

Christopher J Murphy

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10601628/publications.pdf>

Version: 2024-02-01

173
papers

9,656
citations

44066

48
h-index

49904

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. <i>Journal of Cell Science</i> , 2003, 116, 1881-1892.	2.0	902
2	Indentation Versus Tensile Measurements of Young's Modulus for Soft Biological Tissues. <i>Tissue Engineering - Part B: Reviews</i> , 2011, 17, 155-164.	4.8	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. <i>Journal of Cell Science</i> , 2004, 117, 3153-3164.	2.0	284
5	The effect of environmental factors on the response of human corneal epithelial cells to nanoscale substrate topography. <i>Biomaterials</i> , 2006, 27, 3945-3954.	11.4	243
6	Surfaces modified with nanometer-thick silver-impregnated polymeric films that kill bacteria but support growth of mammalian cells. <i>Biomaterials</i> , 2010, 31, 680-690.	11.4	233
7	The elastic modulus of Matrigel [®] as determined by atomic force microscopy. <i>Journal of Structural Biology</i> , 2009, 167, 216-219.	2.8	222
8	Responses of human keratocytes to micro- and nanostructured substrates. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 71A, 369-376.	3.1	218
9	Modulation of osteogenic differentiation in hMSCs cells by submicron topographically-patterned ridges and grooves. <i>Biomaterials</i> , 2012, 33, 128-136.	11.4	203
10	Modulation of human vascular endothelial cell behaviors by nanotopographic cues. <i>Biomaterials</i> , 2010, 31, 5418-5426.	11.4	185
11	Defensins are mitogenic for epithelial cells and fibroblasts. <i>Journal of Cellular Physiology</i> , 1993, 155, 408-413.	4.1	179
12	Determining the mechanical properties of human corneal basement membranes with atomic force microscopy. <i>Journal of Structural Biology</i> , 2009, 167, 19-24.	2.8	179
13	Synergistic effects of substance P with insulin-like growth factor-1 on epithelial migration of the cornea. <i>Journal of Cellular Physiology</i> , 1996, 169, 159-166.	4.1	162
14	Biophysical Cues and Cell Behavior: The Big Impact of Little Things. <i>Annual Review of Biomedical Engineering</i> , 2013, 15, 155-176.	12.3	145
15	Companion animals: Translational scientist's new best friends. <i>Science Translational Medicine</i> , 2015, 7, 308ps21.	12.4	145
16	Characterization of Endothelial Basement Membrane Nanotopography in Rhesus Macaque as a Guide for Vessel Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2009, 15, 2643-2651.	3.1	142
17	Cooperative modulation of neuritogenesis by PC12 cells by topography and nerve growth factor. <i>Biomaterials</i> , 2005, 26, 3639-3644.	11.4	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. <i>Micron</i> , 2012, 43, 1293-1298.	2.2	123
20	Stimulation of epithelial cell growth by the neuropeptide substance P. <i>Journal of Cellular Biochemistry</i> , 1993, 52, 476-485.	2.6	117
21	Using Liquid Crystals to Amplify Protein-Receptor Interactions: Design of Surfaces with Nanometer-Scale Topography that Present Histidine-Tagged Protein Receptors. <i>Langmuir</i> , 2003, 19, 1671-1680.	3.5	111
22	Elastic modulus and collagen organization of the rabbit cornea: Epithelium to endothelium. <i>Acta Biomaterialia</i> , 2014, 10, 785-791.	8.3	96
23	Role of Substratum Stiffness in Modulating Genes Associated with Extracellular Matrix and Mechanotransducers YAP and TAZ. , 2013, 54, 378.		92
24	Nanoscale Topography-Induced Modulation of Fundamental Cell Behaviors of Rabbit Corneal Keratocytes, Fibroblasts, and Myofibroblasts. , 2010, 51, 1373.		90
25	Sub-micron and nanoscale feature depth modulates alignment of stromal fibroblasts and corneal epithelial cells in serum-rich and serum-free media. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 86A, 725-735.	4.0	89
26	KCNJ15/Kir4.2 couples with polyamines to sense weak extracellular electric fields in galvanotaxis. <i>Nature Communications</i> , 2015, 6, 8532.	12.8	83
27	Integration of basal topographic cues and apical shear stress in vascular endothelial cells. <i>Biomaterials</i> , 2012, 33, 4126-4135.	11.4	79
28	The Applications of Atomic Force Microscopy to Vision Science. , 2010, 51, 6083.		78
29	A nonhuman primate model of inherited retinal disease. <i>Journal of Clinical Investigation</i> , 2019, 129, 863-874.	8.2	78
30	Synergistic Effect of Substance P with Epidermal Growth Factor on Epithelial Migration in Rabbit Cornea. <i>Experimental Eye Research</i> , 1997, 65, 321-329.	2.6	75
31	Characterizing the Effects of Heparin Gel Stiffness on Function of Primary Hepatocytes. <i>Tissue Engineering - Part A</i> , 2013, 19, 2655-2663.	3.1	74
32	Characterizing Nanoscale Topography of the Aortic Heart Valve Basement Membrane for Tissue Engineering Heart Valve Scaffold Design. <i>Tissue Engineering</i> , 2006, 12, 413-421.	4.6	73
33	The effect of biophysical attributes of the ocular trabecular meshwork associated with glaucoma on the cell response to therapeutic agents. <i>Biomaterials</i> , 2011, 32, 2417-2423.	11.4	73
34	Polymeric multilayers that localize the release of chlorhexidine from biologic wound dressings. <i>Biomaterials</i> , 2012, 33, 6783-6792.	11.4	73
35	Tissue and cellular biomechanics during corneal wound injury and repair. <i>Acta Biomaterialia</i> , 2017, 58, 291-301.	8.3	71
36	The origins of lactation and the evolution of milk: a review with new hypotheses. <i>Mammal Review</i> , 1989, 19, 1-26.	4.8	69

#	ARTICLE	IF	CITATIONS
37	Meet the corneal myofibroblast: the role of myofibroblast transformation in corneal wound healing and pathology. <i>Veterinary Ophthalmology</i> , 2009, 12, 25-27.	1.0	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. <i>Cells Tissues Organs</i> , 2002, 170, 251-257.	2.3	68
41	Substratum stiffness and latrunculin B modulate the gene expression of the mechanotransducers YAP and TAZ in human trabecular meshwork cells. <i>Experimental Eye Research</i> , 2013, 113, 66-73.	2.6	67
42	Alterations in gene expression of human vascular endothelial cells associated with nanotopographic cues. <i>Biomaterials</i> , 2010, 31, 8882-8888.	11.4	66
43	Tryptophan Inhibits Biofilm Formation by <i>Pseudomonas aeruginosa</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 1921-1925.	3.2	66
44	The role of hepatocyte growth factor in corneal wound healing. <i>Experimental Eye Research</i> , 2018, 166, 49-55.	2.6	65
45	Ultrastructural basement membrane topography of the bladder epithelium. <i>Urological Research</i> , 2003, 31, 341-346.	1.5	64
46	Adhesion and proliferation of corneal epithelial cells on self-assembled monolayers. <i>Journal of Biomedical Materials Research Part B</i> , 2000, 52, 261-269.	3.1	63
47	Cell behavior on lithographically defined nanostructured substrates. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003, 21, 683.	1.6	57
48	The ability of corneal epithelial cells to recognize high aspect ratio nanostructures. <i>Biomaterials</i> , 2010, 31, 4064-4072.	11.4	56
49	What do mechanotransduction, Hippo, Wnt, and TGF β 2 have in common? YAP and TAZ as key orchestrating molecules in ocular health and disease. <i>Experimental Eye Research</i> , 2013, 115, 1-12.	2.6	54
50	Automated AFM force curve analysis for determining elastic modulus of biomaterials and biological samples. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 37, 209-218.	3.1	54
51	The intrinsic stiffness of human trabecular meshwork cells increases with senescence. <i>Oncotarget</i> , 2015, 6, 15362-15374.	1.8	54
52	Polymeric Multilayers that Contain Silver Nanoparticles can be Stamped onto Biological Tissues to Provide Antibacterial Activity. <i>Advanced Functional Materials</i> , 2011, 21, 1863-1873.	14.9	53
53	Interfacial Phenomena and the Ocular Surface. <i>Ocular Surface</i> , 2014, 12, 178-201.	4.4	53
54	The role of substratum compliance of hydrogels on vascular endothelial cell behavior. <i>Biomaterials</i> , 2011, 32, 5056-5064.	11.4	52

#	ARTICLE	IF	CITATIONS
55	Glaucomatous cell derived matrices differentially modulate non-glaucomatous trabecular meshwork cellular behavior. <i>Acta Biomaterialia</i> , 2018, 71, 444-459.	8.3	51
56	Nano- and Microscale Holes Modulate Cell-Substrate Adhesion, Cytoskeletal Organization, and β 1 Integrin Localization in Sv40 Human Corneal Epithelial Cells. <i>IEEE Transactions on Nanobioscience</i> , 2006, 5, 273-280.	3.3	49
57	Periocular and Intra-Articular Injection of Canine Adipose-Derived Mesenchymal Stem Cells: An In Vivo Imaging and Migration Study. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2012, 28, 307-317.	1.4	49
58	Non-toxic thermotropic liquid crystals for use with mammalian cells. <i>Liquid Crystals</i> , 2004, 31, 611-621.	2.2	48
59	Biophysical Cueing and Vascular Endothelial Cell Behavior. <i>Materials</i> , 2010, 3, 1620-1639.	2.9	47
60	The effect of elevated extracellular glucose on migration, adhesion and proliferation of SV40 transformed human corneal epithelial cells. <i>Current Eye Research</i> , 1998, 17, 924-932.	1.5	46
61	Topographic Modulation of the Orientation and Shape of Cell Nuclei and Their Influence on the Measured Elastic Modulus of Epithelial Cells. <i>Biophysical Journal</i> , 2011, 101, 2139-2146.	0.5	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. <i>Experimental Eye Research</i> , 2015, 132, 174-178.	2.6	46
64	Hydrogels with well-defined peptide-hydrogel spacing and concentration: impact on epithelial cell behavior. <i>Soft Matter</i> , 2012, 8, 390-398.	2.7	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. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, 1012-1020.	2.7	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. <i>Cytotherapy</i> , 2013, 15, 1498-1510.	0.7	42
68	Refractive state, ocular anatomy, and accommodative range of the sea otter (<i>Enhydra lutris</i>). <i>Vision Research</i> , 1990, 30, 23-32.	1.4	41
69	Successful Six-Day Kidney Preservation Using Trophic Factor Supplemented Media and Simple Cold Storage. <i>American Journal of Transplantation</i> , 2002, 2, 712-718.	4.7	40
70	PDGF-BB Does Not Accelerate Healing in Diabetic Mice with Splinted Skin Wounds. <i>PLoS ONE</i> , 2014, 9, e104447.	2.5	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. <i>Annals of Surgery</i> , 2012, 256, 371-377.	4.2	38

#	ARTICLE	IF	CITATIONS
73	Biomechanical relationships between the corneal endothelium and Descemet's membrane. <i>Experimental Eye Research</i> , 2016, 152, 57-70.	2.6	38
74	Identification of genes required for eye development by high-throughput screening of mouse knockouts. <i>Communications Biology</i> , 2018, 1, 236.	4.4	37
75	Involvement of YAP, TAZ and HSP90 in Contact Guidance and Intercellular Junction Formation in Corneal Epithelial Cells. <i>PLoS ONE</i> , 2014, 9, e109811.	2.5	37
76	Nerve growth factor and corneal wound healing in dogs. <i>Experimental Eye Research</i> , 2005, 80, 633-642.	2.6	36
77	Thermal cautery of the cornea for treatment of spontaneous chronic corneal epithelial defects in dogs and horses. <i>Journal of the American Veterinary Medical Association</i> , 2004, 224, 250-253.	0.5	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. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2014, 30, 254-266.	1.4	33
80	Early responses of vascular endothelial cells to topographic cues. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 305, C290-C298.	4.6	32
81	Structural organization of the cytoskeleton in SV40 human corneal epithelial cells cultured on nano- and microscale grooves. <i>Scanning</i> , 2008, 30, 405-413.	1.5	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/6N Mice. , 2018, 59, 2252.		31
85	YAP and TAZ are distinct effectors of corneal myofibroblast transformation. <i>Experimental Eye Research</i> , 2019, 180, 102-109.	2.6	31
86	The influence of substrate topography on the migration of corneal epithelial wound borders. <i>Biomaterials</i> , 2013, 34, 9244-9251.	11.4	30
87	Refractive state, corneal curvature, accommodative range and ocular anatomy of the Asian elephant (<i>Elephas maximus</i>). <i>Vision Research</i> , 1992, 32, 2013-2021.	1.4	29
88	Improved survival of orthotopic liver allograft in swine by addition of trophic factors to University of Wisconsin solution. <i>Transplantation</i> , 2004, 77, 302-304.	1.0	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 Silver-Loaded Dissolvable Microfilm Construct. <i>Advanced Healthcare Materials</i> , 2014, 3, 916-928.	7.6	29

#	ARTICLE	IF	CITATIONS
91	Impact of Nanotopography, Heparin Hydrogel Microstructures, and Encapsulated Fibroblasts on Phenotype of Primary Hepatocytes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12299-12308.	8.0	29
92	Compatibility of lyotropic liquid crystals with viruses and mammalian cells that support the replication of viruses. <i>Biomaterials</i> , 2005, 26, 7173-7182.	11.4	28
93	The Influence of a Biologically Relevant Substratum Topography on Human Aortic and Umbilical Vein Endothelial Cells. <i>Biophysical Journal</i> , 2012, 102, 1224-1233.	0.5	28
94	Robust and artifact-free mounting of tissue samples for atomic force microscopy. <i>BioTechniques</i> , 2014, 56, 40-42.	1.8	27
95	The effect of chronic corneal epithelial debridement on epithelial and stromal morphology in dogs. <i>Investigative Ophthalmology and Visual Science</i> , 2002, 43, 2136-42.	3.3	27
96	Corneal Storage Medium Preservation with Defensins. <i>Cornea</i> , 1992, 11, 370-375.	1.7	26
97	Importance of defining experimental conditions in a mouse excisional wound model. <i>Wound Repair and Regeneration</i> , 2015, 23, 251-261.	3.0	26
98	Assessment of tear film osmolality using the TearLab [®] osmometer in normal dogs and dogs with keratoconjunctivitis sicca. <i>Veterinary Ophthalmology</i> , 2017, 20, 357-364.	1.0	26
99	The use of native chemical functional groups presented by wound beds for the covalent attachment of polymeric microcarriers of bioactive factors. <i>Biomaterials</i> , 2013, 34, 340-352.	11.4	25
100	Influence of Extracellular Matrix Proteins and Substratum Topography on Corneal Epithelial Cell Alignment and Migration. <i>Tissue Engineering - Part A</i> , 2013, 19, 1713-1722.	3.1	24
101	Species Differences in the Geometry of the Anterior Segment Differentially Affect Anterior Chamber Cell Scoring Systems in Laboratory Animals. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2016, 32, 28-37.	1.4	24
102	Expression of Matrix Metalloproteinase 2 and 9 in Experimentally Wounded Canine Corneas and Spontaneous Chronic Corneal Epithelial Defects. <i>Cornea</i> , 2007, 26, 1213-1219.	1.7	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. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 110-118.	5.2	23
105	Biomimetic stochastic topography and electric fields synergistically enhance directional migration of corneal epithelial cells in a MMP-3-dependent manner. <i>Acta Biomaterialia</i> , 2015, 12, 102-112.	8.3	23
106	Species variation and spatial differences in mucin expression from corneal epithelial cells. <i>Experimental Eye Research</i> , 2016, 152, 43-48.	2.6	23
107	<i>In vivo</i> evaluation of the cornea and conjunctiva of the normal laboratory beagle using time-domain and Fourier domain optical coherence tomography and ultrasound pachymetry. <i>Veterinary Ophthalmology</i> , 2016, 19, 50-56.	1.0	23
108	The modulation of canine mesenchymal stem cells by nano-topographic cues. <i>Experimental Cell Research</i> , 2012, 318, 2438-2445.	2.6	22

#	ARTICLE	IF	CITATIONS
109	Nuclear and cellular alignment of primary corneal epithelial cells on topography. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 1069-1079.	4.0	22
110	Modulation of human corneal stromal cell differentiation by hepatocyte growth factor and substratum compliance. <i>Experimental Eye Research</i> , 2018, 176, 235-242.	2.6	22
111	Topical Rho-Associated Kinase Inhibitor, Y27632, Accelerates Corneal Endothelial Regeneration in a Canine Cryoinjury Model. <i>Cornea</i> , 2019, 38, 352-359.	1.7	22
112	Inhibition of <i>Pseudomonas aeruginosa</i> biofilm formation on wound dressings. <i>Wound Repair and Regeneration</i> , 2015, 23, 842-854.	3.0	21
113	Biosynthetic Corneal Substitute Implantation in Dogs. <i>Cornea</i> , 2010, 29, 910-916.	1.7	20
114	A Cell Culture Substrate with Biologically Relevant Size-Scale Topography and Compliance of the Basement Membrane. <i>Langmuir</i> , 2014, 30, 2101-2108.	3.5	19
115	Latrunculin B and substratum stiffness regulate corneal fibroblast to myofibroblast transformation. <i>Experimental Eye Research</i> , 2018, 170, 101-107.	2.6	19
116	Biomechanical changes to Descemet's membrane precede endothelial cell loss in an early-onset murine model of Fuchs endothelial corneal dystrophy. <i>Experimental Eye Research</i> , 2019, 180, 18-22.	2.6	19
117	Focal adhesion kinase knockdown modulates the response of human corneal epithelial cells to topographic cues. <i>Acta Biomaterialia</i> , 2012, 8, 4285-4294.	8.3	18
118	Phenotypic Characterization of Corneal Endothelial Dystrophy in German Shorthaired and Wirehaired Pointers Using In Vivo Advanced Corneal Imaging and Histopathology. <i>Cornea</i> , 2018, 37, 88-94.	1.7	18
119	Comprehensive Clinical, Diagnostic, and Advanced Imaging Characterization of the Ocular Surface in Spontaneous Aqueous Deficient Dry Eye Disease in Dogs. <i>Cornea</i> , 2019, 38, 1568-1575.	1.7	18
120	Cell sorting but not serum starvation is effective for SV40 human corneal epithelial cell cycle synchronization. <i>Experimental Eye Research</i> , 2006, 83, 61-68.	2.6	17
121	Refractive state and accommodation in the eyes of free-swimming versus restrained juvenile lemon sharks (<i>Negaprion brevirostris</i>). <i>Vision Research</i> , 2001, 41, 1885-1889.	1.4	16
122	Biomechanical, ultrastructural, and electrophysiological characterization of the non-human primate experimental glaucoma model. <i>Scientific Reports</i> , 2017, 7, 14329.	3.3	16
123	Animal models of corneal endothelial dysfunction to facilitate development of novel therapies. <i>Annals of Translational Medicine</i> , 2021, 9, 1271-1271.	1.7	16
124	Spectacle Wound Healing in the Royal Python (<i>Python regius</i>). <i>Journal of Herpetological Medicine and Surgery</i> , 2010, 20, 29.	0.4	15
125	Heat shock protein expression in canine corneal wound healing. <i>Veterinary Ophthalmology</i> , 2016, 19, 262-266.	1.0	15
126	Engineered metal oxide nanomaterials inhibit corneal epithelial wound healing in vitro and in vivo. <i>NanoImpact</i> , 2020, 17, 100198.	4.5	14

#	ARTICLE	IF	CITATIONS
127	The functional significance of crescent-shaped pupils and multiple pupillary apertures. <i>The Journal of Experimental Zoology</i> , 1990, 256, 22-28.	1.4	13
128	The Effect of Trophic Factor Supplementation on Cold Ischemia-Induced Early Apoptotic Changes. <i>Transplantation</i> , 2007, 83, 91-94.	1.0	13
129	The formation of cortical actin arrays in human trabecular meshwork cells in response to cytoskeletal disruption. <i>Experimental Cell Research</i> , 2014, 328, 164-171.	2.6	12
130	<i>In vivo</i> ocular imaging of the cornea of the normal female laboratory beagle using confocal microscopy. <i>Veterinary Ophthalmology</i> , 2016, 19, 63-67.	1.0	12
131	Effect of substance P, insulin-like growth factor-1 and vasoactive intestinal polypeptide on corneal re-epithelialization in galactosemic rats. <i>Current Eye Research</i> , 1998, 17, 1143-1149.	1.5	11
132	Topical therapeutic agents that modulate corneal wound healing. <i>Veterinary Clinics of North America - Small Animal Practice</i> , 2004, 34, 623-638.	1.5	11
133	Gross anatomy and morphometric evaluation of the canine lacrimal and third eyelid glands. <i>Veterinary Ophthalmology</i> , 2016, 19, 230-236.	1.0	11
134	Clinical findings and normative ocular data for free-living Anna's (<i>Calypte anna</i>) and Black-chinned (<i>Archilochus alexandri</i>) Hummingbirds. <i>Veterinary Ophthalmology</i> , 2019, 22, 13-23.	1.0	11
135	Integration of Silver Nanoparticle-impregnated Polyelectrolyte Multilayers Into Murine-Splinted Cutaneous Wound Beds. <i>Journal of Burn Care and Research</i> , 2013, 34, e359-e367.	0.4	10
136	Gallium-Loaded Dissolvable Microfilm Constructs that Provide Sustained Release of Ga ³⁺ for Management of Biofilms. <i>Advanced Healthcare Materials</i> , 2015, 4, 2849-2859.	7.6	10
137	<i>Arap1</i> Deficiency Causes Photoreceptor Degeneration in Mice. , 2017, 58, 1709.		10
138	Ocular phenotypic consequences of a single copy deletion of the gene () in mice. <i>Molecular Vision</i> , 2019, 25, 129-142.	1.1	10
139	A novel herpesvirus associated with chronic superficial keratitis and proliferative conjunctivitis in a great horned owl (<i>Bubo virginianus</i>). <i>Veterinary Ophthalmology</i> , 2019, 22, 67-75.	1.0	9
140	Stromal Collagen Arrangement Correlates with Stiffness of the Canine Cornea. <i>Bioengineering</i> , 2020, 7, 4.	3.5	9
141	Prevention of cold ischemia/rewarming-induced ERK 1/2, p38 kinase and HO-1 activation by trophic factor supplementation of UW solution. <i>Cryobiology</i> , 2008, 57, 72-74.	0.7	8
142	Epidermal Growth Factor-Functionalized Polymeric Multilayer Films: Interplay between Spatial Location and Bioavailability of EGF. <i>Journal of Investigative Dermatology</i> , 2014, 134, 1757-1760.	0.7	8
143	Blind free-living kiwi offer a unique window into the ecology and evolution of vertebrate vision. <i>BMC Biology</i> , 2017, 15, 85.	3.8	8
144	Lipoidal corneal degeneration in aged falcons. <i>Veterinary Ophthalmology</i> , 2018, 21, 332-338.	1.0	8

#	ARTICLE	IF	CITATIONS
145	Suppression of cold ischemic injury in stored kidneys by the antimicrobial peptide bactenecin. <i>Cryobiology</i> , 2004, 49, 230-240.	0.7	7
146	Ocular anatomy of the black pacu (<i>Colossoma macropomum</i>): gross, histologic, and diagnostic imaging. <i>Veterinary Ophthalmology</i> , 2018, 21, 507-515.	1.0	7
147	Whorl pattern keratopathies in veterinary and human patients. <i>Veterinary Ophthalmology</i> , 2018, 21, 661-667.	1.0	7
148	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). <i>Veterinary Ophthalmology</i> , 2018, 21, 144-150.	1.0	7
149	Effects of 5% sodium chloride ophthalmic ointment on thickness and morphology of the normal canine cornea. <i>Veterinary Ophthalmology</i> , 2019, 22, 229-237.	1.0	7
150	Transcorneal delivery of topically applied silver nanoparticles does not delay epithelial wound healing. <i>NanoImpact</i> , 2021, 24, 100352.	4.5	7
151	Trophic factor supplemented UW solution reduces intimal hyperplasia in the rat aortic transplant model. <i>Cryobiology</i> , 2007, 54, 204-211.	0.7	6
152	Genome-wide screening of mouse knockouts reveals novel genes required for normal integumentary and oculocutaneous structure and function. <i>Scientific Reports</i> , 2019, 9, 11211.	3.3	6
153	Thermally labile components of aqueous humor potently induce osteogenic potential in adipose-derived mesenchymal stem cells. <i>Experimental Eye Research</i> , 2015, 135, 127-133.	2.6	5
154	Interfacial Stacks of Polymeric Nanofilms on Soft Biological Surfaces that Release Multiple Agents. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26541-26551.	8.0	5
155	Acremonium and trichosporon fungal keratoconjunctivitis in a Leopard Gecko (<i>Eublepharis</i>). <i>Journal of Eukaryotic Microbiology</i> , 2019, 10, 1-5.	1.0	5
156	Trophic Factor Supplementation Protects Kidney Tubule Cells from Cold Ischemic Injury and Decreases Free Radical Production during Rewarming. <i>Cell Preservation Technology</i> , 2007, 5, 132-136.	0.6	4
157	Intrastromal Injection of Hyaluronidase Alters the Structural and Biomechanical Properties of the Corneal Stroma. <i>Translational Vision Science and Technology</i> , 2020, 9, 21.	2.2	4
158	Differential effects of Hsp90 inhibition on corneal cells in vitro and in vivo. <i>Experimental Eye Research</i> , 2021, 202, 108362.	2.6	4
159	A new method to characterize chemically and topographically nanopatterned surfaces. <i>Journal of Biotechnology</i> , 2006, 126, 196-204.	3.8	3
160	Photopatternable and photoactive hydrogel for on-demand generation of hydrogen peroxide in cell culture. <i>Biomaterials</i> , 2014, 35, 1762-1770.	11.4	3
161	Presumptive keratoglobus in a great horned owl (<i>Bubo virginianus</i>). <i>Veterinary Ophthalmology</i> , 2017, 20, 560-567.	1.0	3
162	Comparison of automated vs manual analysis of corneal endothelial cell density and morphology in normal and corneal endothelial dystrophy-affected dogs. <i>Veterinary Ophthalmology</i> , 2020, 23, 44-51.	1.0	3

#	ARTICLE	IF	CITATIONS
163	Metal Oxide Engineered Nanomaterials Modulate Rabbit Corneal Fibroblast to Myofibroblast Transformation. <i>Translational Vision Science and Technology</i> , 2021, 10, 23.	2.2	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. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2649-2660.	5.2	2
166	Retinal degeneration in mice and humans with neuronal ceroid lipofuscinosis type 8. <i>Annals of Translational Medicine</i> , 2021, 9, 1274-1274.	1.7	2
167	PRESUMED PHOTORECEPTOR DYSPLASIAS IN PEREGRINE FALCONS (FALCO PEREGRINUS) AND PEREGRINE FALCON HYBRIDS. <i>Journal of Wildlife Diseases</i> , 2019, 55, 325.	0.8	1
168	LIQUID NITROGEN CRYOSURGERY FOR CUTANEOUS AND OCULAR NEOPLASMS IN KOI (CYPRINUS CARPIO) AND GOLDFISH (CARASSIUS AURATUS): EIGHT CASES (2018â€“2019). <i>Journal of Zoo and Wildlife Medicine</i> , 2021, 52, 763-773.	0.6	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. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2021, 37, 394-398.	1.4	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. <i>BMC Veterinary Research</i> , 2022, 18, 117.	1.9	1
172	<i>Arap1</i> loss causes retinal pigment epithelium phagocytic dysfunction and subsequent photoreceptor death. <i>DMM Disease Models and Mechanisms</i> , 0, , .	2.4	1
173	Characterizing Nanoscale Topography of the Aortic Heart Valve Basement Membrane for Tissue Engineering Heart Valve Scaffold Design. <i>Tissue Engineering</i> , 2006, .	4.6	0