Christopher J Murphy

List of Publications by Citations

172 papers	7,960 citations	48 h-index	84 g-index
174 ext. papers	8,873 ext. citations	5.3 avg, IF	5.82 L-index

#	Paper	IF	Citations
172	Epithelial contact guidance on well-defined micro- and nanostructured substrates. *Journal of Cell Science*, **2003**, 116, 1881-92	5.3	822
171	Indentation versus tensile measurements of Young's modulus for soft biological tissues. *Tissue Engineering - Part B: Reviews*, **2011**, 17, 155-64	7.9	422
170	Biological length scale topography enhances cell-substratum adhesion of human corneal epithelial cells. *Journal of Cell Science*, **2004**, 117, 3153-64	5.3	265
169	Elastic modulus determination of normal and glaucomatous human trabecular meshwork **2011**, 52, 2147-52		229
168	The effect of environmental factors on the response of human corneal epithelial cells to nanoscale substrate topography. *Biomaterials*, **2006**, 27, 3945-54	15.6	223
167	Surfaces modified with nanometer-thick silver-impregnated polymeric films that kill bacteria but support growth of mammalian cells. *Biomaterials*, **2010**, 31, 680-90	15.6	214
166	Responses of human keratocytes to micro- and nanostructured substrates. *Journal of Biomedical Materials Research Part B*, **2004**, 71, 369-76		193
165	Modulation of osteogenic differentiation in hMSCs cells by submicron topographically-patterned ridges and grooves. *Biomaterials*, **2012**, 33, 128-36	15.6	172
164	The elastic modulus of Matrigel as determined by atomic force microscopy. *Journal of Structural Biology*, **2009**, 167, 216-9	3.4	166
163	Defensins are mitogenic for epithelial cells and fibroblasts. *Journal of Cellular Physiology*, **1993**, 155, 408-13	7	162
162	Modulation of human vascular endothelial cell behaviors by nanotopographic cues. *Biomaterials*, **2010**, 31, 5418-26	15.6	159
161	Determining the mechanical properties of human corneal basement membranes with atomic force microscopy. *Journal of Structural Biology*, **2009**, 167, 19-24	3.4	148
160	Synergistic effects of substance P with insulin-like growth factor-1 on epithelial migration of the cornea. *Journal of Cellular Physiology*, **1996**, 169, 159-66	7	137
159	Cooperative modulation of neuritogenesis by PC12 cells by topography and nerve growth factor. *Biomaterials*, **2005**, 26, 3639-44	15.6	136
158	Characterization of endothelial basement membrane nanotopography in rhesus macaque as a guide for vessel tissue engineering. *Tissue Engineering - Part A*, **2009**, 15, 2643-51	3.9	125
157	Companion animals: Translational scientist's new best friends. *Science Translational Medicine*, **2015**, 7, 308ps21	17.5	109
156	Using Liquid Crystals to Amplify Protein–Receptor Interactions: Design of Surfaces with Nanometer-Scale Topography that Present Histidine-Tagged Protein Receptors *Langmuir*, **2003**, 19, 1671-1680	4	105

155	Stimulation of epithelial cell growth by the neuropeptide substance P. *Journal of Cellular Biochemistry*, **1993**, 52, 476-85	4.7	101
154	Dexamethasone Stiffens Trabecular Meshwork, Trabecular Meshwork Cells, and Matrix **2015**, 56, 4447-59		96
153	Compliance profile of the human cornea as measured by atomic force microscopy. *Micron*, **2012**, 43, 1293-8	2.5	87
152	Biophysical cues and cell behavior: the big impact of little things. *Annual Review of Biomedical Engineering*, **2013**, 15, 155-76	12	85
151	Elastic modulus and collagen organization of the rabbit cornea: epithelium to endothelium. *Acta Biomaterialia*, **2014**, 10, 785-91	10.8	78
150	Sub-micron and nanoscale feature depth modulates alignment of stromal fibroblasts and corneal epithelial cells in serum-rich and serum-free media. *Journal of Biomedical Materials Research - Part A* , **2008**, 86, 725-35	5.4	78
149	Nanoscale topography-induced modulation of fundamental cell behaviors of rabbit corneal keratocytes, fibroblasts, and myofibroblasts **2010**, 51, 1373-81		74
148	Integration of basal topographic cues and apical shear stress in vascular endothelial cells. *Biomaterials*, **2012**, 33, 4126-35	15.6	70
147	Role of substratum stiffness in modulating genes associated with extracellular matrix and mechanotransducers YAP and TAZ **2013**, 54, 378-86		69
146	Synergistic effect of substance P with epidermal growth factor on epithelial migration in rabbit cornea. *Experimental Eye Research*, **1997**, 65, 321-9	3.7	69
145	Characterizing nanoscale topography of the aortic heart valve basement membrane for tissue engineering heart valve scaffold design. *Tissue Engineering*, **2006**, 12, 413-21		69
144	Polymeric multilayers that localize the release of chlorhexidine from biologic wound dressings. *Biomaterials*, **2012**, 33, 6783-92	15.6	62
143	The effect of biophysical attributes of the ocular trabecular meshwork associated with glaucoma on the cell response to therapeutic agents. *Biomaterials*, **2011**, 32, 2417-23	15.6	62
142	Alterations in gene expression of human vascular endothelial cells associated with nanotopographic cues. *Biomaterials*, **2010**, 31, 8882-8	15.6	61
141	The pharmacologic assessment of a novel lymphocyte function-associated antigen-1 antagonist (SAR 1118) for the treatment of keratoconjunctivitis sicca in dogs **2011**, 52, 3174-80		60
140	Characterizing the effects of heparin gel stiffness on function of primary hepatocytes. *Tissue Engineering - Part A*, **2013**, 19, 2655-63	3.9	59
139	The applications of atomic force microscopy to vision science **2010**, 51, 6083-94		59
138	Ultrastructural basement membrane topography of the bladder epithelium. *Urological Research*, **2003**, 31, 341-6		59

137	Adhesion and proliferation of corneal epithelial cells on self-assembled monolayers. *Journal of Biomedical Materials Research Part B*, **2000**, 52, 261-9		59
136	KCNJ15/Kir4.2 couples with polyamines to sense weak extracellular electric fields in galvanotaxis. *Nature Communications*, **2015**, 6, 8532	17.4	56
135	Meet the corneal myofibroblast: the role of myofibroblast transformation in corneal wound healing and pathology. *Veterinary Ophthalmology*, **2009**, 12 Suppl 1, 25-7	1.4	56
134	The ability of corneal epithelial cells to recognize high aspect ratio nanostructures. *Biomaterials*, **2010**, 31, 4064-72	15.6	54
133	Electron microscopy of the canine corneal basement membranes. *Cells Tissues Organs*, **2002**, 170, 251-7	2.1	54
132	The origins of lactation and the evolution of milk: a review with new hypotheses. *Mammal Review*, **1989**, 19, 1-26	5	54
131	Cell behavior on lithographically defined nanostructured substrates. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2003**, 21, 683		52
130	Substratum stiffness and latrunculin B modulate the gene expression of the mechanotransducers YAP and TAZ in human trabecular meshwork cells. *Experimental Eye Research*, **2013**, 113, 66-73	3.7	50
129	Tryptophan inhibits biofilm formation by Pseudomonas aeruginosa. *Antimicrobial Agents and Chemotherapy*, **2013**, 57, 1921-5	5.9	50
128	Tissue and cellular biomechanics during corneal wound injury and repair. *Acta Biomaterialia*, **2017**, 58, 291-301	10.8	49
127	Polymeric Multilayers that contain Silver Nanoparticles can be Stamped onto Biological Tissues to Provide Antibacterial Activity. *Advanced Functional Materials*, **2011**, 21, 1863-1873	15.6	49
126	The role of hepatocyte growth factor in corneal wound healing. *Experimental Eye Research*, **2018**, 166, 49-55	3.7	48
125	Substratum topography modulates corneal fibroblast to myofibroblast transformation **2012**, 53, 811-6		48
124	The role of substratum compliance of hydrogels on vascular endothelial cell behavior. *Biomaterials*, **2011**, 32, 5056-64	15.6	47
123	Nano- and microscale holes modulate cell-substrate adhesion, cytoskeletal organization, and -beta1 integrin localization in SV40 human corneal epithelial cells. *IEEE Transactions on Nanobioscience*, **2006**, 5, 273-80	3.4	46
122	A nonhuman primate model of inherited retinal disease. *Journal of Clinical Investigation*, **2019**, 129, 863-874	15.9	46
121	What do mechanotransduction, Hippo, Wnt, and TGF have in common? YAP and TAZ as key orchestrating molecules in ocular health and disease. *Experimental Eye Research*, **2013**, 115, 1-12	3.7	44
120	Topographic modulation of the orientation and shape of cell nuclei and their influence on the measured elastic modulus of epithelial cells. *Biophysical Journal*, **2011**, 101, 2139-46	2.9	44

119	The effect of elevated extracellular glucose on migration, adhesion and proliferation of SV40 transformed human corneal epithelial cells. *Current Eye Research*, **1998**, 17, 924-32	2.9	43
118	Automated AFM force curve analysis for determining elastic modulus of biomaterials and biological samples. *Journal of the Mechanical Behavior of Biomedical Materials*, **2014**, 37, 209-18	4.1	42
117	Interfacial phenomena and the ocular surface. *Ocular Surface*, **2014**, 12, 178-201	6.5	42
116	Periocular and intra-articular injection of canine adipose-derived mesenchymal stem cells: an in vivo imaging and migration study. *Journal of Ocular Pharmacology and Therapeutics*, **2012**, 28, 307-17	2.6	42
115	Wnt inhibition induces persistent increases in intrinsic stiffness of human trabecular meshwork cells. *Experimental Eye Research*, **2015**, 132, 174-8	3.7	41
114	Hydrogels with well-defined peptide-hydrogel spacing and concentration: impact on epithelial cell behavior(). *Soft Matter*, **2012**, 8, 390-398	3.6	41
113	Substratum stiffness and latrunculin B regulate matrix gene and protein expression in human trabecular meshwork cells **2012**, 53, 952-8		41
112	Biophysical Cueing and Vascular Endothelial Cell Behavior. *Materials*, **2010**, 3, 1620-1639	3.5	39
111	The intrinsic stiffness of human trabecular meshwork cells increases with senescence. *Oncotarget*, **2015**, 6, 15362-74	3.3	39
110	Refractive state, ocular anatomy, and accommodative range of the sea otter (Enhydra lutris). *Vision Research*, **1990**, 30, 23-32	2.1	37
109	Response of human trabecular meshwork cells to topographic cues on the nanoscale level. *Investigative Ophthalmology and Visual Science*, **2008**, 49, 629-35		36
108	Glaucomatous cell derived matrices differentially modulate non-glaucomatous trabecular meshwork cellular behavior. *Acta Biomaterialia*, **2018**, 71, 444-459	10.8	35
107	Safety and immunomodulatory effects of allogeneic canine adipose-derived mesenchymal stromal cells transplanted into the region of the lacrimal gland, the gland of the third eyelid and the knee joint. *Cytotherapy*, **2013**, 15, 1498-510	4.8	35
106	Non-toxic thermotropic liquid crystals for use with mammalian cells. *Liquid Crystals*, **2004**, 31, 611-621	2.3	35
105	Successful six-day kidney preservation using trophic factor supplemented media and simple cold storage. *American Journal of Transplantation*, **2002**, 2, 712-8	8.7	35
104	Antibacterial efficacy of silver-impregnated polyelectrolyte multilayers immobilized on a biological dressing in a murine wound infection model. *Annals of Surgery*, **2012**, 256, 371-7	7.8	33
103	Thermal cautery of the cornea for treatment of spontaneous chronic corneal epithelial defects in dogs and horses. *Journal of the American Veterinary Medical Association*, **2004**, 224, 250-3, 224	1	33
102	Nerve growth factor and corneal wound healing in dogs. *Experimental Eye Research*, **2005**, 80, 633-42	3.7	32

101	Substratum compliance modulates corneal fibroblast to myofibroblast transformation **2013**, 54, 5901-7		31
100	Human trabecular meshwork cells exhibit several characteristics of, but are distinct from, adipose-derived mesenchymal stem cells. *Journal of Ocular Pharmacology and Therapeutics*, **2014**, 30, 254-66	2.6	30
99	Structural organization of the cytoskeleton in SV40 human corneal epithelial cells cultured on nano- and microscale grooves. *Scanning*, **2008**, 30, 405-13	1.6	29
98	Involvement of YAP, TAZ and HSP90 in contact guidance and intercellular junction formation in corneal epithelial cells. *PLoS ONE*, **2014**, 9, e109811	3.7	28
97	The influence of substrate topography on the migration of corneal epithelial wound borders. *Biomaterials*, **2013**, 34, 9244-51	15.6	27
96	PDGF-BB does not accelerate healing in diabetic mice with splinted skin wounds. *PLoS ONE*, **2014**, 9, e104447	3.7	27
95	Substratum compliance regulates human trabecular meshwork cell behaviors and response to latrunculin B **2011**, 52, 9298-303		27
94	Biomechanical relationships between the corneal endothelium and Descemet's membrane. *Experimental Eye Research*, **2016**, 152, 57-70	3.7	26
93	Effect of Stratification on Surface Properties of Corneal Epithelial Cells **2015**, 56, 8340-8		26
92	The influence of a biologically relevant substratum topography on human aortic and umbilical vein endothelial cells. *Biophysical Journal*, **2012**, 102, 1224-33	2.9	26
91	The effect of chronic corneal epithelial debridement on epithelial and stromal morphology in dogs. *Investigative Ophthalmology and Visual Science*, **2002**, 43, 2136-42		26
90	Impact of Nanotopography, Heparin Hydrogel Microstructures, and Encapsulated Fibroblasts on Phenotype of Primary Hepatocytes. *ACS Applied Materials & Interfaces*, **2015**, 7, 12299-308	9.5	25
89	Early responses of vascular endothelial cells to topographic cues. *American Journal of Physiology - Cell Physiology*, **2013**, 305, C290-8	5.4	25
88	Compatibility of lyotropic liquid crystals with viruses and mammalian cells that support the replication of viruses. *Biomaterials*, **2005**, 26, 7173-82	15.6	25
87	Intravitreal Administration of Human Bone Marrow CD34+ Stem Cells in a Murine Model of Retinal Degeneration **2016**, 57, 4125-35		25
86	In Vivo Imaging of Corneal Endothelial Dystrophy in Boston Terriers: A Spontaneous, Canine Model for Fuchs' Endothelial Corneal Dystrophy **2016**, 57, OCT495-503		25
85	A Population Study of Common Ocular Abnormalities in C57BL/6N rd8 Mice **2018**, 59, 2252-2261		25
84	Anchoring a cytoactive factor in a wound bed promotes healing. *Journal of Tissue Engineering and Regenerative Medicine*, **2016**, 10, 1012-1020	4.4	24

83	Improved survival of orthotopic liver allograft in swine by addition of trophic factors to University of Wisconsin solution. *Transplantation*, **2004**, 77, 302-19	1.8	24
82	Corneal storage medium preservation with defensins. *Cornea*, **1992**, 11, 370-5	3.1	24
81	Refractive state, corneal curvature, accommodative range and ocular anatomy of the Asian elephant (Elephas maximus). *Vision Research*, **1992**, 32, 2013-21	2.1	24
80	Reduction in wound bioburden using a silver-loaded dissolvable microfilm construct. *Advanced Healthcare Materials*, **2014**, 3, 916-28	10.1	23
79	Influence of extracellular matrix proteins and substratum topography on corneal epithelial cell alignment and migration. *Tissue Engineering - Part A*, **2013**, 19, 1713-22	3.9	22
78	The use of native chemical functional groups presented by wound beds for the covalent attachment of polymeric microcarriers of bioactive factors. *Biomaterials*, **2013**, 34, 340-52	15.6	22
77	Expression of matrix metalloproteinase 2 and 9 in experimentally wounded canine corneas and spontaneous chronic corneal epithelial defects. *Cornea*, **2007**, 26, 1213-9	3.1	22
76	YAP and TAZ are distinct effectors of corneal myofibroblast transformation. *Experimental Eye Research*, **2019**, 180, 102-109	3.7	22
75	Robust and artifact-free mounting of tissue samples for atomic force microscopy. *BioTechniques*, **2014**, 56, 40-2	2.5	21
74	Altered stability of mRNAs associated with glaucoma progression in human trabecular meshwork cells following oxidative stress **2012**, 53, 1734-41		21
73	The modulation of canine mesenchymal stem cells by nano-topographic cues. *Experimental Cell Research*, **2012**, 318, 2438-45	4.2	20
72	Identification of genes required for eye development by high-throughput screening of mouse knockouts. *Communications Biology*, **2018**, 1, 236	6.7	20
71	Importance of defining experimental conditions in a mouse excisional wound model. *Wound Repair and Regeneration*, **2015**, 23, 251-61	3.6	19
70	Biosynthetic corneal substitute implantation in dogs. *Cornea*, **2010**, 29, 910-6	3.1	19
69	In vivo evaluation of the cornea and conjunctiva of the normal laboratory beagle using time- and Fourier-domain optical coherence tomography and ultrasound pachymetry. *Veterinary Ophthalmology*, **2016**, 19, 50-6	1.4	18
68	Nuclear and cellular alignment of primary corneal epithelial cells on topography. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 1069-79	5.4	18
67	Biomimetic stochastic topography and electric fields synergistically enhance directional migration of corneal epithelial cells in a MMP-3-dependent manner. *Acta Biomaterialia*, **2015**, 12, 102-112	10.8	17
66	Species Differences in the Geometry of the Anterior Segment Differentially Affect Anterior Chamber Cell Scoring Systems in Laboratory Animals. *Journal of Ocular Pharmacology and Therapeutics*, **2016**, 32, 28-37	2.6	17

65	Species variation and spatial differences in mucin expression from corneal epithelial cells. *Experimental Eye Research*, **2016**, 152, 43-48	3.7	17
64	A cell culture substrate with biologically relevant size-scale topography and compliance of the basement membrane. *Langmuir*, **2014**, 30, 2101-8	4	16
63	Transforming Growth Factor Beta 3 Modifies Mechanics and Composition of Extracellular Matrix Deposited by Human Trabecular Meshwork Cells. *ACS Biomaterials Science and Engineering*, **2015**, 1, 110-118	5.5	16
62	Assessment of tear film osmolarity using the TearLab osmometer in normal dogs and dogs with keratoconjunctivitis sicca. *Veterinary Ophthalmology*, **2017**, 20, 357-364	1.4	15
61	Inhibition of Pseudomonas aeruginosa biofilm formation on wound dressings. *Wound Repair and Regeneration*, **2015**, 23, 842-54	3.6	15
60	Phenotypic Characterization of Corneal Endothelial Dystrophy in German Shorthaired and Wirehaired Pointers Using In Vivo Advanced Corneal Imaging and Histopathology. *Cornea*, **2018**, 37, 88-94	3.1	15
59	Focal adhesion kinase knockdown modulates the response of human corneal epithelial cells to topographic cues. *Acta Biomaterialia*, **2012**, 8, 4285-94	10.8	14
58	Refractive state and accommodation in the eyes of free-swimming versus restrained juvenile lemon sharks (Negaprion brevirostris). *Vision Research*, **2001**, 41, 1885-9	2.1	14
57	Biomechanical, ultrastructural, and electrophysiological characterization of the non-human primate experimental glaucoma model. *Scientific Reports*, **2017**, 7, 14329	4.9	13
56	Cell sorting but not serum starvation is effective for SV40 human corneal epithelial cell cycle synchronization. *Experimental Eye Research*, **2006**, 83, 61-8	3.7	13
55	Spectacle Wound Healing in the Royal Python (Python regius). *Journal of Herpetological Medicine and Surgery*, **2010**, 20, 29	0.4	12
54	The effect of trophic factor supplementation on cold ischemia-induced early apoptotic changes. *Transplantation*, **2007**, 83, 91-4	1.8	12
53	Topical Rho-Associated Kinase Inhibitor, Y27632, Accelerates Corneal Endothelial Regeneration in a Canine Cryoinjury Model. *Cornea*, **2019**, 38, 352-359	3.1	12
52	Modulation of human corneal stromal cell differentiation by hepatocyte growth factor and substratum compliance. *Experimental Eye Research*, **2018**, 176, 235-242	3.7	12
51	Topical therapeutic agents that modulate corneal wound healing. *Veterinary Clinics of North America - Small Animal Practice*, **2004**, 34, 623-38	2.4	11
50	Comprehensive Clinical, Diagnostic, and Advanced Imaging Characterization of the Ocular Surface in Spontaneous Aqueous Deficient Dry Eye Disease in Dogs. *Cornea*, **2019**, 38, 1568-1575	3.1	11
49	Latrunculin B and substratum stiffness regulate corneal fibroblast to myofibroblast transformation. *Experimental Eye Research*, **2018**, 170, 101-107	3.7	10
48	Effect of substance P, insulin-like growth factor-1 and vasoactive intestinal polypeptide on corneal re-epithelialization in galactosemic rats. *Current Eye Research*, **1998**, 17, 1143-9	2.9	10

47	Engineered metal oxide nanomaterials inhibit corneal epithelial wound healing and. *NanoImpact*, **2020**, 17, 100198-100198	5.6	10
46	Gallium-Loaded Dissolvable Microfilm Constructs that Provide Sustained Release of Ga(3+) for Management of Biofilms. *Advanced Healthcare Materials*, **2015**, 4, 2849-59	10.1	9
45	The functional significance of crescent-shaped pupils and multiple pupillary apertures. *The Journal of Experimental Zoology*, **1990**, 256, 22-28		9
44	In vivo ocular imaging of the cornea of the normal female laboratory beagle using confocal microscopy. *Veterinary Ophthalmology*, **2016**, 19, 63-7	1.4	9
43	Clinical findings and normative ocular data for free-living Anna (Calypte anna) and Black-chinned (Archilochus alexandri) Hummingbirds. *Veterinary Ophthalmology*, **2019**, 22, 13-23	1.4	9
42	Blind free-living kiwi offer a unique window into the ecology and evolution of vertebrate vision. *BMC Biology*, **2017**, 15, 85	7.3	8
41	Epidermal growth factor-functionalized polymeric multilayer films: interplay between spatial location and bioavailability of EGF. *Journal of Investigative Dermatology*, **2014**, 134, 1757-1760	4.3	8
40	The formation of cortical actin arrays in human trabecular meshwork cells in response to cytoskeletal disruption. *Experimental Cell Research*, **2014**, 328, 164-171	4.2	8
39	Gross anatomy and morphometric evaluation of the canine lacrimal and third eyelid glands. *Veterinary Ophthalmology*, **2016**, 19, 230-6	1.4	8
38	Heat-shock protein expression in canine corneal wound healing. *Veterinary Ophthalmology*, **2016**, 19, 262-6	1.4	8
37	Biomechanical changes to Descemet membrane precede endothelial cell loss in an early-onset murine model of Fuchs endothelial corneal dystrophy. *Experimental Eye Research*, **2019**, 180, 18-22	3.7	8
36	Stromal Collagen Arrangement Correlates with Stiffness of the Canine Cornea. *Bioengineering*, **2019**, 7,	5.3	7
35	Lipoidal corneal degeneration in aged falcons. *Veterinary Ophthalmology*, **2018**, 21, 332-338	1.4	7
34	Prevention of cold ischemia/rewarming-induced ERK 1/2, p38 kinase and HO-1 activation by trophic factor supplementation of UW solution. *Cryobiology*, **2008**, 57, 72-4	2.7	7
33	Suppression of cold ischemic injury in stored kidneys by the antimicrobial peptide bactenecin. *Cryobiology*, **2004**, 49, 230-40	2.7	7
32	A novel herpesvirus associated with chronic superficial keratitis and proliferative conjunctivitis in a great horned owl (Bubo virginianus). *Veterinary Ophthalmology*, **2019**, 22, 67-75	1.4	7
31	Trophic factor supplemented UW solution reduces intimal hyperplasia in the rat aortic transplant model. *Cryobiology*, **2007**, 54, 204-11	2.7	6
30	Arap1 Deficiency Causes Photoreceptor Degeneration in Mice **2017**, 58, 1709-1718		5

29	Integration of silver nanoparticle-impregnated polyelectrolyte multilayers into murine-splinted cutaneous wound beds. *Journal of Burn Care and Research*, **2013**, 34, e359-67	0.8	5
28	Thermally labile components of aqueous humor potently induce osteogenic potential in adipose-derived mesenchymal stem cells. *Experimental Eye Research*, **2015**, 135, 127-33	3.7	4
27	Ocular anatomy of the black pacu (Colossoma macropomum): gross, histologic, and diagnostic imaging. *Veterinary Ophthalmology*, **2018**, 21, 507-515	1.4	4
26	Whorl pattern keratopathies in veterinary and human patients. *Veterinary Ophthalmology*, **2018**, 21, 661-667	1.4	4
25	Interfacial Stacks of Polymeric Nanofilms on Soft Biological Surfaces that Release Multiple Agents. *ACS Applied Materials & Interfaces*, **2016**, 8, 26541-26551	9.5	4
24	Acremonium and trichosporon fungal keratoconjunctivitis in a Leopard Gecko (Eublepharis macularius). *Veterinary Ophthalmology*, **2019**, 22, 928-932	1.4	4
23	Ocular phenotypic consequences of a single copy deletion of the gene ( ) in mice. *Molecular Vision*, **2019**, 25, 129-142	2.3	4
22	Presumptive keratoglobus in a great horned owl (Bubo virginianus). *Veterinary Ophthalmology*, **2017**, 20, 560-567	1.4	3
21	Genetic analysis of optic nerve head coloboma in the Nova Scotia Duck Tolling Retriever identifies discordance with the NHEJ1 intronic deletion (collie eye anomaly mutation). *Veterinary Ophthalmology*, **2018**, 21, 144-150	1.4	3
20	Genome-wide screening of mouse knockouts reveals novel genes required for normal integumentary and oculocutaneous structure and function. *Scientific Reports*, **2019**, 9, 11211	4.9	3
19	Trophic Factor Supplementation Protects Kidney Tubule Cells from Cold Ischemic Injury and Decreases Free Radical Production during Rewarming. *Cell Preservation Technology*, **2007**, 5, 132-136		3
18	A new method to characterize chemically and topographically nanopatterned surfaces. *Journal of Biotechnology*, **2006**, 126, 196-204	3.7	3
17	Intrastromal Injection of Hyaluronidase Alters the Structural and Biomechanical Properties of the Corneal Stroma. *Translational Vision Science and Technology*, **2020**, 9, 21	3.3	2
16	Effects of 5% sodium chloride ophthalmic ointment on thickness and morphology of the normal canine cornea. *Veterinary Ophthalmology*, **2019**, 22, 229-237	1.4	2
15	Differential effects of Hsp90 inhibition on corneal cells in vitro and in vivo. *Experimental Eye Research*, **2021**, 202, 108362	3.7	2
14	Animal models of corneal endothelial dysfunction to facilitate development of novel therapies. *Annals of Translational Medicine*, **2021**, 9, 1271	3.2	2
13	Photopatternable and photoactive hydrogel for on-demand generation of hydrogen peroxide in cell culture. *Biomaterials*, **2014**, 35, 1762-70	15.6	1
12	Cellular Behavior on Basement Membrane Inspired Topographically Patterned Synthetic Matrices297-319		1

11	Standardized Scoring of Ocular Findings in the Context of Drug and Device Development Programs **2018**, 169-205		1
10	PRESUMED PHOTORECEPTOR DYSPLASIAS IN PEREGRINE FALCONS (FALCO PEREGRINUS) AND PEREGRINE FALCON HYBRIDS. *Journal of Wildlife Diseases*, **2019**, 55, 325-334	1.3	1
9	Comparison of automated vs manual analysis of corneal endothelial cell density and morphology in normal and corneal endothelial dystrophy-affected dogs. *Veterinary Ophthalmology*, **2020**, 23, 44-51	1.4	1
8	Retinal degeneration in mice and humans with neuronal ceroid lipofuscinosis type 8. *Annals of Translational Medicine*, **2021**, 9, 1274	3.2	1
7	Transcorneal delivery of topically applied silver nanoparticles does not delay epithelial wound healing.. *NanoImpact*, **2021**, 24, 100352	5.6	1
6	Metal Oxide Engineered Nanomaterials Modulate Rabbit Corneal Fibroblast to Myofibroblast Transformation. *Translational Vision Science and Technology*, **2021**, 10, 23	3.3	0
5	Changing the Wound: Covalent Immobilization of the Epidermal Growth Factor. *ACS Biomaterials Science and Engineering*, **2021**, 7, 2649-2660	5.5	0
4	Effect of Withdrawing Chronic Topical Immune Modulating Treatment on Schirmer Tear Test Values in Dogs with Dry Eye Disease: Relevance to Dry Eye Studies. *Journal of Ocular Pharmacology and Therapeutics*, **2021**, 37, 394-398	2.6	0
3	Characterizing Nanoscale Topography of the Aortic Heart Valve Basement Membrane for Tissue Engineering Heart Valve Scaffold Design. *Tissue Engineering*, **2006**, 060224115912001		
2	LIQUID NITROGEN CRYOSURGERY FOR CUTANEOUS AND OCULAR NEOPLASMS IN KOI () AND GOLDFISH (): EIGHT CASES (2018-2019). *Journal of Zoo and Wildlife Medicine*, **2021**, 52, 763-773	0.9	
1	Multimodal ocular imaging of known and novel corneal stromal disorders in dogs.. *BMC Veterinary Research*, **2022**, 18, 117	2.7	