Jean-Marie Parel

List of Publications by Year
in descending order

72 papers	1,664 citations	394421 19 h-index	377865 34 g-index
72 all docs	72 docs citations	72 times ranked	1412 citing authors

#	Article	IF	Citations
1	Visual photosensitivity threshold and objective photosensitivity luminance in healthy human eyes assessed using an automated ocular photosensitivity analyser: a step towards translation of a clinical tool for assessing photophobia. Ophthalmic and Physiological Optics, 2022, 42, 311-318.	2.0	2
2	Rose Bengal and Riboflavin Mediated Photodynamic Antimicrobial Therapy Against Selected South Florida Nocardia Keratitis Isolates. Translational Vision Science and Technology, 2022, 11, 29.	2.2	6
3	Temperature affects the biomechanical response of in vitro non-human primate lenses during lens stretching. Experimental Eye Research, 2022, 216, 108951.	2.6	0
4	Nocardia keratitis: amikacin nonsusceptibility, risk factors, and treatment outcomes. Journal of Ophthalmic Inflammation and Infection, 2022, 12, 11.	2.2	3
5	Predictability of pseudophakic refraction using patient-customized paraxial eye models. Journal of Cataract and Refractive Surgery, 2022, Publish Ahead of Print, .	1.5	0
6	UV-Photokeratitis Associated with Germicidal Lamps Purchased during the COVID-19 Pandemic. Ocular Immunology and Inflammation, 2021, 29, 76-80.	1.8	19
7	Validating the use of a stereoscopic robotized teleophthalmic drone slit lamp. Canadian Journal of Ophthalmology, 2021, 56, 191-196.	0.7	3
8	Conjunctival Findings in Patients With Coronavirus Disease 2019. JAMA Ophthalmology, 2021, 139, 254.	2.5	1
9	Age-Dependence of the Peripheral Defocus of the Isolated Human Crystalline Lens. , 2021, 62, 15.		4
10	Rose Bengal Photodynamic Antimicrobial Therapy: A Pilot Safety Study. Cornea, 2021, 40, 1036-1043.	1.7	12
11	Interactions between staphylococcal enterotoxins A and D and superantigen-like proteins 1 and 5 for predicting methicillin and multidrug resistance profiles among Staphylococcus aureus ocular isolates. PLoS ONE, 2021, 16, e0254519.	2.5	6
12	Combined anterior segment OCT and wavefront-based autorefractor using a shared beam. Biomedical Optics Express, 2021, 12, 6746.	2.9	5
13	Measuring the effects of postmortem time and age on mouse lens elasticity using atomic force microscopy. Experimental Eye Research, 2021, 212, 108768.	2.6	1
14	Detection of singlet oxygen luminescence for experimental corneal rose bengal photodynamic antimicrobial therapy. Biomedical Optics Express, 2021, 12, 272.	2.9	11
15	Rose bengal photodynamic antimicrobial therapy to inhibit Pseudomonas aeruginosa keratitis isolates. Lasers in Medical Science, 2020, 35, 861-866.	2.1	19
16	Photodynamic Therapy for Infectious Keratitis. Current Ophthalmology Reports, 2020, 8, 245-251.	1.2	3
17	Reply to Comment on: Rose Bengal Photodynamic Antimicrobial Therapy for Patients With ProgressiveÂInfectious Keratitis: A Pilot Clinical Study. American Journal of Ophthalmology, 2020, 214, 198-200.	3.3	1
18	Electroretinogram Recording for Infants and Children under Anesthesia to Achieve Optimal Dark Adaptation and International Standards. Journal of Visualized Experiments, 2020, , .	0.3	0

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19	Rose Bengal Photodynamic Antimicrobial Therapy for Patients With Progressive Infectious Keratitis: A Pilot Clinical Study. American Journal of Ophthalmology, 2019, 208, 387-396.	3.3	59
20	Cellular and molecular assessment of rose bengal photodynamic antimicrobial therapy on keratocytes, corneal endothelium and limbal stem cell niche. Experimental Eye Research, 2019, 188, 107808.	2.6	19
21	Operational immune tolerance towards transplanted allogeneic pancreatic islets in mice and a non-human primate. Diabetologia, 2019, 62, 811-821.	6.3	13
22	Long-term outcomes of riboflavin photodynamic antimicrobial therapy as a treatment for infectious keratitis. American Journal of Ophthalmology Case Reports, 2019, 15, 100481.	0.7	6
23	Molecular epidemiology and resistance profiles among healthcare- and community-associated Staphylococcus aureus keratitis isolates . Infection and Drug Resistance, 2019, Volume 12, 831-843.	2.7	24
24	Variations in intraocular lens injector dimensions and corneal incision architecture after cataract surgery. Journal of Cataract and Refractive Surgery, 2019, 45, 656-661.	1.5	13
25	In vivo measurement of the human crystalline lens equivalent refractive index using extended-depth OCT. Biomedical Optics Express, 2019, 10, 411.	2.9	20
26	Antimycotic Efficacy and Safety of a New Cold Corneal Storage Medium by Timeâ€“Kill and Toxicity Studies. Cornea, 2019, 38, 1314-1321.	1.7	11
27	Off-axis optical coherence tomography imaging of the crystalline lens to reconstruct the gradient refractive index using optical methods. Biomedical Optics Express, 2019, 10, 3622.	2.9	3
28	Peripheral Defocus of the Monkey Crystalline Lens With Accommodation in a Lens Stretcher. , 2018, 59, 2177.		3
29	Human Corneal Changes After Rose Bengal Photodynamic Antimicrobial Therapy for Treatment of Fungal Keratitis. Cornea, 2018, 37, e46-e48.	1.7	20
30	System for on- and off-axis volumetric OCT imaging and ray tracing aberrometry of the crystalline lens. Biomedical Optics Express, 2018, 9, 3834.	2.9	10
31	Variability of manual ciliary muscle segmentation in optical coherence tomography images. Biomedical Optics Express, 2018, 9, 791.	2.9	8
32	Long-term outcomes of the aphakic snap-on Boston type I keratoprosthesis at the Bascom Palmer Eye Institute. Clinical Ophthalmology, 2018, Volume 12, 331-337.	1.8	7
33	The development of a microâ€shunt made from poly(styreneâ€blockâ€isobutyleneâ€blockâ€styrene) to treat glaucoma. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 211-221.	3.4	93
34	Inhibition of Proliferation and Epithelial Mesenchymal Transition in Retinal Pigment Epithelial Cells by Heavy Chain-Hyaluronan/Pentraxin 3. Scientific Reports, 2017, 7, 43736.	3.3	45
35	Rose Bengal Photodynamic Antimicrobial Therapy: A Novel Treatment for Resistant Fusarium Keratitis. Cornea, 2017, 36, 1141-1144.	1.7	60
36	Assessment of eye length changes in accommodation using dynamic extended-depth OCT. Biomedical Optics Express, 2017, 8, 2709.	2.9	6

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37	Nonhuman Primate Ocular Biometry. , 2016, 57, 105.		23
38	Quantification of the ciliary muscle and crystalline lens interaction during accommodation with synchronous OCT imaging. Biomedical Optics Express, 2016, 7, 1351.	2.9	30
39	Rose Bengalâ€“ and Riboflavin-Mediated Photodynamic Therapy to Inhibit Methicillin-Resistant Staphylococcus aureus Keratitis Isolates. American Journal of Ophthalmology, 2016, 166, 194-202.	3.3	59
40	InÂVivo Porcine Model of Venous Air Embolism During Pars Plana Vitrectomy. American Journal of Ophthalmology, 2016, 171, 139-144.	3.3	13
41	The use of poly(styrene-block-isobutylene-block-styrene) as a microshunt to treat glaucoma. International Journal of Energy Production and Management, 2016, 3, 137-142.	3.7	52
42	Calculation of crystalline lens power using a modification of the Bennett method. Biomedical Optics Express, 2015, 6, 4501.	2.9	14
43	Calculation of Ophthalmic Viscoelastic Device-Induced Focus Shift During Femtosecond Laser-Assisted Cataract Surgery. Investigative Ophthalmology and Visual Science, 2015, 56, 1222-1227.	3.3	10
44	Changes in Monkey Crystalline Lens Spherical Aberration During Simulated Accommodation in a Lens Stretcher. Investigative Ophthalmology and Visual Science, 2015, 56, 1743-1750.	3.3	8
45	The Zonules Selectively Alter the Shape of the Lens During Accommodation Based on the Location of Their Anchorage Points. Investigative Ophthalmology and Visual Science, 2015, 56, 1751-1760.	3.3	16
46	Measurement of Crystalline Lens Volume During Accommodation in a Lens Stretcher. , 2015, 56, 4239.		16
47	Extended-depth spectral-domain opticalÂcoherence tomography imaging ofÂtheÂcrystalline lens in Weill-Marchesani-like syndrome. JCRS Online Case Reports, 2014, 2, 92-95.	0.2	4
48	Use of Intraocular Videoendoscopic Examination in the Preoperative Evaluation of Keratoprosthesis Surgery to Assess Visual Potential. American Journal of Ophthalmology, 2014, 158, 80-86.e2.	3.3	22
49	Assessment of Rose Bengal Versus Riboflavin Photodynamic Therapy for Inhibition of Fungal Keratitis Isolates. American Journal of Ophthalmology, 2014, 158, 64-70.e2.	3.3	91
50	Evaluating In Vivo Delivery of Riboflavin With Coulomb-Controlled Iontophoresis for Corneal Collagen Cross-Linking: A Pilot Study. , 2014, 55, 2731.		32
51	Primate lens capsule elasticity assessed using Atomic Force Microscopy. Experimental Eye Research, 2011, 92, 490-494.	2.6	43
52	Contribution of the crystalline lens gradient refractive index to the accommodation amplitude in non-human primates: In vitro studies. Journal of Vision, 2011, 11, 23-23.	0.3	27
53	Age-dependence of the optomechanical responses of ex vivo human lenses from India and the USA, and the force required to produce these in a lens stretcher: The similarity to in vivo disaccommodation. Vision Research, 2011, 51, 1667-1678.	1.4	37
54	Age-dependent Fourier model of the shape of the isolated ex vivo human crystalline lens. Vision Research, 2010, 50, 1041-1047.	1.4	29

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55	Refractive Power and Biometric Properties of the Nonhuman Primate Isolated Crystalline Lens. , 2010, 51, 2118.		15
56	Distortions of the posterior surface in optical coherence tomography images of the isolated crystalline lens: effect of the lens index gradient. Biomedical Optics Express, 2010, 1, 1331.	2.9	37
57	Effect of Anterior Zonule Transection on the Change in Lens Diameter and Power in Cynomolgus Monkeys during Simulated Accommodation. , 2009, 50, 4017.		18
58	Biomechanical analysis of the accommodative apparatus in primates. Australasian journal of optometry, The, 2008, 91, 302-312.	1.3	24
59	Refractive index measurement of the isolated crystalline lens using optical coherence tomography. Vision Research, 2008, 48, 2732-2738.	1.4	118
60	Role of the Lens Capsule on the Mechanical Accommodative Response in a Lens Stretcher. , 2008, 49, 4490.		30
61	Optomechanical Response of Human and Monkey Lenses in a Lens Stretcher. , 2007, 48, 3260.		67
62	Assessment of the strength of minicapsulorhexes. Journal of Cataract and Refractive Surgery, 2006, 32, 1366-1373.	1.5	4
63	In vitro dimensions and curvatures of human lenses. Vision Research, 2006, 46, 1002-1009.	1.4	121
64	Noncontact Optical Measurement of Lens Capsule Thickness in Human, Monkey, and Rabbit Postmortem Eyes. , 2005, 46, 1690.		29
65	Intravitreal acetylsalicylic acid in silicone oil: pharmacokinetics and evaluation of its safety by ERG and histology. , 2001, 239, 208-216.		8
66	Scleral and episcleral histological changes related to encircling explants in 20 eyes. Acta Ophthalmologica, 1999, 77, 279-285.	0.3	16
67	Small peripheral anterior continuous curvilinear capsulohexis. Journal of Cataract and Refractive Surgery, 1999, 25, 744-747.	1.5	13
68	Poly(?-hydroxyacids) for application in the spinal cord: Resorbability and biocompatibility with adult rat Schwann cells and spinal cord. , 1998, 42, 642-654.		102
69	Poly(Î±â€hydroxyacids) for application in the spinal cord: Resorbability and biocompatibility with adult rat Schwann cells and spinal cord. Journal of Biomedical Materials Research Part B, 1998, 42, 642-654.	3.1	8
70	Photodynamic therapy for ocular tumors. Journal of Photochemistry and Photobiology B: Biology, 1991, 9, 119-122.	3.8	7
71	Design features and surgical use of a cannulated extrusion needle. Graefe's Archive for Clinical and Experimental Ophthalmology, 1989, 227, 304-308.	1.9	3
72	Improving the slit-lamp Goldmann Tonometer. American Journal of Ophthalmology, 1977, 84, 430.	3.3	2