

AndrÃ© A Fenton

List of Publications by Year in descending order

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133
papers

8,823
citations

57758

44
h-index

49909

87
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151
all docs

151
docs citations

151
times ranked

8213
citing authors

#	ARTICLE	IF	CITATIONS
1	From Analog to Digital Computing: Is Homo sapiensâ€™ Brain on Its Way to Become a Turing Machine?. <i>Frontiers in Ecology and Evolution</i> , 2022, 10, .	2.2	3
2	Effects of adolescent experience of food restriction and exercise on spatial learning and open field exploration of female rats. <i>Hippocampus</i> , 2021, 31, 170-188.	1.9	8
3	Persistent increases of PKMÎ¶ in memoryâ€activated neurons trace LTP maintenance during spatial longâ€term memory storage. <i>European Journal of Neuroscience</i> , 2021, 54, 6795-6814.	2.6	15
4	Lifelong reductions of PKMÎ¶ in ventral hippocampus of nonhuman primates exposed to early-life adversity due to unpredictable maternal care. <i>Learning and Memory</i> , 2021, 28, 341-347.	1.3	3
5	Dentate spikes and external control of hippocampal function. <i>Cell Reports</i> , 2021, 36, 109497.	6.4	23
6	Navigating clues to success in academia. <i>Neuron</i> , 2021, 109, 3368-3372.	8.1	3
7	Cognitive control persistently enhances hippocampal information processing. <i>Nature</i> , 2021, 600, 484-488.	27.8	24
8	Is hippocampal remapping the physiological basis for context?. <i>Hippocampus</i> , 2020, 30, 851-864.	1.9	42
9	Developmental, cellular, and behavioral phenotypes in a mouse model of congenital hypoplasia of the dentate gyrus. <i>ELife</i> , 2020, 9, .	6.0	2
10	Hippocampal transcriptomic responses to enzymeâ€mediated cellular dissociation. <i>Hippocampus</i> , 2019, 29, 876-882.	1.9	9
11	Adult-born hippocampal neurons bidirectionally modulate entorhinal inputs into the dentate gyrus. <i>Science</i> , 2019, 364, 578-583.	12.6	138
12	Firing rate models for gamma oscillations. <i>Journal of Neurophysiology</i> , 2019, 121, 2181-2190.	1.8	24
13	Synaptic plasticity/dysplasticity, process memory and item memory in rodent models of mental dysfunction. <i>Schizophrenia Research</i> , 2019, 207, 22-36.	2.0	16
14	How the Internally Organized Direction Sense Is Used to Navigate. <i>Neuron</i> , 2019, 101, 285-293.e5.	8.1	18
15	Antisense Oligodeoxynucleotide Perfusion Blocks Gene Expression of Synaptic Plasticity-Related Proteins Without Inducing Compensation in Hippocampal Slices. <i>Bio-protocol</i> , 2019, 9, .	0.4	4
16	Long-Lasting Input-Specific Experience-Dependent Changes of Hippocampus Synaptic Function Measured in the Anesthetized Rat. <i>ENeuro</i> , 2019, 6, ENEURO.0506-18.2019.	1.9	1
17	Cognitive Behavior Classification From Scalp EEG Signals. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 729-739.	4.9	33
18	Normal CA1 Place Fields but Discoordinated Network Discharge in a Fmr1-Null Mouse Model of Fragile X Syndrome. <i>Neuron</i> , 2018, 97, 684-697.e4.	8.1	55

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19	On How the Dentate Gyrus Contributes to Memory Discrimination. <i>Neuron</i> , 2018, 98, 832-845.e5.	8.1	93
20	Epilepsy as a Network Disorder (2): What can we learn from other network disorders such as dementia and schizophrenia, and what are the implications for translational research?. <i>Epilepsy and Behavior</i> , 2018, 78, 302-312.	1.7	17
21	What does LTP tell us about the roles of CaMKII and PKMÎ¶ in memory?. <i>Molecular Brain</i> , 2018, 11, 77.	2.6	23
22	Learning-induced ribosomal RNA is required for memory consolidation in miceâ€”Evidence of differentially expressed rRNA variants in learning and memory. <i>PLoS ONE</i> , 2018, 13, e0203374.	2.5	16
23	Sub-circuit alterations in dorsal hippocampus structure and function after global neurodevelopmental insult. <i>Brain Structure and Function</i> , 2018, 223, 3543-3556.	2.3	4
24	Control of recollection by slow gamma dominating mid-frequency gamma in hippocampus CA1. <i>PLoS Biology</i> , 2018, 16, e2003354.	5.6	49
25	Modeling fast and slow gamma oscillations with interneurons of different subtype. <i>Journal of Neurophysiology</i> , 2017, 117, 950-965.	1.8	47
26	Effects of regulatory BC1 RNA deletion on synaptic plasticity, learning, and memory. <i>Learning and Memory</i> , 2017, 24, 646-649.	1.3	13
27	Phencyclidine Discoordinates Hippocampal Network Activity But Not Place Fields. <i>Journal of Neuroscience</i> , 2017, 37, 12031-12049.	3.6	16
28	Tracking recurrence of correlation structure in neuronal recordings. <i>Journal of Neuroscience Methods</i> , 2017, 275, 1-9.	2.5	14
29	Persistent modifications of hippocampal synaptic function during remote spatial memory. <i>Neurobiology of Learning and Memory</i> , 2017, 138, 182-197.	1.9	30
30	Persistent increased PKMÎ¶ in long-term and remote spatial memory. <i>Neurobiology of Learning and Memory</i> , 2017, 138, 135-144.	1.9	56
31	The Object Context-place-location Paradigm for Testing Spatial Memory in Mice. <i>Bio-protocol</i> , 2017, 7, .	0.4	8
32	Active place avoidance is no more stressful than unreinforced exploration of a familiar environment. <i>Hippocampus</i> , 2016, 26, 1481-1485.	1.9	29
33	Memory deficits with intact cognitive control in the methylazoxymethanol acetate (MAM) exposure model of neurodevelopmental insult. <i>Neurobiology of Learning and Memory</i> , 2016, 134, 294-303.	1.9	14
34	The Global Challenge in Neuroscience Education and Training: The MBL Perspective. <i>Neuron</i> , 2016, 92, 632-636.	8.1	6
35	Impaired cognitive discrimination and discoordination of coupled thetaâ€“gamma oscillations in <i>Fmr1</i> knockout mice. <i>Neurobiology of Disease</i> , 2016, 88, 125-138.	4.4	58
36	Coordinating different representations in the hippocampus. <i>Neurobiology of Learning and Memory</i> , 2016, 129, 50-59.	1.9	55

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37	Compensation for PKM η in long-term potentiation and spatial long-term memory in mutant mice. <i>ELife</i> , 2016, 5, .	6.0	138
38	Coordinating with the inner GPS. <i>Hippocampus</i> , 2015, 25, 763-769.	1.9	12
39	Excitation-Inhibition Discoordination in Rodent Models of Mental Disorders. <i>Biological Psychiatry</i> , 2015, 77, 1079-1088.	1.3	54
40	Interictal spike frequency varies with ovarian cycle stage in a rat model of epilepsy. <i>Experimental Neurology</i> , 2015, 269, 102-119.	4.1	29
41	Experience-Dependent Regulation of Dentate Gyrus Excitability by Adult-Born Granule Cells. <i>Journal of Neuroscience</i> , 2015, 35, 11656-11666.	3.6	65
42	Targeting Neural Synchrony Deficits is Sufficient to Improve Cognition in a Schizophrenia-Related Neurodevelopmental Model. <i>Frontiers in Psychiatry</i> , 2014, 5, 15.	2.6	40
43	Converging on a core cognitive deficit: the impact of various neurodevelopmental insults on cognitive control. <i>Frontiers in Neuroscience</i> , 2014, 8, 153.	2.8	16
44	Effect of MicroEEG on Clinical Management and Outcomes of Emergency Department Patients With Altered Mental Status: A Randomized Controlled Trial. <i>Academic Emergency Medicine</i> , 2014, 21, 283-291.	1.8	17
45	Robert U. Muller. In memory. <i>Hippocampus</i> , 2014, 24, 611-614.	1.9	0
46	Diagnostic accuracy of microEEG: A miniature, wireless EEG device. <i>Epilepsy and Behavior</i> , 2014, 34, 81-85.	1.7	36
47	Toward a proper estimation of phase-amplitude coupling in neural oscillations. <i>Journal of Neuroscience Methods</i> , 2014, 225, 42-56.	2.5	128
48	On Track with Two Gammas. <i>Neuron</i> , 2014, 82, 506-508.	8.1	1
49	Spike-wave discharges in adult Sprague-Dawley rats and their implications for animal models of temporal lobe epilepsy. <i>Epilepsy and Behavior</i> , 2014, 32, 121-131.	1.7	73
50	Prevalence of non-convulsive seizure and other electroencephalographic abnormalities in ED patients with altered mental status. <i>American Journal of Emergency Medicine</i> , 2013, 31, 1578-1582.	1.6	32
51	Differential Control of Learning and Anxiety along the Dorsoventral Axis of the Dentate Gyrus. <i>Neuron</i> , 2013, 77, 955-968.	8.1	582
52	Key Features of Human Episodic Recollection in the Cross-Episode Retrieval of Rat Hippocampus Representations of Space. <i>PLoS Biology</i> , 2013, 11, e1001607.	5.6	29
53	Role of hippocampal neurogenesis in mnemonic segregation: implications for human mood disorders. <i>World Journal of Biological Psychiatry</i> , 2013, 14, 602-610.	2.6	7
54	The Organization of Neuronal Discharge on Timescales of Milliseconds and Seconds Is Related to the Spatial Response Properties of Hippocampal Neurons. , 2013, , 421-427.		7

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55	Persistently increased hippocampal PKMÎ¶ expression correlates with spatial long term memory maintenance. <i>FASEB Journal</i> , 2013, 27, 534.6.	0.5	0
56	Inhibition of Protein Kinase MÂ Disrupts the Stable Spatial Discharge of Hippocampal Place Cells in a Familiar Environment. <i>Journal of Neuroscience</i> , 2012, 32, 13753-13762.	3.6	27
57	Technical and clinical analysis of microEEG: a miniature wireless EEG device designed to record high-quality EEG in the emergency department. <i>International Journal of Emergency Medicine</i> , 2012, 5, 35.	1.6	23
58	Early Cognitive Experience Prevents Adult Deficits in a Neurodevelopmental Schizophrenia Model. <i>Neuron</i> , 2012, 75, 714-724.	8.1	114
59	Assessing Diagnostic Tests: How to Correct for the Combined Effects of Interpretation and Reference Standard. <i>PLoS ONE</i> , 2012, 7, e52221.	2.5	9
60	Obituary â€œ Jan BureÅ¡. <i>Frontiers in Behavioral Neuroscience</i> , 2012, 6, .	2.0	0
61	Linear Look-Ahead in Conjunctive Cells: An Entorhinal Mechanism for Vector-Based Navigation. <i>Frontiers in Neural Circuits</i> , 2012, 6, 20.	2.8	50
62	Adultâ€œborn hippocampal neurons promote cognitive flexibility in mice. <i>Hippocampus</i> , 2012, 22, 1795-1808.	1.9	267
63	The absence of the calciumâ€œbuffering protein calbindin is associated with faster ageâ€œrelated decline in hippocampal metabolism. <i>Hippocampus</i> , 2012, 22, 1107-1120.	1.9	32
64	Appropriate application of ZIP for PKMÎ¶ inhibition, LTP reversal, and memory erasure. <i>Hippocampus</i> , 2012, 22, 645-647.	1.9	16
65	Intravenous antiarrhythmic doses of lidocaine increase the survival rate of CA1 neurons and improve cognitive outcome after transient global cerebral ischemia in rats. <i>Neuroscience</i> , 2011, 192, 537-549.	2.3	38
66	Emergence of Physiological Oscillation Frequencies in a Computer Model of Neocortex. <i>Frontiers in Computational Neuroscience</i> , 2011, 5, 19.	2.1	63
67	Ensemble Place Codes in Hippocampus: CA1, CA3, and Dentate Gyrus Place Cells Have Multiple Place Fields in Large Environments. <i>PLoS ONE</i> , 2011, 6, e22349.	2.5	98
68	Increasing adult hippocampal neurogenesis is sufficient to improve pattern separation. <i>Nature</i> , 2011, 472, 466-470.	27.8	1,352
69	Synaptic information transfer in computer models of neocortical columns. <i>Journal of Computational Neuroscience</i> , 2011, 30, 69-84.	1.0	62
70	The new wave: time to bring EEG to the emergency department. <i>International Journal of Emergency Medicine</i> , 2011, 4, 36.	1.6	22
71	Measuring the Quality of Neuronal Identification in Ensemble Recordings. <i>Journal of Neuroscience</i> , 2011, 31, 16398-16409.	3.6	29
72	Anisotropic encoding of three-dimensional space by place cells and grid cells. <i>Nature Neuroscience</i> , 2011, 14, 1182-1188.	14.8	160

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73	Neural Recording Using Digital Telemetry. <i>NeuroMethods</i> , 2011, , 77-101.	0.3	1
74	Interictal EEG Discoordination in a Rat Seizure Model. <i>Journal of Clinical Neurophysiology</i> , 2010, 27, 438-444.	1.7	15
75	Minocycline Synergizes with N-Acetylcysteine and Improves Cognition and Memory Following Traumatic Brain Injury in Rats. <i>PLoS ONE</i> , 2010, 5, e12490.	2.5	86
76	Regulatory BC1 RNA and the Fragile X Mental Retardation Protein: Convergent Functionality in Brain. <i>PLoS ONE</i> , 2010, 5, e15509.	2.5	41
77	A Critical Role for γ -GABA _A Receptors in Shaping Learning Deficits at Puberty in Mice. <i>Science</i> , 2010, 327, 1515-1518.	12.6	146
78	Dynamic Grouping of Hippocampal Neural Activity During Cognitive Control of Two Spatial Frames. <i>PLoS Biology</i> , 2010, 8, e1000403.	5.6	150
79	Stress-Induced Out-of-Context Activation of Memory. <i>PLoS Biology</i> , 2010, 8, e1000570.	5.6	21
80	Attention-Like Modulation of Hippocampus Place Cell Discharge. <i>Journal of Neuroscience</i> , 2010, 30, 4613-4625.	3.6	144
81	BC1 Regulation of Metabotropic Glutamate Receptor-Mediated Neuronal Excitability. <i>Journal of Neuroscience</i> , 2009, 29, 9977-9986.	3.6	106
82	A hierarchy of neurobehavioral tasks discriminates between mild and moderate brain injury in rats. <i>Brain Research</i> , 2009, 1280, 98-106.	2.2	48
83	Hippocampus, aging, and segregating memories. <i>Hippocampus</i> , 2009, 19, 57-65.	1.9	15
84	Heading vector navigation based on head direction cells and path integration. <i>Hippocampus</i> , 2009, 19, 456-479.	1.9	42
85	Looking for cognition in the structure within the noise. <i>Trends in Cognitive Sciences</i> , 2009, 13, 55-64.	7.8	57
86	Production of panic-like symptoms by lactate is associated with increased neural firing and oxidation of brain redox in the rat hippocampus. <i>Neuroscience Letters</i> , 2009, 453, 219-224.	2.1	7
87	Discharge Properties of Hippocampal Neurons during Performance of a Jump Avoidance Task. <i>Journal of Neuroscience</i> , 2008, 28, 6773-6786.	3.6	51
88	Unmasking the CA1 Ensemble Place Code by Exposures to Small and Large Environments: More Place Cells and Multiple, Irregularly Arranged, and Expanded Place Fields in the Larger Space. <i>Journal of Neuroscience</i> , 2008, 28, 11250-11262.	3.6	194
89	Neural coordination and psychotic disorganization. , 2008, , 387-408.		4
90	PKM θ Maintains Spatial, Instrumental, and Classically Conditioned Long-Term Memories. <i>PLoS Biology</i> , 2008, 6, e318.	5.6	228

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91	What Do Place Cells Tell Us about Learning to Associate and Learning to Segregate?. , 2008, , 127-137.		4
92	Changes in goal selection induced by cue conflicts are in register with predictions from changes in place cell field locations.. Behavioral Neuroscience, 2007, 121, 751-763.	1.2	15
93	Post-training reversible inactivation of the rat's basolateral amygdala interferes with hippocampus-dependent place avoidance memory in a time-dependent manner. Neurobiology of Learning and Memory, 2007, 88, 87-93.	1.9	23
94	NEUROSCIENCE: Where Am I?. Science, 2007, 315, 947-949.	12.6	5
95	Storage of Spatial Information by the Maintenance Mechanism of LTP. Science, 2006, 313, 1141-1144.	12.6	747
96	Cognitive Disorganization in Hippocampus: A Physiological Model of the Disorganization in Psychosis. Journal of Neuroscience, 2006, 26, 158-168.	3.6	96
97	Deforming the hippocampal map. Hippocampus, 2005, 15, 41-55.	1.9	33
98	Is the hippocampal theta rhythm related to cognition in a non-locomotor place recognition task?. Hippocampus, 2005, 15, 472-479.	1.9	19
99	Tetrodotoxin infusions into the dorsal hippocampus block non-locomotor place recognition. Hippocampus, 2005, 15, 460-471.	1.9	25
100	Beyond Memory, Navigation, and Inhibition: Behavioral Evidence for Hippocampus-Dependent Cognitive Coordination in the Rat. Journal of Neuroscience, 2005, 25, 2413-2419.	3.6	144
101	Hippocampus, Temporal Context and Taste Memories. Chemical Senses, 2005, 30, i160-i161.	2.0	17
102	Behavioral Evidence That Segregation and Representation Are Dissociable Hippocampal Functions. Journal of Neuroscience, 2005, 25, 9205-9212.	3.6	61
103	Object location memory impairment in patients with thermal lesions to the right or left hippocampus. Neuropsychologia, 2004, 42, 1017-1028.	1.6	82
104	Time of day-dependent latent inhibition of conditioned taste aversions in rats*1. Neurobiology of Learning and Memory, 2004, 82, 77-80.	1.9	25
105	Quantifying location-specific information in the discharge of rat hippocampal place cells. Journal of Neuroscience Methods, 2003, 127, 123-135.	2.5	61
106	Dissociating space to understand hippocampal function. International Congress Series, 2003, 1250, 199-213.	0.2	0
107	The Contextual Modulation of Conditioned Taste Aversions by the Physical Environment and Time of Day Is Similar. Learning and Memory, 2002, 9, 218-223.	1.3	24
108	Properties of the extra-positional signal in hippocampal place cell discharge derived from the overdispersion in location-specific firing. Neuroscience, 2002, 111, 553-566.	2.3	82

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109	On the location-specific positional and extra-positional information in the discharge of rat hippocampal cells. <i>BioSystems</i> , 2002, 67, 167-175.	2.0	5
110	Hippocampal Place Cell Activity During Overtly Purposeful Behavior. , 2002, , 59-80.		3
111	New spatial cognition tests for mice: Passive place avoidance on stable and active place avoidance on rotating arenas. <i>Brain Research Bulletin</i> , 2001, 54, 559-563.	3.0	53
112	Transient sex differences in the between-sessions but not in the within-session memory underlying an active place avoidance task in weanling rats.. <i>Behavioral Neuroscience</i> , 2001, 115, 695-703.	1.2	19
113	Inactivating one hippocampus impairs avoidance of a stable room-defined place during dissociation of arena cues from room cues by rotation of the arena. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 3531-3536.	7.1	152
114	Substratal idiothetic navigation of rats is impaired by removal or devaluation of extramaze and intramaze cues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 3537-3542.	7.1	29
115	Transient sex differences in the between-sessions but not in the within-session memory underlying an active place avoidance task in weanling rats.. <i>Behavioral Neuroscience</i> , 2001, 115, 695-703.	1.2	9
116	Passive and active place avoidance as a tool of spatial memory research in rats. <i>Journal of Neuroscience Methods</i> , 2000, 102, 155-164.	2.5	82
117	Neurophysiology of Spatial Cognition. <i>Physiology</i> , 2000, 15, 233-240.	3.1	12
118	Conjoint Control of Hippocampal Place Cell Firing by Two Visual Stimuli. <i>Journal of General Physiology</i> , 2000, 116, 211-222.	1.9	30
119	Conjoint Control of Hippocampal Place Cell Firing by Two Visual Stimuli. <i>Journal of General Physiology</i> , 2000, 116, 191-210.	1.9	83
120	Continuous place avoidance task reveals differences in spatial navigation in male and female rats. <i>Behavioural Brain Research</i> , 2000, 107, 161-169.	2.2	29
121	Functional inactivation of dorsal hippocampus impairs active place avoidance in rats. <i>Neuroscience Letters</i> , 2000, 285, 53-56.	2.1	67
122	Understanding hippocampal activity by using purposeful behavior: Place navigation induces place cell discharge in both task-relevant and task-irrelevant spatial reference frames. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 3771-3776.	7.1	63
123	The gap between episodic memory and experiment: Can c-fos expression replace recognition testing?. <i>Behavioral and Brain Sciences</i> , 1999, 22, 445-446.	0.7	0
124	Is the hippocampus of the rat part of a specialized navigational system?. <i>Hippocampus</i> , 1999, 9, 413-422.	1.9	30
125	Rodent navigation after dissociation of the allocentric and idiothetic representations of space. <i>Neuropharmacology</i> , 1998, 37, 689-699.	4.1	46
126	Both here and there: Simultaneous expression of autonomous spatial memories in rats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 11493-11498.	7.1	100

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127	Place cell discharge is extremely variable during individual passes of the rat through the firing field. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 3182-3187.	7.1	248
128	Place cells and place navigation. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 343-350.	7.1	119
129	Using digital video techniques to identify correlations between behavior and the activity of single neurons. Journal of Neuroscience Methods, 1996, 70, 211-227.	2.5	9
130	Interhippocampal synthesis of lateralized place navigation engrams. Hippocampus, 1995, 5, 16-24.	1.9	28
131	Place navigation in the morris water maze under minimum and redundant extra-maze cue conditions. Behavioral and Neural Biology, 1994, 62, 178-189.	2.2	38
132	Interhippocampal transfer of place navigation monocularly acquired by rats during unilateral functional ablation of the dorsal hippocampus and visual cortex with lidocaine. Neuroscience, 1994, 58, 481-491.	2.3	25
133	Place navigation in rats with unilateral tetrodotoxin inactivation of the dorsal hippocampus: Place but not procedural learning can be lateralized to one hippocampus.. Behavioral Neuroscience, 1993, 107, 552-564.	1.2	79