
80	Analysis of integrin functions in peri-implantation embryos, hematopoietic system, and skin. <i>Methods in Enzymology</i> , 2007 , 426, 239-89	1.7	22
79	Crystal structure and cell surface anchorage sites of laminin alpha1LG4-5. <i>Journal of Biological Chemistry</i> , 2007 , 282, 11573-81	5.4	49
78	Identification of dystroglycan as a second laminin receptor in oligodendrocytes, with a role in myelination. <i>Development (Cambridge)</i> , 2007 , 134, 1723-36	6.6	73

77	The molecular structure of human tissue type XV presents a unique conformation among the collagens. <i>Biochemical Journal</i> , 2007 , 404, 535-44	3.8	33
76	Laminin matrix assembly and the mediation of epithelial differentiation. <i>FASEB Journal</i> , 2007 , 21, A90	0.9	
75	Matrix assembly, cell polarization, and cell survival: analysis of peri-implantation development with cultured embryonic stem cells. <i>Methods in Molecular Biology</i> , 2006 , 329, 113-25	1.4	24
74	Characterization of commercial laminin preparations from human placenta in comparison to recombinant laminins 2 (alpha2beta1gamma1), 8 (alpha4beta1gamma1), 10 (alpha5beta1gamma1). <i>Matrix Biology</i> , 2006 , 25, 89-93	11.4	44
73	A simplified laminin nomenclature. <i>Matrix Biology</i> , 2005 , 24, 326-32	11.4	663
72	Conjugation of LG domains of agrins and perlecan to polymerizing laminin-2 promotes acetylcholine receptor clustering. <i>Journal of Biological Chemistry</i> , 2005 , 280, 41449-57	5.4	22
71	PINCH1 regulates cell-matrix and cell-cell adhesions, cell polarity and cell survival during the peri-implantation stage. <i>Journal of Cell Science</i> , 2005 , 118, 2913-21	5.3	85
70	Laminin-sulfatide binding initiates basement membrane assembly and enables receptor signaling in Schwann cells and fibroblasts. <i>Journal of Cell Biology</i> , 2005 , 169, 179-89	7.3	115
69	Loss of basement membrane, receptor and cytoskeletal lattices in a laminin-deficient muscular dystrophy. <i>Journal of Cell Science</i> , 2004 , 117, 735-42	5.3	45
68	Assembly and tissue functions of early embryonic laminins and netrins. <i>Current Opinion in Cell Biology</i> , 2004 , 16, 572-9	9	92
67	Laminin functions in tissue morphogenesis. <i>Annual Review of Cell and Developmental Biology</i> , 2004 , 20, 255-84	12.6	566
66	Basement membrane assembly, stability and activities observed through a developmental lens. <i>Matrix Biology</i> , 2004 , 22, 521-38	11.4	292
65	Laminin alpha subunits and their role in <i>C. elegans</i> development. <i>Development (Cambridge)</i> , 2003 , 130, 3343-58	6.6	103
64	Recognition of the N-terminal modules of thrombospondin-1 and thrombospondin-2 by alpha6beta1 integrin. <i>Journal of Biological Chemistry</i> , 2003 , 278, 40679-87	5.4	81
63	The role of laminin in embryonic cell polarization and tissue organization. <i>Developmental Cell</i> , 2003 , 4, 613-24	10.2	231
62	Integrin-linked kinase (ILK) is required for polarizing the epiblast, cell adhesion, and controlling actin accumulation. <i>Genes and Development</i> , 2003 , 17, 926-40	12.6	316
61	Matrix assembly, regulation, and survival functions of laminin and its receptors in embryonic stem cell differentiation. <i>Journal of Cell Biology</i> , 2002 , 157, 1279-90	7.3	269
60	Contributions of the LG modules and furin processing to laminin-2 functions. <i>Journal of Biological Chemistry</i> , 2002 , 277, 18928-37	5.4	73

59	Utrophin binds laterally along actin filaments and can couple costameric actin with sarcolemma when overexpressed in dystrophin-deficient muscle. <i>Molecular Biology of the Cell</i> , 2002 , 13, 1512-21	3.5	88
58	Analysis of basement membrane self-assembly and cellular interactions with native and recombinant glycoproteins. <i>Methods in Cell Biology</i> , 2002 , 69, 111-44	1.8	41
57	Laminin assembles into separate basement membrane and fibrillar matrices in Schwann cells. <i>Journal of Cell Science</i> , 2002 , 115, 1005-1015	5.3	66
56	Laminin assembles into separate basement membrane and fibrillar matrices in Schwann cells. <i>Journal of Cell Science</i> , 2002 , 115, 1005-15	5.3	64
55	Rac1 orientates epithelial apical polarity through effects on basolateral laminin assembly. <i>Nature Cell Biology</i> , 2001 , 3, 831-8	23.4	377
54	Dystroglycan binding to laminin alpha1LG4 module influences epithelial morphogenesis of salivary gland and lung in vitro. <i>Differentiation</i> , 2001 , 69, 121-34	3.5	69
53	Form and function: the laminin family of heterotrimers. <i>Developmental Dynamics</i> , 2000 , 218, 213-34	2.9	933
52	Regulation of neurite outgrowth by integrin activation. <i>Journal of Neuroscience</i> , 2000 , 20, 6551-60	6.6	122
51	Recombinant laminin-8 (alpha(4)beta(1)gamma(1)). Production, purification, and interactions with integrins. <i>Journal of Biological Chemistry</i> , 2000 , 275, 14853-9	5.4	103
50	Analysis of laminin structure and function with recombinant glycoprotein expressed in insect cells. <i>Methods in Molecular Biology</i> , 2000 , 139, 27-37	1.4	3
49	Division of labor among the alpha6beta4 integrin, beta1 integrins, and an E3 laminin receptor to signal morphogenesis and beta-casein expression in mammary epithelial cells. <i>Molecular Biology of the Cell</i> , 1999 , 10, 2817-28	3.5	103
48	Laminin polymerization induces a receptor-cytoskeleton network. <i>Journal of Cell Biology</i> , 1999 , 145, 619-34	7.3	253
47	The laminin alpha2 expressed by dystrophic dy(2J) mice is defective in its ability to form polymers. <i>Current Biology</i> , 1999 , 9, 1327-30	6.3	74
46	Binding of the renal epithelial cell line LLC-PK1 to laminin is regulated by protein kinase C. <i>Journal of the American Society of Nephrology: JASN</i> , 1999 , 10, 1214-23	12.7	3
45	Role of alpha-dystroglycan as a Schwann cell receptor for Mycobacterium leprae. <i>Science</i> , 1998 , 282, 2076-9	33.3	170
44	Neuronal receptors mediating responses to antibody-activated laminin-1. <i>Journal of Neuroscience</i> , 1998 , 18, 9703-15	6.6	27
43	Laminin-induced clustering of dystroglycan on embryonic muscle cells: comparison with agrin-induced clustering. <i>Journal of Cell Biology</i> , 1997 , 136, 1047-58	7.3	67
42	Self-assembly of laminin isoforms. <i>Journal of Biological Chemistry</i> , 1997 , 272, 31525-32	5.4	196

41	The laminin alpha2-chain short arm mediates cell adhesion through both the alpha1beta1 and alpha2beta1 integrins. <i>Journal of Biological Chemistry</i> , 1997 , 272, 29330-6	5.4	81
40	Mild congenital muscular dystrophy in two patients with an internally deleted laminin alpha2-chain. <i>Human Molecular Genetics</i> , 1997 , 6, 747-52	5.6	119
39	The alpha chain of laminin-1 is independently secreted and drives secretion of its beta- and gamma-chain partners. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 10189-94	11.5	117
38	Neural targeting of <i>Mycobacterium leprae</i> mediated by the G domain of the laminin-alpha2 chain. <i>Cell</i> , 1997 , 88, 811-21	56.2	140
37	Localization of heparin binding activity in recombinant laminin G domain. <i>FEBS Journal</i> , 1997 , 250, 138-43		27
36	Developmental expression of perlecan during murine embryogenesis. <i>Developmental Dynamics</i> , 1997 , 210, 130-45	2.9	161
35	Mapping of network-forming, heparin-binding, and alpha 1 beta 1 integrin-recognition sites within the alpha-chain short arm of laminin-1. <i>Journal of Biological Chemistry</i> , 1995 , 270, 9398-406	5.4	101
34	Laminin mediates tissue-specific gene expression in mammary epithelia. <i>Journal of Cell Biology</i> , 1995 , 129, 591-603	7.3	336
33	Laminin self-assembly: a three-arm interaction hypothesis for the formation of a network in basement membranes. <i>Contributions To Nephrology</i> , 1994 , 107, 47-56	1.6	26
32	High resolution platinum-carbon replication of freeze-dried basement membrane. <i>Microscopy Research and Technique</i> , 1994 , 28, 13-28	2.8	23
31	Domain-specific activation of neuronal migration and neurite outgrowth-promoting activities of laminin. <i>Neuron</i> , 1994 , 13, 117-30	13.9	88
30	Modulation of angiogenesis in vitro by laminin-entactin complex. <i>Developmental Biology</i> , 1994 , 164, 197-206		63
29	A new nomenclature for the laminins. <i>Matrix Biology</i> , 1994 , 14, 209-11	11.4	679
28	Basal lamina assembly. <i>Current Opinion in Cell Biology</i> , 1994 , 6, 674-81	9	274
27	Basement membrane assembly. <i>Methods in Enzymology</i> , 1994 , 245, 489-518	1.7	49
26	Assembly of Laminin and Type IV Collagen into Basement Membrane Networks 1994 , 351-388		20
25	Cell and heparin binding in the distal long arm of laminin: identification of active and cryptic sites with recombinant and hybrid glycoprotein. <i>Journal of Cell Biology</i> , 1993 , 123, 1255-68	7.3	101
24	Supramolecular Organization of Basement Membranes 1993 , 19-47		13

23	Laminin forms an independent network in basement membranes. <i>Journal of Cell Biology</i> , 1992 , 117, 1119-33	7.3	236
22	Endothelial cells interact with the core protein of basement membrane perlecan through beta 1 and beta 3 integrins: an adhesion modulated by glycosaminoglycan. <i>Journal of Cell Biology</i> , 1992 , 119, 945-59	7.3	167
21	Assembly of basement membranes. <i>Annals of the New York Academy of Sciences</i> , 1990 , 580, 195-213	6.5	54
20	Molecular architecture of basement membranes. <i>FASEB Journal</i> , 1990 , 4, 1577-90	0.9	797
19	Terminal short arm domains of basement membrane laminin are critical for its self-assembly. <i>Journal of Cell Biology</i> , 1990 , 110, 825-32	7.3	108
18	Basement membranes: molecular organization and function in development and disease. <i>Current Opinion in Cell Biology</i> , 1989 , 1, 983-8	9	61
17	Laminin Polymerization and Binding to Glycosaminoglycans: A Hypothesis for Modulation of Basement Membrane Structure. <i>Springer Series in Biophysics</i> , 1989 , 357-366		2
16	Basement membrane structure in situ: evidence for lateral associations in the type IV collagen network. <i>Journal of Cell Biology</i> , 1987 , 105, 2559-68	7.3	286
15	Structure of low density heparan sulfate proteoglycan isolated from a mouse tumor basement membrane. <i>Journal of Molecular Biology</i> , 1987 , 197, 297-313	6.5	160
14	Evidence for lateral associations in the Type IV collagen network from freeze-dried platinum-carbon replicated amniotic basement membrane. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1987 , 45, 968-969		
13	Mechanisms of cytoskeletal regulation: functional and antigenic diversity in human erythrocyte and brain beta spectrin. <i>Journal of Cellular Biochemistry</i> , 1986 , 30, 51-69	4.7	41
12	Models for the self-assembly of basement membrane. <i>Journal of Histochemistry and Cytochemistry</i> , 1986 , 34, 93-102	3.4	146
11	Binding of laminin to type IV collagen: a morphological study. <i>Journal of Cell Biology</i> , 1985 , 100, 1848-53	7.3	169
10	Binding of Laminin to Type IV Collagen: A Morphological Study. <i>Annals of the New York Academy of Sciences</i> , 1985 , 460, 401-403	6.5	1
9	Type IV Collagen α 5(<vi) <i="" and="" aspects="" formation:="" kinetics="" of="" tetramer="" thermodynamics.="">Annals of the New York Academy of Sciences, 1985, 460, 530-533</vi)>	6.5	9
8	The ultrastructural organization and architecture of basement membranes. <i>Novartis Foundation Symposium</i> , 1984 , 108, 6-24		8
7	Self-assembly of basement membrane collagen. <i>Biochemistry</i> , 1984 , 23, 1839-50	3.2	314
6	Expression of red cell membrane proteins in erythroid precursor cells. <i>Journal of Supramolecular Structure</i> , 1980 , 13, 255-69		25

5	Labeling complex carbohydrates of animal cells with monosaccharides. <i>Methods in Enzymology</i> , 1978 , 50, 175-204	1.7	45
4	Equilibration of fucosyl glycoprotein pools in HeLa cells. <i>Biochemistry</i> , 1977 , 16, 944-53	3.2	70
3	Fucosyl-glycoprotein and precursor pools in HeLa cells. <i>Biochemistry</i> , 1975 , 14, 3107-14	3.2	47
2	Developmental expression of perlecan during murine embryogenesis		1
1	Form and function: The laminin family of heterotrimers		3