

Mitchell A Watsky

List of Publications by Citations

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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.

65
papers

3,009
citations

28
h-index

54
g-index

66
ext. papers

3,226
ext. citations

5.5
avg, IF

4.54
L-index

#	Paper	IF	Citations
65	Functional human corneal equivalents constructed from cell lines. <i>Science</i> , 1999 , 286, 2169-72	33.3	389
64	PEG-stabilized carbodiimide crosslinked collagen-chitosan hydrogels for corneal tissue engineering. <i>Biomaterials</i> , 2008 , 29, 3960-72	15.6	308
63	Recombinant human collagen for tissue engineered corneal substitutes. <i>Biomaterials</i> , 2008 , 29, 1147-58	15.6	181
62	A simple, cross-linked collagen tissue substitute for corneal implantation. <i>Investigative Ophthalmology and Visual Science</i> , 2006 , 47, 1869-75		166
61	Collagen-phosphorylcholine interpenetrating network hydrogels as corneal substitutes. <i>Biomaterials</i> , 2009 , 30, 1551-9	15.6	153
60	Comparison of conjunctival and corneal surface areas in rabbit and human. <i>Current Eye Research</i> , 1988 , 7, 483-6	2.9	134
59	Tissue-engineered recombinant human collagen-based corneal substitutes for implantation: performance of type I versus type III collagen 2008 , 49, 3887-94		105
58	Elevated serum levels of arachidonoyl-lysophosphatidic acid and sphingosine 1-phosphate in systemic sclerosis. <i>International Journal of Medical Sciences</i> , 2009 , 6, 168-76	3.7	99
57	A collagen-based scaffold for a tissue engineered human cornea: physical and physiological properties. <i>International Journal of Artificial Organs</i> , 2003 , 26, 764-73	1.9	96
56	Artificial human corneas: scaffolds for transplantation and host regeneration. <i>Cornea</i> , 2002 , 21, S54-61	3.1	91
55	Growth factor-like phospholipids generated after corneal injury. <i>American Journal of Physiology - Cell Physiology</i> , 1998 , 274, C1065-74	5.4	90
54	Vitamin D enhances corneal epithelial barrier function 2011 , 52, 7359-64		85
53	Properties of porcine and recombinant human collagen matrices for optically clear tissue engineering applications. <i>Biomacromolecules</i> , 2006 , 7, 1819-28	6.9	75
52	25-Hydroxyvitamin D, cholesterol, and ultraviolet irradiation. <i>Metabolism: Clinical and Experimental</i> , 2008 , 57, 741-8	12.7	70
51	Keratocyte gap junctional communication in normal and wounded rabbit corneas and human corneas. <i>Investigative Ophthalmology and Visual Science</i> , 1995 , 36, 2568-76		56
50	Enhancement of vitamin D metabolites in the eye following vitamin D3 supplementation and UV-B irradiation. <i>Current Eye Research</i> , 2012 , 37, 871-8	2.9	53
49	In vitro corneal endothelial permeability in rabbit and human: the effects of age, cataract surgery and diabetes. <i>Experimental Eye Research</i> , 1989 , 49, 751-67	3.7	53

48	Innervated human corneal equivalents as in vitro models for nerve-target cell interactions. <i>FASEB Journal</i> , 2004 , 18, 170-2	0.9	51
47	Synthetic neoglycopolymer-recombinant human collagen hybrids as biomimetic crosslinking agents in corneal tissue engineering. <i>Biomaterials</i> , 2009 , 30, 5403-8	15.6	48
46	New insights into the mechanism of fibroblast to myofibroblast transformation and associated pathologies. <i>International Review of Cell and Molecular Biology</i> , 2010 , 282, 165-92	6	45
45	CLC-3 is required for LPA-activated Cl ⁻ current activity and fibroblast-to-myofibroblast differentiation. <i>American Journal of Physiology - Cell Physiology</i> , 2008 , 294, C535-42	5.4	45
44	Induction and duration of tonic immobility in the lemon shark, <i>Negaprion brevirostris</i> . <i>Fish Physiology and Biochemistry</i> , 1990 , 8, 207-10	2.7	44
43	LPA and S1P increase corneal epithelial and endothelial cell transcellular resistance. <i>Investigative Ophthalmology and Visual Science</i> , 2005 , 46, 1927-33		41
42	Gap junctional communication in the human corneal endothelium and epithelium. <i>Current Eye Research</i> , 2002 , 25, 29-36	2.9	36
41	Effect of vitamin D receptor knockout on cornea epithelium wound healing and tight junctions 2014 , 55, 5245-51		33
40	Chloride channel activity in human lung fibroblasts and myofibroblasts. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005 , 288, L1110-6	5.8	30
39	Sodium channels in ocular epithelia. <i>Pflugers Archiv European Journal of Physiology</i> , 1991 , 419, 454-9	4.6	30
38	Phospholipid growth factors and corneal wound healing. <i>Annals of the New York Academy of Sciences</i> , 2000 , 905, 142-58	6.5	28
37	Ionic channels in corneal endothelium. <i>American Journal of Physiology - Cell Physiology</i> , 1996 , 270, C975-84	5.4	23
36	Effects of a low sodium diet on bone metabolism. <i>Journal of Bone and Mineral Metabolism</i> , 2005 , 23, 506-13	2.9	21
35	Injury-elicited differential transcriptional regulation of phospholipid growth factor receptors in the cornea. <i>American Journal of Physiology - Cell Physiology</i> , 2002 , 283, C1646-54	5.4	21
34	Teriparatide is safe and effectively increases bone biomarkers in institutionalized individuals with osteoporosis. <i>Journal of Bone and Mineral Metabolism</i> , 2010 , 28, 233-9	2.9	20
33	Dye spread through gap junctions in the corneal epithelium of the rabbit. <i>Current Eye Research</i> , 1997 , 16, 445-52	2.9	20
32	PPIP5K2 and PCSK1 are Candidate Genetic Contributors to Familial Keratoconus. <i>Scientific Reports</i> , 2019 , 9, 19406	4.9	20
31	Vitamin D in Tear Fluid 2015 , 56, 5880-7		18

30	Lysophosphatidic acid-activated Cl ⁻ current activity in human systemic sclerosis skin fibroblasts. <i>Rheumatology</i> , 2010 , 49, 2290-7	3.9	18
29	Bicarbonate promotes dye coupling in the epithelium and endothelium of the rabbit cornea. <i>Current Eye Research</i> , 2004 , 28, 109-20	2.9	18
28	Lysophosphatidic acid, serum, and hyposmolarity activate Cl ⁻ currents in corneal keratocytes. <i>American Journal of Physiology - Cell Physiology</i> , 1995 , 269, C1385-93	5.4	18
27	Corneal endothelial junctions and the effect of ouabain. <i>Investigative Ophthalmology and Visual Science</i> , 1990 , 31, 933-41		17
26	Pamidronate infusion in patients with systemic sclerosis results in changes in blood mononuclear cell cytokine profiles. <i>Clinical and Experimental Immunology</i> , 2006 , 146, 371-80	6.2	16
25	Effects of vitamin D receptor knockout on cornea epithelium gap junctions 2014 , 55, 2975-82		15
24	Receptor-mediated activation of a Cl ⁻ current by LPA and S1P in cultured corneal keratocytes. <i>Investigative Ophthalmology and Visual Science</i> , 2002 , 43, 3202-8		15
23	Effect of tumor necrosis factor alpha on rabbit corneal endothelial permeability. <i>Investigative Ophthalmology and Visual Science</i> , 1996 , 37, 1924-9		14
22	Resting voltage measurements of the rabbit corneal endothelium using patch-current clamp techniques. <i>Investigative Ophthalmology and Visual Science</i> , 1991 , 32, 106-11		13
21	Dye coupling in the corneal endothelium: effects of ouabain and extracellular calcium removal. <i>Cell and Tissue Research</i> , 1992 , 269, 57-63	4.2	11
20	Effects of 1,25 and 24,25 Vitamin D on Corneal Epithelial Proliferation, Migration and Vitamin D Metabolizing and Catabolizing Enzymes. <i>Scientific Reports</i> , 2017 , 7, 16951	4.9	8
19	Characterization of voltage-gated, whole-cell ionic currents from conjunctival epithelial cells. <i>Investigative Ophthalmology and Visual Science</i> , 1998 , 39, 351-7		8
18	Lysophospholipids and lysophospholipase D in rabbit aqueous humor following corneal injury. <i>Prostaglandins and Other Lipid Mediators</i> , 2012 , 97, 83-9	3.7	7
17	Nonselective cation channel activation during wound healing in the corneal endothelium. <i>American Journal of Physiology - Cell Physiology</i> , 1995 , 268, C1179-85	5.4	7
16	Initial characterization of whole-cell currents from freshly dissociated corneal keratocytes. <i>Current Eye Research</i> , 1992 , 11, 127-34	2.9	7
15	Phorbol ester modulation of rabbit corneal endothelial permeability. <i>Investigative Ophthalmology and Visual Science</i> , 1997 , 38, 2649-54		7
14	Polyamines in cultured rabbit corneal cells. <i>Investigative Ophthalmology and Visual Science</i> , 2003 , 44, 2512-7		5
13	Vitamin D receptor and metabolite effects on corneal epithelial cell gap junction proteins. <i>Experimental Eye Research</i> , 2019 , 187, 107776	3.7	4

12	Influence of Vitamin D on Corneal Epithelial Cell Desmosomes and Hemidesmosomes 2019 , 60, 4074-4083		4
11	Effects of Vitamin D Receptor Knockout and Vitamin D Deficiency on Corneal Epithelial Wound Healing and Nerve Density in Diabetic Mice. <i>Diabetes</i> , 2020 , 69, 1042-1051	0.9	4
10	Loss of keratocyte ion channels during wound healing in the rabbit cornea. <i>Investigative Ophthalmology and Visual Science</i> , 1995 , 36, 1095-9		4
9	Intraocular irrigating solutions: the importance of Ca ⁺⁺ and glass versus polypropylene bottles. <i>International Ophthalmology Clinics</i> , 1993 , 33, 109-25	1.7	2
8	Ion channel involvement in the temperature-sensitive response of the rabbit corneal endothelial cell resting membrane potential. <i>Journal of Membrane Biology</i> , 1993 , 135, 61-71	2.3	2
7	A method for the in vitro determination of feline corneal endothelial permeability. <i>Current Eye Research</i> , 1990 , 9, 1129-36	2.9	2
6	Cornea 2002 , 927-941		2
5	Transient Cell Membrane Disruptions induce Calcium Waves in Corneal Keratocytes. <i>Scientific Reports</i> , 2020 , 10, 2840	4.9	1
4	Whose Naughty or Nice: Electrophysiological Screening of Cells for Use in Tissue-Engineered Corneas 2000 , 1, 115-120		1
3	Epithelial Cell Culture 2002 , 131-140		1
2	Effects of 1,25 and 24,25 Vitamin D on Corneal Fibroblast VDR and Vitamin D Metabolizing and Catabolizing Enzymes. <i>Current Eye Research</i> , 2021 , 46, 1271-1282	2.9	0
1	Tissue Engineered Models for In Vitro Studies 2009 , 759-772		