James V Jester

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6819738/publications.pdf

Version: 2024-02-01

210 papers	11,814 citations	26630 56 h-index	40979 93 g-index
211 all docs	211 docs citations	211 times ranked	8547 citing authors

#	Article	IF	Citations
1	Corneal stromal wound healing in refractive surgery: the role of myofibroblasts. Progress in Retinal and Eye Research, 1999, 18, 311-356.	15.5	404
2	Epithelial and corneal thickness measurements by in vivo confocal microscopy through focusing (CMTF). Current Eye Research, 1997, 16, 214-221.	1.5	293
3	Clinical and Diagnostic Use of In Vivo Confocal Microscopy in Patients with Corneal Disease. Ophthalmology, 1993, 100, 1444-1454.	5.2	258
4	Second-Harmonic Imaging Microscopy of Normal Human and Keratoconus Cornea. , 2007, 48, 1087.		253
5	Matrix Metalloproteinase Gelatinase B (MMP-9) Coordinates and Effects Epithelial Regeneration. Journal of Biological Chemistry, 2002, 277, 2065-2072.	3.4	249
6	Characterization of Growth and Differentiation in a Telomerase-Immortalized Human Corneal Epithelial Cell Line. , 2005, 46, 470.		248
7	Meibomian Gland Dysfunction in Chronic Blepharitis. Cornea, 1991, 10, 277-285.	1.7	238
8	Radial Keratotomy in Non-Human Primate Eyes. American Journal of Ophthalmology, 1981, 92, 153-171.	3.3	230
9	Modulation of cultured corneal keratocyte phenotype by growth factors/cytokines control in vitro contractility and extracellular matrix contraction. Experimental Eye Research, 2003, 77, 581-592.	2.6	207
10	Corneal Haze Development After PRK Is Regulated by Volume of Stromal Tissue Removal. Cornea, 1998, 17, 627.	1.7	206
11	Induction of ??-Smooth Muscle Actin Expression and Myofibroblast Transformation in Cultured Corneal Keratocytes. Cornea, 1996, 15, 505???516.	1.7	205
12	Quantification of Stromal Thinning, Epithelial Thickness, and Corneal Haze after Photorefractive Keratectomy Using In Vivo Confocal Microscopy. Ophthalmology, 1997, 104, 360-368.	5.2	195
13	TGFÎ² Induced Myofibroblast Differentiation of Rabbit Keratocytes Requires Synergistic TGFÎ², PDGF and Integrin Signaling. Experimental Eye Research, 2002, 75, 645-657.	2.6	183
14	Nonlinear Optical Macroscopic Assessment of 3-D Corneal Collagen Organization and Axial Biomechanics. , 2011, 52, 8818.		179
15	A role for MEK kinase 1 in TGF-Â/activin-induced epithelium movement and embryonic eyelid closure. EMBO Journal, 2003, 22, 4443-4454.	7.8	161
16	Corneal crystallins and the development of cellular transparency. Seminars in Cell and Developmental Biology, 2008, 19, 82-93.	5.0	153
17	A role for NF-ÎºBâ€“dependent gene transactivation in sunburn. Journal of Clinical Investigation, 2000, 105, 1751-1759.	8.2	150
18	Inhibition of Corneal Fibrosis by Topical Application of Blocking Antibodies to TGF?? in the Rabbit. Cornea, 1997, 16, 177???187.	1.7	148

#	Article	IF	Citations
19	Meibomian Gland Morphology and Tear Osmolarity: Changes with Accutane Therapy. Cornea, 1991, 10, 286-290.	1.7	146
20	Effects of rigid and soft contact lens daily wear on corneal epithelium, tear lactate dehydrogenase, and bacterial binding to exfoliated epithelial cells. Ophthalmology, 2001, 108, 1279-1288.	5.2	143
21	In Vivo Transillumination Biomicroscopy and Photography of Meibomian Gland Dysfunction. Ophthalmology, 1985, 92, 1423-1426.	5.2	140
22	PLGA micro/nanosphere synthesis by droplet microfluidic solvent evaporation and extraction approaches. Lab on A Chip, 2010, 10, 1820.	6.0	139
23	Neutralizing antibody to TGFÎ² modulates stromal fibrosis but not regression of photoablative effect following PRK. Current Eye Research, 1998, 17, 736-747.	1.5	139
24	Noninvasive corneal stromal collagen imaging using two-photon-generated second-harmonic signals. Journal of Cataract and Refractive Surgery, 2006, 32, 1784-1791.	1.5	137
25	Cell Therapy of Congenital Corneal Diseases with Umbilical Mesenchymal Stem Cells: Lumican Null Mice. PLoS ONE, 2010, 5, e10707.	2.5	131
26	Effects of Age and Dysfunction on Human Meibomian Glands. JAMA Ophthalmology, 2011, 129, 462.	2.4	130
27	Keratocan, a Cornea-specific Keratan Sulfate Proteoglycan, Is Regulatedby Lumican. Journal of Biological Chemistry, 2005, 280, 25541-25547.	3.4	128
28	Myofibroblast Differentiation of Normal Human Keratocytes and hTERT, Extended-Life Human Corneal Fibroblasts. , 2003, 44, 1850.		126
29	Adaptive effects of 30-night wear of hyper-O2 transmissible contact lenses on bacterial binding and corneal epithelium. Ophthalmology, 2002, 109, 27-39.	5.2	125
30	Behavioral Responses of Epidermal Langerhans Cells In Situ to Local Pathological Stimuli. Journal of Investigative Dermatology, 2006, 126, 787-796.	0.7	124
31	Three-Dimensional Distribution of Transverse Collagen Fibers in the Anterior Human Corneal Stroma. , 2013, 54, 7293.		124
32	Confocal Microscopic Studies of Living Rabbit Cornea Treated with Benzalkonium Chloride. Cornea, 1992, 11, 221-225.	1.7	119
33	The Relation between Contact Lens Oxygen Transmissibility and Binding of Pseudomonas aeruginosa to the Cornea after Overnight Wear. Ophthalmology, 1994, 101, 371-388.	5.2	118
34	Transient synthesis of K6 and K16 keratins in regenerating rabbit corneal epithelium: keratin markers for an alternative pathway of keratinocyte differentiation. Differentiation, 1989, 42, 103-110.	1.9	114
35	Neutralizing antibody to TGFÎ²modulates stromal fibrosis but not regression of photoablative effect following PRK. Current Eye Research, 1998, 17, 736-747.	1.5	112
36	Effects of daily and overnight wear of a novel hyper oxygen-transmissible soft contact lens on bacterial binding and corneal epithelium. Ophthalmology, 2002, 109, 1957-1969.	5.2	107

#	Article	IF	Citations
37	Corneal Keratocytes: Phenotypic and Species Differences in Abundant Protein Expression and In Vitro Light-Scattering. , 2005, 46, 2369.		106
38	Successful treatment of the murine model of cystinosis using bone marrow cell transplantation. Blood, 2009, 114, 2542-2552.	1.4	104
39	Age-related changes in the meibomian gland. Experimental Eye Research, 2009, 89, 1021-1027.	2.6	98
40	Elastic modulus and collagen organization of the rabbit cornea: Epithelium to endothelium. Acta Biomaterialia, 2014, 10, 785-791.	8.3	96
41	Nanoscale Topographyâ€“Induced Modulation of Fundamental Cell Behaviors of Rabbit Corneal Keratocytes, Fibroblasts, and Myofibroblasts. , 2010, 51, 1373.		90
42	In vivo, real-time confocal imaging. Journal of Electron Microscopy Technique, 1991, 18, 50-60.	1.1	89
43	Extracellular matrix metalloproteinase inducer/CD147 promotes myofibroblast differentiation by inducing Î±â€smooth muscle actin expression and collagen gel contraction: implications in tissue remodeling. FASEB Journal, 2008, 22, 1144-1154.	0.5	83
44	Hair follicles serve as local reservoirs of skin mast cell precursors. Blood, 2003, 102, 1654-1660.	1.4	81
45	Specular Microscopy, Confocal Microscopy, and Ultrasound Biomicroscopy. Cornea, 2000, 19, 712-722.	1.7	79
46	Direct correlation of collagen matrix deformation with focal adhesion dynamics in living corneal fibroblasts. Journal of Cell Science, 2003, 116, 1481-1491.	2.0	77
47	Neonatal Corneal Stromal Development in the Normal and Lumican-Deficient Mouse. , 2003, 44, 548.		77
48	Application of second harmonic imaging microscopy to assess structural changes in optic nerve head structure ex vivo. Journal of Biomedical Optics, 2007, 12, 024029.	2.6	75
49	Picosecond spectral coherent anti-Stokes Raman scattering imaging with principal component analysis of meibomian glands. Journal of Biomedical Optics, 2011, 16, 021104.	2.6	75
50	Extent of Initial Corneal Injury as the Mechanistic Basis for Ocular Irritation: Key Findings and Recommendations for the Development of Alternative Assays. Regulatory Toxicology and Pharmacology, 2002, 36, 106-117.	2.7	72
51	Myofibroblast Differentiation Modulates Keratocyte Crystallin Protein Expression, Concentration, and Cellular Light Scattering. , 2012, 53, 770.		72
52	Evaluation of the Corneal Effects of Topical Ophthalmic Fluoroquinolones Using In Vivo Confocal Microscopy. Eye and Contact Lens, 2004, 30, 90-94.	1.6	71
53	High resolution three-dimensional reconstruction of the collagenous matrix of the human optic nerve head. Brain Research Bulletin, 2010, 81, 339-348.	3.0	71
54	PPARÎ³ Regulates Mouse Meibocyte Differentiation and Lipid Synthesis. Ocular Surface, 2016, 14, 484-494.	4.4	70

#	Article	IF	Citations
55	Substratum Topography Modulates Corneal Fibroblast to Myofibroblast Transformation. , 2012, 53, 811.		69
56	A Novel HLA (HLA-A*0201) Transgenic Rabbit Model for Preclinical Evaluation of Human CD8+T Cell Epitope-Based Vaccines against Ocular Herpes. Journal of Immunology, 2010, 184, 2561-2571.	0.8	67
57	Meibomian gland dysfunction: hyperkeratinization or atrophy?. BMC Ophthalmology, 2015, 15, 156.	1.4	67
58	Meibocyte differentiation and renewal: Insights into novel mechanisms of meibomian gland dysfunction (MGD). Experimental Eye Research, 2017, 163, 37-45.	2.6	63
59	TRPA1 is required for TGF-Î² signaling and its loss blocks inflammatory fibrosis in mouse corneal stroma. Laboratory Investigation, 2014, 94, 1030-1041.	3.7	62
60	Internalization ofPseudomonas aeruginosaIs Mediated by Lipid Rafts in Contact Lensâ€“Wearing Rabbit and Cultured Human Corneal Epithelial Cells. , 2005, 46, 1348.		61
61	Antioxidant function of corneal ALDH3A1 in cultured stromal fibroblasts. Free Radical Biology and Medicine, 2006, 41, 1459-1469.	2.9	61
62	Absence of ductal hyper-keratinization in Mouse age-related meibomian gland dysfunction (ARMGD). Aging, 2013, 5, 825-834.	3.1	61
63	In vivo confocal microscopy through-focusing to measure corneal flap thickness after laser in situ keratomileusis. Journal of Cataract and Refractive Surgery, 2002, 28, 962-970.	1.5	60
64	Ocular aldehyde dehydrogenases: Protection against ultraviolet damage and maintenance of transparency for vision. Progress in Retinal and Eye Research, 2013, 33, 28-39.	15.5	60
65	Application ofIn VivoConfocal Microscopy to the Understanding of Surfactant-Induced Ocular Irritation*^{Oryzias latipes}. Toxicologic Pathology, 1996, 24, 412-428.	1.8	59
66	Exertion of tractional force requires the coordinated up-regulation of cell contractility and adhesion. Cytoskeleton, 1999, 43, 23-34.	4.4	59
67	Ocular surface inflammation impairs structure and function of meibomian gland. Experimental Eye Research, 2017, 163, 78-84.	2.6	59
68	From nano to macro: Studying the hierarchical structure of the corneal extracellular matrix. Experimental Eye Research, 2015, 133, 81-99.	2.6	58
69	Comparison of in vivo and ex vivo cellular structure in rabbit eyes detected by tandem scanning microscopy. Journal of Microscopy, 1992, 165, 169-181.	1.8	57
70	Possible role of the vitamin E solubilizer in topical diclofenac on matrix metalloproteinase expression in corneal melting. Ophthalmology, 2002, 109, 343-350.	5.2	57
71	Quantitative threeâ€dimensional confocal imaging of the cornea in situ and in vivo: System design and calibration. Scanning, 1996, 18, 45-49.	1.5	57
72	Effect of Desiccating Stress on Mouse Meibomian Gland Function. Ocular Surface, 2014, 12, 59-68.	4.4	57

#	Article	IF	Citations
73	In Vivo Confocal Microscopic Studies of Endothelial Wound Healing in Rabbit Cornea. Cornea, 1993, 12, 369-378.	1.7	56
74	Clinical confocal microscopy. Current Opinion in Ophthalmology, 1998, 9, 59-65.	2.9	55
75	Tandem Scanning Confocal Microscopy (TSCM) of normal and ischemic living kidneys. American Journal of Anatomy, 1991, 191, 95-102.	1.0	54
76	Confocal Microscopic Characterization of Initial Corneal Changes of Surfactant-Induced Eye Irritation in the Rabbit. Toxicology and Applied Pharmacology, 1997, 143, 291-300.	2.8	54
77	Evaluating Corneal Collagen Organization Using High-Resolution Nonlinear Optical Macroscopy. Eye and Contact Lens, 2010, 36, 260-264.	1.6	54
78	Dynamic threeâ€dimensional visualization of collagen matrix remodeling and cytoskeletal organization in living corneal fibroblasts. Scanning, 2004, 26, 1-10.	1.5	53
79	Lumican Binds ALK5 to Promote Epithelium Wound Healing. PLoS ONE, 2013, 8, e82730.	2.5	53
80	Corneal haze after photorefractive keratectomy using different epithelial removal techniques11The authors have no proprietary interest in any of the equipment mentioned in this article.. Ophthalmology, 2001, 108, 112-120.	5.2	48
81	PPARÎ³ regulates meibocyte differentiation and lipid synthesis of cultured human meibomian gland epithelial cells (hMGEC). Ocular Surface, 2018, 16, 463-469.	4.4	48
82	The development of meibomian glands in mice. Molecular Vision, 2010, 16, 1132-40.	1.1	48
83	Vertical Movement of Epithelial Basal Cells toward the Corneal Surface during Use of Extended-Wear Contact Lenses. , 2003, 44, 1056.		47
84	Corneal aldehyde dehydrogenases: Multiple functions and novel nuclear localization. Brain Research Bulletin, 2010, 81, 211-218.	3.0	46
85	Effect of Eyelid Closure and Overnight Contact Lens Wear on Viability of Surface Epithelial Cells in Rabbit Cornea. Cornea, 2002, 21, 85-90.	1.7	45
86	Quantitative Assessment of UVA-Riboflavin Corneal Cross-Linking Using Nonlinear Optical Microscopy. , 2011, 52, 4231.		45
87	Extent of Corneal Injury as a Biomarker for Hazard Assessment and the Development of Alternative Models to the Draize Rabbit Eye Test. Cutaneous and Ocular Toxicology, 2006, 25, 41-54.	1.3	44
88	Quantitative Assessment of Anteroposterior Keratocyte Density in the Normal Rabbit Cornea. Cornea, 1995, 14, 3???9.	1.7	42
89	Current concepts: Contact lens related Pseudomonas keratitis. Contact Lens and Anterior Eye, 2007, 30, 94-107.	1.7	42
90	Corneal epithelial homeostasis following daily and overnight contact lens wear. Contact Lens and Anterior Eye, 2002, 25, 11-21.	1.7	41

#	Article	IF	Citations
91	Effects of Eyelid Closure and Disposable and Silicone Hydrogel Extended Contact Lens Wear on Rabbit Corneal Epithelial Proliferation. , 2003, 44, 1843.		41
92	Functional Foxp3 + CD4 + CD25 (Bright+) â€œNaturalâ€•Regulatory T Cells Are Abundant in Rabbit Conjunctiva and Suppress Virus-Specific CD4 + and CD8 + Effector T Cells during Ocular Herpes Infection. Journal of Virology, 2007, 81, 7647-7661.	3.4	41
93	Castroviejo Lecture 2009: 40 Years in Search of the Perfect Contact Lens. Cornea, 2010, 29, 1075-1085.	1.7	41
94	A Comparative Study of Vertebrate Corneal Structure: The Evolution of a Refractive Lens. , 2015, 56, 2764.		40
95	Modulation of Corneal Fibroblast Contractility within Fibrillar Collagen Matrices. , 2003, 44, 4724.		39
96	Renewal of the Holocrine Meibomian Glands by Label-Retaining, Unipotent Epithelial Progenitors. Stem Cell Reports, 2016, 7, 399-410.	4.8	39
97	Variations in Corneal Wound Healing After Radial Keratotomy. Cornea, 1992, 11, 191-199.	1.7	37
98	Inhibition of TGFBIp Expression by Lithium: Implications forTGFBI-Linked Corneal Dystrophy Therapy. , 2011, 52, 3293.		37
99	Measurement of an Elasticity Map in the Human Cornea. , 2016, 57, 3282.		37
100	The application of confocal microscopy to the study of living systems. Neuroscience and Biobehavioral Reviews, 1993, 17, 477-482.	6.1	36
101	Local thermal injury elicits immediate dynamic behavioural responses by corneal Langerhans cells. Immunology, 2007, 120, 556-572.	4.4	36
102	Reducing peak corneal haze after photorefractive keratectomy in rabbits: Prednisolone acetate 1.00% versus cyclosporine A 0.05%. Journal of Cataract and Refractive Surgery, 2011, 37, 937-944.	1.5	34
103	Template Curvature Influences Cell Alignment to Create Improved Human Corneal Tissue Equivalents. Advanced Biology, 2017, 1, e1700135.	3.0	34
104	Measurement of corneal sublayer thickness and transparency in transgenic mice with altered corneal clarity using in vivo confocal microscopy. Vision Research, 2001, 41, 1283-1290.	1.4	33
105	Pathology of Ocular Irritation with Bleaching Agents in the Rabbit Low-Volume Eye Test. Toxicologic Pathology, 2001, 29, 308-319.	1.8	32
106	A Novel Immunofluorescent Computed Tomography (ICT) Method to Localise and Quantify Multiple Antigens in Large Tissue Volumes at High Resolution. PLoS ONE, 2012, 7, e53245.	2.5	31
107	Measurement of Corneal Elasticity with an Acoustic Radiation Force Elasticity Microscope. Ultrasound in Medicine and Biology, 2014, 40, 1671-1679.	1.5	30
108	Sensory nerve supports epithelial stem cell function in healing of corneal epithelium in mice: the role of trigeminal nerve transient receptor potential vanilloid 4. Laboratory Investigation, 2019, 99, 210-230.	3.7	30

#	Article	IF	Citations
109	Bcl-2 Expression in the Human Cornea. Experimental Eye Research, 2001, 73, 247-255.	2.6	29
110	Prolonged Hypoxia Induces Lipid Raft Formation and Increases Pseudomonas Internalization in vivo After Contact Lens Wear and Lid Closure. Eye and Contact Lens, 2006, 32, 114-120.	1.6	29
111	Immunofluorescence Tomography of Mouse Ocular Surface Epithelial Stem Cells and Their Niche Microenvironment. , 2015, 56, 7338.		29
112	Synergistic Cysteamine Delivery Nanowafer as an Efficacious Treatment Modality for Corneal Cystinosis. Molecular Pharmaceutics, 2016, 13, 3468-3477.	4.6	29
113	Effects of Daily and Overnight Wear of Hyper-Oxygen Transmissible Rigid and Silicone Hydrogel Lenses on Bacterial Binding to the Corneal Epithelium: 13-Month Clinical Trials. Eye and Contact Lens, 2003, 29, S14-S16.	1.6	28
114	Volumetric Reconstruction of the Mouse Meibomian Gland Using Highâ€Resolution Nonlinear Optical Imaging. Anatomical Record, 2011, 294, 185-192.	1.4	28
115	Changes in Corneal Endothelial Apical Junctional Protein Organization After Corneal Cold Storage. Cornea, 1999, 18, 712.	1.7	28
116	Postnatal Corneal Transparency, Keratocyte Cell Cycle Exit and Expression of ALDH1A1. , 2007, 48, 4061.		27
117	Evolution of the vertebrate corneal stroma. Progress in Retinal and Eye Research, 2018, 64, 65-76.	15.5	27
118	The application of in vivo confocal microscopy and tear LDH measurement in assessing corneal response to contact lens and contact lens solutions. Current Eye Research, 1999, 19, 171-181.	1.5	26
119	Pseudomonas aeruginosa Corneal Binding After 24-Hour Orthokeratology Lens Wear. Eye and Contact Lens, 2004, 30, 173-178.	1.6	26
120	Eicosapentaenoic acid (EPA) activates PPARÎ³ signaling leading to cell cycle exit, lipid accumulation, and autophagy in human meibomian gland epithelial cells (hMGEC). Ocular Surface, 2020, 18, 427-437.	4.4	26
121	Pre-corneal tear film thickness in humans measured with a novel technique. Molecular Vision, 2011, 17, 756-67.	1.1	26
122	Detection of Corneal Fibrosis by Imaging Second Harmonicâ€“Generated Signals in Rabbit Corneas Treated with Mitomycin C after Excimer Laser Surface Ablation. , 2008, 49, 4377.		25
123	A machine learning framework to analyze hyperspectral stimulated Raman scattering microscopy images of expressed human meibum. Journal of Raman Spectroscopy, 2017, 48, 803-812.	2.5	25
124	[14] Measurement of tissue thickness using confocal microscopy. Methods in Enzymology, 1999, 307, 230-245.	1.0	24
125	Pathology of Ocular Irritation with Acetone, Cyclohexanol, Parafl uoroaniline, and Formaldehyde in the Rabbit Low-Volume Eye Test. Toxicologic Pathology, 2001, 29, 187-199.	1.8	24
126	The Role of Contact Lens Type, Oxygen Transmission, and Care-Related Solutions in Mediating Epithelial Homeostasis and Pseudomonas Binding to Corneal Cells: An Overview. Eye and Contact Lens, 2007, 33, 394-398.	1.6	24

#	Article	IF	Citations
127	Quiescent keratocytes fail to repair MMC induced DNA damage leading to the long-term inhibition of myofibroblast differentiation and wound healing. Molecular Vision, 2012, 18, 1828-39.	1.1	24
128	Effects of Increasing Dk with Rigid Contact Lens Extended Wear on Rabbit Corneal Epithelium Using Confocal Microscopy. Cornea, 1992, 11, 282-287.	1.7	23
129	Assessment of stress fiber orientation during healing of radial keratotomy wounds using confocal microscopy. Scanning, 1998, 20, 74-82.	1.5	23
130	Wakayama Symposium: Peroxisome Proliferator-Activated Receptor-Gamma (PPARÎ³) and Meibomian Gland Dysfunction. Ocular Surface, 2012, 10, 224-229.	4.4	23
131	The Acetylcholine Signaling Network of Corneal Epithelium and Its Role in Regulation of Random and Directional Migration of Corneal Epithelial Cells. Investigative Ophthalmology and Visual Science, 2014, 55, 6921-6933.	3.3	23
132	Quantitative Measurement of Acute Corneal Injury in Rabbits with Surfactants of Different Type and Irritancy. Toxicology and Applied Pharmacology, 1999, 158, 61-70.	2.8	22
133	Role of Oxygen in Corneal Epithelial Homeostasis During Extended Contact Lens Wear. Eye and Contact Lens, 2003, 29, S2-S6.	1.6	22
134	Corneal response to femtosecond laser photodisruption in the rabbit. Experimental Eye Research, 2008, 86, 835-843.	2.6	21
135	Second Harmonic Generation for Visualizing 3-Dimensional Structure of Corneal Collagen Lamellae. Cornea, 2009, 28, S46-S53.	1.7	21
136	Aberrant expression of a Î²-catenin gain-of-function mutant induces hyperplastic transformation in the mouse cornea. Journal of Cell Science, 2010, 123, 1285-1294.	2.0	21
137	Axial mechanical and structural characterization of keratoconus corneas. Experimental Eye Research, 2018, 175, 14-19.	2.6	21
138	Effects of Contact Lens Care Solutions on Surface Exfoliation and Bacterial Binding to Corneal Epithelial Cells1. Eye and Contact Lens, 2003, 29, 27-30.	1.6	20
139	Regulation ofPseudomonas aeruginosaInternalization after Contact Lens Wear In Vivo and in Serum-Free Culture by Ocular Surface Cells. , 2006, 47, 3430.		20
140	In vivo non-linear optical (NLO) imaging in live rabbit eyes using the Heidelberg Two-Photon Laser Ophthalmoscope. Experimental Eye Research, 2010, 91, 308-314.	2.6	20
141	Lessons in Corneal Structure and Mechanics to Guide the Corneal Surgeon. Ophthalmology, 2013, 120, 1715-1717.	5.2	20
142	Origin and Lineage Plasticity of Endogenous Lacrimal Gland Epithelial Stem/Progenitor Cells. IScience, 2020, 23, 101230.	4.1	20
143	ALDH3A1 Plays a Functional Role in Maintenance of Corneal Epithelial Homeostasis. PLoS ONE, 2016, 11, e0146433.	2.5	20
144	Stress Fiber Formation is Required for Matrix Reorganization in a Corneal Myofibroblast Cell Line. Experimental Eye Research, 2001, 72, 455-466.	2.6	19

#	Article	IF	Citations
145	In vivo fluorescent labeling of corneal wound healing fibroblasts. Experimental Eye Research, 2003, 76, 361-371.	2.6	19
146	Measuring depth of injury (DOI) in an isolated rabbit eye irritation test (IRE) using biomarkers of cell death and viability. Toxicology in Vitro, 2010, 24, 597-604.	2.4	19
147	Collagen fiber crimping following in vivo UVA-induced corneal crosslinking. Experimental Eye Research, 2018, 177, 173-180.	2.6	19
148	Nitrogen mustard-induced corneal injury involves the sphingomyelin-ceramide pathway. Ocular Surface, 2018, 16, 154-162.	4.4	18
149	Quantitative Characterization of Acid- and Alkali-Induced Corneal Injury in the Low-Volume Eye Test. Toxicologic Pathology, 2000, 28, 668-678.	1.8	17
150	Organization of Junctional Proteins in Proliferating Cat Corneal Endothelium During Wound Healing. Cornea, 2001, 20, 73-80.	1.7	17
151	Quantitative assessment of ophthalmic viscosurgical device retention using in vivo confocal microscopy. Journal of Cataract and Refractive Surgery, 2005, 31, 2363-2368.	1.5	17
152	Nonlinear optical collagen cross-linking and mechanical stiffening: a possible photodynamic therapeutic approach to treating corneal ectasia. Journal of Biomedical Optics, 2013, 18, 038003.	2.6	17
153	Corneal haze phenotype in Aldh3a1 -null mice: InÂvivo confocal microscopy and tissue imaging mass spectrometry. Chemico-Biological Interactions, 2017, 276, 9-14.	4.0	17
154	Epithelial Migration and Non-adhesive Periderm Are Required for Digit Separation during Mammalian Development. Developmental Cell, 2020, 52, 764-778.e4.	7.0	17
155	Characterization of Quiescent Epithelial Cells in Mouse Meibomian Glands and Hair Follicle/Sebaceous Glands by Immunofluorescence Tomography. Journal of Investigative Dermatology, 2015, 135, 1175-1177.	0.7	16
156	Nonlinear optical corneal collagen crosslinking of ex vivo rabbit eyes. Journal of Cataract and Refractive Surgery, 2016, 42, 1660-1665.	1.5	16
157	Annexin V binding to rabbit corneal epithelial cells following overnight contact lens wear or eyelid closure. The CLAO Journal, 2002, 28, 48-54.	0.3	16
158	Characterization of SV40-Transfected Cell Strains from Rabbit Keratocytes. Cornea, 1997, 16, 72???78.	1.7	15
159	A novel, long-lived, and highly engraftable immunodeficient mouse model of mucopolysaccharidosis type I. Molecular Therapy - Methods and Clinical Development, 2015, 2, 14068.	4.1	14
160	Transcriptome analysis after PPARÎ³ activation in human meibomian gland epithelial cells (hMGEC). Ocular Surface, 2019, 17, 809-816.	4.4	14
161	Quantitative in vivo and ex vivo confocal microscopy analysis of corneal cystine crystals in the Ctns knockout mouse. Molecular Vision, 2011, 17, 2212-20.	1.1	14
162	Transcriptome analysis of aging mouse meibomian glands. Molecular Vision, 2016, 22, 518-27.	1.1	14

#	Article	IF	Citations
163	Recovery Time of Corneal Epithelial Proliferation in the Rabbit Following Rigid Gas-Permeable Extended Contact-Lens Wear. Eye and Contact Lens, 2003, 29, 61-64.	1.6	13
164	Bcl-2 and Bax Regulation of Corneal Homeostasis in Genetically Altered Mice. Eye and Contact Lens, 2006, 32, 3-7.	1.6	13
165	Nonlinear Optical Corneal Crosslinking, Mechanical Stiffening, and Corneal Flattening Using Amplified Femtosecond Pulses. Translational Vision Science and Technology, 2019, 8, 35.	2.2	13
166	Confocal microscopy: Uses in measurement of cellular structure and function. Progress in Retinal and Eye Research, 1995, 14, 527-565.	15.5	12
167	Herpes simplex virus type 1 ICP0 localizes in the stromal layer of infected rabbit corneas and resides predominantly in the cytoplasm and/or perinuclear region of rabbit keratocytes. Journal of General Virology, 2006, 87, 2817-2825.	2.9	12
168	Confocal Microscopic Analysis of a Rabbit Eye Model of High-Incidence Recurrent Herpes Stromal Keratitis. Cornea, 2016, 35, 81-88.	1.7	12
169	Custom built nonlinear optical crosslinking (NLO CXL) device capable of producing mechanical stiffening in ex vivo rabbit corneas. Biomedical Optics Express, 2017, 8, 4788.	2.9	12
170	Cell regulation of collagen fibril macrostructure during corneal morphogenesis. Acta Biomaterialia, 2018, 79, 96-112.	8.3	12
171	Characterization of expressed human meibum using hyperspectral stimulated Raman scattering microscopy. Ocular Surface, 2019, 17, 151-159.	4.4	12
172	Ocular surface alkali injury damages meibomian glands in mice. Ocular Surface, 2017, 15, 713-722.	4.4	11
173	An in vitro depth of injury prediction model for a histopathologic classification of EPA and GHS eye irritants. Toxicology in Vitro, 2019, 61, 104628.	2.4	11
174	Targeted expression of a lumican transgene rescues corneal deficiencies in lumican-null mice. Molecular Vision, 2007, 13, 2012-8.	1.1	11
175	Comparison of Corneal Epithelial Wound Healing Rates in Scrape vs. Lamellar Keratectomy Injury. Cornea, 1990, 9, 294???298.	1.7	10
176	IGF-II and collagen expression by keratocytes during postnatal development. Experimental Eye Research, 2009, 89, 218-223.	2.6	9
177	Light transmission/absorption characteristics of the meibomian gland. Ocular Surface, 2018, 16, 448-453.	4.4	9
178	Recapitulation of normal collagen architecture in embryonic wounded corneas. Scientific Reports, 2020, 10, 13815.	3.3	9
179	Stromal Collagen Arrangement Correlates with Stiffness of the Canine Cornea. Bioengineering, 2020, 7, 4.	3.5	9
180	Characterization of Specular â€œDark Eventsâ€•in Human Donor Corneal Endothelium by Scanning and Transmission Electron Microscopy. Cornea, 1998, 17, 544-549.	1.7	8

#	Article	IF	Citations
181	Cell-independent matrix configuration in early corneal development. Experimental Eye Research, 2019, 187, 107772.	2.6	7
182	Expression of Acyl-CoA wax-alcohol acyltransferase 2 (AWAT2) by human and rabbit meibomian glands and meibocytes. Ocular Surface, 2022, 23, 60-70.	4.4	7
183	A prototype twoâ€detector confocal microscope for in vivo corneal imaging. Scanning, 2002, 24, 163-170.	1.5	6
184	Non-invasive in vivo measurement of the tear film using spatial autocorrelation in a live mammal model. Biomedical Optics Express, 2010, 1, 1127.	2.9	6
185	Enhanced Transepithelial Riboflavin Delivery Using Femtosecond Laser-Machined Epithelial Microchannels. Translational Vision Science and Technology, 2020, 9, 1.	2.2	6
186	Genetic basis of corneal diseases and the role of keratocytes in corneal transparency â€“ a review. Clinical and Experimental Ophthalmology, 2010, 38, 23-33.	2.6	5
187	A microfabricated, optically accessible device to study the effects of mechanical cues on collagen fiber organization. Biomedical Microdevices, 2014, 16, 255-267.	2.8	5
188	Nonlinear optical crosslinking (NLO CXL) for correcting refractive errors. Experimental Eye Research, 2020, 199, 108199.	2.6	5
189	Same-chemical comparison of nonanimal eye irritation test methods: Bovine corneal opacity and permeability, EpiOcularâ„¢, isolated chicken eye, ocular IrritectionÂ®, OptiSafeâ„¢, and short time exposure. Toxicology in Vitro, 2021, 72, 105070.	2.4	5
190	Intraocular Pressure Reduction by Femtosecond Laser Created Trabecular Channels in Perfused Human Anterior Segments. Translational Vision Science and Technology, 2021, 10, 22.	2.2	5
191	Laser and tandem scanning confocal microscopic studies of rabbit corneal wound healing. Scanning, 1994, 16, 263-268.	1.5	4
192	Assessing ocular irritation potential using a modifiedex vivorabbit eye test. Cutaneous and Ocular Toxicology, 2009, 28, 32-36.	1.3	4
193	Can Postlens Tear Thickness be Measured Using Three-Dimensional In Vivo Confocal Microscopy?. Eye and Contact Lens, 2003, 29, S110-S114.	1.6	3
194	High resolution macroscopy (HRMac) of the eye using nonlinear optical imaging. , 2010, , .		3
195	Fast Computation of Tunnels in Corneal Collagen Structure. , 2018, , .		3
196	Modeling the antioxidant properties of the eye reduces the false-positive rate of a nonanimal eye irritation test (OptiSafe). Toxicology in Vitro, 2021, 76, 105208.	2.4	3
197	Immuno Tomography (IT) and Imaging Mass Cytometry (IMC) for constructing spatially resolved, multiplexed 3D IMC data sets. Ocular Surface, 2022, 25, 49-54.	4.4	3
198	Four-Dimensional Multiphoton Confocal Microscopy: The New Frontier in Cellular Imaging. Ocular Surface, 2004, 2, 10-20.	4.4	2

#	Article	IF	Citations
199	A novel transillumination meibography device for in vivo imaging of mouse meibomian glands. Ocular Surface, 2021, 19, 201-209.	4.4	2
200	An Eye on Repair. , 2006, , 118-138.		2
201	Ascorbic acid specifically reduces the misclassification of nonirritating reactive chemicals in the OptiSafeâ„¢ macromolecular eye irritation test. Toxicology in Vitro, 2022, 80, 105313.	2.4	2
202	Femtosecond Laser Trabeculotomy in Perfused Human Cadaver Anterior Segments: A Novel, Noninvasive Approach to Glaucoma Treatment. Translational Vision Science and Technology, 2022, 11, 28.	2.2	2
203	Frontiers of Ocular Surface Regenerative Medicine. Ocular Surface, 2016, 14, 81.	4.4	1
204	Robust segmentation of corneal fibers from noisy images. , 2016, , .		1
205	Special issue on meibomian glands. Experimental Eye Research, 2017, 163, 1.	2.6	0
206	Response to Letter to Editor â€œComments on â€˜Cell regulation of collagen fibril macrostructure during corneal morphogenesisâ€™ by Koudouna et al.â€• Acta Biomaterialia, 2021, 136, 594-595.	8.3	0
207	Refractive Surgical Wound Healing Mechanisms Revisited. , 2004, , 263-271.		0
208	Corneal wound healing following refractive surgery. , 2007, , 19-32.		0
209	Refractive surgery revealed through in vivo confocal microscopy. , 2007, , 33-51.		0
210	Multiphoton Approaches to Studying Ocular Structure and Biomechanics. , 2011, , .		0