Maurice Ptito

List of Publications by Year in descending order

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Version: 2024-02-01

101535 106340 5,652 157 36 65 citations h-index g-index papers 160 160 160 4750 citing authors docs citations times ranked all docs

#	Article	IF	CITATIONS
1	Orientationally invariant indices of axon diameter and density from diffusion MRI. NeuroImage, 2010, 52, 1374-1389.	4.2	629
2	Cross-modal plasticity revealed by electrotactile stimulation of the tongue in the congenitally blind. Brain, 2005, 128, 606-614.	7.6	270
3	Compensatory plasticity and cross-modal reorganization following early visual deprivation. Neuroscience and Biobehavioral Reviews, 2014, 41, 36-52.	6.1	207
4	Alterations of the visual pathways in congenital blindness. Experimental Brain Research, 2008, 187, 41-49.	1.5	196
5	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
6	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
7	Interpolation of diffusion weighted imaging datasets. Neurolmage, 2014, 103, 202-213.	4.2	122
8	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
9	Navigation with a sensory substitution device in congenitally blind individuals. NeuroReport, 2011, 22, 342-347.	1.2	119
10	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
11	Neural correlates of olfactory processing in congenital blindness. Neuropsychologia, 2011, 49, 2037-2044.	1.6	86
12	Concerted Action of CB1 Cannabinoid Receptor and Deleted in Colorectal Cancer in Axon Guidance. Journal of Neuroscience, 2011, 31, 1489-1499.	3.6	86
13	Tactile–â€~visual' acuity of the tongue in early blind individuals. NeuroReport, 2007, 18, 1901-1904.	1.2	82
14	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
15	Odor perception and odor awareness in congenital blindness. Brain Research Bulletin, 2011, 84, 206-209.	3.0	76
16	Short parietal lobe connections of the human and monkey brain. Cortex, 2017, 97, 339-357.	2.4	74
17	Cortical Representation of Inward and Outward Radial Motion in Man. Neurolmage, 2001, 14, 1409-1415.	4.2	66
18	The Nature of Consciousness in the Visually Deprived Brain. Frontiers in Psychology, 2011, 2, 19.	2.1	66

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19	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
20	Sensory Substitution and the Neural Correlates of Navigation in Blindness. , 2018, , 167-200.		64
21	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
22	Recruitment of the middle temporal area by tactile motion in congenital blindness. NeuroReport, 2009, 20, 543-547.	1.2	61
23	CROSS-MODAL PLASTICITY IN EARLY BLINDNESS. Journal of Integrative Neuroscience, 2005, 04, 479-488.	1.7	58
24	Crossmodal Recruitment of the Ventral Visual Stream in Congenital Blindness. Neural Plasticity, 2012, 2012, 1-9.	2.2	58
25	Cannabinoid Receptor CB2 Modulates Axon Guidance. PLoS ONE, 2013, 8, e70849.	2.5	57
26	Sensory modality distribution in the anterior ectosylvian cortex (AEC) of cats. Experimental Brain Research, 1994, 97, 404-14.	1.5	55
27	The left fusiform gyrus hosts trisensory representations of manipulable objects. Neurolmage, 2011, 56, 1566-1577.	4.2	54
28	Axon morphology is modulated by the local environment and impacts the noninvasive investigation of its structure–function relationship. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 33649-33659.	7.1	53
29	Separate neural pathways for contour and biological-motion cues in motion-defined animal shapes. Neurolmage, 2003, 19, 246-252.	4.2	52
30	Cortical areas mediating stereopsis in the human brain: a PET study. NeuroReport, 2002, 13, 895-898.	1.2	51
31	$M\tilde{A}\frac{1}{4}$ ller cells express the cannabinoid CB2 receptor in the vervet monkey retina. Journal of Comparative Neurology, 2013, 521, 2399-2415.	1.6	50
32	Alterations in right posterior hippocampus in early blind individuals. NeuroReport, 2007, 18, 329-333.	1.2	48
33	Neuronal reduction in frontal cortex of primates after prenatal alcohol exposure. NeuroReport, 2009, 20, 13-17.	1.2	47
34	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
35	Congenital blindness affects diencephalic but not mesencephalic structures in the human brain. Brain Structure and Function, 2016, 221, 1465-1480.	2.3	46
36	Visual discrimination in hemispherectomized patients. Neuropsychologia, 1987, 25, 869-879.	1.6	45

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37	Insights from darkness. Progress in Brain Research, 2011, 192, 17-31.	1.4	42
38	Traumatic brain injury and olfactory deficits: The tale of two smell tests!. Brain Injury, 2010, 24, 27-33.	1.2	41
39	Activation of the hippocampal complex during tactile maze solving in congenitally blind subjects. Neuropsychologia, 2012, 50, 1663-1671.	1.6	41
40	Multisensory integration, sensory substitution and visual rehabilitation. Neuroscience and Biobehavioral Reviews, 2014, 41, 1-2.	6.1	41
41	Sensory interactions in the anterior ectosylvian cortex of cats. Experimental Brain Research, 1994, 101, 385-96.	1.5	37
42	Differences in Frontal Network Anatomy Across Primate Species. Journal of Neuroscience, 2020, 40, 2094-2107.	3.6	37
43	Morphometric Changes of the Corpus Callosum in Congenital Blindness. PLoS ONE, 2014, 9, e107871.	2.5	37
44	Effects of glucagon-like peptide 1 analogs on alcohol intake in alcohol-preferring vervet monkeys. Psychopharmacology, 2019, 236, 603-611.	3.1	36
45	Effects of claustral stimulation on the properties of visual cortex neurons in the cat. Experimental Neurology, 1981, 73, 315-320.	4.1	35
46	Pattern–motion selectivity in the human pulvinar. NeuroImage, 2005, 28, 474-480.	4.2	35
47	A thalamocortical pathway for fast rerouting of tactile information to occipital cortex in congenital blindness. Nature Communications, 2019, 10, 5154.	12.8	33
48	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
49	Regional analysis of neurofilament protein immunoreactivity in the hamster's cortex. Journal of Chemical Neuroanatomy, 2005, 29, 193-208.	2.1	32
50	The sensory construction of dreams and nightmare frequency in congenitally blind and late blind individuals. Sleep Medicine, 2014, 15, 586-595.	1.6	32
51	Simultaneous Assessment of White Matter Changes in Microstructure and Connectedness in the Blind Brain. Neural Plasticity, 2016, 2016, 1-12.	2.2	32
52	Retinal projections in the cat: A cholera toxin B subunit study. Visual Neuroscience, 2003, 20, 481-493.	1.0	31
53	Hypersensitivity to pain in congenital blindness. Pain, 2013, 154, 1973-1978.	4.2	31
54	Thalamocortical Connectivity and Microstructural Changes in Congenital and Late Blindness. Neural Plasticity, 2017, 2017, 1-11.	2.2	31

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55	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
56	Chapter 28 Neural bases of residual vision in hemicorticectomized monkeys. Progress in Brain Research, 1996, 112, 385-404.	1.4	29
57	Cortical GABAergic Interneurons in Cross-Modal Plasticity following Early Blindness. Neural Plasticity, 2012, 2012, 1-20.	2.2	29
58	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
59	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
60	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
61	Rod Photoreceptors Express GPR55 in the Adult Vervet Monkey Retina. PLoS ONE, 2013, 8, e81080.	2.5	28
62	Prevalence of increases in functional connectivity in visual, somatosensory and language areas in congenital blindness. Frontiers in Neuroanatomy, 2015, 9, 86.	1.7	28
63	Blindness alters the microstructure of the ventral but not the dorsal visual stream. Brain Structure and Function, 2016, 221, 2891-2903.	2.3	28
64	The functional characterization of callosal connections. Progress in Neurobiology, 2022, 208, 102186.	5.7	28
65	Hemispheric asymmetry in callosal agenesis as revealed by dichotic listening performance. Neuropsychologia, 1981, 19, 455-458.	1.6	27
66	Interocular transfer in cats with early callosal transaction. Nature, 1983, 301, 513-515.	27.8	27
67	Reduced Taste Sensitivity in Congenital Blindness. Chemical Senses, 2013, 38, 509-517.	2.0	26
68	Anatomical sparing in the superior colliculus of hemispherectomized monkeys. Brain Research, 2001, 894, 274-280.	2.2	25
69	Pain Perception Is Increased in Congenital but Not Late Onset Blindness. PLoS ONE, 2014, 9, e107281.	2.5	25
70	Transneuronal degeneration of retinal ganglion cells in early hemispherectomized monkeys. NeuroReport, 1999, 10, 1447-1452.	1.2	24
71	Chapter 23 â€~Seeing' in the blind hemifield following hemispherectomy. Progress in Brain Research, 2001, 134, 367-378.	1.4	24
72	Distribution of collateral fibers in the monkey cervical spinal cord detected with diffusion-weighted magnetic resonance imaging. Neurolmage, 2011, 56, 923-929.	4.2	24

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73	Enhanced Chemosensory Detection of Negative Emotions in Congenital Blindness. Neural Plasticity, 2015, 2015, 1-7.	2.2	24
74	Size and distribution of retinal ganglion cells in the St. Kitts green monkey (Cercopithecus aethiops) Tj ETQqC	0 0 rgBT /O	verlock 10 Tf
75	Receptive field properties of somatosensory callosal fibres in the monkey. Brain Research, 1987, 402, 293-302.	2.2	22
76	Superior Orthonasal but Not Retronasal Olfactory Skills in Congenital Blindness. PLoS ONE, 2015, 10, e0122567.	2.5	22
77	Standardized Full-Field Electroretinography in the Green Monkey (Chlorocebus sabaeus). PLoS ONE, 2014, 9, e111569.	2.5	22
78	Stereopsis in the cat: Behavioral demonstration and underlying mechanisms. Neuropsychologia, 1991, 29, 443-464.	1.6	21
79	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
80	Neural correlates of taste perception in congenital olfactory impairment. Neuropsychologia, 2014, 62, 297-305.	1.6	20
81	Well, if they like it Effects of social groups' ratings and price information on the appreciation of art Psychology of Aesthetics, Creativity, and the Arts, 2016, 10, 344-359.	1.3	20
82	Loss of stereopsis following lesions of cortical areas 17?18 in the cat. Experimental Brain Research, 1992, 89, 521-30.	1.5	19
83	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
84	Brain-Machine Interfaces to Assist the Blind. Frontiers in Human Neuroscience, 2021, 15, 638887.	2.0	19
85	Chapter 24 Visual pathways following cerebral hemispherectomy. Progress in Brain Research, 2001, 134, 379-397.	1.4	18
86	Hippocampal neuron populations are reduced in vervet monkeys with fetal alcohol exposure. Developmental Psychobiology, 2015, 57, 470-485.	1.6	18
87	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
88	Spatial Competence and Brain Plasticity in Congenital Blindness via Sensory Substitution Devices. Frontiers in Neuroscience, 2020, 14, 815.	2.8	18
89	No blindsight following hemidecortication in human subjects?. NeuroReport, 1996, 7, 1990-1994.	1.2	16
90	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

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91	Distribution of calcium binding proteins in visual and auditory cortices of hamsters. Experimental Brain Research, 2005, 163, 159-172.	1.5	16
92	Cannabinoid Receptors CB1 and CB2 Modulate the Electroretinographic Waves in Vervet Monkeys. Neural Plasticity, 2016, 2016, 1-12.	2.2	16
93	Brain Banking: Making the Most of your Research Specimens. Journal of Visualized Experiments, 2009, , .	0.3	15
94	Knowing What Counts: Unbiased Stereology in the Non-human Primate Brain. Journal of Visualized Experiments, 2009, , .	0.3	15
95	Sensory Deprivation and Brain Plasticity. Neural Plasticity, 2012, 2012, 1-2.	2.2	15
96	Enhanced heat discrimination in congenital blindness. Behavioural Brain Research, 2015, 283, 233-237.	2.2	15
97	Somatosensory receptive field properties of corpus callosum fibres in the raccoon. Journal of Comparative Neurology, 1992, 321, 124-132.	1.6	14
98	Recovery of Anterograde Amnesia in a Case of Craniopharyngioma. Archives of Neurology, 2004, 61, 1948-52.	4.5	14
99	Making Sense of the Chemical Senses. Multisensory Research, 2014, 27, 399-419.	1.1	14
100	Scotopic vision in the monkey is modulated by the G protein-coupled receptor 55. Visual Neuroscience, 2016, 33, E006.	1.0	14
101	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
102	Organization of the commissural fiber system in congenital and late-onset blindness. NeuroImage: Clinical, 2020, 25, 102133.	2.7	14
103	The Retina: A Window into the Brain. Cells, 2021, 10, 3269.	4.1	14
104	Depth Perception in Monocularly Deprived Cats Following Part-time Reverse Occlusion. European Journal of Neuroscience, 1994, 6, 967-972.	2.6	13
105	"Seeing―through the tongue: cross-modal plasticity in the congenitally blind. International Congress Series, 2004, 1270, 79-84.	0.2	13
106	Protein kinase A modulates retinal ganglion cell growth during development. Experimental Neurology, 2008, 211, 494-502.	4.1	13
107	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
108	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

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109	Tactile maze solving in congenitally blind individuals. NeuroReport, 2010, 21, 989-992.	1.2	12
110	Adaptive Neuroplastic Responses in Early and Late Hemispherectomized Monkeys. Neural Plasticity, 2012, 2012, 1-12.	2.2	12
111	Partial recovery of hemiparesis following hemispherectomy in infant monkeys. Neuroscience Letters, 2010, 469, 243-247.	2.1	11
112	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
113	Blindness and Consciousness: New Light from the Dark. , 2009, , 360-374.		11
114	Retinal structure and function in monkeys with fetal alcohol exposure. Experimental Eye Research, 2018, 177, 55-64.	2.6	10
115	Rapid eye movements are reduced in blind individuals. Journal of Sleep Research, 2019, 28, e12866.	3.2	10
116	Neural Networks Mediating Perceptual Learning in Congenital Blindness. Scientific Reports, 2020, 10, 495.	3.3	10
117	Spatial navigation with horizontally spatialized sounds in early and late blind individuals. PLoS ONE, 2021, 16, e0247448.	2.5	10
118	A quantitative analysis of the retinofugal projections in congenital and late-onset blindness. NeuroImage: Clinical, 2021, 32, 102809.	2.7	10
119	Effects of Low Doses of Chlorpromazine on a Conditioned Emotional Response in the Rat. Psychological Reports, 1974, 34, 231-237.	1.7	9
120	Sensory Input–Based Adaptation and Brain Architecture. , 0, , 111-133.		9
121	Development of the commissure of the superior colliculus in the hamster. Journal of Comparative Neurology, 2006, 494, 887-902.	1.6	9
122	Dissecting the Non-human Primate Brain in Stereotaxic Space. Journal of Visualized Experiments, 2009, , 1-5.	0.3	9
123	Expression and localization of CB1R, NAPE-PLD, and FAAH in the vervet monkey nucleus accumbens. Scientific Reports, 2018, 8, 8689.	3.3	9
124	Prenatal Alcohol Exposure Affects Progenitor Cell Numbers in Olfactory Bulbs and Dentate Gyrus of Vervet Monkeys. Brain Sciences, 2016, 6, 52.	2.3	8
125	Sleep structure in blindness is influenced by circadian desynchrony. Journal of Sleep Research, 2018, 27, 120-128.	3.2	8
126	Preserved sleep microstructure in blind individuals. Sleep Medicine, 2018, 42, 21-30.	1.6	8

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127	Spectral Sensitivity in Primates: A Comparative Study. Perceptual and Motor Skills, 1973, 36, 1239-1247.	1.3	7
128	Impact of Global Mean Normalization on Regional Glucose Metabolism in the Human Brain. Neural Plasticity, 2018, 2018, 1-16.	2.2	7
129	Blindness and the Reliability of Downwards Sensors to Avoid Obstacles: A Study with the EyeCane. Sensors, 2021, 21, 2700.	3.8	7
130	Effects of ablations of the superior colliculi on spectral sensitivity in monkeys. Neuropsychologia, 1975, 13, 297-306.	1.6	6
131	Etude tachistoscopique de la spécialisation hémisphérique chez l'agénésique du corps calleux Canadian Journal of Psychology, 1984, 38, 527-536.	0.8	6
132	Spectral Sensitivity in a Female <i>Cebus Griseus</i> . Perceptual and Motor Skills, 1975, 40, 783-788.	1.3	5
133	The Multisensory Blind Brain. , 2018, , 111-136.		5
134	The blind get a taste of vision. , 2008, , 481-489.		4
135	The Vertical and Horizontal Pathways in the Monkey Retina Are Modulated by Typical and Atypical Cannabinoid Receptors. Cells, 2021, 10, 3160.	4.1	4
136	Effects of striatectomy and colliculectomy on achromatic thresholds in the monkey. Physiology and Behavior, 1976, 16, 285-291.	2.1	3
137	Pretectum and superior colliculus in object vs pattern discrimination in the monkey. Neuropsychologia, 1980, 18, 559-568.	1.6	3
138	Le transfert interhémisphérique d'apprentissages visuels chez le chat à cerveau divisé: Effets de la situation expérimentale Canadian Journal of Psychology, 1985, 39, 400-413.	0.8	3
139	Chapter 18: Cortico-cortical callosal connectivity: evidence derived from electrophysiological studies. Progress in Brain Research, 1988, 75, 187-195.	1.4	3
140	La plasticité du systÓme calleux Canadian Journal of Psychology, 1990, 44, 166-179.	0.8	3
141	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
142	Blindness and Consciousness. , 2009, , 393-406.		3
143	The Gateway to the Brain: Dissecting the Primate Eye. Journal of Visualized Experiments, 2009, , .	0.3	3
144	Physiology and Plasticity of Interhemispheric Connections. Neural Plasticity, 2013, 2013, 1-2.	2.2	3

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145	Structural, metabolic and functional changes in the congenitally blind brain. International Journal of Psychophysiology, 2014, 94, 152.	1.0	3
146	Effects of Prenatal Alcohol Exposure on the Visual System of Monkeys Measured at Different Stages of Development., 2017, 58, 6282.		2
147	The Endocannabinoid System in the Vervet Monkey Retina. , 0, , .		2
148	Presence of the Endocannabinoid System in the Inferior Pulvinar of the Vervet Monkey. Brain Sciences, 2021, 11, 770.	2.3	2
149	ModÃ ⁻ les et mécanismes cérébraux impliqués dans les mouvements oculaires lents et rapides Canadian Journal of Psychology, 1982, 36, 586-627.	0.8	1
150	Le rÃ1e du corps calleux dans le transfert interhémisphèrique d'apprentissages visuels chez le chat siamois Canadian Journal of Psychology, 1983, 37, 535-546.	0.8	1
151	A Deficit in Face-Voice Integration in Developing Vervet Monkeys Exposed to Ethanol during Gestation. PLoS ONE, 2014, 9, e114100.	2.5	1
152	$M\tilde{A}^{1}\!\!/\!\!a$ ller cells express the cannabinoid CB2 receptor in the vervet monkey retina. Journal of Comparative Neurology, 2013, 521, Spc1-Spc1.	1.6	0
153	The blind brain: Anatomy, physiology and behaviour. International Journal of Psychophysiology, 2014, 94, 152.	1.0	O
154	Response to Letter to the Editor. Pain, 2014, 155, 436-437.	4.2	0
155	Cannabinoids in the Brain: New Vistas on an Old Dilemma. Neural Plasticity, 2016, 2016, 1-3.	2.2	0
156	Introductory Chapter: Primates - What the Monkey Brain Tells the Human Brain., 2018, , .		0
157	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