

Yau Kei Chan

List of Publications by Year in descending order

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papers

814
citations

623734

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h-index

610901

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all docs

54
docs citations

54
times ranked

812
citing authors

#	ARTICLE	IF	CITATIONS
1	All-Aqueous Electro sprayed Emulsion for Templated Fabrication of Cytocompatible Microcapsules. ACS Applied Materials & Interfaces, 2015, 7, 13925-13933.	8.0	105
2	Infection Micromilieu-Activated Nanocatalytic Membrane for Orchestrating Rapid Sterilization and Stalled Chronic Wound Regeneration. Advanced Functional Materials, 2022, 32, 2109469.	14.9	51
3	Phase-Induced Formation of Janus Droplets Based on Aqueous Two-Phase Systems. Macromolecular Chemistry and Physics, 2017, 218, 1600422.	2.2	41
4	Emulsification of Silicone Oil and Eye Movements. , 2011, 52, 9721.		39
5	Silicone oil in vitreoretinal surgery: indications, complications, new developments and alternative long-term tamponade agents. Acta Ophthalmologica, 2021, 99, 240-250.	1.1	37
6	Experimental modeling of cornea wound healing in diabetes: clinical applications and beyond. BMJ Open Diabetes Research and Care, 2019, 7, e000779.	2.8	36
7	In Vitro Modeling of Emulsification of Silicone Oil as Intraocular Tamponade Using Microengineered Eye-on-a-Chip. , 2015, 56, 3314.		32
8	Quantifying silicone oil emulsification in patients: are we only seeing the tip of the iceberg?. Graefes Archive for Clinical and Experimental Ophthalmology, 2015, 253, 1671-1675.	1.9	30
9	On-Demand Droplet Collection for Capturing Single Cells. Small, 2020, 16, e1902889.	10.0	29
10	Photo-Activated Nanofibrous Membrane with Self-Rechargeable Antibacterial Function for Stubborn Infected Cutaneous Regeneration. Small, 2022, 18, e2105988.	10.0	26
11	Bimetal metal-organic framework domino micro-reactor for synergistic antibacterial starvation/chemodynamic therapy and robust wound healing. Nanoscale, 2022, 14, 2052-2064.	5.6	25
12	Adhesion of silicone oil and emulsification: an <i>in vitro</i> assessment using a microfluidic device and "Eye-on-a-Chip"™. Acta Ophthalmologica, 2019, 97, 313-318.	1.1	23
13	Therapeutic Strategies for Attenuation of Retinal Ganglion Cell Injury in Optic Neuropathies: Concepts in Translational Research and Therapeutic Implications. BioMed Research International, 2019, 1-10.	1.9	21
14	An in vitro pressure model towards studying the response of primary retinal ganglion cells to elevated hydrostatic pressures. Scientific Reports, 2019, 9, 9057.	3.3	20
15	Factors Influencing the Shear Rate Acting on Silicone Oil to Cause Silicone Oil Emulsification. , 2014, 55, 7451.		19
16	Laws of physics help explain capillary non-perfusion in diabetic retinopathy. Eye, 2018, 32, 210-212.	2.1	19
17	Virtual reality and augmented reality" emerging screening and diagnostic techniques in ophthalmology: A systematic review. Survey of Ophthalmology, 2022, 67, 1516-1530.	4.0	18
18	Combined Phacoemulsification and Goniosynechialysis under an Endoscope for Chronic Primary Angle-Closure Glaucoma. Journal of Ophthalmology, 2018, 2018, 1-7.	1.3	16

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19	Hierarchical ZnO Nanotube/Graphene Oxide Nanostructures Endow Pure Zn Implant with Synergistic Bactericidal Activity and Osteogenicity. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 19377-19385.	3.7	16
20	Heterostructured Metal-Organic Frameworks/Polydopamine Coating Endows Polyetheretherketone Implants with Multimodal Osteogenicity and Photoswitchable Disinfection. <i>Advanced Healthcare Materials</i> , 2022, 11, e2200641.	7.6	15
21	Eye-on-a-chip (EOC) models and their role in the future of ophthalmic drug discovery. <i>Expert Review of Ophthalmology</i> , 2020, 15, 259-261.	0.6	13
22	What Is the Cause of Toxicity of Silicone Oil?. <i>Materials</i> , 2022, 15, 269.	2.9	13
23	Flow Behavior of Heavy Silicone Oil During Eye Movements. <i>Investigative Ophthalmology and Visual Science</i> , 2014, 55, 8453-8457.	3.3	12
24	A Low-Molecular-Weight Oil Cleaner For Removal of Leftover Silicone Oil Intraocular Tamponade. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 1014-1022.	3.3	12
25	Towards better characterization and quantification of emulsification of silicone oil <i>in vitro</i> . <i>Acta Ophthalmologica</i> , 2017, 95, e385-e392.	1.1	12
26	Development of emulsification resistant heavier-than-water tamponades using high molecular weight silicone oil polymers. <i>Journal of Biomaterials Applications</i> , 2015, 30, 212-220.	2.4	11
27	Intraocular currents, Bernoulli's principle and non-drainage scleral buckling for rhegmatogenous retinal detachment. <i>Eye</i> , 2018, 32, 213-221.	2.1	11
28	A systematic review on advances in diagnostics for herpes simplex keratitis. <i>Survey of Ophthalmology</i> , 2021, 66, 514-530.	4.0	10
29	Amphiphilic additives in silicone oil tamponade and emulsification: an eye-on-a-chip study. <i>Acta Ophthalmologica</i> , 2020, 98, e232-e237.	1.1	9
30	The anti-scarring role of Lycium barbarum polysaccharide on cornea epithelial-stromal injury. <i>Experimental Eye Research</i> , 2021, 211, 108747.	2.6	9
31	A Systematic Review on Cornea Epithelial-Stromal Homeostasis. <i>Ophthalmic Research</i> , 2021, 64, 178-191.	1.9	8
32	Prospective Study on Ex-PRESS Implantation Combined with Phacoemulsification in Primary Angle-Closure Glaucoma Coexisting Cataract: 3-Year Results. <i>Current Eye Research</i> , 2018, 43, 1045-1051.	1.5	7
33	Current and Future Perspectives on Microfluidic Tear Analytic Devices. <i>ACS Sensors</i> , 2022, 7, 1300-1314.	7.8	7
34	Lycium barbarum polysaccharide promotes corneal Re-epithelialization after alkaline injury. <i>Experimental Eye Research</i> , 2022, 221, 109151.	2.6	7
35	In vitro experiment to elucidate the mechanism of the "soft shell technique" for preventing subretinal migration of perfluoro-octane. <i>British Journal of Ophthalmology</i> , 2017, 101, bjophthalmol-2016-309856.	3.9	6
36	A perfluorobutylpentane (F4H5)-based solution for the removal of residual emulsified silicone oil. <i>Acta Ophthalmologica</i> , 2018, 96, e38-e45.	1.1	6

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37	Improved Dry Eye Symptoms and Signs of Patients With Meibomian Gland Dysfunction by a Dietary Supplement. <i>Frontiers in Medicine</i> , 2021, 8, 769132.	2.6	6
38	Scaffold-Free Strategy Using a PEG-Dextran Aqueous Two-Phase-System for Corneal Tissue Repair. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1987-1999.	5.2	6
39	Changes in circumpapillary retinal vessel density after acute primary angle closure episode via OCT angiography. <i>International Ophthalmology</i> , 2021, 41, 2389-2397.	1.4	5
40	All-Aqueous Thin-Film-Flow-Induced Cell-Based Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22869-22877.	8.0	4
41	A systematic review of multimodal clinical biomarkers in the management of thyroid eye disease. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2022, 23, 541-567.	5.7	4
42	Combined Phacoemulsification With Goniosynechialysis Under Ophthalmic Endoscope for Primary Angle-closure Glaucoma After Failed Trabeculectomy. <i>Journal of Glaucoma</i> , 2020, 29, 941-947.	1.6	3
43	Long term outcomes of cataract surgery in severe and end stage primary angle closure glaucoma with controlled IOP: a retrospective study. <i>BMC Ophthalmology</i> , 2020, 20, 160.	1.4	3
44	Ciliochoroidal detachment after Ahmed glaucoma valve implantation: a retrospective study. <i>BMC Ophthalmology</i> , 2019, 19, 46.	1.4	2
45	Comment on "Safety of silicone oils as intraocular medical device: An in vitro cytotoxicity study" by M. R. Romano et al. (<i>Exp. Eye Res.</i> Vol 194, May 2020, 108018). <i>Experimental Eye Research</i> , 2020, 195, 108032.	2.6	2
46	An in vitro study of subretinal perfluorocarbon liquid (PFCL) droplets and the physics of their retention and evacuation. <i>Acta Ophthalmologica</i> , 2021, 99, e1517-e1523.	1.1	2
47	Macromol. Chem. Phys. 2/2017. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, .	2.2	1
48	Evaluation of Two Different Anterior Vitrectomies for Fluid Misdirection Syndrome Secondary to Cataract Surgery Combined with Goniosynechialysis. <i>Journal of Ophthalmology</i> , 2020, 2020, 1-7.	1.3	1
49	Correspondence. <i>Retinal Cases and Brief Reports</i> , 2022, 16, 1-2.	0.6	1
50	A Systematic Review of Emerging Therapeutic Strategies in the Management of Chemical Injuries of the Ocular Surface. <i>Eye and Contact Lens</i> , 2020, 46, 329-340.	1.6	1
51	Optical coherence tomography angiography of the macular microcirculation in acute primary angle closure treated with phacoemulsification. <i>International Ophthalmology</i> , 2022, 42, 1781-1788.	1.4	1
52	Silicone Tube Miniature Drainage Device Implanted under Scleral Flap for the Surgical Treatment of Glaucoma. <i>Current Eye Research</i> , 2020, 45, 820-826.	1.5	0
53	Comment on "Fluid viscosity but not surface tension, determines the tamponade effect of intravitreal fluids in a novel in vitro eye model of retinal detachment" by A. Friehmann et al. (<i>J. Mech. Behav.</i>) Tj ETQq1 1 0.784314 rgBT ₀ /Overlook 104128.	3.1	0