Maurice Ptito

List of Publications by Year
in descending order

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157 papers	5,652 citations	101543 36 h-index	106344 65 g-index
160 all docs	160 docs citations	160 times ranked	4750 citing authors

#	Article	IF	Citations
1	The functional characterization of callosal connections. Progress in Neurobiology, 2022, 208, 102186.	5.7	28
2	Spatial navigation with horizontally spatialized sounds in early and late blind individuals. PLoS ONE, 2021, 16, e0247448.	2.5	10
3	Brain-Machine Interfaces to Assist the Blind. Frontiers in Human Neuroscience, 2021, 15, 638887.	2.0	19
4	Blindness and the Reliability of Downwards Sensors to Avoid Obstacles: A Study with the EyeCane. Sensors, 2021, 21, 2700.	3.8	7
5	Presence of the Endocannabinoid System in the Inferior Pulvinar of the Vervet Monkey. Brain Sciences, 2021, 11, 770.	2.3	2
6	A quantitative analysis of the retinofugal projections in congenital and late-onset blindness. NeuroImage: Clinical, 2021, 32, 102809.	2.7	10
7	The Inhibition of the Degrading Enzyme Fatty Acid Amide Hydrolase Alters the Activity of the Cone System in the Vervet Monkey Retina. Brain Sciences, 2021, 11, 1418.	2.3	0
8	The Vertical and Horizontal Pathways in the Monkey Retina Are Modulated by Typical and Atypical Cannabinoid Receptors. Cells, 2021, 10, 3160.	4.1	4
9	The Retina: A Window into the Brain. Cells, 2021, 10, 3269.	4.1	14
10	The sensory-deprived brain as a unique tool to understand brain development and function. Neuroscience and Biobehavioral Reviews, 2020, 108, 78-82.	6.1	14
11	Organization of the commissural fiber system in congenital and late-onset blindness. NeuroImage: Clinical, 2020, 25, 102133.	2.7	14
12	Transient receptor potential vanilloid type 1 is expressed in the horizontal pathway of the vervet monkey retina. Scientific Reports, 2020, 10, 12116.	3.3	11
13	Spatial Competence and Brain Plasticity in Congenital Blindness via Sensory Substitution Devices. Frontiers in Neuroscience, 2020, 14, 815.	2.8	18
14	Neural Networks Mediating Perceptual Learning in Congenital Blindness. Scientific Reports, 2020, 10, 495.	3.3	10
15	Differences in Frontal Network Anatomy Across Primate Species. Journal of Neuroscience, 2020, 40, 2094-2107.	3.6	37
16	Axon morphology is modulated by the local environment and impacts the noninvasive investigation of its structureâ€“function relationship. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 33649-33659.	7.1	53
17	Rapid eye movements are reduced in blind individuals. Journal of Sleep Research, 2019, 28, e12866.	3.2	10
18	A thalamocortical pathway for fast rerouting of tactile information to occipital cortex in congenital blindness. Nature Communications, 2019, 10, 5154.	12.8	33

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19	Effects of glucagon-like peptide 1 analogs on alcohol intake in alcohol-preferring vervet monkeys. Psychopharmacology, 2019, 236, 603-611.	3.1	36
20	Sleep structure in blindness is influenced by circadian desynchrony. Journal of Sleep Research, 2018, 27, 120-128.	3.2	8
21	The Multisensory Blind Brain. , 2018, , 111-136.		5
22	Sensory Substitution and the Neural Correlates of Navigation in Blindness. , 2018, , 167-200.		64
23	Preserved sleep microstructure in blind individuals. Sleep Medicine, 2018, 42, 21-30.	1.6	8
24	Introductory Chapter: Primates - What the Monkey Brain Tells the Human Brain. , 2018, , .		0
25	Retinal structure and function in monkeys with fetal alcohol exposure. Experimental Eye Research, 2018, 177, 55-64.	2.6	10
26	Impact of Global Mean Normalization on Regional Glucose Metabolism in the Human Brain. Neural Plasticity, 2018, 2018, 1-16.	2.2	7
27	Expression and localization of CB1R, NAPE-PLD, and FAAH in the vervet monkey nucleus accumbens. Scientific Reports, 2018, 8, 8689.	3.3	9
28	Short parietal lobe connections of the human and monkey brain. Cortex, 2017, 97, 339-357.	2.4	74
29	Effects of Prenatal Alcohol Exposure on the Visual System of Monkeys Measured at Different Stages of Development. , 2017, 58, 6282.		2
30	Thalamocortical Connectivity and Microstructural Changes in Congenital and Late Blindness. Neural Plasticity, 2017, 2017, 1-11.	2.2	31
31	A Comparative Analysis of the Endocannabinoid System in the Retina of Mice, Tree Shrews, and Monkeys. Neural Plasticity, 2016, 2016, 1-13.	2.2	18
32	Simultaneous Assessment of White Matter Changes in Microstructure and Connectedness in the Blind Brain. Neural Plasticity, 2016, 2016, 1-12.	2.2	32
33	Cannabinoid Receptors CB1 and CB2 Modulate the Electroretinographic Waves in Vervet Monkeys. Neural Plasticity, 2016, 2016, 1-12.	2.2	16
34	Cannabinoids in the Brain: New Vistas on an Old Dilemma. Neural Plasticity, 2016, 2016, 1-3.	2.2	0
35	Are Supramodality and Cross-Modal Plasticity the Yin and Yang of Brain Development? From Blindness to Rehabilitation. Frontiers in Systems Neuroscience, 2016, 10, 89.	2.5	65
36	Prenatal Alcohol Exposure Affects Progenitor Cell Numbers in Olfactory Bulbs and Dentate Gyrus of Vervet Monkeys. Brain Sciences, 2016, 6, 52.	2.3	8

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37	Well, if they like it... Effects of social groupsâ€™ ratings and price information on the appreciation of art.. Psychology of Aesthetics, Creativity, and the Arts, 2016, 10, 344-359.	1.3	20
38	Scotopic vision in the monkey is modulated by the G protein-coupled receptor 55. Visual Neuroscience, 2016, 33, E006.	1.0	14
39	Congenital blindness affects diencephalic but not mesencephalic structures in the human brain. Brain Structure and Function, 2016, 221, 1465-1480.	2.3	46
40	Blindness alters the microstructure of the ventral but not the dorsal visual stream. Brain Structure and Function, 2016, 221, 2891-2903.	2.3	28
41	Hippocampal neuron populations are reduced in vervet monkeys with fetal alcohol exposure. Developmental Psychobiology, 2015, 57, 470-485.	1.6	18
42	Prevalence of increases in functional connectivity in visual, somatosensory and language areas in congenital blindness. Frontiers in Neuroanatomy, 2015, 9, 86.	1.7	28
43	Superior Orthonasal but Not Retronasal Olfactory Skills in Congenital Blindness. PLoS ONE, 2015, 10, e0122567.	2.5	22
44	Enhanced Chemosensory Detection of Negative Emotions in Congenital Blindness. Neural Plasticity, 2015, 2015, 1-7.	2.2	24
45	Enhanced heat discrimination in congenital blindness. Behavioural Brain Research, 2015, 283, 233-237.	2.2	15
46	A Deficit in Face-Voice Integration in Developing Vervet Monkeys Exposed to Ethanol during Gestation. PLoS ONE, 2014, 9, e114100.	2.5	1
47	Interpolation of diffusion weighted imaging datasets. NeuroImage, 2014, 103, 202-213.	4.2	122
48	Making Sense of the Chemical Senses. Multisensory Research, 2014, 27, 399-419.	1.1	14
49	Multisensory integration, sensory substitution and visual rehabilitation. Neuroscience and Biobehavioral Reviews, 2014, 41, 1-2.	6.1	41
50	Compensatory plasticity and cross-modal reorganization following early visual deprivation. Neuroscience and Biobehavioral Reviews, 2014, 41, 36-52.	6.1	207
51	Evaluation of the specificity of antibodies raised against cannabinoid receptor type 2 in the mouse retina. Naunyn-Schmiedeberg's Archives of Pharmacology, 2014, 387, 175-184.	3.0	62
52	The blind brain: Anatomy, physiology and behaviour. International Journal of Psychophysiology, 2014, 94, 152.	1.0	0
53	Structural, metabolic and functional changes in the congenitally blind brain. International Journal of Psychophysiology, 2014, 94, 152.	1.0	3
54	Neural correlates of taste perception in congenital olfactory impairment. Neuropsychologia, 2014, 62, 297-305.	1.6	20

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55	Response to Letter to the Editor. Pain, 2014, 155, 436-437.	4.2	0
56	The sensory construction of dreams and nightmare frequency in congenitally blind and late blind individuals. Sleep Medicine, 2014, 15, 586-595.	1.6	32
57	Pain Perception Is Increased in Congenital but Not Late Onset Blindness. PLoS ONE, 2014, 9, e107281.	2.5	25
58	Morphometric Changes of the Corpus Callosum in Congenital Blindness. PLoS ONE, 2014, 9, e107871.	2.5	37
59	Standardized Full-Field Electroretinography in the Green Monkey (Chlorocebus sabaeus). PLoS ONE, 2014, 9, e111569.	2.5	22
60	Hypersensitivity to pain in congenital blindness. Pain, 2013, 154, 1973-1978.	4.2	31
61	MÃ¼ller cells express the cannabinoid CB2 receptor in the vervet monkey retina. Journal of Comparative Neurology, 2013, 521, 2399-2415.	1.6	50
62	Reduced Taste Sensitivity in Congenital Blindness. Chemical Senses, 2013, 38, 509-517.	2.0	26
63	MÃ¼ller cells express the cannabinoid CB2 receptor in the vervet monkey retina. Journal of Comparative Neurology, 2013, 521, Spc1-Spc1.	1.6	0
64	Contrast and stability of the axon diameter index from microstructure imaging with diffusion MRI. Magnetic Resonance in Medicine, 2013, 70, 711-721.	3.0	120
65	Cannabinoid Receptor CB2 Modulates Axon Guidance. PLoS ONE, 2013, 8, e70849.	2.5	57
66	Rod Photoreceptors Express GPR55 in the Adult Vervet Monkey Retina. PLoS ONE, 2013, 8, e81080.	2.5	28
67	MEG reveals a fast pathway from somatosensory cortex to occipital areas via posterior parietal cortex in a blind subject. Frontiers in Human Neuroscience, 2013, 7, 429.	2.0	29
68	Physiology and Plasticity of Interhemispheric Connections. Neural Plasticity, 2013, 2013, 1-2.	2.2	3
69	Crossmodal Recruitment of the Ventral Visual Stream in Congenital Blindness. Neural Plasticity, 2012, 2012, 1-9.	2.2	58
70	Cortical GABAergic Interneurons in Cross-Modal Plasticity following Early Blindness. Neural Plasticity, 2012, 2012, 1-20.	2.2	29
71	Sensory Deprivation and Brain Plasticity. Neural Plasticity, 2012, 2012, 1-2.	2.2	15
72	Adaptive Neuroplastic Responses in Early and Late Hemispherectomized Monkeys. Neural Plasticity, 2012, 2012, 1-12.	2.2	12

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73	Activation of the hippocampal complex during tactile maze solving in congenitally blind subjects. Neuropsychologia, 2012, 50, 1663-1671.	1.6	41
74	The left fusiform gyrus hosts trisensory representations of manipulable objects. NeuroImage, 2011, 56, 1566-1577.	4.2	54
75	Distribution of collateral fibers in the monkey cervical spinal cord detected with diffusion-weighted magnetic resonance imaging. NeuroImage, 2011, 56, 923-929.	4.2	24
76	Odor perception and odor awareness in congenital blindness. Brain Research Bulletin, 2011, 84, 206-209.	3.0	76
77	The Nature of Consciousness in the Visually Deprived Brain. Frontiers in Psychology, 2011, 2, 19.	2.1	66
78	Navigation with a sensory substitution device in congenitally blind individuals. NeuroReport, 2011, 22, 342-347.	1.2	119
79	Neural correlates of olfactory processing in congenital blindness. Neuropsychologia, 2011, 49, 2037-2044.	1.6	86
80	Insights from darkness. Progress in Brain Research, 2011, 192, 17-31.	1.4	42
81	Concerted Action of CB1 Cannabinoid Receptor and Deleted in Colorectal Cancer in Axon Guidance. Journal of Neuroscience, 2011, 31, 1489-1499.	3.6	86
82	Reduced soma size of the M-neurons in the lateral geniculate nucleus following foetal alcohol exposure in non-human primates. Experimental Brain Research, 2010, 205, 263-271.	1.5	21
83	Tactile maze solving in congenitally blind individuals. NeuroReport, 2010, 21, 989-992.	1.2	12
84	Neural correlates of virtual route recognition in congenital blindness. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12716-12721.	7.1	160
85	Orientationally invariant indices of axon diameter and density from diffusion MRI. NeuroImage, 2010, 52, 1374-1389.	4.2	629
86	Partial recovery of hemiparesis following hemispherectomy in infant monkeys. Neuroscience Letters, 2010, 469, 243-247.	2.1	11
87	Beyond visual, aural and haptic movement perception: hMT+ is activated by electrotactile motion stimulation of the tongue in sighted and in congenitally blind individuals. Brain Research Bulletin, 2010, 82, 264-270.	3.0	125
88	Traumatic brain injury and olfactory deficits: The tale of two smell tests!. Brain Injury, 2010, 24, 27-33.	1.2	41
89	Blindness and Consciousness. , 2009, , 393-406.		3
90	Brain Banking: Making the Most of your Research Specimens. Journal of Visualized Experiments, 2009, , .	0.3	15

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91	Recruitment of the middle temporal area by tactile motion in congenital blindness. NeuroReport, 2009, 20, 543-547.	1.2	61
92	Knowing What Counts: Unbiased Stereology in the Non-human Primate Brain. Journal of Visualized Experiments, 2009, , .	0.3	15
93	Neuronal reduction in frontal cortex of primates after prenatal alcohol exposure. NeuroReport, 2009, 20, 13-17.	1.2	47
94	Dissecting the Non-human Primate Brain in Stereotaxic Space. Journal of Visualized Experiments, 2009, , 1-5.	0.3	9
95	The Gateway to the Brain: Dissecting the Primate Eye. Journal of Visualized Experiments, 2009, , .	0.3	3
96	Blindness and Consciousness: New Light from the Dark. , 2009, , 360-374.		11
97	TMS of the occipital cortex induces tactile sensations in the fingers of blind Braille readers. Experimental Brain Research, 2008, 184, 193-200.	1.5	79
98	Alterations of the visual pathways in congenital blindness. Experimental Brain Research, 2008, 187, 41-49.	1.5	196
99	Protein kinase A modulates retinal ganglion cell growth during development. Experimental Neurology, 2008, 211, 494-502.	4.1	13
100	The blind get a taste of vision. , 2008, , 481-489.		4
101	Alterations in right posterior hippocampus in early blind individuals. NeuroReport, 2007, 18, 329-333.	1.2	48
102	Tactileâ€“â€˜visualâ€™ acuity of the tongue in early blind individuals. NeuroReport, 2007, 18, 1901-1904.	1.2	82
103	Development of the commissure of the superior colliculus in the hamster. Journal of Comparative Neurology, 2006, 494, 887-902.	1.6	9
104	Transcranial magnetic stimulation of the visual cortex induces somatotopically organized qualia in blind subjects. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13256-13260.	7.1	112
105	Distribution of calcium binding proteins in visual and auditory cortices of hamsters. Experimental Brain Research, 2005, 163, 159-172.	1.5	16
106	Cross-modal plasticity revealed by electrotactile stimulation of the tongue in the congenitally blind. Brain, 2005, 128, 606-614.	7.6	270
107	Patternâ€“motion selectivity in the human pulvinar. NeuroImage, 2005, 28, 474-480.	4.2	35
108	CROSS-MODAL PLASTICITY IN EARLY BLINDNESS. Journal of Integrative Neuroscience, 2005, 04, 479-488.	1.7	58

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109	Regional analysis of neurofilament protein immunoreactivity in the hamster's cortex. Journal of Chemical Neuroanatomy, 2005, 29, 193-208.	2.1	32
110	Recovery of Anterograde Amnesia in a Case of Craniopharyngioma. Archives of Neurology, 2004, 61, 1948-52.	4.5	14
111	Retinal projections to the lateral posterior-pulvinar complex in intact and early visual cortex lesioned cats. Experimental Brain Research, 2004, 159, 185-196.	1.5	16
112	â€œSeeingâ€•through the tongue: cross-modal plasticity in the congenitally blind. International Congress Series, 2004, 1270, 79-84.	0.2	13
113	Separate neural pathways for contour and biological-motion cues in motion-defined animal shapes. NeuroImage, 2003, 19, 246-252.	4.2	52
114	Retinal projections in the cat: A cholera toxin B subunit study. Visual Neuroscience, 2003, 20, 481-493.	1.0	31
115	Cortical areas mediating stereopsis in the human brain: a PET study. NeuroReport, 2002, 13, 895-898.	1.2	51
116	Stereological evaluation of neurons and glia in the monkey dorsal lateral geniculate nucleus following an early cerebral hemispherectomy. Experimental Brain Research, 2002, 142, 208-220.	1.5	19
117	Cortical Representation of Inward and Outward Radial Motion in Man. NeuroImage, 2001, 14, 1409-1415.	4.2	66
118	Chapter 23 â€˜Seeingâ€™ in the blind hemifield following hemispherectomy. Progress in Brain Research, 2001, 134, 367-378.	1.4	24
119	Anatomical sparing in the superior colliculus of hemispherectomized monkeys. Brain Research, 2001, 894, 274-280.	2.2	25
120	Quantitative Analysis of the Retinal Ganglion Cell Layer in the Ostrich, <i>Struthio camelus</i>. Brain, Behavior and Evolution, 2001, 58, 343-355.	1.7	46
121	Chapter 24 Visual pathways following cerebral hemispherectomy. Progress in Brain Research, 2001, 134, 379-397.	1.4	18
122	Residual vision in the blind field of hemidecorticated humans predicted by a diffusion scatter model and selective spectral absorption of the human eye. Vision Research, 1999, 39, 149-157.	1.4	28
123	Transneuronal degeneration of retinal ganglion cells in early hemispherectomized monkeys. NeuroReport, 1999, 10, 1447-1452.	1.2	24
124	Size and distribution of retinal ganglion cells in the St. Kitts green monkey (Cercopithecus aethiops) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		23
125	No blindsight following hemidecortication in human subjects?. NeuroReport, 1996, 7, 1990-1994.	1.2	16
126	Chapter 28 Neural bases of residual vision in hemicorticectomized monkeys. Progress in Brain Research, 1996, 112, 385-404.	1.4	29

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127	Binaural noise stimulation of auditory callosal fibers of the cat: responses to interaural time delays. Experimental Brain Research, 1995, 104, 30-40.	1.5	12
128	Sensory interactions in the anterior ectosylvian cortex of cats. Experimental Brain Research, 1994, 101, 385-96.	1.5	37
129	Sensory modality distribution in the anterior ectosylvian cortex (AEC) of cats. Experimental Brain Research, 1994, 97, 404-14.	1.5	55
130	Depth Perception in Monocularly Deprived Cats Following Part-time Reverse Occlusion. European Journal of Neuroscience, 1994, 6, 967-972.	2.6	13
131	Binocular interaction and disparity coding in area 19 of visual cortex in normal and split-chiasm cats. Experimental Brain Research, 1993, 94, 405-17.	1.5	28
132	Chapter 17 Disparity coding in the cat: a comparison between areas 17-18 and area 19. Progress in Brain Research, 1993, 95, 179-187.	1.4	3
133	Binocular interaction and disparity coding at the 17?18 border: contribution of the corpus callosum. Experimental Brain Research, 1992, 90, 129-40.	1.5	32
134	Loss of stereopsis following lesions of cortical areas 17?18 in the cat. Experimental Brain Research, 1992, 89, 521-30.	1.5	19
135	Somatosensory receptive field properties of corpus callosum fibres in the raccoon. Journal of Comparative Neurology, 1992, 321, 124-132.	1.6	14
136	Stereopsis in the cat: Behavioral demonstration and underlying mechanisms. Neuropsychologia, 1991, 29, 443-464.	1.6	21
137	La plasticitÃ© du systÃ¨me calleux.. Canadian Journal of Psychology, 1990, 44, 166-179.	0.8	3
138	Bilateral interaction in the second somatosensory area (SII) of the cat and contribution of the corpus callosum. Brain Research, 1990, 536, 97-104.	2.2	29
139	Chapter 18: Cortico-cortical callosal connectivity: evidence derived from electrophysiological studies. Progress in Brain Research, 1988, 75, 187-195.	1.4	3
140	Receptive field properties of somatosensory callosal fibres in the monkey. Brain Research, 1987, 402, 293-302.	2.2	22
141	Visual discrimination in hemispherectomized patients. Neuropsychologia, 1987, 25, 869-879.	1.6	45
142	Le transfert interhÃ©misphÃ©rique d'apprentissages visuels chez le chat Ã cerveau divisÃ©: Effets de la situation expÃ©rimentale.. Canadian Journal of Psychology, 1985, 39, 400-413.	0.8	3
143	Etude tachistoscopique de la spÃ©cialisation hÃ©misphÃ©rique chez l'agÃ©nÃ©sique du corps calleux.. Canadian Journal of Psychology, 1984, 38, 527-536.	0.8	6
144	Interocular transfer in cats with early callosal transaction. Nature, 1983, 301, 513-515.	27.8	27

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145	Effects of unilateral and bilateral lesions of the lateral suprasylvian area on learning and interhemispheric transfer of pattern discrimination in the cat. Behavioural Brain Research, 1983, 7, 211-227.	2.2	12
146	Le rÃ1e du corps calleux dans le transfert interhÃ©misphÃ¨rique d'apprentissages visuels chez le chat siamois.. Canadian Journal of Psychology, 1983, 37, 535-546.	0.8	1
147	ModÃ¨les et mÃ©canismes cÃ©rÃ©braux impliquÃ©s dans les mouvements oculaires lents et rapides.. Canadian Journal of Psychology, 1982, 36, 586-627.	0.8	1
148	Effects of claustral stimulation on the properties of visual cortex neurons in the cat. Experimental Neurology, 1981, 73, 315-320.	4.1	35
149	Hemispheric asymmetry in callosal agenesis as revealed by dichotic listening performance. Neuropsychologia, 1981, 19, 455-458.	1.6	27
150	Pretectum and superior colliculus in object vs pattern discrimination in the monkey. Neuropsychologia, 1980, 18, 559-568.	1.6	3
151	Effects of striatectomy and colliculectomy on achromatic thresholds in the monkey. Physiology and Behavior, 1976, 16, 285-291.	2.1	3
152	Effects of ablations of the superior colliculi on spectral sensitivity in monkeys. Neuropsychologia, 1975, 13, 297-306.	1.6	6
153	Spectral Sensitivity in a Female Cebus Griseus. Perceptual and Motor Skills, 1975, 40, 783-788.	1.3	5
154	Effects of Low Doses of Chlorpromazine on a Conditioned Emotional Response in the Rat. Psychological Reports, 1974, 34, 231-237.	1.7	9
155	Spectral Sensitivity in Primates: A Comparative Study. Perceptual and Motor Skills, 1973, 36, 1239-1247.	1.3	7
156	Sensory Inputâ€“Based Adaptation and Brain Architecture. , 0, , 111-133.		9
157	The Endocannabinoid System in the Vervet Monkey Retina. , 0, , .		2