

Jonathan D Victor

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

216 papers	10,013 citations	54 h-index	93 g-index
247 ext. papers	11,408 ext. citations	4.9 avg, IF	6.26 L-index

#	Paper	IF	Citations
216	Behavioural improvements with thalamic stimulation after severe traumatic brain injury. <i>Nature</i> , 2007 , 448, 600-3	50.4	691
215	Nature and precision of temporal coding in visual cortex: a metric-space analysis. <i>Journal of Neurophysiology</i> , 1996 , 76, 1310-26	3.2	445
214	The effect of contrast on the transfer properties of cat retinal ganglion cells. <i>Journal of Physiology</i> , 1978 , 285, 275-98	3.9	408
213	A new statistic for steady-state evoked potentials. <i>Electroencephalography and Clinical Neurophysiology</i> , 1991 , 78, 378-88		224
212	Metric-space analysis of spike trains: theory, algorithms and application. <i>Network: Computation in Neural Systems</i> , 1997 , 8, 127-164	0.7	221
211	Sparse coding and high-order correlations in fine-scale cortical networks. <i>Nature</i> , 2010 , 466, 617-21	50.4	220
210	Independent and redundant information in nearby cortical neurons. <i>Science</i> , 2001 , 294, 2566-8	33.3	218
209	The use of m-sequences in the analysis of visual neurons: linear receptive field properties. <i>Visual Neuroscience</i> , 1997 , 14, 1015-27	1.7	189
208	An integrated functional magnetic resonance imaging procedure for preoperative mapping of cortical areas associated with tactile, motor, language, and visual functions. <i>Neurosurgery</i> , 2000 , 47, 711-21; discussion 721-2	3.2	187
207	The dynamics of the cat retinal X cell centre. <i>Journal of Physiology</i> , 1987 , 386, 219-46	3.9	180
206	Visual discrimination of textures with identical third-order statistics. <i>Biological Cybernetics</i> , 1978 , 31, 137-40	2.8	179
205	Illusory contours activate specific regions in human visual cortex: evidence from functional magnetic resonance imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 6469-73	11.5	176
204	Temporal coding of contrast in primary visual cortex: when, what, and why. <i>Journal of Neurophysiology</i> , 2001 , 85, 1039-50	3.2	170
203	Response variability and timing precision of neuronal spike trains in vivo. <i>Journal of Neurophysiology</i> , 1997 , 77, 2836-41	3.2	164
202	Determination of awareness in patients with severe brain injury using EEG power spectral analysis. <i>Clinical Neurophysiology</i> , 2011 , 122, 2157-68	4.3	159
201	Binless strategies for estimation of information from neural data. <i>Physical Review E</i> , 2002 , 66, 051903	2.4	139
200	The nonlinear pathway of Y ganglion cells in the cat retina. <i>Journal of General Physiology</i> , 1979 , 74, 671-89	3.4	138

199	Spike train metrics. <i>Current Opinion in Neurobiology</i> , 2005 , 15, 585-92	7.6	133
198	Metric-space analysis of spike trains: theory, algorithms and application		129
197	Temporal encoding of spatial information during active visual fixation. <i>Current Biology</i> , 2012 , 22, 510-4	6.3	125
196	Taste response variability and temporal coding in the nucleus of the solitary tract of the rat. <i>Journal of Neurophysiology</i> , 2003 , 90, 1418-31	3.2	121
195	Interspike intervals, receptive fields, and information encoding in primary visual cortex. <i>Journal of Neuroscience</i> , 2000 , 20, 1964-74	6.6	118
194	Local structure theory for cellular automata. <i>Physica D: Nonlinear Phenomena</i> , 1987 , 28, 18-48	3.3	118
193	The unsteady eye: an information-processing stage, not a bug. <i>Trends in Neurosciences</i> , 2015 , 38, 195-206	3.3	105
192	A method of nonlinear analysis in the frequency domain. <i>Biophysical Journal</i> , 1980 , 29, 459-83	2.9	105
191	The contrast gain control of the cat retina. <i>Vision Research</i> , 1979 , 19, 431-4	2.1	98
190	Nonlinear spatial summation and the contrast gain control of cat retinal ganglion cells. <i>Journal of Physiology</i> , 1979 , 290, 141-61	3.9	98
189	Preservation of electroencephalographic organization in patients with impaired consciousness and imaging-based evidence of command-following. <i>Annals of Neurology</i> , 2014 , 76, 869-79	9.4	96
188	Nonlinear analysis with an arbitrary stimulus ensemble. <i>Quarterly of Applied Mathematics</i> , 1979 , 37, 113-136	3.6	96
187	Visual evoked potentials in dyslexics and normals: failure to find a difference in transient or steady-state responses. <i>Visual Neuroscience</i> , 1993 , 10, 939-46	1.7	95
186	Concordance between functional magnetic resonance imaging and intraoperative language mapping. <i>Stereotactic and Functional Neurosurgery</i> , 1999 , 72, 95-102	1.6	86
185	Receptive field mechanisms of cat X and Y retinal ganglion cells. <i>Journal of General Physiology</i> , 1979 , 74, 275-98	3.4	85
184	Robust temporal coding of contrast by V1 neurons for transient but not for steady-state stimuli. <i>Journal of Neuroscience</i> , 1998 , 18, 6583-98	6.6	83
183	Natural scene statistics relate to perceptual salience of second-, third-, and fourth-order spatial correlations. <i>BMC Neuroscience</i> , 2013 , 14,	3.2	78
182	Developing and validating an isotrison texture discrimination task using Amazon Mechanical Turk. <i>BMC Neuroscience</i> , 2015 , 16,	3.2	78

181	Towards massively-parallel analytic capabilities for multielectrode recordings. <i>BMC Neuroscience</i> , 2011 , 12,	3.2	78
180	Large-scale brain dynamics in disorders of consciousness. <i>Current Opinion in Neurobiology</i> , 2014 , 25, 7-14.	7.6	76
179	The power ratio and the interval map: spiking models and extracellular recordings. <i>Journal of Neuroscience</i> , 1998 , 18, 10090-104	6.6	76
178	Broadband temporal stimuli decrease the integration time of neurons in cat striate cortex. <i>Visual Neuroscience</i> , 1992 , 9, 39-45	1.7	73
177	Hyperacuity in cat retinal ganglion cells. <i>Science</i> , 1986 , 231, 999-1002	33.3	73
176	Two-frequency analysis of interactions elicited by Vernier stimuli. <i>Visual Neuroscience</i> , 2000 , 17, 959-73	1.7	72
175	Reanalysis of "Bedside detection of awareness in the vegetative state: a cohort study". <i>Lancet</i> , 2013 , 381, 289-91	4.0	71
174	Approaches to Information-Theoretic Analysis of Neural Activity. <i>Biological Theory</i> , 2006 , 1, 302-316	1.7	69
173	Nonlinear analysis of cat retinal ganglion cells in the frequency domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1977 , 74, 3068-72	11.5	69
172	Spatial organization of nonlinear interactions in form perception. <i>Vision Research</i> , 1991 , 31, 1457-88	2.1	68
171	Common resting brain dynamics indicate a possible mechanism underlying zolpidem response in severe brain injury. <i>eLife</i> , 2013 , 2, e01157	8.9	66
170	A population study of integrate-and-fire-or-burst neurons. <i>Neural Computation</i> , 2002 , 14, 957-86	2.9	65
169	A two-dimensional computer-controlled visual stimulator. <i>Behavior Research Methods</i> , 1980 , 12, 283-292.	6.1	64
168	Neural coding of spatial phase in V1 of the macaque monkey. <i>Journal of Neurophysiology</i> , 2003 , 89, 3304-27	3.2	62
167	Fluctuations of steady-state VEPs: interaction of driven evoked potentials and the EEG. <i>Electroencephalography and Clinical Neurophysiology</i> , 1991 , 78, 389-401		59
166	Local statistics in natural scenes predict the saliency of synthetic textures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 18149-54	11.5	58
165	Quality time: representation of a multidimensional sensory domain through temporal coding. <i>Journal of Neuroscience</i> , 2009 , 29, 9227-38	6.6	57
164	Elementary sensory-motor transformations underlying olfactory navigation in walking fruit-flies. <i>eLife</i> , 2018 , 7,	8.9	55

163	Variability in responses and temporal coding of tastants of similar quality in the nucleus of the solitary tract of the rat. <i>Journal of Neurophysiology</i> , 2008 , 99, 644-55	3.2	53
162	Analyzing receptive fields, classification images and functional images: challenges with opportunities for synergy. <i>Nature Neuroscience</i> , 2005 , 8, 1651-6	25.5	53
161	Symmetry breakdown in the ON and OFF pathways of the retina at night: functional implications. <i>Journal of Neuroscience</i> , 2010 , 30, 10006-14	6.6	51
160	Nonlinear preprocessing in short-range motion. <i>Vision Research</i> , 1997 , 37, 1459-77	2.1	51
159	The dynamics of the cat retinal Y cell subunit. <i>Journal of Physiology</i> , 1988 , 405, 289-320	3.9	50
158	How the brain uses time to represent and process visual information(1). <i>Brain Research</i> , 2000 , 886, 33-46	3.7	49
157	Striate cortex extracts higher-order spatial correlations from visual textures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 8482-6	11.5	49
156	Reading a population code: a multi-scale neural model for representing binocular disparity. <i>Vision Research</i> , 2003 , 43, 445-66	2.1	48
155	Power spectra and coherence in the EEG of a vegetative patient with severe asymmetric brain damage. <i>Clinical Neurophysiology</i> , 2000 , 111, 1949-54	4.3	48
154	Visual function and brain organization in non-decussating retinal-fugal fibre syndrome. <i>Cerebral Cortex</i> , 2000 , 10, 2-22	5.1	47
153	Detection and discrimination of relative spatial phase by V1 neurons. <i>Journal of Neuroscience</i> , 2002 , 22, 6129-57	6.6	46
152	Cortical interactions in texture processing: scale and dynamics. <i>Visual Neuroscience</i> , 1989 , 2, 297-313	1.7	44
151	The effect of contrast on the non-linear response of the Y cell. <i>Journal of Physiology</i> , 1980 , 302, 535-47	3.9	42
150	Recognizing Taste: Coding Patterns Along the Neural Axis in Mammals. <i>Chemical Senses</i> , 2019 , 44, 237-247	4.8	40
149	Spatial phase and the temporal structure of the response to gratings in V1. <i>Journal of Neurophysiology</i> , 1998 , 80, 554-71	3.2	40
148	Predictive value of facial nerve electrophysiologic stimulation thresholds in cerebellopontine-angle surgery. <i>Laryngoscope</i> , 1996 , 106, 633-8	3.6	40
147	Long-term stability of visual pattern selective responses of monkey temporal lobe neurons. <i>PLoS ONE</i> , 2009 , 4, e8222	3.7	39
146	Spike train analysis toolkit: enabling wider application of information-theoretic techniques to neurophysiology. <i>Neuroinformatics</i> , 2009 , 7, 165-78	3.2	38

145	A Bayesian statistical analysis of behavioral facilitation associated with deep brain stimulation. <i>Journal of Neuroscience Methods</i> , 2009 , 183, 267-76	3	38
144	Variance predicts salience in central sensory processing. <i>ELife</i> , 2014 , 3,	8.9	36
143	Taste coding in the nucleus of the solitary tract of the awake, freely licking rat. <i>Journal of Neuroscience</i> , 2012 , 32, 10494-506	6.6	35
142	Consequences of the Oculomotor Cycle for the Dynamics of Perception. <i>Current Biology</i> , 2017 , 27, 1268-1277	6.3	34
141	The visual input to the retina during natural head-free fixation. <i>Journal of Neuroscience</i> , 2014 , 34, 12701-15	4.5	34
140	Responses of V1 neurons to two-dimensional hermite functions. <i>Journal of Neurophysiology</i> , 2006 , 95, 379-400	3.2	34
139	Asymptotic bias in information estimates and the exponential (Bell) polynomials. <i>Neural Computation</i> , 2000 , 12, 2797-804	2.9	34
138	Nonlinear systems analysis: comparison of white noise and sum of sinusoids in a biological system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1979 , 76, 996-8	11.5	34
137	The role of high-order phase correlations in texture processing. <i>Vision Research</i> , 1996 , 36, 1615-31	2.1	33
136	Motion mechanisms have only limited access to form information. <i>Vision Research</i> , 1990 , 30, 289-301	2.1	33
135	Mean-field modeling of thalamocortical dynamics and a model-driven approach to EEG analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108 Suppl 3, 15631-8	11.5	32
134	Local image statistics: maximum-entropy constructions and perceptual salience. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012 , 29, 1313-45	1.8	32
133	Relationship of petrous temporal bone pneumatization to the eustachian tube lumen. <i>Laryngoscope</i> , 2004 , 114, 656-60	3.6	32
132	Formal and attribute-specific information in primary visual cortex. <i>Journal of Neurophysiology</i> , 2001 , 85, 305-18	3.2	32
131	The human visual evoked potential: analysis of components due to elementary and complex aspects of form. <i>Vision Research</i> , 1985 , 25, 1829-42	2.1	32
130	Three-dimensional localization of neurons in cortical tetrode recordings. <i>Journal of Neurophysiology</i> , 2011 , 106, 828-48	3.2	31
129	Interaction of luminance and higher-order statistics in texture discrimination. <i>Vision Research</i> , 2005 , 45, 311-28	2.1	30
128	Analyzing the activity of large populations of neurons: how tractable is the problem?. <i>Current Opinion in Neurobiology</i> , 2007 , 17, 397-400	7.6	29

127	Visual processing of informative multipoint correlations arises primarily in V2. <i>ELife</i> , 2015 , 4, e06604	8.9	29
126	Non-Euclidean properties of spike train metric spaces. <i>Physical Review E</i> , 2004 , 69, 061905	2.4	28
125	Odor-taste convergence in the nucleus of the solitary tract of the awake freely licking rat. <i>Journal of Neuroscience</i> , 2015 , 35, 6284-97	6.6	26
124	A set of high-order spatiotemporal stimuli that elicit motion and reverse-phi percepts. <i>Journal of Vision</i> , 2010 , 10, 9.1-16	0.4	26
123	Complex visual textures as a tool for studying the VEP. <i>Vision Research</i> , 1985 , 25, 1811-27	2.1	26
122	Information-geometric measure of 3-neuron firing patterns characterizes scale-dependence in cortical networks. <i>Journal of Computational Neuroscience</i> , 2011 , 30, 125-41	1.4	25
121	Temporal coding of taste in the parabrachial nucleus of the pons of the rat. <i>Journal of Neurophysiology</i> , 2011 , 105, 1889-96	3.2	25
120	Dynamics of coupled thalamocortical modules. <i>Journal of Computational Neuroscience</i> , 2010 , 28, 605-16	1.4	25
119	The intrinsic dynamics of retinal bipolar cells isolated from tiger salamander. <i>Visual Neuroscience</i> , 1998 , 15, 425-38	1.7	25
118	Temporal aspects of neural coding in the retina and lateral geniculate. <i>Network: Computation in Neural Systems</i> , 1999 , 10, R1-R66	0.7	25
117	Images, statistics, and textures: implications of triple correlation uniqueness for texture statistics and the Julesz conjecture: comment. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1994 , 11, 1680	1.8	25
116	VEPs elicited by local correlations and global symmetry: characteristics and interactions. <i>Vision Research</i> , 2007 , 47, 2212-22	2.1	24
115	Intra-arterial cisplatin--associated optic and otic toxicity. <i>Archives of Neurology</i> , 1992 , 49, 83-6		24
114	Coherence and transparency of moving plaids composed of Fourier and non-Fourier gratings. <i>Perception & Psychophysics</i> , 1992 , 52, 403-14		24
113	A novel antineuronal antibody in stiff-man syndrome. <i>Neurology</i> , 1993 , 43, 114-20	6.5	24
112	Temporal aspects of neural coding in the retina and lateral geniculate. <i>Network: Computation in Neural Systems</i> , 1999 , 10, R1-66	0.7	24
111	Temporal coding of intensity of NaCl and HCl in the nucleus of the solitary tract of the rat. <i>Journal of Neurophysiology</i> , 2011 , 105, 697-711	3.2	23
110	Visual working memory for image statistics. <i>Vision Research</i> , 2004 , 44, 541-56	2.1	23

109	Common dynamics in temporal lobe seizures and absence seizures. <i>Neuroscience</i> , 1999 , 91, 417-28	3.9	23
108	Taste coding in the parabrachial nucleus of the pons in awake, freely licking rats and comparison with the nucleus of the solitary tract. <i>Journal of Neurophysiology</i> , 2014 , 111, 1655-70	3.2	22
107	Interacting linear and nonlinear characteristics produce population coding asymmetries between ON and OFF cells in the retina. <i>Journal of Neuroscience</i> , 2013 , 33, 14958-73	6.6	22
106	Neural coding mechanisms for flow rate in taste-responsive cells in the nucleus of the solitary tract of the rat. <i>Journal of Neurophysiology</i> , 2007 , 97, 1857-61	3.2	21
105	General strategy for hierarchical decomposition of multivariate time series: implications for temporal lobe seizures. <i>Annals of Biomedical Engineering</i> , 2001 , 29, 1135-49	4.7	21
104	Information-theoretic analysis of realistic odor plumes: What cues are useful for determining location?. <i>PLoS Computational Biology</i> , 2018 , 14, e1006275	5	20
103	Sensory coding in cortical neurons. Recent results and speculations. <i>Annals of the New York Academy of Sciences</i> , 1997 , 835, 330-52	6.5	20
102	Textures as Probes of Visual Processing. <i>Annual Review of Vision Science</i> , 2017 , 3, 275-296	8.2	19
101	A novel mechanism for switching a neural system from one state to another. <i>Frontiers in Computational Neuroscience</i> , 2010 , 4, 2	3.5	19
100	Temporal impulse responses from flicker sensitivities: causality, linearity, and amplitude data do not determine phase. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1989 , 6, 1302-3	1.8	19
99	Responses to orientation discontinuities in V1 and V2: physiological dissociations and functional implications. <i>Journal of Neuroscience</i> , 2014 , 34, 3559-78	6.6	18
98	Dynamic shifts of the contrast-response function. <i>Visual Neuroscience</i> , 1997 , 14, 577-87	1.7	18
97	Response variability of marmoset parvocellular neurons. <i>Journal of Physiology</i> , 2007 , 579, 29-51	3.9	18
96	Local structure theory: Calculation on hexagonal arrays, and interaction of rule and lattice. <i>Journal of Statistical Physics</i> , 1989 , 54, 495-514	1.5	18
95	Temporal aspects of neural coding in the retina and lateral geniculate		18
94	Possible functions of contextual modulations and receptive field nonlinearities: pop-out and texture segmentation. <i>Vision Research</i> , 2014 , 104, 57-67	2.1	17
93	Perceptual spaces: mathematical structures to neural mechanisms. <i>Journal of Neuroscience</i> , 2013 , 33, 17597-602	6.6	17
92	Perception of second- and third-order orientation signals and their interactions. <i>Journal of Vision</i> , 2013 , 13, 21	0.4	17

91	Temporal phase discrimination depends critically on separation. <i>Vision Research</i> , 2002 , 42, 2063-71	2.1	17
90	Evoked potential and psychophysical analysis of Fourier and non-Fourier motion mechanisms. <i>Visual Neuroscience</i> , 1992 , 9, 105-23	1.7	17
89	Role of hyperpolarization-activated currents for the intrinsic dynamics of isolated retinal neurons. <i>Biophysical Journal</i> , 2003 , 84, 2756-67	2.9	16
88	Heterogeneous response dynamics in retinal ganglion cells: the interplay of predictive coding and adaptation. <i>Journal of Neurophysiology</i> , 2010 , 103, 3184-94	3.2	15
87	Subpopulations of neurons in visual area v2 perform differentiation and integration operations in space and time. <i>Frontiers in Systems Neuroscience</i> , 2009 , 3, 15	3.5	15
86	Characteristic nonlinearities of the 3/s ictal electroencephalogram identified by nonlinear autoregressive analysis. <i>Biological Cybernetics</i> , 1995 , 72, 519-26	2.8	15
85	A perceptual space of local image statistics. <i>Vision Research</i> , 2015 , 117, 117-35	2.1	14
84	Dynamic programming algorithms for comparing multineuronal spike trains via cost-based metrics and alignments. <i>Journal of Neuroscience Methods</i> , 2007 , 161, 351-60	3	14
83	Discriminable textures with identical buffon needle statistics. <i>Biological Cybernetics</i> , 1978 , 31, 231-234	2.8	14
82	Taste coding of complex naturalistic taste stimuli and traditional taste stimuli in the parabrachial pons of the awake, freely licking rat. <i>Journal of Neurophysiology</i> , 2016 , 116, 171-82	3.2	13
81	Computational modeling of non-Fourier motion: further evidence for a single luminance-based mechanism. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2001 , 18, 2204-8	1.8	13
80	Isolation of components due to intracortical processing in the visual evoked potential. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1986 , 83, 7984-8	11.5	13
79	Attentional modulation of adaptation in V4. <i>European Journal of Neuroscience</i> , 2009 , 30, 151-71	3.5	12
78	Information processing in the parabrachial nucleus of the pons. <i>Annals of the New York Academy of Sciences</i> , 2009 , 1170, 365-71	6.5	12
77	Neither occlusion constraint nor binocular disparity accounts for the perceived depth in the 'sieve effect'. <i>Vision Research</i> , 2000 , 40, 2265-76	2.1	12
76	Scaling effects in the perception of higher-order spatial correlations. <i>Vision Research</i> , 1997 , 37, 3097-107	2.1	11
75	Illusory contour strength does not depend on the dynamics or relative phase of the inducers. <i>Vision Research</i> , 2000 , 40, 3475-83	2.1	11
74	Models for preattentive texture discrimination: Fourier analysis and local feature processing in a unified framework. <i>Spatial Vision</i> , 1988 , 3, 263-80		11

73	Cannabinoid neuromodulation in the adult early visual cortex. <i>PLoS ONE</i> , 2014 , 9, e87362	3.7	10
72	Contextual modulation of V1 receptive fields depends on their spatial symmetry. <i>Journal of Computational Neuroscience</i> , 2009 , 26, 203-18	1.4	10
71	Assessment of variation throughout the year in the incidence of idiopathic sudden sensorineural hearing loss. <i>Otology and Neurotology</i> , 2010 , 31, 53-7	2.6	10
70	Multilevel isotrigon textures. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007 , 24, 278-93	1.8	10
69	Investigation of a patient with severely impaired direction discrimination: evidence against the intersection-of-constraints model. <i>Vision Research</i> , 1994 , 34, 267-77	2.1	10
68	Asymptotic approach of generalized orthogonal functional expansions to Wiener kernels. <i>Annals of Biomedical Engineering</i> , 1991 , 19, 383-99	4.7	10
67	The fractal dimension of a test signal: implications for system identification procedures. <i>Biological Cybernetics</i> , 1987 , 57, 421-6	2.8	10
66	Detecting symmetry and faces: separating the tasks and identifying their interactions. <i>Attention, Perception, and Psychophysics</i> , 2012 , 74, 988-1000	2	9
65	Relation between potassium-channel kinetics and the intrinsic dynamics in isolated retinal bipolar cells. <i>Journal of Computational Neuroscience</i> , 2002 , 12, 147-63	1.4	9
64	Gating of local network signals appears as stimulus-dependent activity envelopes in striate cortex. <i>Journal of Neurophysiology</i> , 1999 , 82, 2182-96	3.2	9
63	Source geometry and dynamics of the visual evoked potential. <i>Electroencephalography and Clinical Neurophysiology</i> , 1986 , 64, 308-27		9
62	Laminar and orientation-dependent characteristics of spatial nonlinearities: implications for the computational architecture of visual cortex. <i>Journal of Neurophysiology</i> , 2009 , 102, 3414-32	3.2	8
61	Local processes and spatial pooling in texture and symmetry detection. <i>Vision Research</i> , 2005 , 45, 1063-73	2.1	8
60	Chromatic and luminance interactions in spatial contrast signals. <i>Visual Neuroscience</i> , 1998 , 15, 607-24	1.7	8
59	A relation between the Akaike criterion and reliability of parameter estimates, with application to nonlinear autoregressive modelling of ictal EEG. <i>Annals of Biomedical Engineering</i> , 1992 , 20, 167-80	4.7	8
58	Maximum-entropy approximations of stochastic nonlinear transductions: an extension of the Wiener theory. <i>Biological Cybernetics</i> , 1986 , 54, 289-300	2.8	8
57	Contrast sensitivity reveals an oculomotor strategy for temporally encoding space. <i>ELife</i> , 2019 , 8,	8.9	8
56	Spatiotemporal Content of Saccade Transients. <i>Current Biology</i> , 2020 , 30, 3999-4008.e2	6.3	8

55	An Extension of the M-Sequence Technique for the Analysis of Multi-Input Nonlinear Systems 1994 , 87-110	8
54	Olfactory Navigation and the Receptor Nonlinearity. <i>Journal of Neuroscience</i> , 2019 , 39, 3713-3727	6.6 7
53	Perspective: Can eye movements contribute to emmetropization?. <i>Journal of Vision</i> , 2018 , 18, 10	0.4 7
52	Two representations of a high-dimensional perceptual space. <i>Vision Research</i> , 2017 , 137, 1-23	2.1 7
51	Indices for testing neural codes. <i>Neural Computation</i> , 2008 , 20, 2895-936	2.9 7
50	Comparison of thresholds for high-speed drifting vernier and a matched temporal phase-discrimination task. <i>Vision Research</i> , 2000 , 40, 1839-55	2.1 7
49	Simultaneously Band and Space Limited Functions in Two Dimensions, and Receptive Fields of Visual Neurons 2003 , 375-419	7
48	Spike Metrics 2010 , 129-156	6
47	Binocular depth perception from unpaired image points need not depend on scene organization. <i>Vision Research</i> , 2005 , 45, 527-32	2.1 6
46	Spontaneous Changes in Taste Sensitivity of Single Units Recorded over Consecutive Days in the Brainstem of the Awake Rat. <i>PLoS ONE</i> , 2016 , 11, e0160143	3.7 6
45	Heterogeneity of neuronal responses in the nucleus of the solitary tract suggests sensorimotor integration in the neural code for taste. <i>Journal of Neurophysiology</i> , 2019 , 121, 634-645	3.2 6
44	Recurrent Network Dynamics; a Link between Form and Motion. <i>Frontiers in Systems Neuroscience</i> , 2017 , 11, 12	3.5 5
43	VEP indices of cortical lateral interactions in epilepsy treatment. <i>Vision Research</i> , 2009 , 49, 898-906	2.1 5
42	Speed dependence of tuning to one-dimensional features in V1. <i>Journal of Neurophysiology</i> , 2007 , 97, 2423-38	3.2 5
41	Short-range vernier acuity: interactions of temporal frequency, temporal phase, and stimulus polarity. <i>Vision Research</i> , 1999 , 39, 3351-71	2.1 5
40	Efficient coding of natural scene statistics predicts discrimination thresholds for grayscale textures. <i>ELife</i> , 2020 , 9,	8.9 5
39	Perceptual interaction of local motion signals. <i>Journal of Vision</i> , 2016 , 16, 22	0.4 4
38	Robust power spectral estimation for EEG data. <i>Journal of Neuroscience Methods</i> , 2016 , 268, 14-22	3 4

37	Schiff et al. reply. <i>Nature</i> , 2008 , 452, E1-E2	50.4	3
36	Predictive value of postoperative electrophysiologic testing of the facial nerve after cerebellopontine angle surgery. <i>Skull Base</i> , 1998 , 8, 141-8		3
35	Estimation of information in neuronal responses. <i>Trends in Neurosciences</i> , 1999 , 22, 543	13.3	3
34	Nonlinear autoregressive analysis of the 3/s ictal electroencephalogram: implications for underlying dynamics. <i>Biological Cybernetics</i> , 1995 , 72, 527-32	2.8	3
33	Neural computations combine low- and high-order motion cues similarly, in dragonfly and monkey		3
32	Two-Dimensional Hermite Filters Simplify the Description of High-Order Statistics of Natural Images. <i>Symmetry</i> , 2016 , 8,	2.7	3
31	Image segmentation driven by elements of form. <i>Vision Research</i> , 2019 , 159, 21-34	2.1	2
30	Systematic Differences Between Perceptually Relevant Image Statistics of Brain MRI and Natural Images. <i>Frontiers in Neuroinformatics</i> , 2019 , 13, 46	3.9	2
29	Encoding and stability of image statistics in working memory. <i>Vision Research</i> , 2006 , 46, 4152-62	2.1	2
28	Spike Trains as Event Sequences. <i>Frontiers in Neuroscience</i> , 2013 , 3-34		2
27	Information and Statistical Structure in Spike Trains. <i>Network: Computation in Neural Systems</i> , 2003 , 14, 1-4	0.7	2
26	Manipulating the structure of natural scenes using wavelets to study the functional architecture of perceptual hierarchies in the brain. <i>NeuroImage</i> , 2020 , 221, 117173	7.9	2
25	The Dynamics of Bilateral Olfactory Search and Navigation. <i>SIAM Review</i> , 2021 , 63, 100-120	7.4	2
24	Electrophysiological correlates of thalamocortical function in acute severe traumatic brain injury.. <i>Cortex</i> , 2022 , 152, 136-152	3.8	2
23	The features that control discrimination of an isodipole texture pair. <i>Vision Research</i> , 2019 , 158, 208-220	2.1	1
22	A distinctive role for orientation in figure-ground separation. <i>Journal of Vision</i> , 2020 , 20, 112	0.4	1
21	Visual Search for Circumscribed Interests in Autism Is Similar to That of Neurotypical Individuals. <i>Frontiers in Psychology</i> , 2020 , 11, 582074	3.4	1
20	Enhancing GABAergic Tone in the Rostral Nucleus of the Solitary Tract Reconfigures Sensorimotor Neural Activity. <i>Journal of Neuroscience</i> , 2021 , 41, 489-501	6.6	1

- 19 Mapping perceptual spaces of objects and low-level features. *Journal of Vision*, **2021**, 21, 1941 0.4 0
- 18 Cognitive influences on fixational eye movements during visual discrimination. *Journal of Vision*, **2021**, 21, 1894 0.4 0
- 17 The Geometry of System Identification: Fractal Dimension and Integration Formulae **1989**, 147-164 0
- 16 Meeting rigorous statistical standards in case reports. *Annals of Neurology*, **2008**, 64, 592 9.4
- 15 A continuum of non-Gaussian self-similar image ensembles with white power spectra. *Spatial Vision*, **1994**, 8, 503-13
- 14 What can automaton theory tell us about the brain?. *Physica D: Nonlinear Phenomena*, **1990**, 45, 205-207 3.3
- 13 Active task-dependent control of ocular drift during natural fixation. *Journal of Vision*, **2020**, 20, 1335 0.4
- 12 Modeling visual sensitivity to spatial correlations in gray-level textures. *Journal of Vision*, **2018**, 18, 625 0.4
- 11 Frequency Content of Saccade Transients. *Journal of Vision*, **2018**, 18, 1010 0.4
- 10 The impact of retinal image motion on extrafoveal sensitivity. *Journal of Vision*, **2018**, 18, 372 0.4
- 9 Temporal Cues to Defocus in Emmetropia and Myopia. *Journal of Vision*, **2018**, 18, 628 0.4
- 8 Consideration of eye movements reconciles behavioral and neuronal measures of contrast sensitivity. *Journal of Vision*, **2019**, 19, 253b 0.4
- 7 The role of local image statistics in separating figure from ground. *Journal of Vision*, **2019**, 19, 124a 0.4
- 6 Towards a model for sensitivity to local image statistics. *Journal of Vision*, **2017**, 17, 1087 0.4
- 5 Luminance modulations from eye movements predict visual sensitivity. *Journal of Vision*, **2021**, 21, 2204 0.4
- 4 Consequences of Eye Optics and Geometry for Retinal Image Motion. *Journal of Vision*, **2021**, 21, 2046 0.4
- 3 Fine spatial judgements driven by extra-retinal knowledge of fixational eye drifts. *Journal of Vision*, **2021**, 21, 2223 0.4
- 2 The orientation-difference cue in figure-ground separation: border ownership and timing. *Journal of Vision*, **2021**, 21, 1895 0.4

1 Spike Train Distance **2022**, 3232-3245