

Frank Sengpiel

List of Publications by Year in descending order

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76
papers

3,569
citations

159358

30
h-index

143772

57
g-index

78
all docs

78
docs citations

78
times ranked

3273
citing authors

#	ARTICLE	IF	CITATIONS
1	Recruitment of frontal sensory circuits during visual discrimination. <i>Cell Reports</i> , 2022, 39, 110932.	2.9	0
2	Cortical and Striatal Electroencephalograms and Apomorphine Effects in the FUS Mouse Model of Amyotrophic Lateral Sclerosis. <i>Journal of Alzheimer's Disease</i> , 2021, 81, 1429-1443.	1.2	1
3	Contrast adaptation and interocular transfer in cortical cells: A re-analysis & a two-stage gain-control model of binocular combination. <i>Vision Research</i> , 2021, 185, 29-49.	0.7	7
4	Spatial memory deficits initiated by agroclavine injection or olfactory bulbectomy in rats are characterized by different levels of long-term potentiation expression in the hippocampus. <i>International Journal of Neuroscience</i> , 2020, 130, 1225-1229.	0.8	1
5	Loss of Midbrain Dopamine Neurons and Altered Apomorphine EEG Effects in the 5xFAD Mouse Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2019, 70, 241-256.	1.2	26
6	Plasticity in Adult Mouse Visual Cortex Following Optic Nerve Injury. <i>Cerebral Cortex</i> , 2019, 29, 1767-1777.	1.6	13
7	Mammillothalamic Disconnection Alters Hippocampocortical Oscillatory Activity and Microstructure: Implications for Diencephalic Amnesia. <i>Journal of Neuroscience</i> , 2019, 39, 6696-6713.	1.7	36
8	Spatial summation across the visual field in strabismic and anisometropic amblyopia. <i>Scientific Reports</i> , 2018, 8, 3858.	1.6	5
9	Animal models of amblyopia. <i>Visual Neuroscience</i> , 2018, 35, E017.	0.5	14
10	Optophysiological Characterisation of Inner Retina Responses with High-Resolution Optical Coherence Tomography. <i>Scientific Reports</i> , 2018, 8, 1813.	1.6	9
11	Overview: neuroplasticity and synaptic function in neuropsychiatric disorders. <i>Journal of Physiology</i> , 2018, 596, 2745-2746.	1.3	2
12	Spatial Memory Engram in the Mouse Retrosplenial Cortex. <i>Current Biology</i> , 2018, 28, 1975-1980.e6.	1.8	87
13	Enhancement of visual cortex plasticity by dark exposure. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160159.	1.8	27
14	Intrahippocampal Pathways Involved in Learning/Memory Mechanisms are Affected by Intracerebral Infusions of Amyloid- β 25-35 Peptide and Hydrated Fullerene C60 in Rats. <i>Journal of Alzheimer's Disease</i> , 2017, 58, 711-724.	1.2	15
15	Immunization Against Specific Fragments of Neurotrophin p75 Receptor Protects Forebrain Cholinergic Neurons in the Olfactory Bulbectomized Mice. <i>Journal of Alzheimer's Disease</i> , 2016, 53, 289-301.	1.2	11
16	Comparable reduction in Zif268 levels and cytochrome oxidase activity in the retrosplenial cortex following mammillothalamic tract lesions. <i>Neuroscience</i> , 2016, 330, 39-49.	1.1	15
17	Neuroprotective Effects of Hydrated Fullerene C60: Cortical and Hippocampal EEG Interplay in an Amyloid-Infused Rat Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2015, 45, 217-233.	1.2	38
18	A novel system for the classification of diseased retinal ganglion cells. <i>Visual Neuroscience</i> , 2014, 31, 373-380.	0.5	5

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19	Plasticity of the Visual Cortex and Treatment of Amblyopia. <i>Current Biology</i> , 2014, 24, R936-R940.	1.8	51
20	Stripe-rearing changes multiple aspects of the structure of primary visual cortex. <i>NeuroImage</i> , 2014, 95, 305-319.	2.1	2
21	Amblyopia: Out of the Dark, Into the Light. <i>Current Biology</i> , 2013, 23, R195-R196.	1.8	3
22	Effects of Digesting Chondroitin Sulfate Proteoglycans on Plasticity in Cat Primary Visual Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 234-243.	1.7	47
23	The Development and Activity-Dependent Expression of Aggrecan in the Cat Visual Cortex. <i>Cerebral Cortex</i> , 2013, 23, 349-360.	1.6	31
24	The Role of GluA1 in Ocular Dominance Plasticity in the Mouse Visual Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 15220-15225.	1.7	20
25	Homeostatic plasticity mechanisms are required for juvenile, but not adult, ocular dominance plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1311-1316.	3.3	120
26	Effects of different forms of monocular deprivation on primary visual cortex maps. <i>Visual Neuroscience</i> , 2012, 29, 247-253.	0.5	3
27	Experience-dependent regulation of functional maps and synaptic protein expression in the cat visual cortex. <i>European Journal of Neuroscience</i> , 2012, 35, 1281-1294.	1.2	18
28	Effects of nootropics on the EEG in conscious rats and their modification by glutamatergic inhibitors. <i>Brain Research Bulletin</i> , 2011, 85, 123-132.	1.4	10
29	Cortical and hippocampal EEG effects of neurotransmitter agonists in spontaneously hypertensive vs. kainate-treated rats. <i>Brain Research</i> , 2011, 1383, 154-168.	1.1	14
30	Protection against deprivation amblyopia depends on relative not absolute daily binocular exposure. <i>Journal of Vision</i> , 2011, 11, 13-13.	0.1	18
31	Experimental Models of Amblyopia: Insights for Prevention and Treatment. <i>Strabismus</i> , 2011, 19, 87-90.	0.4	13
32	Daily mixed visual experience that prevents amblyopia in cats does not always allow the development of good binocular depth perception. <i>Journal of Vision</i> , 2009, 9, 22-22.	0.1	19
33	Neural mechanisms of recovery following early visual deprivation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 383-398.	1.8	52
34	Interocular Transfer of Adaptation in the Primary Visual Cortex. <i>Cerebral Cortex</i> , 2009, 19, 1835-1843.	1.6	16
35	Natural scene statistics and the structure of orientation maps in the visual cortex. <i>NeuroImage</i> , 2009, 47, 157-172.	2.1	10
36	Apomorphine-induced differences in cortical and striatal EEG and their glutamatergic mediation in 6-hydroxydopamine-treated rats. <i>Experimental Brain Research</i> , 2008, 191, 277-287.	0.7	13

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37	Direct, Live Imaging of Cortical Spreading Depression and Anoxic Depolarisation Using a Fluorescent, Voltage-Sensitive Dye. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 251-262.	2.4	60
38	Binocular Vision: Only Half a Brain Needed. <i>Current Biology</i> , 2008, 18, R1054-R1056.	1.8	1
39	Brief daily binocular vision prevents monocular deprivation effects in visual cortex. <i>European Journal of Neuroscience</i> , 2007, 25, 270-280.	1.2	37
40	Monocular deprivation reduces reliability of visual cortical responses to binocular disparity stimuli. <i>European Journal of Neuroscience</i> , 2007, 26, 3553-3563.	1.2	13
41	The critical period. <i>Current Biology</i> , 2007, 17, R742-R743.	1.8	31
42	Visual Cortical Recovery From Reverse Occlusion Depends on Concordant Binocular Experience. <i>Journal of Neurophysiology</i> , 2006, 95, 1718-1726.	0.9	17
43	Short periods of concordant binocular vision prevent the development of deprivation amblyopia. <i>European Journal of Neuroscience</i> , 2006, 23, 2458-2466.	1.2	26
44	Motion perception is learned, not innate. <i>Nature Neuroscience</i> , 2006, 9, 591-592.	7.1	3
45	Visual Cortex: Overcoming a No-Go for Plasticity. <i>Current Biology</i> , 2005, 15, R1000-R1002.	1.8	5
46	Strabismic Suppression Is Mediated by Inhibitory Interactions in the Primary Visual Cortex. <i>Cerebral Cortex</i> , 2005, 16, 1750-1758.	1.6	105
47	Intracortical Origins of Interocular Suppression in the Visual Cortex. <i>Journal of Neuroscience</i> , 2005, 25, 6394-6400.	1.7	71
48	Limited Protection of the Primary Visual Cortex from the Effects of Monocular Deprivation by Strabismus. <i>Cerebral Cortex</i> , 2005, 15, 1822-1833.	1.6	8
49	Contrast invariance of functional maps in cat primary visual cortex. <i>Journal of Vision</i> , 2004, 4, 1.	0.1	27
50	Functional Reorganization of Visual Cortex Maps after Ischemic Lesions Is Accompanied by Changes in Expression of Cytoskeletal Proteins and NMDA and GABAA Receptor Subunits. <i>Journal of Neuroscience</i> , 2004, 24, 1812-1821.	1.7	47
51	Vision: In the Brain of the Beholder. <i>Current Biology</i> , 2004, 14, R997-R999.	1.8	1
52	Optical imaging of intrinsic signals: recent developments in the methodology and its applications. <i>Journal of Neuroscience Methods</i> , 2004, 136, 1-21.	1.3	114
53	Brief Daily Periods of Binocular Vision Prevent Deprivation-Induced Acuity Loss. <i>Current Biology</i> , 2003, 13, 1704-1708.	1.8	44
54	Reorganization of Visual Cortical Maps after Focal Ischemic Lesions. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 811-820.	2.4	30

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55	The Role of Activity in Development of the Visual System. <i>Current Biology</i> , 2002, 12, R818-R826.	1.8	125
56	Orientation specificity of contrast adaptation in visual cortical pinwheel centres and iso-orientation domains. <i>European Journal of Neuroscience</i> , 2002, 15, 876-886.	1.2	21
57	Correlated binocular activity guides recovery from monocular deprivation. <i>Nature</i> , 2002, 416, 430-433.	13.7	77
58	Title is missing!. <i>Brain and Mind</i> , 2001, 2, 39-54.	0.6	6
59	Cortical plasticity: Learning while you sleep?. <i>Current Biology</i> , 2001, 11, R647-R650.	1.8	5
60	Visual perception: An alternative view of perceptual rivalry. <i>Current Biology</i> , 2000, 10, R482-R485.	1.8	7
61	Principal Component Analysis and Blind Separation of Sources for Optical Imaging of Intrinsic Signals. <i>NeuroImage</i> , 2000, 11, 482-490.	2.1	69
62	Influence of experience on orientation maps in cat visual cortex. <i>Nature Neuroscience</i> , 1999, 2, 727-732.	7.1	199
63	Visual perception: Spotlight on the primary visual cortex. <i>Current Biology</i> , 1999, 9, R318-R321.	1.8	29
64	The 'Ideal Homunculus': decoding neural population signals. <i>Trends in Neurosciences</i> , 1998, 21, 259-265.	4.2	221
65	Intrinsic and environmental factors in the development of functional maps in cat visual cortex. <i>Neuropharmacology</i> , 1998, 37, 607-621.	2.0	40
66	Different mechanisms underlie three inhibitory phenomena in cat area 17. <i>Vision Research</i> , 1998, 38, 2067-2080.	0.7	138
67	Responses of neurons in primary and inferior temporal visual cortices to natural scenes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1997, 264, 1775-1783.	1.2	366
68	Binocular rivalry: Ambiguities resolved. <i>Current Biology</i> , 1997, 7, R447-R450.	1.8	14
69	Characteristics of surround inhibition in cat area 17. <i>Experimental Brain Research</i> , 1997, 116, 216-228.	0.7	195
70	Functional architecture of area 17 in normal and monocularly deprived marmosets (<i>Callithrix</i>). <i>Journal of Neurophysiology</i> , 1997, 77, 1011-1024.	0.5	48
71	The neural basis of suppression and amblyopia in strabismus. <i>Eye</i> , 1996, 10, 250-258.	1.1	115
72	Interocular suppression in cat striate cortex is not orientation selective. <i>NeuroReport</i> , 1995, 6, 2235-2239.	0.6	31

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73	Interocular suppression in the primary visual cortex: a possible neural basis of binocular rivalry. <i>Vision Research</i> , 1995, 35, 179-195.	0.7	142
74	Interocular control of neuronal responsiveness in cat visual cortex. <i>Nature</i> , 1994, 368, 847-850.	13.7	101
75	Visual response properties and afferents of nucleus of the optic tract in the ferret. <i>Experimental Brain Research</i> , 1990, 83, 178-89.	0.7	41
76	Effects of early monocular deprivation on response properties and afferents of nucleus of the optic tract in the ferret. <i>Experimental Brain Research</i> , 1990, 83, 190-9.	0.7	3