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	In vitro dimensions and curvatures of human lenses. Vision Research, 2006, 46, 1002-1009.	1.4	121
2	Refractive index measurement of the isolated crystalline lens using optical coherence tomography. Vision Research, 2008, 48, 2732-2738.	1.4	118
3	Poly(?-hydroxyacids) for application in the spinal cord: Resorbability and biocompatibility with adult rat Schwann cells and spinal cord. , 1998, 42, 642-654.		102
4	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
5	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
6	Optomechanical Response of Human and Monkey Lenses in a Lens Stretcher. , 2007, 48, 3260.		67
7	Rose Bengal Photodynamic Antimicrobial Therapy: A Novel Treatment for Resistant Fusarium Keratitis. Cornea, 2017, 36, 1141-1144.	1.7	60
8	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
9	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
10	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
11	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
12	Primate lens capsule elasticity assessed using Atomic Force Microscopy. Experimental Eye Research, 2011, 92, 490-494.	2.6	43
13	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
14	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
15	Evaluating In Vivo Delivery of Riboflavin With Coulomb-Controlled Iontophoresis for Corneal Collagen Cross-Linking: A Pilot Study. , 2014, 55, 2731.		32
16	Role of the Lens Capsule on the Mechanical Accommodative Response in a Lens Stretcher. , 2008, 49, 4490.		30
17	Quantification of the ciliary muscle and crystalline lens interaction during accommodation with synchronous OCT imaging. Biomedical Optics Express, 2016, 7, 1351.	2.9	30
18	Noncontact Optical Measurement of Lens Capsule Thickness in Human, Monkey, and Rabbit Postmortem Eyes. , 2005, 46, 1690.		29

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19	Age-dependent Fourier model of the shape of the isolated ex vivo human crystalline lens. Vision Research, 2010, 50, 1041-1047.	1.4	29
20	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
21	Biomechanical analysis of the accommodative apparatus in primates. Australasian journal of optometry, The, 2008, 91, 302-312.	1.3	24
22	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
23	Nonhuman Primate Ocular Biometry. , 2016, 57, 105.		23
24	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
25	Human Corneal Changes After Rose Bengal Photodynamic Antimicrobial Therapy for Treatment of Fungal Keratitis. Cornea, 2018, 37, e46-e48.	1.7	20
26	In vivo measurement of the human crystalline lens equivalent refractive index using extended-depth OCT. Biomedical Optics Express, 2019, 10, 411.	2.9	20
27	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
28	Rose bengal photodynamic antimicrobial therapy to inhibit Pseudomonas aeruginosa keratitis isolates. Lasers in Medical Science, 2020, 35, 861-866.	2.1	19
29	UV-Photokeratitis Associated with Germicidal Lamps Purchased during the COVID-19 Pandemic. Ocular Immunology and Inflammation, 2021, 29, 76-80.	1.8	19
30	Effect of Anterior Zonule Transection on the Change in Lens Diameter and Power in Cynomolgus Monkeys during Simulated Accommodation. , 2009, 50, 4017.		18
31	Scleral and episcleral histological changes related to encircling explants in 20 eyes. Acta Ophthalmologica, 1999, 77, 279-285.	0.3	16
32	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
33	Measurement of Crystalline Lens Volume During Accommodation in a Lens Stretcher. , 2015, 56, 4239.		16
34	Refractive Power and Biometric Properties of the Nonhuman Primate Isolated Crystalline Lens. , 2010, 51, 2118.		15
35	Calculation of crystalline lens power using a modification of the Bennett method. Biomedical Optics Express, 2015, 6, 4501.	2.9	14
36	Small peripheral anterior continuous curvilinear capsulohexis. Journal of Cataract and Refractive Surgery, 1999, 25, 744-747.	1.5	13

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37	InÂVivo Porcine Model of Venous Air Embolism During Pars Plana Vitrectomy. American Journal of Ophthalmology, 2016, 171, 139-144.	3.3	13
38	Operational immune tolerance towards transplanted allogeneic pancreatic islets in mice and a non-human primate. Diabetologia, 2019, 62, 811-821.	6.3	13
39	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
40	Rose Bengal Photodynamic Antimicrobial Therapy: A Pilot Safety Study. Cornea, 2021, 40, 1036-1043.	1.7	12
41	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
42	Detection of singlet oxygen luminescence for experimental corneal rose bengal photodynamic antimicrobial therapy. Biomedical Optics Express, 2021, 12, 272.	2.9	11
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	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
45	Intravitreal acetylsalicylic acid in silicone oil: pharmacokinetics and evaluation of its safety by ERG and histology. , 2001, 239, 208-216.		8
46	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
47	Variability of manual ciliary muscle segmentation in optical coherence tomography images. Biomedical Optics Express, 2018, 9, 791.	2.9	8
48	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
49	Photodynamic therapy for ocular tumors. Journal of Photochemistry and Photobiology B: Biology, 1991, 9, 119-122.	3.8	7
50	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
51	Assessment of eye length changes in accommodation using dynamic extended-depth OCT. Biomedical Optics Express, 2017, 8, 2709.	2.9	6
52	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
53	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
54	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

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55	Combined anterior segment OCT and wavefront-based autorefractor using a shared beam. Biomedical Optics Express, 2021, 12, 6746.	2.9	5
56	Assessment of the strength of minicapsulorhexes. Journal of Cataract and Refractive Surgery, 2006, 32, 1366-1373.	1.5	4
57	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
58	Age-Dependence of the Peripheral Defocus of the Isolated Human Crystalline Lens. , 2021, 62, 15.		4
59	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
60	Peripheral Defocus of the Monkey Crystalline Lens With Accommodation in a Lens Stretcher. , 2018, 59, 2177.		3
61	Photodynamic Therapy for Infectious Keratitis. Current Ophthalmology Reports, 2020, 8, 245-251.	1.2	3
62	Validating the use of a stereoscopic robotized teleophthalmic drone slit lamp. Canadian Journal of Ophthalmology, 2021, 56, 191-196.	0.7	3
63	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
64	Nocardia keratitis: amikacin nonsusceptibility, risk factors, and treatment outcomes. Journal of Ophthalmic Inflammation and Infection, 2022, 12, 11.	2.2	3
65	Improving the slit-lamp Goldmann Tonometer. American Journal of Ophthalmology, 1977, 84, 430.	3.3	2
66	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
67	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
68	Conjunctival Findings in Patients With Coronavirus Disease 2019. JAMA Ophthalmology, 2021, 139, 254.	2.5	1
69	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
70	Electroretinogram Recording for Infants and Children under Anesthesia to Achieve Optimal Dark Adaptation and International Standards. Journal of Visualized Experiments, 2020, , .	0.3	0
71	Temperature affects the biomechanical response of in vitro non-human primate lenses during lens stretching. Experimental Eye Research, 2022, 216, 108951.	2.6	0
72	Predictability of pseudophakic refraction using patient-customized paraxial eye models. Journal of Cataract and Refractive Surgery, 2022, Publish Ahead of Print, .	1.5	0