Pierre Lachapelle

List of Publications by Year
in descending order

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89	2,694	218381	223531
papers	citations	26 h-index	46 g-index

92	92	92	2688
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The succinate receptor GPR91 in neurons has a major role in retinal angiogenesis. Nature Medicine, 2008, 14, 1067-1076.	15.2	317
2	Retinopathy of prematurity: understanding ischemic retinal vasculopathies at an extreme of life. Journal of Clinical Investigation, 2010, 120, 3022-3032.	3.9	213
3	Intraocular Gene Transfer of Ciliary Neurotrophic Factor Prevents Death and Increases Responsiveness of Rod Photoreceptors in theretinal degeneration slowmouse. Journal of Neuroscience, 1998, 18, 9282-9293.	1.7	208
4	Augmented Vasoconstriction and Thromboxane Formation by 15-F2t-Isoprostane (8-Iso-Prostaglandin) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.0	72
5	Understanding ischemic retinopathies: emerging concepts from oxygen-induced retinopathy. Documenta Ophthalmologica, 2010, 120, 51-60.	1.0	66
6	Redox-dependent effects of nitric oxide on microvascular integrity in oxygen-induced retinopathy. Free Radical Biology and Medicine, 2004, 37, 1885-1894.	1.3	64
7	Choroidal Involution Is a Key Component of Oxygen-Induced Retinopathy. , 2011, 52, 6238.		64
8	Electrophysiological evidence suggesting a seasonal modulation of retinal sensitivity in subsyndromal winter depression. Journal of Affective Disorders, 2002, 68, 191-202.	2.0	56
9	Reproducibility of electroretinograms recorded with DTL electrodes. Documenta Ophthalmologica, 1995, 91, 333-342.	1.0	55
10	A novel mechanism for vasoconstrictor action of 8-isoprostaglandin F2Î± on retinal vessels. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 274, R1406-R1416.	0.9	53
11	Neuroprotection in the Juvenile Rat Model of Light-Induced Retinopathy: Evidence Suggesting a Role for FGF-2 and CNTF. , 2007, 48, 2311.		53
12	Correlating retinal function with melatonin secretion in subjects with an early or late circadian phase. Investigative Ophthalmology and Visual Science, 2002, 43, 2491-9.	3.3	52
13	Differences in Retinal Structure and Function between Aging Male and Female Sprague-Dawley Rats are Strongly Influenced by the Estrus Cycle. PLoS ONE, 2015, 10, e0136056.	1.1	51
14	Cone-dominated ERG luminance-response function: the Photopic Hill revisited. Documenta Ophthalmologica, 2002, 104, 231-248.	1.0	49
15	Advance in ERG Analysis: From Peak Time and Amplitude to Frequency, Power, and Energy. BioMed Research International, 2014, 2014, 1-11.	0.9	49
16	The photopic ERG luminance-response function (photopic hill): method of analysis and clinical application. Vision Research, 2003, 43, 1405-1412.	0.7	48
17	Light-Induced Retinopathy: Comparing Adult and Juvenile Rats. , 2006, 47, 3202.		47
18	Choroidal Involution Is Associated with a Progressive Degeneration of the Outer Retinal Function in a Model of Retinopathy of Prematurity. American Journal of Pathology, 2016, 186, 3100-3116.	1.9	47

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19	Early Manifestations of Postnatal Hyperoxia on the Retinal Structure and Function of the Neonatal Rat. , 2008, 49, 458.		46
20	Comparing the photopic ERG i-wave in different species. Veterinary Ophthalmology, 2004, 7, 189-192.	0.6	43
21	Reproducibility of ERG responses obtained with the DTL electrode. Vision Research, 1999, 39, 1069-1070.	0.7	39
22	Dark adaptation is faster in pigmented than albino rats. Documenta Ophthalmologica, 2003, 106, 153-159.	1.0	39
23	Functional decomposition of the human ERG based on the discrete wavelet transform. Journal of Vision, 2015, 15, 14.	0.1	36
24	Evidence supportive of a functional discrimination between photopic oscillatory potentials as revealed with cone and rod mediated retinopathies. Documenta Ophthalmologica, 1998, 95, 35-54.	1.0	35
25	ISCEV extended protocol for the stimulusâ€“response series for light-adapted full-field ERG. Documenta Ophthalmologica, 2019, 138, 205-215.	1.0	34
26	Complete deficiency of methylenetetrahydrofolate reductase in mice is associated with impaired retinal function and variable mortality, hematological profiles, and reproductive outcomes. Journal of Inherited Metabolic Disease, 2011, 34, 147-157.	1.7	31
27	Persistent functional and structural retinal anomalies in newborn rats exposed to hyperoxia. Canadian Journal of Physiology and Pharmacology, 1999, 77, 48-55.	0.7	30
28	Immunohistochemical Evidence of Synaptic Retraction, Cytoarchitectural Remodeling, and Cell Death in the Inner Retina of the Rat Model of Oygen-Induced Retinopathy (OIR). , 2011, 52, 1693.		30
29	Evidence for a brief period of enhanced oxygen susceptibility in the rat model of oxygen-induced retinopathy. Investigative Ophthalmology and Visual Science, 2002, 43, 2481-90.	3.3	30
30	Recording the oscillatory potentials of the electroretinogram with the DTL electrode. Documenta Ophthalmologica, 1993, 83, 119-130.	1.0	28
31	Evidence for an intensity-coding oscillatory potential in the human electroretinogram. Vision Research, 1991, 31, 767-774.	0.7	27
32	The human suprathreshold photopic oscillatory potentials: Method of analysis and clinical application. Documenta Ophthalmologica, 1994, 88, 1-25.	1.0	27
33	Evidence of a possible impact of the menstrual cycle on the reproducibility of scotopic ERGs in women. Documenta Ophthalmologica, 2007, 114, 125-134.	1.0	27
34	Functional and Structural Changes Resulting from Strain Differences in the Rat Model of Oxygen-Induced Retinopathy. , 2009, 50, 2436.		27
35	The electroretinogram in Stargardt's disease and fundus flavimaculatus. Documenta Ophthalmologica, 1989, 73, 395-404.	1.0	26
36	Maturation of the electroretinogram of the neonatal rabbit. Documenta Ophthalmologica, 1988, 69, 237-245.	1.0	25

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37	Diurnal and Nocturnal Visual Function in Two Tactile Foraging Waterbirds: The American White Ibis and the Black Skimmer. Condor, 1997, 99, 191-200.	0.7	25
38	Circadian Light Sensitivity and Rate of Retinal Dark Adaptation in Indoor and Outdoor Workers. Journal of Biological Rhythms, 2007, 22, 454-457.	1.4	24
39	Structural and Functional Consequences of Trolox C Treatment in the Rat Model of Postnatal Hyperoxia. , 2006, 47, 1101.		21
40	Strain Differences in Light-Induced Retinopathy. PLoS ONE, 2016, 11, e0158082.	1.1	21
41	Quantifying the ON and OFF Contributions to the Flash ERG with the Discrete Wavelet Transform. Translational Vision Science and Technology, 2017, 6, 3.	1.1	21
42	Visual Impairments Following Term Neonatal Encephalopathy: Do Retinal Impairments Also Play a Role?. , 2015, 56, 5182.		20
43	The effect of 2-amino-4-phosphonobutyric acid on the oscillatory potentials of the electroretinogram. Documenta Ophthalmologica, 1990, 75, 125-133.	1.0	19
44	Assessing the Contribution of the Oscillatory Potentials to the Genesis of the Photopic ERG with the Discrete Wavelet Transform. BioMed Research International, 2016, 2016, 1-12.	0.9	19
45	A longitudinal study of retinopathy in the PEX1-Gly844Asp mouse model for mild Zellweger Spectrum Disorder. Experimental Eye Research, 2019, 186, 107713.	1.2	19
46	Components of the electroretinogram: a reappraisal. Documenta Ophthalmologica, 1986, 63, 337-48.	1.0	18
47	The electroretinogram recorded at the onset of dark-adaptation: understanding the origin of the scotopic oscillatory potentials. , 1999, 99, 135-150.		18
48	The Photopic ERG of the Albino Guinea Pig (Cavia porcellus): A Model of the Human Photopic ERG. Documenta Ophthalmologica, 2005, 110, 67-77.	1.0	18
49	Modulation of the human photopic ERG luminance-response function with the use of chromatic stimuli. Vision Research, 2005, 45, 2321-2330.	0.7	18
50	The oscillatory potentials in response to stimuli of photopic intensities delivered in dark-adaptation: An explanation for the conditioning flash effect. Vision Research, 1990, 30, 503-513.	0.7	17
51	Witnessing the first sign of retinitis pigmentosa onset in the allegedly normal eye of a case of unilateral RP: a 30-year follow-up. Documenta Ophthalmologica, 2016, 132, 213-229.	1.0	15
52	A new speculum electrode for electroretinography. Journal of Neuroscience Methods, 1990, 32, 245-249.	1.3	14
53	Light adaptation of the human photopic oscillatory potentials: Influence of the length of the dark adaptation period. Documenta Ophthalmologica, 1995, 89, 267-276.	1.0	14
54	A physiological basis for definition of the ISCEV ERG standard flash (SF) based on the photopic hill. Documenta Ophthalmologica, 2001, 102, 157-162.	1.0	14

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55	Oscillatory potentials as predictors to amplitude and peak time of the photopic b-wave of the human electroretinogram. Documenta Ophthalmologica, 1990, 75, 73-82.	1.0	13
56	Structural and functional maturation of the retina of the albino Hartley guinea pig. Documenta Ophthalmologica, 2008, 117, 13-26.	1.0	12
57	Can interocular pattern reversal visual evoked potential and motor reaction time differences distinguish anisometropic from strabismic amblyopia?. Acta Ophthalmologica, 1999, 77, 40-44.	0.4	10
58	Visual Evoked Potentials and Reaction Time Measurements to Motion-reversal Luminance- and Texture-defined Stimuli. Documenta Ophthalmologica, 2005, 110, 163-172.	1.0	10
59	Asymmetrical growth of the photopic hill during the light adaptation effect. Documenta Ophthalmologica, 2010, 121, 177-187.	1.0	10
60	Snap29 mutant mice recapitulate neurological and ophthalmological abnormalities associated with 22q11 and CEDNIK syndrome. Communications Biology, 2019, 2, 375.	2.0	10
61	The effects of bandpass filtering on the oscillatory potentials of the electroretinogram. Documenta Ophthalmologica, 2019, 138, 247-254.	1.0	10
62	Human strabismus: Evaluation of the interhemispheric transmission time and hemiretinal differences using a reaction time task. Behavioural Brain Research, 1994, 62, 63-70.	1.2	9
63	Modulation of ERG retinal sensitivity parameters with light environment and photoperiod. Documenta Ophthalmologica, 2009, 118, 89-99.	1.0	9
64	Sildenafil Improves Functional and Structural Outcome of Retinal Injury Following Term Neonatal Hypoxia-Ischemia. , 2016, 57, 4306.		9
65	Light-Induced Retinopathy: Young Age Protects more than Ocular Pigmentation. Current Eye Research, 2017, 42, 924-935.	0.7	9
66	AAV-mediated PEX1 gene augmentation improves visual function in the PEX1-Gly844Asp mouse model for mild Zellweger spectrum disorder. Molecular Therapy - Methods and Clinical Development, 2021, 23, 225-240.	1.8	9
67	Interpretation of the filtered 100- to 1000-Hz electroretinogram. Documenta Ophthalmologica, 1994, 86, 33-46.	1.0	8
68	The effect of in vivo retinal cooling on the electroretinogram of the rabbit. Vision Research, 1996, 36, 339-344.	0.7	8
69	Spontaneous occurrence of a potentially night blinding disorder in guinea pigs. Documenta Ophthalmologica, 2003, 107, 59-69.	1.0	8
70	Structural and functional consequences of bright light exposure on the retina of neonatal rats. Documenta Ophthalmologica, 2006, 113, 93-103.	1.0	8
71	Comparative effects of luminance and scatter on the pattern visual evoked potential and eye-hand reaction time. Documenta Ophthalmologica, 1992, 79, 177-185.	1.0	7
72	Transient enhancing of cone electroretinograms following exposure to brighter photopic backgrounds. Vision Research, 2000, 40, 1013-1018.	0.7	6

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73	Response characteristics of the normal retino-cortical pathways as determined with simultaneous recordings of pattern visual evoked potentials and simple motor reaction times. Vision Research, 2001, 41, 1085-1090.	0.7	6
74	Retinotopic Distribution of Structural and Functional Damages following Bright Light Exposure of Juvenile Rats. PLoS ONE, 2016, 11, e0146979.	1.1	6
75	Aortic coarctation and the retinal microvasculature. International Journal of Cardiology, 2014, 174, 25-30.	0.8	5
76	Electroretinographic evidence suggesting that the type 2 diabetic retinopathy of the sand rat Psammomys obesus is comparable to that of humans. PLoS ONE, 2018, 13, e0192400.	1.1	5
77	The DTL ERG electrode comes in different shapes and sizes: Are they all good?. Documenta Ophthalmologica, 2017, 135, 155-164.	1.0	4
78	Ring analysis of multifocal oscillatory potentials (mfOPs) in cCSNB suggests near-normal ONâ€“OFF pathways at the fovea only. Documenta Ophthalmologica, 2020, 141, 99-109.	1.0	4
79	Revealing a retinal facilitatory effect with the multifocal ERG. Documenta Ophthalmologica, 2019, 138, 117-124.	1.0	3
80	Functional alterations of retinal neurons and vascular involvement progress simultaneously in the <scp> Psammomys obesus </scp> model of diabetic retinopathy. Journal of Comparative Neurology, 2021, 529, 2620-2635.	0.9	3
81	Modulations of collicular visual responses by acoustic stimuli in rabbits. Neuroscience Research, 1987, 4, 385-395.	1.0	2
82	Recording and Analysis of the Human Clinical Electroretinogram. Methods in Molecular Biology, 2018, 1715, 313-325.	0.4	2
83	Evaluating the neuroprotective effect of 17Î²-estradiol in rodent models of oxidative retinopathies. Documenta Ophthalmologica, 2018, 137, 151-168.	1.0	2
84	Evidences Suggesting that Distinct Immunological and Cellular Responses to Light Damage Distinguishes Juvenile and Adult Rat Retinas. International Journal of Molecular Sciences, 2019, 20, 2744.	1.8	2
85	Organic visual loss measured by kinetic perimetry and retinal electrophysiology in children with functional amblyopia. Documenta Ophthalmologica, 2021, 143, 1-16.	1.0	2
86	Evaluation of the Contrast Sensitivity Function in Patients with Intermittent Exotropia. American Orthoptic Journal, 1991, 41, 77-80.	0.3	1
87	Longitudinal assessment of retinal structure and function reveals a rod-cone degeneration in a guinea pig model initially presented as night blind. Documenta Ophthalmologica, 2011, 123, 1-19.	1.0	1
88	Distinguishing Familial from Acquired Traits in the Retinal Blood Vessel Arborization. Translational Vision Science and Technology, 2020, 9, 27.	1.1	1
89	Acknowledgement to scientific referees 2020. Documenta Ophthalmologica, 2021, 142, 1-3.	1.0	1