David A Leopold

List of Publications by Year
in descending order

126 papers	17,685 citations	31976 53 h-index	19190 118 g-index
140 all docs	140 docs citations	140 times ranked	14650 citing authors

#	Article	IF	Citations
1	Parallel functional subnetworks embedded in the macaque face patch system. Science Advances, 2022, 8, eabm2054.	10.3	9
2	Self-tuition as an essential design feature of the brain. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20200530.	4.0	4
3	Natural behavior is the language of the brain. Current Biology, 2022, 32, R482-R493.	3.9	53
4	What you see is what you get: visual scanning failures of naturalistic social scenes in schizophrenia. Psychological Medicine, 2021, 51, 2923-2932.	4.5	11
5	Dynamic Suppression of Average Facial Structure Shapes Neural Tuning in Three Macaque Face Patches. Current Biology, 2021, 31, 1-12.e5.	3.9	130
6	Theta, but Not Gamma Oscillations in Area V4 Depend on Input from Primary Visual Cortex. Current Biology, 2021, 31, 635-642.e3.	3.9	16
7	Midbrain activity shapes high-level visual properties in the primate temporal cortex. Neuron, 2021, 109, 690-699.e5.	8.1	32
8	Failure to engage the temporoparietal junction/posterior superior temporal sulcus predicts impaired naturalistic social cognition in schizophrenia. Brain, 2021, 144, 1898-1910.	7.6	14
9	Brain Activity Fluctuations Propagate as Waves Traversing the Cortical Hierarchy. Cerebral Cortex, 2021, 31, 3986-4005.	2.9	43
10	Audiovisual integration in macaque face patch neurons. Current Biology, 2021, 31, 1826-1835.e3.	3.9	30
11	Visualization of iron-rich subcortical structures in non-human primates in vivo by quantitative susceptibility mapping at 3T MRI. NeuroImage, 2021, 241, 118429.	4.2	7
12	Neurophysiology: The Three-Dimensional Building Blocks of Object Vision. Current Biology, 2021, 31, R9-R11.	3.9	1
13	Mortimer Mishkin (1926â€"2021): A life of science with humility and grace. Neuron, 2021, 109, 3392-3394.	8.1	0
14	Single-neuron firing cascades underlie global spontaneous brain events. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
15	Brain Networks Sensitive to Object Novelty, Value, and Their Combination. Cerebral Cortex Communications, 2020, 1, tgaa034.	1.6	14
16	Parallel Processing of Facial Expression and Head Orientation in the Macaque Brain. Journal of Neuroscience, 2020, 40, 8119-8131.	3.6	28
17	Perceptual rivalry across animal species. Journal of Comparative Neurology, 2020, 528, 3123-3133.	1.6	7
18	How the brain pays attention to othersâ€™ attention. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3901-3903.	7.1	3

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19	A resource for the detailed 3D mapping of white matter pathways in the marmoset brain. Nature Neuroscience, 2020, 23, 271-280.	14.8	77
20	Spatial organization of occipital white matter tracts in the common marmoset. Brain Structure and Function, 2020, 225, 1313-1326.	2.3	14
21	Studying the visual brain in its natural rhythm. NeuroImage, 2020, 216, 116790.	4.2	37
22	A parameterized digital 3D model of the Rhesus macaque face for investigating the visual processing of social cues. Journal of Neuroscience Methods, 2019, 324, 108309.	2.5	23
23	Thalamus exhibits less sensory variability quenching than cortex. Scientific Reports, 2019, 9, 7590.	3.3	8
24	Anatomical and functional investigation of the marmoset default mode network. Nature Communications, 2019, 10, 1975.	12.8	82
25	Spatial Attention Deficits Are Causally Linked to an Area in Macaque Temporal Cortex. Current Biology, 2019, 29, 726-736.e4.	3.9	39
26	The Marmoset as a Model for Visual Neuroscience. , 2019, , 377-413.		4
27	Spiking Suppression Precedes Cued Attentional Enhancement of Neural Responses in Primary Visual Cortex. Cerebral Cortex, 2019, 29, 77-90.	2.9	28
28	Local image features dominate responses of AM and AF face patch neurons. Journal of Vision, 2019, 19, 259b.	0.3	0
29	The Basal Forebrain Regulates Global Resting-State fMRI Fluctuations. Neuron, 2018, 97, 940-952.e4.	8.1	181
30	Subcortical evidence for a contribution of arousal to fMRI studies of brain activity. Nature Communications, 2018, 9, 395.	12.8	174
31	Temporalâ€“prefrontal cortical network for discrimination of valuable objects in long-term memory. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2135-E2144.	7.1	42
32	Morphometric Similarity Networks Detect Microscale Cortical Organization and Predict Inter-Individual Cognitive Variation. Neuron, 2018, 97, 231-247.e7.	8.1	307
33	Visual Cortex: The Eccentric Area Prostriata in the Human Brain. Current Biology, 2018, 28, R17-R19.	3.9	20
34	Transient visual pathway critical for normal development of primate grasping behavior. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1364-1369.	7.1	51
35	A population MRI brain template and analysis tools for the macaque. NeuroImage, 2018, 170, 121-131.	4.2	165
36	A digital 3D atlas of the marmoset brain based on multi-modal MRI. NeuroImage, 2018, 169, 106-116.	4.2	127

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37	Brain regions modulated during covert visual attention in the macaque. Scientific Reports, 2018, 8, 15237.	3.3	31
38	An Open Resource for Non-human Primate Imaging. Neuron, 2018, 100, 61-74.e2.	8.1	190
39	Three-Dimensional Digital Template Atlas of the Macaque Brain. Cerebral Cortex, 2017, 27, 4463-4477.	2.9	145
40	Ongoing Alpha Activity in V1 Regulates Visually Driven Spiking Responses. Cerebral Cortex, 2017, 27, 1113-1124.	2.9	46
41	Human Neurophysiology: Sampling the Perceptual World. Current Biology, 2017, 27, R71-R73.	3.9	0
42	Occipital White Matter Tracts in Human and Macaque. Cerebral Cortex, 2017, 27, 3346-3359.	2.9	73
43	Functional magnetic resonance imaging of auditory cortical fields in awake marmosets. NeuroImage, 2017, 162, 86-92.	4.2	21
44	Functional Subpopulations of Neurons in a Macaque Face Patch Revealed by Single-Unit fMRI Mapping. Neuron, 2017, 95, 971-981.e5.	8.1	40
45	Face Pareidolia in the Rhesus Monkey. Current Biology, 2017, 27, 2505-2509.e2.	3.9	72
46	Design and implementation of embedded 8â€channel receiveâ€only arrays for wholeâ€brain MRI and fMRI of conscious awake marmosets. Magnetic Resonance in Medicine, 2017, 78, 387-398.	3.0	18
47	Lesions to right posterior parietal cortex impair visual depth perception from disparity but not motion cues. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150263.	4.0	11
48	Correlated activity of cortical neurons survives extensive removal of feedforward sensory input. Scientific Reports, 2016, 6, 34886.	3.3	11
49	Tracking brain arousal fluctuations with fMRI. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4518-4523.	7.1	269
50	Marmosets: A Neuroscientific Model of Human Social Behavior. Neuron, 2016, 90, 219-233.	8.1	260
51	Distinct fMRI Responses to Self-Induced versus Stimulus Motion during Free Viewing in the Macaque. Journal of Neuroscience, 2016, 36, 9580-9589.	3.6	21
52	Adaptive Pulvinar Circuitry Supports Visual Cognition. Trends in Cognitive Sciences, 2016, 20, 146-157.	7.8	138
53	Functional Mapping of Face-Selective Regions in the Extrastriate Visual Cortex of the Marmoset. Journal of Neuroscience, 2015, 35, 1160-1172.	3.6	137
54	Functional MRI mapping of dynamic visual features during natural viewing in the macaque. NeuroImage, 2015, 109, 84-94.	4.2	90

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55	The marmoset monkey as a model for visual neuroscience. Neuroscience Research, 2015, 93, 20-46.	1.9	189
56	Functional MRI of visual responses in the awake, behaving marmoset. NeuroImage, 2015, 120, 1-11.	4.2	61
57	Arousal transitions in sleep, wakefulness, and anesthesia are characterized by an orderly sequence of cortical events. NeuroImage, 2015, 116, 222-231.	4.2	59
58	Superficial white matter fiber systems impede detection of long-range cortical connections in diffusion MR tractography. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2820-8.	7.1	364
59	Neurons in the Primate Medial Basal Forebrain Signal Combined Information about Reward Uncertainty, Value, and Punishment Anticipation. Journal of Neuroscience, 2015, 35, 7443-7459.	3.6	47
60	Brains, Genes, and Primates. Neuron, 2015, 86, 617-631.	8.1	231
61	Single-Unit Activity during Natural Vision: Diversity, Consistency, and Spatial Sensitivity among AF Face Patch Neurons. Journal of Neuroscience, 2015, 35, 5537-5548.	3.6	54
62	Robust Long-Range Coordination of Spontaneous Neural Activity in Waking, Sleep and Anesthesia. Cerebral Cortex, 2015, 25, 2929-2938.	2.9	33
63	Perceptual memory drives learning of retinotopic biases for bistable stimuli. Frontiers in Psychology, 2014, 5, 60.	2.1	7
64	Anisotropy of ongoing neural activity in the primate visual cortex. Eye and Brain, 2014, 6, 113.	2.5	8
65	Beta Oscillation Dynamics in Extrastriate Cortex after Removal of Primary Visual Cortex. Journal of Neuroscience, 2014, 34, 11857-11864.	3.6	42
66	Differential Coding of Conspecific Vocalizations in the Ventral Auditory Cortical Stream. Journal of Neuroscience, 2014, 34, 4665-4676.	3.6	39
67	Anatomical accuracy of brain connections derived from diffusion MRI tractography is inherently limited. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16574-16579.	7.1	657
68	One month in the life of a neuron: longitudinal single-unit electrophysiology in the monkey visual system. Journal of Neurophysiology, 2014, 112, 1748-1762.	1.8	57
69	Face-selective neurons maintain consistent visual responses across months. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8251-8256.	7.1	67
70	pyElectrode: An open-source tool using structural MRI for electrode positioning and neuron mapping. Journal of Neuroscience Methods, 2013, 213, 123-131.	2.5	21
71	fMRI in the awake marmoset: Somatosensory-evoked responses, functional connectivity, and comparison with propofol anesthesia. NeuroImage, 2013, 78, 186-195.	4.2	87
72	The contribution of electrophysiology to functional connectivity mapping. NeuroImage, 2013, 80, 297-306.	4.2	79

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73	Dynamic functional connectivity: Promise, issues, and interpretations. NeuroImage, 2013, 80, 360-378.	4.2	2,358
74	Motion-Sensitive Responses in Visual Area V4 in the Absence of Primary Visual Cortex. Journal of Neuroscience, 2013, 33, 18740-18745.	3.6	30
75	Receptive field focus of visual area V4 neurons determines responses to illusory surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17095-17100.	7.1	60
76	Layer-Specific Entrainment of Gamma-Band Neural Activity by the Alpha Rhythm in Monkey Visual Cortex. Current Biology, 2012, 22, 2313-2318.	3.9	337
77	Spontaneous High-Gamma Band Activity Reflects Functional Organization of Auditory Cortex in the Awake Macaque. Neuron, 2012, 74, 899-910.	8.1	69
78	Ongoing physiological processes in the cerebral cortex. NeuroImage, 2012, 62, 2190-2200.	4.2	114
79	Primary Visual Cortex: Awareness and Blindsight. Annual Review of Neuroscience, 2012, 35, 91-109.	10.7	130
80	Stimulus Timing-Dependent Plasticity in High-Level Vision. Current Biology, 2012, 22, 332-337.	3.9	32
81	Infragranular Sources of Sustained Local Field Potential Responses in Macaque Primary Visual Cortex. Journal of Neuroscience, 2011, 31, 1971-1980.	3.6	94
82	What is it like to be a human?. Cognitive Neuroscience, 2011, 2, 121-122.	1.4	0
83	Adaptive Norm-Based Coding of Face Identity. , 2011, , .		14
84	A comparative view of face perception.. Journal of Comparative Psychology (Washington, D C: 1983), 2010, 124, 233-251.	0.5	229
85	Blindsight depends on the lateral geniculate nucleus. Nature, 2010, 466, 373-377.	27.8	324
86	fMRI under the spotlight. Nature, 2010, 465, 700-701.	27.8	11
87	Distinct Superficial and deep laminar domains of activity in the visual cortex during rest and stimulation. Frontiers in Systems Neuroscience, 2010, 4, .	2.5	191
88	Pulvinar Inactivation Disrupts Selection of Movement Plans. Journal of Neuroscience, 2010, 30, 8650-8659.	3.6	141
89	Neural basis of global resting-state fMRI activity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10238-10243.	7.1	860
90	Effect of sound intensity on tonotopic fMRI maps in the unanesthetized monkey. NeuroImage, 2010, 49, 150-157.	4.2	48

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91	Long-Term Stability of Visual Pattern Selective Responses of Monkey Temporal Lobe Neurons. PLoS ONE, 2009, 4, e8222.	2.5	48
92	Neural activity in the visual thalamus reflects perceptual suppression. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9465-9470.	7.1	152
93	Ipsilateral cortical fMRI responses after peripheral nerve damage in rats reflect increased interneuron activity. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14114-14119.	7.1	67
94	Visibility states modulate microsaccade rate and direction. Vision Research, 2009, 49, 228-236.	1.4	52
95	Pre-emptive blood flow. Nature, 2009, 457, 387-388.	27.8	18
96	Dissociable Perceptual Effects of Visual Adaptation. PLoS ONE, 2009, 4, e6183.	2.5	11
97	Neuronal correlates of spontaneous fluctuations in fMRI signals in monkey visual cortex: Implications for functional connectivity at rest. Human Brain Mapping, 2008, 29, 751-761.	3.6	529
98	Divergence of fMRI and neural signals in V1 during perceptual suppression in the awake monkey. Nature Neuroscience, 2008, 11, 1193-1200.	14.8	272
99	Spatiotemporal Integration of Neuronal Activity for Single-Trial Classifications of Bistable Perception. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	0
100	Context-dependent perceptual modulation of single neurons in primate visual cortex. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5620-5625.	7.1	37
101	Single-trial evoked potential estimation using wavelets. Computers in Biology and Medicine, 2007, 37, 463-473.	7.0	68
102	The timecourse of higher-level face aftereffects. Vision Research, 2007, 47, 2291-2296.	1.4	94
103	Relaxation-Based Multichannel Signal Combination (RELAX-MUSIC) for ROC Analysis of Percept-Related Neuronal Activity. IEEE Transactions on Biomedical Engineering, 2006, 53, 2615-2618.	4.2	4
104	Norm-based face encoding by single neurons in the monkey inferotemporal cortex. Nature, 2006, 442, 572-575.	27.8	366
105	Large-amplitude, spatially correlated fluctuations in BOLD fMRI signals during extended rest and early sleep stages. Magnetic Resonance Imaging, 2006, 24, 979-992.	1.8	326
106	Neuroimaging: Perception at the Brain's Core. Current Biology, 2006, 16, R95-R98.	3.9	5
107	Local field potential reflects perceptual suppression in monkey visual cortex. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17507-17512.	7.1	166
108	Neuroimaging: Seeing the Trees for the Forest. Current Biology, 2005, 15, R766-R768.	3.9	2

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109	Physiologically inspired neural model for the encoding of face spaces. Neurocomputing, 2005, 65-66, 93-101.	5.9	30
110	The dynamics of visual adaptation to faces. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 897-904.	2.6	207
111	Global competition dictates local suppression in pattern rivalry. Journal of Vision, 2005, 5, 2.	0.3	22
112	Adaptation to Complex Visual Patterns in Humans and Monkeys. , 2005, , 189-212.		11
113	Visual Perception: Shaping What We See. Current Biology, 2003, 13, R10-R12.	3.9	6
114	Perception of Temporally Interleaved Ambiguous Patterns. Current Biology, 2003, 13, 1076-1085.	3.9	101
115	Motion perception: read my LIP. Nature Neuroscience, 2003, 6, 548-549.	14.8	1
116	Generalized Flash Suppression of Salient Visual Targets. Neuron, 2003, 39, 1043-1052.	8.1	102
117	Spatial Patterns of Spontaneous Local Field Activity in the Monkey Visual Cortex. Reviews in the Neurosciences, 2003, 14, 195-205.	2.9	50
118	Very Slow Activity Fluctuations in Monkey Visual Cortex: Implications for Functional Brain Imaging. Cerebral Cortex, 2003, 13, 422-433.	2.9	594
119	Visual Neurophysiology: Recordings from the Human Primate. Current Biology, 2002, 12, R582-R584.	3.9	2
120	Visual processing in the ketamine-anesthetized monkey. Experimental Brain Research, 2002, 143, 359-372.	1.5	37
121	Stable perception of visually ambiguous patterns. Nature Neuroscience, 2002, 5, 605-609.	14.8	328
122	Stable perception of visually ambiguous patterns. Nature Neuroscience, 2002, 5, 605-609.	14.8	99
123	Prototype-referenced shape encoding revealed by high-level aftereffects. Nature Neuroscience, 2001, 4, 89-94.	14.8	755
124	Multistable phenomena: changing views in perception. Trends in Cognitive Sciences, 1999, 3, 254-264.	7.8	1,109
125	Activity changes in early visual cortex reflect monkeys' percepts during binocular rivalry. Nature, 1996, 379, 549-553.	27.8	916
126	What is rivalling during binocular rivalry?. Nature, 1996, 380, 621-624.	27.8	570