Damien G Harkin

List of Publications by Year
in descending order

66 papers	2,169 citations	218592 26 h-index	233338 45 g-index
68 all docs	68 docs citations	68 times ranked	2349 citing authors

#	Article	IF	Citations
1	Human corneal endothelial cell growth on a silk fibroin membrane. Biomaterials, 2011, 32, 4076-4084.	5.7	147
2	Human corneal epithelial equivalents constructed on Bombyx mori silk fibroin membranes. Biomaterials, 2011, 32, 5086-5091.	5.7	136
3	Bombyx moriSilk Fibroin Membranes as Potential Substrata for Epithelial Constructs Used in the Management of Ocular Surface Disorders. Tissue Engineering - Part A, 2008, 14, 1203-1211.	1.6	130
4	Neurotrophin 3 promotes purification and proliferation of olfactory ensheathing cells from human nose. Glia, 2004, 45, 111-123.	2.5	119
5	Silk fibroin in ocular tissue reconstruction. Biomaterials, 2011, 32, 2445-2458.	5.7	114
6	Inherent Risks Associated With Manufacture of Bioengineered Ocular Surface Tissue. JAMA Ophthalmology, 2006, 124, 1734.	2.6	92
7	A dual-layer silk fibroin scaffold for reconstructing the human corneal limbus. Biomaterials, 2012, 33, 3529-3538.	5.7	90
8	Vitronectin: Growth Factor Complexes Hold Potential as a Wound Therapy Approach. Journal of Investigative Dermatology, 2008, 128, 1535-1544.	0.3	80
9	The cultivation of human retinal pigment epithelial cells on Bombyx mori silk fibroin. Biomaterials, 2012, 33, 4110-4117.	5.7	76
10	Concise Reviews: Can Mesenchymal Stromal Cells Differentiate into Corneal Cells? A Systematic Review of Published Data. Stem Cells, 2015, 33, 785-791.	1.4	60
11	Inhibition of C5a-induced neutrophil chemotaxis and macrophage cytokine production in vitro by a new C5a receptor antagonist. Biochemical Pharmacology, 2000, 60, 729-733.	2.0	59
12	Insulin-like Growth Factors (IGF) and IGF-Binding Proteins Bound to Vitronectin Enhance Keratinocyte Protein Synthesis and Migration. Journal of Investigative Dermatology, 2004, 122, 1198-1206.	0.3	59
13	Analysis of p63 and cytokeratin expression in a cultivated limbal autograft used in the treatment of limbal stem cell deficiency. British Journal of Ophthalmology, 2004, 88, 1154-1158.	2.1	55
14	Evaluation of silk sericin as a biomaterial: in vitro growth of human corneal limbal epithelial cells on Bombyx mori sericin membranes. Progress in Biomaterials, 2013, 2, 14.	1.8	47
15	Immunosuppressive properties of mesenchymal stromal cell cultures derived from the limbus of human and rabbit corneas. Cytotherapy, 2014, 16, 64-73.	0.3	46
16	Effects of fibroblast origin and phenotype on the proliferative potential of limbal epithelial progenitor cells. Experimental Eye Research, 2011, 92, 10-19.	1.2	41
17	Responses of keratinocytes to substrate-bound vitronectin:growth factor complexes. Experimental Cell Research, 2005, 305, 221-232.	1.2	37
18	Incorporation of Exogenous RGD Peptide and Inter-Species Blending as Strategies for Enhancing Human Corneal Limbal Epithelial Cell Growth on Bombyx mori Silk Fibroin Membranes. Journal of Functional Biomaterials, 2013, 4, 74-88.	1.8	36

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19	Phenotypic analyses of limbal epithelial cell cultures derived from donor corneoscleral rims. Clinical and Experimental Ophthalmology, 2001, 29, 138-142.	1.3	35
20	Preparation of Cultured Skin for Transplantation Using Insulin-like Growth Factor I in Conjunction with Insulin-like Growth Factor Binding Protein 5, Epidermal Growth Factor, and Vitronectin. Transplantation, 2006, 81, 1668-1676.	0.5	34
21	Treatment of Silk Fibroin with Poly(ethylene glycol) for the Enhancement of Corneal Epithelial Cell Growth. Journal of Functional Biomaterials, 2015, 6, 345-366.	1.8	33
22	PHEMA Hydrogels Modified through the Grafting of Phosphate Groups by ATRP Support the Attachment and Growth of Human Corneal Epithelial Cells. Journal of Biomaterials Applications, 2008, 23, 147-168.	1.2	32
23	Recent advances in the design of artificial corneas. Current Opinion in Ophthalmology, 2014, 25, 240-247.	1.3	32
24	Optimized delivery of skin keratinocytes by aerosolization and suspension in fibrin tissue adhesive. Wound Repair and Regeneration, 2006, 14, 354-363.	1.5	31
25	A Bruch's membrane substitute fabricated from silk fibroin supports the function of retinal pigment epithelial cells in vitro. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1915-1924.	1.3	31
26	Effects of electroporation on the tubulin cytoskeleton and directed migration of corneal fibroblasts cultured within collagen matrices. , 1996, 35, 345-357.		30
27	Evaluation of methods for cultivating limbal mesenchymal stromal cells. Cytotherapy, 2012, 14, 936-947.	0.3	30
28	Effect of the sterilization method on the properties of Bombyx mori silk fibroin films. Materials Science and Engineering C, 2013, 33, 668-674.	3.8	29
29	Characterization of Human iPSC-RPE on a Prosthetic Bruch's Membrane Manufactured From Silk Fibroin. , 2018, 59, 2792.		28
30	Laser Doppler imaging in a paediatric burns population. Burns, 2009, 35, 824-831.	1.1	27
31	Serial explant culture provides novel insights into the potential location and phenotype of corneal endothelial progenitor cells. Experimental Eye Research, 2014, 127, 9-13.	1.2	25
32	Nature and incidence of severe limbal stem cell deficiency in Australia and New Zealand. Clinical and Experimental Ophthalmology, 2017, 45, 174-181.	1.3	25
33	The current state of stem cell therapy for ocular disease. Experimental Eye Research, 2018, 177, 65-75.	1.2	24
34	Assessment of freestanding membranes prepared from Antheraea pernyi silk fibroin as a potential vehicle for corneal epithelial cell transplantation. Biomedical Materials (Bristol), 2014, 9, 025016.	1.7	20
35	Silk as Substratum for Cell Attachment and Proliferation. Materials Science Forum, 2007, 561-565, 1549-1552.	0.3	19
36	Vitronectin supports migratory responses of corneal epithelial cells to substrate bound IGF-I and HGF, and facilitates serum-free cultivation. Experimental Eye Research, 2006, 83, 1505-1514.	1.2	18

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37	Mathematical Modelling of Aerosolised Skin Grafts Incorporating Keratinocyte Clonal Subtypes. Bulletin of Mathematical Biology, 2007, 69, 157-179.	0.9	17
38	Chemotaxis of polymorphonuclear leukocytes towards human pre-ovulatory follicular fluid and serum using a â€˜sparse-poreâ€™ polycarbonate filtration membrane. Journal of Reproductive Immunology, 1994, 27, 151-155.	0.8	16
39	Imaging of renal medullary interstitial cells in situ by confocal fluorescence microscopy. Anatomy and Embryology, 1999, 200, 117-121.	1.5	15
40	Optimization of silk fibroin membranes for retinal implantation. Materials Science and Engineering C, 2019, 105, 110131.	3.8	15
41	Silk fibroin in ocular surface reconstruction: what is its potential as a biomaterial in ophthalmics?. Future Medicinal Chemistry, 2012, 4, 2145-2147.	1.1	14
42	Current status and future prospects for cultured limbal tissue transplants in <scp>A</scp>ustralia and <scp>N</scp>ew <scp>Z</scp>ealand. Clinical and Experimental Ophthalmology, 2013, 41, 272-281.	1.3	14
43	GABAergic Agents Modify the Response of Chick Scleral Fibroblasts to Myopic and Hyperopic Eye Cup Tissues. Current Eye Research, 2014, 39, 172-187.	0.7	13
44	Incorporation of Human Recombinant Tropoelastin into Silk Fibroin Membranes with the View to Repairing Bruchâ€™s Membrane. Journal of Functional Biomaterials, 2015, 6, 946-962.	1.8	13
45	Discovery and characterization of IGFBP-mediated endocytosis in the human retinal pigment epithelial cell line ARPE-19. Experimental Eye Research, 2009, 89, 629-637.	1.2	12
46	Evaluation of the AlgerBrush II rotating burr as a tool for inducing ocular surface failure in the New Zealand White rabbit. Experimental Eye Research, 2016, 147, 1-11.	1.2	12
47	Evaluation of Eph receptor and ephrin expression within the human cornea and limbus. Experimental Eye Research, 2013, 107, 110-120.	1.2	10
48	Comparative effects of posterior eye cup tissues from myopic and hyperopic chick eyes on cultured scleral fibroblasts. Experimental Eye Research, 2013, 107, 11-20.	1.2	10
49	Fabrication of a Corneal-Limbal Tissue Substitute Using Silk Fibroin. Methods in Molecular Biology, 2013, 1014, 165-178.	0.4	10
50	Mounting of Biomaterials for Use in Ophthalmic Cell Therapies. Cell Transplantation, 2017, 26, 1717-1732.	1.2	9
51	Demonstration of P-selectin expression and potential function in human corneal epithelial cells. Experimental Eye Research, 2018, 176, 196-206.	1.2	8
52	Optimization of Corneal Epithelial Progenitor Cell Growth onBombyx moriSilk Fibroin Membranes. Stem Cells International, 2016, 2016, 1-11.	1.2	7
53	A potential role for Eph receptor signalling during migration of corneal endothelial cells. Experimental Eye Research, 2018, 170, 92-100.	1.2	7
54	Neutrophil polarisation in plasma differs to that induced by endogenous chemoattractants with regard to frequency of uropod formation and requirement for divalent cations.. Cell Biology International, 1994, 18, 177-188.	1.4	6

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55	Isolation of microvascular endothelial cells from cadaveric corneal limbus. Experimental Eye Research, 2015, 131, 20-28.	1.2	5
56	Comparison of techniques for the assessment of polymorphonuclear leukocyte polarisation in suspension. Biology of the Cell, 1993, 79, 251-257.	0.7	4
57	A novel approach to studying the migratory morphology of embryonic mesenchymal cells. Biology of the Cell, 2000, 92, 537-543.	0.7	4
58	Cultivation of corneal endothelial cells from sheep. Experimental Eye Research, 2018, 173, 24-31.	1.2	4
59	The Impact of Limbal Mesenchymal Stromal Cells on Healing of Acute Ocular Surface Wounds Is Improved by Pre-cultivation and Implantation in the Presence of Limbal Epithelial Cells. Cell Transplantation, 2019, 28, 1257-1270.	1.2	4
60	Stromal cells cultivated from the choroid of human eyes display a mesenchymal stromal cell (MSC) phenotype and inhibit the proliferation of choroidal vascular endothelial cells in vitro. Experimental Eye Research, 2020, 200, 108201.	1.2	4
61	Labelâ€free imaging of the kinetics of roundâ€shaped immune cells in the human cornea using in vivo confocal microscopy. Clinical and Experimental Ophthalmology, 2021, 49, 628-630.	1.3	4
62	Growth of Human and Sheep Corneal Endothelial Cell Layers on Biomaterial Membranes. Journal of Visualized Experiments, 2020, , .	0.2	3
63	Bombyx moriSilk Fibroin Membranes as Potential Substrata for Epithelial Constructs Used in the Management of Ocular Surface Disorders. Tissue Engineering - Part A, 2008, .	1.6	1
64	Membranes Prepared from Recombinant RGD-Silk Fibroin as Substrates for Human Corneal Cells. Molecules, 2021, 26, 6810.	1.7	1
65	Exploring the potential for mergers and strategic partnerships within the Australian higher education system through the application of Value Nets. Journal of Higher Education Policy and Management, 2020, 42, 458-477.	1.5	0
66	Effect of Rho-Associated Protein Kinase Inhibitors on Epidermal Keratinocytes: A Proposed Application for Burn Wound Healing. Tissue Engineering - Part B: Reviews, 2021, , .	2.5	0