

Pierre Lachapelle

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

2,235
citations

27
h-index

44
g-index

92
ext. papers

2,454
ext. citations

3.6
avg, IF

4.43
L-index

#	Paper	IF	Citations
89	The succinate receptor GPR91 in neurons has a major role in retinal angiogenesis. <i>Nature Medicine</i> , 2008 , 14, 1067-76	50.5	267
88	Intraocular gene transfer of ciliary neurotrophic factor prevents death and increases responsiveness of rod photoreceptors in the retinal degeneration slow mouse. <i>Journal of Neuroscience</i> , 1998 , 18, 9282-93	6.6	195
87	Retinopathy of prematurity: understanding ischemic retinal vasculopathies at an extreme of life. <i>Journal of Clinical Investigation</i> , 2010 , 120, 3022-32	15.9	171
86	Augmented vasoconstriction and thromboxane formation by 15-F(2t)-isoprostane (8-iso-prostaglandin F(2alpha)) in immature pig periventricular brain microvessels. <i>Stroke</i> , 2000 , 31, 516-24; discussion 525	6.7	68
85	Redox-dependent effects of nitric oxide on microvascular integrity in oxygen-induced retinopathy. <i>Free Radical Biology and Medicine</i> , 2004 , 37, 1885-94	7.8	54
84	Understanding ischemic retinopathies: emerging concepts from oxygen-induced retinopathy. <i>Documenta Ophthalmologica</i> , 2010 , 120, 51-60	2.2	52
83	Reproducibility of electroretinograms recorded with DTL electrodes. <i>Documenta Ophthalmologica</i> , 1995 , 91, 333-42	2.2	51
82	Correlating retinal function with melatonin secretion in subjects with an early or late circadian phase. <i>Investigative Ophthalmology and Visual Science</i> , 2002 , 43, 2491-9		50
81	Choroidal involution is a key component of oxygen-induced retinopathy 2011 , 52, 6238-48		49
80	Neuroprotection in the juvenile rat model of light-induced retinopathy: evidence suggesting a role for FGF-2 and CNTF. <i>Investigative Ophthalmology and Visual Science</i> , 2007 , 48, 2311-20		46
79	Electrophysiological evidence suggesting a seasonal modulation of retinal sensitivity in subsyndromal winter depression. <i>Journal of Affective Disorders</i> , 2002 , 68, 191-202	6.6	46
78	The photopic ERG luminance-response function (photopic hill): method of analysis and clinical application. <i>Vision Research</i> , 2003 , 43, 1405-12	2.1	43
77	Light-induced retinopathy: comparing adult and juvenile rats. <i>Investigative Ophthalmology and Visual Science</i> , 2006 , 47, 3202-12		42
76	Cone-dominated ERG luminance-response function: the Photopic Hill revisited. <i>Documenta Ophthalmologica</i> , 2002 , 104, 231-48	2.2	42
75	Comparing the photopic ERG i-wave in different species. <i>Veterinary Ophthalmology</i> , 2004 , 7, 189-92	1.4	38
74	A novel mechanism for vasoconstrictor action of 8-isoprostaglandin F2 alpha on retinal vessels. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998 , 274, R1406-16 ³⁻²		38
73	Early manifestations of postnatal hyperoxia on the retinal structure and function of the neonatal rat. <i>Investigative Ophthalmology and Visual Science</i> , 2008 , 49, 458-66		37

72	Advance in ERG analysis: from peak time and amplitude to frequency, power, and energy. <i>BioMed Research International</i> , 2014 , 2014, 246096	3	35
71	Reproducibility of ERG responses obtained with the DTL electrode. <i>Vision Research</i> , 1999 , 39, 1069-70	2.1	35
70	Differences in Retinal Structure and Function between Aging Male and Female Sprague-Dawley Rats are Strongly Influenced by the Estrus Cycle. <i>PLoS ONE</i> , 2015 , 10, e0136056	3.7	35
69	Choroidal Involution Is Associated with a Progressive Degeneration of the Outer Retinal Function in a Model of Retinopathy of Prematurity: Early Role for IL-1. <i>American Journal of Pathology</i> , 2016 , 186, 3100-3116	5.8	33
68	Evidence for a brief period of enhanced oxygen susceptibility in the rat model of oxygen-induced retinopathy. <i>Investigative Ophthalmology and Visual Science</i> , 2002 , 43, 2481-90		30
67	Functional decomposition of the human ERG based on the discrete wavelet transform. <i>Journal of Vision</i> , 2015 , 15, 14	0.4	29
66	Complete deficiency of methylenetetrahydrofolate reductase in mice is associated with impaired retinal function and variable mortality, hematological profiles, and reproductive outcomes. <i>Journal of Inherited Metabolic Disease</i> , 2011 , 34, 147-57	5.4	29
65	Evidence supportive of a functional discrimination between photopic oscillatory potentials as revealed with cone and rod mediated retinopathies. <i>Documenta Ophthalmologica</i> , 1998 , 95, 35-54	2.2	29
64	Immunohistochemical evidence of synaptic retraction, cytoarchitectural remodeling, and cell death in the inner retina of the rat model of oxygen-induced retinopathy (OIR) 2011 , 52, 1693-708		28
63	Persistent functional and structural retinal anomalies in newborn rats exposed to hyperoxia. <i>Canadian Journal of Physiology and Pharmacology</i> , 1999 , 77, 48-55	2.4	28
62	Dark adaptation is faster in pigmented than albino rats. <i>Documenta Ophthalmologica</i> , 2003 , 106, 153-9	2.2	27
61	Recording the oscillatory potentials of the electroretinogram with the DTL electrode. <i>Documenta Ophthalmologica</i> , 1993 , 83, 119-30	2.2	27
60	Evidence for an intensity-coding oscillatory potential in the human electroretinogram. <i>Vision Research</i> , 1991 , 31, 767-74	2.1	26
59	Maturation of the electroretinogram of the neonatal rabbit. <i>Documenta Ophthalmologica</i> , 1988 , 69, 237-45		24
58	The electroretinogram in Stargardt's disease and fundus flavimaculatus. <i>Documenta Ophthalmologica</i> , 1989 , 73, 395-404	2.2	23
57	The human suprathreshold photopic oscillatory potentials: method of analysis and clinical application. <i>Documenta Ophthalmologica</i> , 1994 , 88, 1-25	2.2	22
56	ISCEV extended protocol for the stimulus-response series for light-adapted full-field ERG. <i>Documenta Ophthalmologica</i> , 2019 , 138, 205-215	2.2	20
55	Diurnal and Nocturnal Visual Function in Two Tactile Foraging Waterbirds: The American White Ibis and the Black Skimmer. <i>Condor</i> , 1997 , 99, 191-200	2.1	20

54	Evidence of a possible impact of the menstrual cycle on the reproducibility of scotopic ERGs in women. <i>Documenta Ophthalmologica</i> , 2007 , 114, 125-34	2.2	19
53	Circadian light sensitivity and rate of retinal dark adaptation in indoor and outdoor workers. <i>Journal of Biological Rhythms</i> , 2007 , 22, 454-7	3.2	19
52	Functional and structural changes resulting from strain differences in the rat model of oxygen-induced retinopathy 2009 , 50, 2436-50		18
51	Structural and functional consequences of trolox C treatment in the rat model of postnatal hyperoxia. <i>Investigative Ophthalmology and Visual Science</i> , 2006 , 47, 1101-8		18
50	The electroretinogram recorded at the onset of dark-adaptation: understanding the origin of the scotopic oscillatory potentials. <i>Documenta Ophthalmologica</i> , 1999 , 99, 135-50	2.2	17
49	The effect of 2-amino-4-phosphonobutyric acid on the oscillatory potentials of the electroretinogram. <i>Documenta Ophthalmologica</i> , 1990 , 75, 125-33	2.2	17
48	Modulation of the human photopic ERG luminance-response function with the use of chromatic stimuli. <i>Vision Research</i> , 2005 , 45, 2321-30	2.1	16
47	Components of the electroretinogram: a reappraisal. <i>Documenta Ophthalmologica</i> , 1986 , 63, 337-48	2.2	16
46	The oscillatory potentials in response to stimuli of photopic intensities delivered in dark-adaptation: an explanation for the conditioning flash effect. <i>Vision Research</i> , 1990 , 30, 503-13	2.1	15
45	Visual Impairments Following Term Neonatal Encephalopathy: Do Retinal Impairments Also Play a Role? 2015 , 56, 5182-93		14
44	The photopic ERG of the albino guinea pig (<i>Cavia porcellus</i>): a model of the human photopic ERG. <i>Documenta Ophthalmologica</i> , 2005 , 110, 67-77	2.2	14
43	Light adaptation of the human photopic oscillatory potentials: influence of the length of the dark adaptation period. <i>Documenta Ophthalmologica</i> , 1995 , 89, 267-76	2.2	14
42	Strain Differences in Light-Induced Retinopathy. <i>PLoS ONE</i> , 2016 , 11, e0158082	3.7	14
41	Witnessing the first sign of retinitis pigmentosa onset in the allegedly normal eye of a case of unilateral RP: a 30-year follow-up. <i>Documenta Ophthalmologica</i> , 2016 , 132, 213-29	2.2	14
40	A new speculum electrode for electroretinography. <i>Journal of Neuroscience Methods</i> , 1990 , 32, 245-9	3	13
39	Quantifying the ON and OFF Contributions to the Flash ERG with the Discrete Wavelet Transform. <i>Translational Vision Science and Technology</i> , 2017 , 6, 3	3.3	12
38	A longitudinal study of retinopathy in the PEX1-Gly844Asp mouse model for mild Zellweger Spectrum Disorder. <i>Experimental Eye Research</i> , 2019 , 186, 107713	3.7	12
37	Assessing the Contribution of the Oscillatory Potentials to the Genesis of the Photopic ERG with the Discrete Wavelet Transform. <i>BioMed Research International</i> , 2016 , 2016, 2790194	3	12

36	Structural and functional maturation of the retina of the albino Hartley guinea pig. <i>Documenta Ophthalmologica</i> , 2008 , 117, 13-26	2.2	11
35	A physiological basis for definition of the ISCEV ERG standard flash (SF) based on the photopic hill. <i>Documenta Ophthalmologica</i> , 2001 , 102, 157-62	2.2	11
34	Oscillatory potentials as predictors to amplitude and peak time of the photopic b-wave of the human electroretinogram. <i>Documenta Ophthalmologica</i> , 1990 , 75, 73-82	2.2	11
33	Visual evoked potentials and reaction time measurements to motion-reversal luminance- and texture-defined stimuli. <i>Documenta Ophthalmologica</i> , 2005 , 110, 163-72	2.2	10
32	Human strabismus: evaluation of the interhemispheric transmission time and hemiretinal differences using a reaction time task. <i>Behavioural Brain Research</i> , 1994 , 62, 63-70	3-4	9
31	Modulation of ERG retinal sensitivity parameters with light environment and photoperiod. <i>Documenta Ophthalmologica</i> , 2009 , 118, 89-99	2.2	8
30	Asymmetrical growth of the photopic hill during the light adaptation effect. <i>Documenta Ophthalmologica</i> , 2010 , 121, 177-87	2.2	8
29	Structural and functional consequences of bright light exposure on the retina of neonatal rats. <i>Documenta Ophthalmologica</i> , 2006 , 113, 93-103	2.2	8
28	Spontaneous occurrence of a potentially night blinding disorder in guinea pigs. <i>Documenta Ophthalmologica</i> , 2003 , 107, 59-69	2.2	8
27	Light-Induced Retinopathy: Young Age Protects more than Ocular Pigmentation. <i>Current Eye Research</i> , 2017 , 42, 924-935	2.9	7
26	Can interocular pattern reversal visual evoked potential and motor reaction time differences distinguish anisometropic from strabismic amblyopia?. <i>Acta Ophthalmologica</i> , 1999 , 77, 40-4		7
25	The effect of in vivo retinal cooling on the electroretinogram of the rabbit. <i>Vision Research</i> , 1996 , 36, 339-44	2.1	7
24	Comparative effects of luminance and scatter on the pattern visual evoked potential and eye-hand reaction time. <i>Documenta Ophthalmologica</i> , 1992 , 79, 177-85	2.2	7
23	The effects of bandpass filtering on the oscillatory potentials of the electroretinogram. <i>Documenta Ophthalmologica</i> , 2019 , 138, 247-254	2.2	6
22	Transient enhancing of cone electroretinograms following exposure to brighter photopic backgrounds. <i>Vision Research</i> , 2000 , 40, 1013-8	2.1	6
21	Response characteristics of the normal retino-cortical pathways as determined with simultaneous recordings of pattern visual evoked potentials and simple motor reaction times. <i>Vision Research</i> , 2001 , 41, 1085-90	2.1	6
20	Interpretation of the filtered 100- to 1000-Hz electroretinogram. <i>Documenta Ophthalmologica</i> , 1994 , 86, 33-46	2.2	6
19	Electroretinographic evidence suggesting that the type 2 diabetic retinopathy of the sand rat <i>Psammomys obesus</i> is comparable to that of humans. <i>PLoS ONE</i> , 2018 , 13, e0192400	3-7	5

18	Retinotopic Distribution of Structural and Functional Damages following Bright Light Exposure of Juvenile Rats. <i>PLoS ONE</i> , 2016 , 11, e0146979	3.7	5
17	mutant mice recapitulate neurological and ophthalmological abnormalities associated with 22q11 and CEDNIK syndrome. <i>Communications Biology</i> , 2019 , 2, 375	6.7	4
16	Aortic coarctation and the retinal microvasculature. <i>International Journal of Cardiology</i> , 2014 , 174, 25-30	3.2	4
15	Sildenafil Improves Functional and Structural Outcome of Retinal Injury Following Term Neonatal Hypoxia-Ischemia 2016 , 57, 4306-14		4
14	AAV-mediated gene augmentation improves visual function in the PEX1-Gly844Asp mouse model for mild Zellweger spectrum disorder. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021 , 23, 225-240	6.4	3
13	Revealing a retinal facilitatory effect with the multifocal ERG. <i>Documenta Ophthalmologica</i> , 2019 , 138, 117-124	2.2	2
12	The DTL ERG electrode comes in different shapes and sizes: Are they all good?. <i>Documenta Ophthalmologica</i> , 2017 , 135, 155-164	2.2	2
11	Modulations of collicular visual responses by acoustic stimuli in rabbits. <i>Neuroscience Research</i> , 1987 , 4, 385-95	2.9	2
10	Evidences Suggesting that Distinct Immunological and Cellular Responses to Light Damage Distinguishes Juvenile and Adult Rat Retinas. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	1
9	Longitudinal assessment of retinal structure and function reveals a rod-cone degeneration in a guinea pig model initially presented as night blind. <i>Documenta Ophthalmologica</i> , 2011 , 123, 1-19	2.2	1
8	Evaluation of the Contrast Sensitivity Function in Patients with Intermittent Exotropia. <i>American Orthoptic Journal</i> , 1991 , 41, 77-80		1
7	Organic visual loss measured by kinetic perimetry and retinal electrophysiology in children with functional amblyopia. <i>Documenta Ophthalmologica</i> , 2021 , 143, 1-16	2.2	1
6	Evaluating the neuroprotective effect of 17 β -Estradiol in rodent models of oxidative retinopathies. <i>Documenta Ophthalmologica</i> , 2018 , 137, 151-168	2.2	1
5	Ring analysis of multifocal oscillatory potentials (mfOPs) in cCSNB suggests near-normal ON-OFF pathways at the fovea only. <i>Documenta Ophthalmologica</i> , 2020 , 141, 99-109	2.2	0
4	Distinguishing Familial from Acquired Traits in the Retinal Blood Vessel Arborization. <i>Translational Vision Science and Technology</i> , 2020 , 9, 27	3.3	0
3	Recording and Analysis of the Human Clinical Electroretinogram. <i>Methods in Molecular Biology</i> , 2018 , 1715, 313-325	1.4	0
2	Functional alterations of retinal neurons and vascular involvement progress simultaneously in the Psammomys obesus model of diabetic retinopathy. <i>Journal of Comparative Neurology</i> , 2021 , 529, 2620-2635	2.4	0
1	Acknowledgement to scientific referees 2020. <i>Documenta Ophthalmologica</i> , 2021 , 142, 1-3	2.2	0

