# Mitchell A Watsky

List of Publications by Year
in descending order



| 66 | 3,487 | 236925 25 | 168389 53 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 66 | 66 | 66 | 3353 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Functional Human Corneal Equivalents Constructed from Cell Lines. Science, 1999, 286, 2169-2172. | 12.6 | 432 |
| 2 | PEG-stabilized carbodiimide crosslinked collagenâ€“chitosan hydrogels for corneal tissue engineering. Biomaterials, 2008, 29, 3960-3972. | 11.4 | 360 |
| 3 | Recombinant human collagen for tissue engineered corneal substitutes. Biomaterials, 2008, 29, 1147-1158. | 11.4 | 202 |
| 4 | A Simple, Cross-linked Collagen Tissue Substitute for Corneal Implantation. , 2006, 47, 1869. | | 184 |
| 5 | Collagenâ€“phosphorylcholine interpenetrating network hydrogels as corneal substitutes. Biomaterials, 2009, 30, 1551-1559. | 11.4 | 171 |
| 6 | Comparison of conjunctival and corneal surface areas in rabbit and human. Current Eye Research, 1988, 7, 483-486. | 1.5 | 159 |
| 7 | Tissue-Engineered Recombinant Human Collagen-Based Corneal Substitutes for Implantation: Performance of Type I versus Type III Collagen. , 2008, 49, 3887. | | 116 |
| 8 | Elevated Serum Levels of Arachidonoyl-lysophosphatidic Acid and Sphingosine 1-Phosphate in Systemic Sclerosis. International Journal of Medical Sciences, 2009, 6, 168-176. | 2.5 | 116 |
| 9 | Vitamin D Enhances Corneal Epithelial Barrier Function. , 2011, 52, 7359. | | 116 |
| 10 | A Collagen-Based Scaffold for a Tissue Engineered Human Cornea: Physical and Physiological Properties. International Journal of Artificial Organs, 2003, 26, 764-773. | 1.4 | 104 |
| 11 | Growth factor-like phospholipids generated after corneal injury. American Journal of Physiology - Cell Physiology, 1998, 274, C1065-C1074. | 4.6 | 102 |
| 12 | Artificial Human Corneas. Cornea, 2002, 21, S54-S61. | 1.7 | 102 |
| 13 | Properties of Porcine and Recombinant Human Collagen Matrices for Optically Clear Tissue Engineering Applications. Biomacromolecules, 2006, 7, 1819-1828. | 5.4 | 81 |
| 14 | 25-Hydroxyvitamin D, cholesterol, and ultraviolet irradiation. Metabolism: Clinical and Experimental, 2008, 57, 741-748. | 3.4 | 79 |
| 15 | Enhancement of Vitamin D Metabolites in the Eye Following Vitamin D3 Supplementation and UV-B Irradiation. Current Eye Research, 2012, 37, 871-878. | 1.5 | 62 |
| 16 | Keratocyte gap junctional communication in normal and wounded rabbit corneas and human corneas. Investigative Ophthalmology and Visual Science, 1995, 36, 2568-76. | 3.3 | 61 |
| 17 | Innervated human corneal equivalents as in vitro models for nerveâ€target cell interactions. FASEB Journal, 2004, 18, 170-172. | 0.5 | 59 |
| 18 | In vitro corneal endothelial permeability in rabbit and human: The effects of age, cataract surgery and diabetes. Experimental Eye Research, 1989, 49, 751-767. | 2.6 | 56 |

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|---|---|---|---|
| 19 | Synthetic neoglycopolymer-recombinant human collagen hybrids as biomimetic crosslinking agents in corneal tissue engineering. Biomaterials, 2009, 30, 5403-5408. | 11.4 | 54 |
| 20 | New Insights into the Mechanism of Fibroblast to Myofibroblast Transformation and Associated Pathologies. International Review of Cell and Molecular Biology, 2010, 282, 165-192. | 3.2 | 53 |
| 21 | ClC-3 is required for LPA-activated Clâ^' current activity and fibroblast-to-myofibroblast differentiation. American Journal of Physiology - Cell Physiology, 2008, 294, C535-C542. | 4.6 | 50 |
| 22 | Induction and duration of tonic immobility in the lemon shark, Negaprion brevirostris. Fish Physiology and Biochemistry, 1990, 8, 207-210. | 2.3 | 49 |
| 23 | LPA and S1P Increase Corneal Epithelial and Endothelial Cell Transcellular Resistance. , 2005, 46, 1927. | | 47 |
| 24 | Effect of Vitamin D Receptor Knockout on Cornea Epithelium Wound Healing and Tight Junctions. , 2014, 55, 5245. | | 45 |
| 25 | Gap junctional communication in the human corneal endothelium and epithelium. Current Eye Research, 2002, 25, 29-36. | 1.5 | 39 |
| 26 | Sodium channels in ocular epithelia. Pflugers Archiv European Journal of Physiology, 1991, 419, 454-459. | 2.8 | 36 |
| 27 | PPIP5K2 and PCSK1 are Candidate Genetic Contributors to Familial Keratoconus. Scientific Reports, 2019, 9, 19406. | 3.3 | 34 |
| 28 | Chloride channel activity in human lung fibroblasts and myofibroblasts. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2005, 288, L1110-L1116. | 2.9 | 33 |
| 29 | Phospholipid Growth Factors and Corneal Wound Healing. Annals of the New York Academy of Sciences, 2000, 905, 142-158. | 3.8 | 30 |
| 30 | Ionic channels in corneal endothelium. American Journal of Physiology - Cell Physiology, 1996, 270, C975-C989. | 4.6 | 28 |
| 31 | Effects of a low sodium diet on bone metabolism. Journal of Bone and Mineral Metabolism, 2005, 23, 506-513. | 2.7 | 26 |
| 32 | Vitamin D in Tear Fluid. , 2015, 56, 5880. | | 26 |
| 33 | Lysophosphatidic acid, serum, and hyposmolarity activate Cl- currents in corneal keratocytes. American Journal of Physiology - Cell Physiology, 1995, 269, C1385-C1393. | 4.6 | 24 |
| 34 | Teriparatide is safe and effectively increases bone biomarkers in institutionalized individuals with osteoporosis. Journal of Bone and Mineral Metabolism, 2010, 28, 233-239. | 2.7 | 24 |
| 35 | Injury-elicited differential transcriptional regulation of phospholipid growth factor receptors in the cornea. American Journal of Physiology - Cell Physiology, 2002, 283, C1646-C1654. | 4.6 | 23 |
| 36 | Dye spread through gap junctions in the corneal epithelium of the rabbit. Current Eye Research, 1997, 16, 445-452. | 1.5 | 22 |

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|---|---|---|---|
| 37 | Effects of Vitamin D Receptor Knockout on Cornea Epithelium Gap Junctions. , 2014, 55, 2975. | | 21 |
| 38 | Receptor-mediated activation of a Cl(-) current by LPA and S1P in cultured corneal keratocytes. Investigative Ophthalmology and Visual Science, 2002, 43, 3202-8. | 3.3 | 20 |
| 39 | Bicarbonate promotes dye coupling in the epithelium and endothelium of the rabbit cornea. Current Eye Research, 2004, 28, 109-120. | 1.5 | 19 |
| 40 | Lysophosphatidic acid-activated Cl- current activity in human systemic sclerosis skin fibroblasts. Rheumatology, 2010, 49, 2290-2297. | 1.9 | 19 |
| 41 | Effects of 1,25 and 24,25 Vitamin D on Corneal Epithelial Proliferation, Migration and Vitamin D Metabolizing and Catabolizing Enzymes. Scientific Reports, 2017, 7, 16951. | 3.3 | 18 |
| 42 | Corneal endothelial junctions and the effect of ouabain. Investigative Ophthalmology and Visual Science, 1990, 31, 933-41. | 3.3 | 18 |
| 43 | Pamidronate infusion in patients with systemic sclerosis results in changes in blood mononuclear cell cytokine profiles. Clinical and Experimental Immunology, 2006, 146, 371-380. | 2.6 | 17 |
| 44 | Effect of tumor necrosis factor alpha on rabbit corneal endothelial permeability. Investigative Ophthalmology and Visual Science, 1996, 37, 1924-9. | 3.3 | 14 |
| 45 | Resting voltage measurements of the rabbit corneal endothelium using patch-current clamp techniques. Investigative Ophthalmology and Visual Science, 1991, 32, 106-11. | 3.3 | 13 |
| 46 | Nonselective cation channel activation during wound healing in the corneal endothelium. American Journal of Physiology - Cell Physiology, 1995, 268, C1179-C1185. | 4.6 | 12 |
| 47 | Dye coupling in the corneal endothelium: effects of ouabain and extracellular calcium removal. Cell and Tissue Research, 1992, 269, 57-63. | 2.9 | 11 |
| 48 | Effects of Vitamin D Receptor Knockout and Vitamin D Deficiency on Corneal Epithelial Wound Healing and Nerve Density in Diabetic Mice. Diabetes, 2020, 69, 1042-1051. | 0.6 | 11 |
| 49 | Lysophospholipids and lysophospholipase D in rabbit aqueous humor following corneal injury. Prostaglandins and Other Lipid Mediators, 2012, 97, 83-89. | 1.9 | 10 |
| 50 | Vitamin D receptor and metabolite effects on corneal epithelial cell gap junction proteins. Experimental Eye Research, 2019, 187, 107776. | 2.6 | 10 |
| 51 | Influence of Vitamin D on Corneal Epithelial Cell Desmosomes and Hemidesmosomes. , 2019, 60, 4074. | | 9 |
| 52 | Characterization of voltage-gated, whole-cell ionic currents from conjunctival epithelial cells. Investigative Ophthalmology and Visual Science, 1998, 39, 351-7. | 3.3 | 9 |
| 53 | Initial characterization of whole-cell currents from freshly dissociated corneal keratocytes. Current Eye Research, 1992, 11, 127-134. | 1.5 | 8 |
| 54 | Phorbol ester modulation of rabbit corneal endothelial permeability. Investigative Ophthalmology and Visual Science, 1997, 38, 2649-54. | 3.3 | 7 |

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|---|---|---|---|
| 55 | Ion channel involvement in the temperature-sensitive response of the rabbit corneal endothelial cell resting membrane potential. Journal of Membrane Biology, 1993, 135, 61-71. | 2.1 | 5 |
| 56 | Polyamines in Cultured Rabbit Corneal Cells. , 2003, 44, 2512. | | 5 |
| 57 | Effects of 1,25 and 24,25 Vitamin D on Corneal Fibroblast VDR and Vitamin D Metabolizing and Catabolizing Enzymes. Current Eye Research, 2021, 46, 1271-1282. | 1.5 | 5 |
| 58 | Loss of keratocyte ion channels during wound healing in the rabbit cornea. Investigative Ophthalmology and Visual Science, 1995, 36, 1095-9. | 3.3 | 5 |
| 59 | Transient Cell Membrane Disruptions induce Calcium Waves in Corneal Keratocytes. Scientific Reports, 2020, 10, 2840. | 3.3 | 4 |
| 60 | Intraocular Irrigating Solutions: The Importance of Ca++ and Glass Versus Polypropylene Bottles. International Ophthalmology Clinics, 1993, 33, 109-125. | 0.7 | 3 |
| 61 | A method for the in vitro determination of feline corneal endothelial permeability. Current Eye Research, 1990, 9, 1129-1136. | 1.5 | 2 |
| 62 | Association of Vitamin D with Incident Glaucoma: Findings from the Women's Health Initiative. Journal of Investigative Medicine, 2021, 69, 843-850. | 1.6 | 2 |
| 63 | Epithelial Cell Culture. , 2002, , 131-140. | | 2 |
| 64 | Cornea. , 2002, , 927-941. | | 2 |
| 65 | Whose Naughty or Nice: Electrophysiological Screening of Cells for Use in Tissue-Engineered Corneas. , 2000, 1, 115-120. | | 1 |
| 66 | Tissue Engineered Models for In Vitro Studies. , 2009, , 759-772. | | 0 |