Christopher J Murphy

List of Publications by Year
in descending order

173 papers	9,656 citations	43973 48 h-index	49773 87 g-index
174 all docs	174 docs citations	174 times ranked	11605 citing authors

#	Article	IF	Citations
1	Epithelial contact guidance on well-defined micro- and nanostructured substrates. Journal of Cell Science, 2003, 116, 1881-1892.	1.2	902
2	Indentation Versus Tensile Measurements of Young's Modulus for Soft Biological Tissues. Tissue Engineering - Part B: Reviews, 2011, 17, 155-164.	2.5	533
3	Elastic Modulus Determination of Normal and Glaucomatous Human Trabecular Meshwork. , 2011, 52, 2147.		314
4	Biological length scale topography enhances cell-substratum adhesion of human corneal epithelial cells. Journal of Cell Science, 2004, 117, 3153-3164.	1.2	284
5	The effect of environmental factors on the response of human corneal epithelial cells to nanoscale substrate topography. Biomaterials, 2006, 27, 3945-3954.	5.7	243
6	Surfaces modified with nanometer-thick silver-impregnated polymeric films that kill bacteria but support growth of mammalian cells. Biomaterials, 2010, 31, 680-690.	5.7	233
7	The elastic modulus of Matrigelâ„¢ as determined by atomic force microscopy. Journal of Structural Biology, 2009, 167, 216-219.	1.3	222
8	Responses of human keratocytes to micro- and nanostructured substrates. Journal of Biomedical Materials Research Part B, 2004, 71A, 369-376.	3.0	218
9	Modulation of osteogenic differentiation in hMSCs cells by submicron topographically-patterned ridges and grooves. Biomaterials, 2012, 33, 128-136.	5.7	203
10	Modulation of human vascular endothelial cell behaviors by nanotopographic cues. Biomaterials, 2010, 31, 5418-5426.	5.7	185
11	Defensins are mitogenic for epithelial cells and fibroblasts. Journal of Cellular Physiology, 1993, 155, 408-413.	2.0	179
12	Determining the mechanical properties of human corneal basement membranes with atomic force microscopy. Journal of Structural Biology, 2009, 167, 19-24.	1.3	179
13	Synergistic effects of substance P with insulin-like growth factor-1 on epithelial migration of the cornea. Journal of Cellular Physiology, 1996, 169, 159-166.	2.0	162
14	Biophysical Cues and Cell Behavior: The Big Impact of Little Things. Annual Review of Biomedical Engineering, 2013, 15, 155-176.	5.7	145
15	Companion animals: Translational scientistâ€™s new best friends. Science Translational Medicine, 2015, 7, 308ps21.	5.8	145
16	Characterization of Endothelial Basement Membrane Nanotopography in Rhesus Macaque as a Guide for Vessel Tissue Engineering. Tissue Engineering - Part A, 2009, 15, 2643-2651.	1.6	142
17	Cooperative modulation of neuritogenesis by PC12 cells by topography and nerve growth factor. Biomaterials, 2005, 26, 3639-3644.	5.7	140
18	Dexamethasone Stiffens Trabecular Meshwork, Trabecular Meshwork Cells, and Matrix. , 2015, 56, 4447.		132

#	Article	IF	Citations
19	Compliance profile of the human cornea as measured by atomic force microscopy. Micron, 2012, 43, 1293-1298.	1.1	123
20	Stimulation of epithelial cell growth by the neuropeptide substance P. Journal of Cellular Biochemistry, 1993, 52, 476-485.	1.2	117
21	Using Liquid Crystals to Amplify Proteinâ'Receptor Interactions:Â Design of Surfaces with Nanometer-Scale Topography that Present Histidine-Tagged Protein Receptorsâ€. Langmuir, 2003, 19, 1671-1680.	1.6	111
22	Elastic modulus and collagen organization of the rabbit cornea: Epithelium to endothelium. Acta Biomaterialia, 2014, 10, 785-791.	4.1	96
23	Role of Substratum Stiffness in Modulating Genes Associated with Extracellular Matrix and Mechanotransducers YAP and TAZ. , 2013, 54, 378.		92
24	Nanoscale Topographyâ€"Induced Modulation of Fundamental Cell Behaviors of Rabbit Corneal Keratocytes, Fibroblasts, and Myofibroblasts. , 2010, 51, 1373.		90
25	Subâ€micron and nanoscale feature depth modulates alignment of stromal fibroblasts and corneal epithelial cells in serumâ€rich and serumâ€free media. Journal of Biomedical Materials Research - Part A, 2008, 86A, 725-735.	2.1	89
26	KCNJ15/Kir4.2 couples with polyamines to sense weak extracellular electric fields in galvanotaxis. Nature Communications, 2015, 6, 8532.	5.8	83
27	Integration of basal topographic cues and apical shear stress in vascular endothelial cells. Biomaterials, 2012, 33, 4126-4135.	5.7	79
28	The Applications of Atomic Force Microscopy to Vision Science. , 2010, 51, 6083.		78
29	A nonhuman primate model of inherited retinal disease. Journal of Clinical Investigation, 2019, 129, 863-874.	3.9	78
30	Synergistic Effect of Substance P with Epidermal Growth Factor on Epithelial Migration in Rabbit Cornea. Experimental Eye Research, 1997, 65, 321-329.	1.2	75
31	Characterizing the Effects of Heparin Gel Stiffness on Function of Primary Hepatocytes. Tissue Engineering - Part A, 2013, 19, 2655-2663.	1.6	74
32	Characterizing Nanoscale Topography of the Aortic Heart Valve Basement Membrane for Tissue Engineering Heart Valve Scaffold Design. Tissue Engineering, 2006, 12, 413-421.	4.9	73
33	The effect of biophysical attributes of the ocular trabecular meshwork associated with glaucoma on the cell response to therapeutic agents. Biomaterials, 2011, 32, 2417-2423.	5.7	73
34	Polymeric multilayers that localize the release of chlorhexidine from biologic wound dressings. Biomaterials, 2012, 33, 6783-6792.	5.7	73
35	Tissue and cellular biomechanics during corneal wound injury and repair. Acta Biomaterialia, 2017, 58, 291-301.	4.1	71
36	The origins of lactation and the evolution of milk: a review with new hypotheses. Mammal Review, 1989, 19, 1-26.	2.2	69

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37	Meet the corneal myofibroblast: the role of myofibroblast transformation in corneal wound healing and pathology. Veterinary Ophthalmology, 2009, 12, 25-27.	0.6	69
38	The Pharmacologic Assessment of A Novel Lymphocyte Function-Associated Antigen-1 Antagonist (SAR) Tj ETQq0 0 0 rgBT /Overlock 10		69
39	Substratum Topography Modulates Corneal Fibroblast to Myofibroblast Transformation. , 2012, 53, 811.		69
40	Electron Microscopy of the Canine Corneal Basement Membranes. Cells Tissues Organs, 2002, 170, 251-257.	1.3	68
41	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.	1.2	67
42	Alterations in gene expression of human vascular endothelial cells associated with nanotopographic cues. Biomaterials, 2010, 31, 8882-8888.	5.7	66
43	Tryptophan Inhibits Biofilm Formation by Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2013, 57, 1921-1925.	1.4	66
44	The role of hepatocyte growth factor in corneal wound healing. Experimental Eye Research, 2018, 166, 49-55.	1.2	65
45	Ultrastructural basement membrane topography of the bladder epithelium. Urological Research, 2003, 31, 341-346.	1.5	64
46	Adhesion and proliferation of corneal epithelial cells on self-assembled monolayers. Journal of Biomedical Materials Research Part B, 2000, 52, 261-269.	3.0	63
47	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.	1.6	57
48	The ability of corneal epithelial cells to recognize high aspect ratio nanostructures. Biomaterials, 2010, 31, 4064-4072.	5.7	56
49	What do mechanotransduction, Hippo, Wnt, and TGFÎ² have in common? YAP and TAZ as key orchestrating molecules in ocular health and disease. Experimental Eye Research, 2013, 115, 1-12.	1.2	54
50	Automated AFM force curve analysis for determining elastic modulus of biomaterials and biological samples. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 37, 209-218.	1.5	54
51	The intrinsic stiffness of human trabecular meshwork cells increases with senescence. Oncotarget, 2015, 6, 15362-15374.	0.8	54
52	Polymeric Multilayers that Contain Silver Nanoparticles can be Stamped onto Biological Tissues to Provide Antibacterial Activity. Advanced Functional Materials, 2011, 21, 1863-1873.	7.8	53
53	Interfacial Phenomena and the Ocular Surface. Ocular Surface, 2014, 12, 178-201.	2.2	53
54	The role of substratum compliance of hydrogels on vascular endothelial cell behavior. Biomaterials, 2011, 32, 5056-5064.	5.7	52

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55	Glaucomatous cell derived matrices differentially modulate non-glaucomatous trabecular meshwork cellular behavior. Acta Biomaterialia, 2018, 71, 444-459.	4.1	51
56	Nano- and Microscale Holes Modulate Cell-Substrate Adhesion, Cytoskeletal Organization, and $-eta 1$ Integrin Localization in Sv40 Human Corneal Epithelial Cells. IEEE Transactions on Nanobioscience, 2006, 5, 273-280.	2.2	49
57	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, 307-317.	0.6	49
58	Non-toxic thermotropic liquid crystals for use with mammalian cells. Liquid Crystals, 2004, 31, 611-621.	0.9	48
59	Biophysical Cueing and Vascular Endothelial Cell Behavior. Materials, 2010, 3, 1620-1639.	1.3	47
60	The effect of elevated extracellular glucose on migration, adhesion and proliferation of SV40 transformed human corneal epithelial cells. Current Eye Research, 1998, 17, 924-932.	0.7	46
61	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, 2139-2146.	0.2	46
62	Substratum Compliance Modulates Corneal Fibroblast to Myofibroblast Transformation. , 2013, 54, 5901.		46
63	Wnt inhibition induces persistent increases in intrinsic stiffness of human trabecular meshwork cells. Experimental Eye Research, 2015, 132, 174-178.	1.2	46
64	Hydrogels with well-defined peptide-hydrogel spacing and concentration: impact on epithelial cell behavior. Soft Matter, 2012, 8, 390-398.	1.2	45
65	Substratum Stiffness and Latrunculin B Regulate Matrix Gene and Protein Expression in Human Trabecular Meshwork Cells. , 2012, 53, 952.		44
66	Anchoring a cytoactive factor in a wound bed promotes healing. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, 1012-1020.	1.3	44
67	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, 1498-1510.	0.3	42
68	Refractive state, ocular anatomy, and accommodative range of the sea otter (Enhydra lutris). Vision Research, 1990, 30, 23-32.	0.7	41
69	Successful Six-Day Kidney Preservation Using Trophic Factor Supplemented Media and Simple Cold Storage. American Journal of Transplantation, 2002, 2, 712-718.	2.6	40
70	PDGF-BB Does Not Accelerate Healing in Diabetic Mice with Splinted Skin Wounds. PLoS ONE, 2014, 9, e104447.	1.1	39
71	Response of Human Trabecular Meshwork Cells to Topographic Cues on the Nanoscale Level. , 2008, 49, 629.		38
72	Antibacterial Efficacy of Silver-Impregnated Polyelectrolyte Multilayers Immobilized on a Biological Dressing in a Murine Wound Infection Model. Annals of Surgery, 2012, 256, 371-377.	2.1	38

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73	Biomechanical relationships between the corneal endothelium and Descemet's membrane. Experimental Eye Research, 2016, 152, 57-70.	1.2	38
74	Identification of genes required for eye development by high-throughput screening of mouse knockouts. Communications Biology, 2018, 1, 236.	2.0	37
75	Involvement of YAP, TAZ and HSP90 in Contact Guidance and Intercellular Junction Formation in Corneal Epithelial Cells. PLoS ONE, 2014, 9, e109811.	1.1	37
76	Nerve growth factor and corneal wound healing in dogs. Experimental Eye Research, 2005, 80, 633-642.	1.2	36
77	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, 250-253.	0.2	35
78	Intravitreal Administration of Human Bone Marrow CD34+ Stem Cells in a Murine Model of Retinal Degeneration. , 2016, 57, 4125.		34
79	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, 254-266.	0.6	33
80	Early responses of vascular endothelial cells to topographic cues. American Journal of Physiology - Cell Physiology, 2013, 305, C290-C298.	2.1	32
81	Structural organization of the cytoskeleton in SV40 human corneal epithelial cells cultured on nanoâ€• and microscale grooves. Scanning, 2008, 30, 405-413.	0.7	31
82	Effect of Stratification on Surface Properties of Corneal Epithelial Cells. , 2015, 56, 8340.		31
83	In Vivo Imaging of Corneal Endothelial Dystrophy in Boston Terriers: A Spontaneous, Canine Model for Fuchs' Endothelial Corneal Dystrophy. , 2016, 57, OCT495.		31
84	A Population Study of Common Ocular Abnormalities in C57BL/6Nrd8Mice. , 2018, 59, 2252.		31
85	YAP and TAZ are distinct effectors of corneal myofibroblast transformation. Experimental Eye Research, 2019, 180, 102-109.	1.2	31
86	The influence of substrate topography on the migration of corneal epithelial wound borders. Biomaterials, 2013, 34, 9244-9251.	5.7	30
87	Refractive state, corneal curvature, accommodative range and ocular anatomy of the Asian elephant (Elephas maximus). Vision Research, 1992, 32, 2013-2021.	0.7	29
88	Improved survival of orthotopic liver allograft in swine by addition of trophic factors to University of Wisconsin solution. Transplantation, 2004, 77, 302-304.	0.5	29
89	Substratum Compliance Regulates Human Trabecular Meshwork Cell Behaviors and Response to Latrunculin B. , 2011, 52, 9298.		29
90	Reduction in Wound Bioburden using a Silverâ€Loaded Dissolvable Microfilm Construct. Advanced Healthcare Materials, 2014, 3, 916-928.	3.9	29

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91	Impact of Nanotopography, Heparin Hydrogel Microstructures, and Encapsulated Fibroblasts on Phenotype of Primary Hepatocytes. ACS Applied Materials & Interfaces, 2015, 7, 12299-12308.	4.0	29
92	Compatibility of lyotropic liquid crystals with viruses and mammalian cells that support the replication of viruses. Biomaterials, 2005, 26, 7173-7182.	5.7	28
93	The Influence of a Biologically Relevant Substratum Topography onÂHuman Aortic and Umbilical Vein Endothelial Cells. Biophysical Journal, 2012, 102, 1224-1233.	0.2	28
94	Robust and artifact-free mounting of tissue samples for atomic force microscopy. BioTechniques, 2014, 56, 40-42.	0.8	27
95	The effect of chronic corneal epithelial debridement on epithelial and stromal morphology in dogs. Investigative Ophthalmology and Visual Science, 2002, 43, 2136-42.	3.3	27
96	Corneal Storage Medium Preservation with Defensins. Cornea, 1992, 11, 370-375.	0.9	26
97	Importance of defining experimental conditions in a mouse excisional wound model. Wound Repair and Regeneration, 2015, 23, 251-261.	1.5	26
98	Assessment of tear film osmolarity using the TearLab^{â„¢} osmometer in normal dogs and dogs with keratoconjunctivitis sicca. Veterinary Ophthalmology, 2017, 20, 357-364.	0.6	26
99	The use of native chemical functional groups presented by wound beds for the covalent attachment of polymeric microcarriers of bioactive factors. Biomaterials, 2013, 34, 340-352.	5.7	25
100	Influence of Extracellular Matrix Proteins and Substratum Topography on Corneal Epithelial Cell Alignment and Migration. Tissue Engineering - Part A, 2013, 19, 1713-1722.	1.6	24
101	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.	0.6	24
102	Expression of Matrix Metalloproteinase 2 and 9 in Experimentally Wounded Canine Corneas and Spontaneous Chronic Corneal Epithelial Defects. Cornea, 2007, 26, 1213-1219.	0.9	23
103	Altered Stability of mRNAs Associated with Glaucoma Progression in Human Trabecular Meshwork Cells Following Oxidative Stress. , 2012, 53, 1734.		23
104	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.	2.6	23
105	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.	4.1	23
106	Species variation and spatial differences in mucin expression from corneal epithelial cells. Experimental Eye Research, 2016, 152, 43-48.	1.2	23
107	In vivo evaluation of the cornea and conjunctiva of the normal laboratory beagle using timeâ€• and Fourierâ€domain optical coherence tomography and ultrasound pachymetry. Veterinary Ophthalmology, 2016, 19, 50-56.	0.6	23
108	The modulation of canine mesenchymal stem cells by nano-topographic cues. Experimental Cell Research, 2012, 318, 2438-2445.	1.2	22

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109	Nuclear and cellular alignment of primary corneal epithelial cells on topography. Journal of Biomedical Materials Research - Part A, 2013, 101A, 1069-1079.	2.1	22
110	Modulation of human corneal stromal cell differentiation by hepatocyte growth factor and substratum compliance. Experimental Eye Research, 2018, 176, 235-242.	1.2	22
111	Topical Rho-Associated Kinase Inhibitor, Y27632, Accelerates Corneal Endothelial Regeneration in a Canine Cryoinjury Model. Cornea, 2019, 38, 352-359.	0.9	22
112	Inhibition of Pseudomonas aeruginosa biofilm formation on wound dressings. Wound Repair and Regeneration, 2015, 23, 842-854.	1.5	21
113	Biosynthetic Corneal Substitute Implantation in Dogs. Cornea, 2010, 29, 910-916.	0.9	20
114	A Cell Culture Substrate with Biologically Relevant Size-Scale Topography and Compliance of the Basement Membrane. Langmuir, 2014, 30, 2101-2108.	1.6	19
115	Latrunculin B and substratum stiffness regulate corneal fibroblast to myofibroblast transformation. Experimental Eye Research, 2018, 170, 101-107.	1.2	19
116	Biomechanical changes to Descemet's membrane precede endothelial cell loss in an early-onset murine model of Fuchs endothelial corneal dystrophy. Experimental Eye Research, 2019, 180, 18-22.	1.2	19
117	Focal adhesion kinase knockdown modulates the response of human corneal epithelial cells to topographic cues. Acta Biomaterialia, 2012, 8, 4285-4294.	4.1	18
118	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.	0.9	18
119	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.	0.9	18
120	Cell sorting but not serum starvation is effective for SV40 human corneal epithelial cell cycle synchronization. Experimental Eye Research, 2006, 83, 61-68.	1.2	17
121	Refractive state and accommodation in the eyes of free-swimming versus restrained juvenile lemon sharks (Negaprion brevirostris). Vision Research, 2001, 41, 1885-1889.	0.7	16
122	Biomechanical, ultrastructural, and electrophysiological characterization of the non-human primate experimental glaucoma model. Scientific Reports, 2017, 7, 14329.	1.6	16
123	Animal models of corneal endothelial dysfunction to facilitate development of novel therapies. Annals of Translational Medicine, 2021, 9, 1271-1271.	0.7	16
124	Spectacle Wound Healing in the Royal Python (Python regius). Journal of Herpetological Medicine and Surgery, 2010, 20, 29.	0.2	15
125	Heatâ€shock protein expression in canine corneal wound healing. Veterinary Ophthalmology, 2016, 19, 262-266.	0.6	15
126	Engineered metal oxide nanomaterials inhibit corneal epithelial wound healing in vitro and in vivo. NanoImpact, 2020, 17, 100198.	2.4	14

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127	The functional significance of crescent-shaped pupils and multiple pupillary apertures. The Journal of Experimental Zoology, 1990, 256, 22-28.	1.4	13
128	The Effect of Trophic Factor Supplementation on Cold Ischemia-Induced Early Apoptotic Changes. Transplantation, 2007, 83, 91-94.	0.5	13
129	The formation of cortical actin arrays in human trabecular meshwork cells in response to cytoskeletal disruption. Experimental Cell Research, 2014, 328, 164-171.	1.2	12
130	In vivo ocular imaging of the cornea of the normal female laboratory beagle using confocal microscopy. Veterinary Ophthalmology, 2016, 19, 63-67.	0.6	12
131	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, 1143-1149.	0.7	11
132	Topical therapeutic agents that modulate corneal wound healing. Veterinary Clinics of North America - Small Animal Practice, 2004, 34, 623-638.	0.5	11
133	Gross anatomy and morphometric evaluation of the canine lacrimal and third eyelid glands. Veterinary Ophthalmology, 2016, 19, 230-236.	0.6	11
134	Clinical findings and normative ocular data for freeâ€living Anna's (Calypte anna) and Blackâ€chinned (Archilochus alexandri) Hummingbirds. Veterinary Ophthalmology, 2019, 22, 13-23.	0.6	11
135	Integration of Silver Nanoparticle-impregnated Polyelectrolyte Multilayers Into Murine-Splinted Cutaneous Wound Beds. Journal of Burn Care and Research, 2013, 34, e359-e367.	0.2	10
136	Galliumâ€Loaded Dissolvable Microfilm Constructs that Provide Sustained Release of Ga³⁺ for Management of Biofilms. Advanced Healthcare Materials, 2015, 4, 2849-2859.	3.9	10
137	Arap1 Deficiency Causes Photoreceptor Degeneration in Mice. , 2017, 58, 1709.		10
138	Ocular phenotypic consequences of a single copy deletion of the gene ( ) in mice. Molecular Vision, 2019, 25, 129-142.	1.1	10
139	A novel herpesvirus associated with chronic superficial keratitis and proliferative conjunctivitis in a great horned owl (Bubo virginianus). Veterinary Ophthalmology, 2019, 22, 67-75.	0.6	9
140	Stromal Collagen Arrangement Correlates with Stiffness of the Canine Cornea. Bioengineering, 2020, 7, 4.	1.6	9
141	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, 72-74.	0.3	8
142	Epidermal Growth Factorâ€"Functionalized Polymeric Multilayer Films: Interplay between Spatial Location and Bioavailability of EGF. Journal of Investigative Dermatology, 2014, 134, 1757-1760.	0.3	8
143	Blind free-living kiwi offer a unique window into the ecology and evolution of vertebrate vision. BMC Biology, 2017, 15, 85.	1.7	8
144	Lipoidal corneal degeneration in aged falcons. Veterinary Ophthalmology, 2018, 21, 332-338.	0.6	8

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145	Suppression of cold ischemic injury in stored kidneys by the antimicrobial peptide bactenecin. Cryobiology, 2004, 49, 230-240.	0.3	7
146	Ocular anatomy of the black pacu (Colossoma macropomum): gross, histologic, and diagnostic imaging. Veterinary Ophthalmology, 2018, 21, 507-515.	0.6	7
147	Whorl pattern keratopathies in veterinary and human patients. Veterinary Ophthalmology, 2018, 21, 661-667.	0.6	7
148	Genetic analysis of optic nerve head coloboma in the Nova Scotia Duck Tolling Retriever identifies discordance with the <scp>NHEJ</scp>1 intronic deletion (collie eye anomaly mutation). Veterinary Ophthalmology, 2018, 21, 144-150.	0.6	7
149	Effects of 5% sodium chloride ophthalmic ointment on thickness and morphology of the normal canine cornea. Veterinary Ophthalmology, 2019, 22, 229-237.	0.6	7
150	Transcorneal delivery of topically applied silver nanoparticles does not delay epithelial wound healing. NanoImpact, 2021, 24, 100352.	2.4	7
151	Trophic factor supplemented UW solution reduces intimal hyperplasia in the rat aortic transplant model. Cryobiology, 2007, 54, 204-211.	0.3	6
152	Genome-wide screening of mouse knockouts reveals novel genes required for normal integumentary and oculocutaneous structure and function. Scientific Reports, 2019, 9, 11211.	1.6	6
153	Thermally labile components of aqueous humor potently induce osteogenic potential in adipose-derived mesenchymal stem cells. Experimental Eye Research, 2015, 135, 127-133.	1.2	5
154	Interfacial Stacks of Polymeric Nanofilms on Soft Biological Surfaces that Release Multiple Agents. ACS Applied Materials & Interfaces, 2016, 8, 26541-26551.	4.0	5
155	Acremonium and trichosporon fungal keratoconjunctivitis in a Leopard Gecko (Eublepharis) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.6	5
156	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.	0.8	4
157	Intrastromal Injection of Hyaluronidase Alters the Structural and Biomechanical Properties of the Corneal Stroma. Translational Vision Science and Technology, 2020, 9, 21.	1.1	4
158	Differential effects of Hsp90 inhibition on corneal cells in vitro and in vivo. Experimental Eye Research, 2021, 202, 108362.	1.2	4
159	A new method to characterize chemically and topographically nanopatterned surfaces. Journal of Biotechnology, 2006, 126, 196-204.	1.9	3
160	Photopatternable and photoactive hydrogel for on-demand generation of hydrogen peroxide in cell culture. Biomaterials, 2014, 35, 1762-1770.	5.7	3
161	Presumptive keratoglobus in a great horned owl (Bubo virginianus). Veterinary Ophthalmology, 2017, 20, 560-567.	0.6	3
162	Comparison of automated vs manual analysis of corneal endothelial cell density and morphology in normal and corneal endothelial dystrophyâ€affected dogs. Veterinary Ophthalmology, 2020, 23, 44-51.	0.6	3

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163	Metal Oxide Engineered Nanomaterials Modulate Rabbit Corneal Fibroblast to Myofibroblast Transformation. Translational Vision Science and Technology, 2021, 10, 23.	1.1	3
164	Cellular Behavior on Basement Membrane Inspired Topographically Patterned Synthetic Matrices. , 0, , 297-319.		2
165	Changing the Wound: Covalent Immobilization of the Epidermal Growth Factor. ACS Biomaterials Science and Engineering, 2021, 7, 2649-2660.	2.6	2
166	Retinal degeneration in mice and humans with neuronal ceroid lipofuscinosis type 8. Annals of Translational Medicine, 2021, 9, 1274-1274.	0.7	2
167	PRESUMED PHOTORECEPTOR DYSPLASIAS IN PEREGRINE FALCONS (FALCO PEREGRINUS) AND PEREGRINE FALCON HYBRIDS. Journal of Wildlife Diseases, 2019, 55, 325.	0.3	1
168	LIQUID NITROGEN CRYOSURGERY FOR CUTANEOUS AND OCULAR NEOPLASMS IN KOI (CYPRINUS CARPIO) AND GOLDFISH (CARASSIUS AURATUS): EIGHT CASES (2018â€“2019). Journal of Zoo and Wildlife Medicine, 2021, 52, 763-773.	0.3	1
169	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.	0.6	1
170	Standardized Scoring of Ocular Findings in the Context of Drug and Device Development Programs. , 2018, , 169-205.		1
171	Multimodal ocular imaging of known and novel corneal stromal disorders in dogs. BMC Veterinary Research, 2022, 18, 117.	0.7	1
172	Arap1 loss causes retinal pigment epithelium phagocytic dysfunction and subsequent photoreceptor death. DMM Disease Models and Mechanisms, 0, , .	1.2	1
173	Characterizing Nanoscale Topography of the Aortic Heart Valve Basement Membrane for Tissue Engineering Heart Valve Scaffold Design. Tissue Engineering, 2006, .	4.9	0