AndrÃ© A Fenton

List of Publications by Year
in descending order

133 papers	8,823 citations	57758 44 h-index	49909 87 g-index
151 all docs	151 docs citations	151 times ranked	8213 citing authors

#	Article	IF	Citations
1	Increasing adult hippocampal neurogenesis is sufficient to improve pattern separation. Nature, 2011, 472, 466-470.	27.8	1,352
2	Storage of Spatial Information by the Maintenance Mechanism of LTP. Science, 2006, 313, 1141-1144.	12.6	747
3	Differential Control of Learning and Anxiety along the Dorsoventral Axis of the Dentate Gyrus. Neuron, 2013, 77, 955-968.	8.1	582
4	Adultâ€born hippocampal neurons promote cognitive flexibility in mice. Hippocampus, 2012, 22, 1795-1808.	1.9	267
5	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
6	PKMÎ¶ Maintains Spatial, Instrumental, and Classically Conditioned Long-Term Memories. PLoS Biology, 2008, 6, e318.	5.6	228
7	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. Journal of Neuroscience, 2008, 28, 11250-11262.	3.6	194
8	Anisotropic encoding of three-dimensional space by place cells and grid cells. Nature Neuroscience, 2011, 14, 1182-1188.	14.8	160
9	Inactivating one hippocampus impairs avoidance of a stable room-defined place during dissociation of arena cues from room cues by rotation of the arena. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 3531-3536.	7.1	152
10	Dynamic Grouping of Hippocampal Neural Activity During Cognitive Control of Two Spatial Frames. PLoS Biology, 2010, 8, e1000403.	5.6	150
11	A Critical Role for Î±4Î²2Î´ GABA _A Receptors in Shaping Learning Deficits at Puberty in Mice. Science, 2010, 327, 1515-1518.	12.6	146
12	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
13	Attention-Like Modulation of Hippocampus Place Cell Discharge. Journal of Neuroscience, 2010, 30, 4613-4625.	3.6	144
14	Adult-born hippocampal neurons bidirectionally modulate entorhinal inputs into the dentate gyrus. Science, 2019, 364, 578-583.	12.6	138
15	Compensation for PKMÎ¶ in long-term potentiation and spatial long-term memory in mutant mice. ELife, 2016, 5, .	6.0	138
16	Toward a proper estimation of phaseâ€“amplitude coupling in neural oscillations. Journal of Neuroscience Methods, 2014, 225, 42-56.	2.5	128
17	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
18	Early Cognitive Experience Prevents Adult Deficits in a Neurodevelopmental Schizophrenia Model. Neuron, 2012, 75, 714-724.	8.1	114

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19	BC1 Regulation of Metabotropic Glutamate Receptor-Mediated Neuronal Excitability. Journal of Neuroscience, 2009, 29, 9977-9986.	3.6	106
20	Both here and there: Simultaneous expression of autonomous spatial memories in rats. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 11493-11498.	7.1	100
21	Ensemble Place Codes in Hippocampus: CA1, CA3, and Dentate Gyrus Place Cells Have Multiple Place Fields in Large Environments. PLoS ONE, 2011, 6, e22349.	2.5	98
22	Cognitive Disorganization in Hippocampus: A Physiological Model of the Disorganization in Psychosis. Journal of Neuroscience, 2006, 26, 158-168.	3.6	96
23	On How the Dentate Gyrus Contributes to Memory Discrimination. Neuron, 2018, 98, 832-845.e5.	8.1	93
24	Minocycline Synergizes with N-Acetylcysteine and Improves Cognition and Memory Following Traumatic Brain Injury in Rats. PLoS ONE, 2010, 5, e12490.	2.5	86
25	Conjoint Control of Hippocampal Place Cell Firing by Two Visual Stimuli. Journal of General Physiology, 2000, 116, 191-210.	1.9	83
26	Passive and active place avoidance as a tool of spatial memory research in rats. Journal of Neuroscience Methods, 2000, 102, 155-164.	2.5	82
27	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
28	Objectâ€“location memory impairment in patients with thermal lesions to the right or left hippocampus. Neuropsychologia, 2004, 42, 1017-1028.	1.6	82
29	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
30	Spikeâ€“wave discharges in adult Sprague–Dawley rats and their implications for animal models of temporal lobe epilepsy. Epilepsy and Behavior, 2014, 32, 121-131.	1.7	73
31	Functional inactivation of dorsal hippocampus impairs active place avoidance in rats. Neuroscience Letters, 2000, 285, 53-56.	2.1	67
32	Experience-Dependent Regulation of Dentate Gyrus Excitability by Adult-Born Granule Cells. Journal of Neuroscience, 2015, 35, 11656-11666.	3.6	65
33	Emergence of Physiological Oscillation Frequencies in a Computer Model of Neocortex. Frontiers in Computational Neuroscience, 2011, 5, 19.	2.1	63
34	Understanding hippocampal activity by using purposeful behavior: Place navigation induces place cell discharge in both task-relevant and task-irrelevant spatial reference frames. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 3771-3776.	7.1	63
35	Synaptic information transfer in computer models of neocortical columns. Journal of Computational Neuroscience, 2011, 30, 69-84.	1.0	62
36	Quantifying location-specific information in the discharge of rat hippocampal place cells. Journal of Neuroscience Methods, 2003, 127, 123-135.	2.5	61

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37	Behavioral Evidence That Segregation and Representation Are Dissociable Hippocampal Functions. Journal of Neuroscience, 2005, 25, 9205-9212.	3.6	61
38	Impaired cognitive discrimination and discoordination of coupled thetaâ€“gamma oscillations in Fmr1 knockout mice. Neurobiology of Disease, 2016, 88, 125-138.	4.4	58
39	Looking for cognition in the structure within the noise. Trends in Cognitive Sciences, 2009, 13, 55-64.	7.8	57
40	Persistent increased PKMÎ¶ in long-term and remote spatial memory. Neurobiology of Learning and Memory, 2017, 138, 135-144.	1.9	56
41	Coordinating different representations in the hippocampus. Neurobiology of Learning and Memory, 2016, 129, 50-59.	1.9	55
42	Normal CA1 Place Fields but Discoordinated Network Discharge in a Fmr1-Null Mouse Model of Fragile X Syndrome. Neuron, 2018, 97, 684-697.e4.	8.1	55
43	Excitation-Inhibition Discoordination in Rodent Models of Mental Disorders. Biological Psychiatry, 2015, 77, 1079-1088.	1.3	54
44	New spatial cognition tests for mice: Passive place avoidance on stable and active place avoidance on rotating arenas. Brain Research Bulletin, 2001, 54, 559-563.	3.0	53
45	Discharge Properties of Hippocampal Neurons during Performance of a Jump Avoidance Task. Journal of Neuroscience, 2008, 28, 6773-6786.	3.6	51
46	Linear Look-Ahead in Conjunctive Cells: An Entorhinal Mechanism for Vector-Based Navigation. Frontiers in Neural Circuits, 2012, 6, 20.	2.8	50
47	Control of recollection by slow gamma dominating mid-frequency gamma in hippocampus CA1. PLoS Biology, 2018, 16, e2003354.	5.6	49
48	A hierarchy of neurobehavioral tasks discriminates between mild and moderate brain injury in rats. Brain Research, 2009, 1280, 98-106.	2.2	48
49	Modeling fast and slow gamma oscillations with interneurons of different subtype. Journal of Neurophysiology, 2017, 117, 950-965.	1.8	47
50	Rodent navigation after dissociation of the allocentric and idiothetic representations of space. Neuropharmacology, 1998, 37, 689-699.	4.1	46
51	Headingâ€vector navigation based on headâ€direction cells and path integration. Hippocampus, 2009, 19, 456-479.	1.9	42
52	Is hippocampal remapping the physiological basis for context?. Hippocampus, 2020, 30, 851-864.	1.9	42
53	Regulatory BC1 RNA and the Fragile X Mental Retardation Protein: Convergent Functionality in Brain. PLoS ONE, 2010, 5, e15509.	2.5	41
54	Targeting Neural Synchrony Deficits is Sufficient to Improve Cognition in a Schizophrenia-Related Neurodevelopmental Model. Frontiers in Psychiatry, 2014, 5, 15.	2.6	40

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55	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
56	Intravenous antiarrhythmic doses of lidocaine increase the survival rate of CA1 neurons and improve cognitive outcome after transient global cerebral ischemia in rats. Neuroscience, 2011, 192, 537-549.	2.3	38
57	Diagnostic accuracy of microEEG: A miniature, wireless EEG device. Epilepsy and Behavior, 2014, 34, 81-85.	1.7	36
58	Deforming the hippocampal map. Hippocampus, 2005, 15, 41-55.	1.9	33
59	Cognitive Behavior Classification From Scalp EEG Signals. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 729-739.	4.9	33
60	The absence of the calciumâ€buffering protein calbindin is associated with faster ageâ€related decline in hippocampal metabolism. Hippocampus, 2012, 22, 1107-1120.	1.9	32
61	Prevalence of non-convulsive seizure and other electroencephalographic abnormalities in ED patients with altered mental status. American Journal of Emergency Medicine, 2013, 31, 1578-1582.	1.6	32
62	Is the hippocampus of the rat part of a specialized navigational system?. Hippocampus, 1999, 9, 413-422.	1.9	30
63	Conjoint Control of Hippocampal Place Cell Firing by Two Visual Stimuli. Journal of General Physiology, 2000, 116, 211-222.	1.9	30
64	Persistent modifications of hippocampal synaptic function during remote spatial memory. Neurobiology of Learning and Memory, 2017, 138, 182-197.	1.9	30
65	Continuous place avoidance task reveals differences in spatial navigation in male and female rats. Behavioural Brain Research, 2000, 107, 161-169.	2.2	29
66	Substratal idiothetic navigation of rats is impaired by removal or devaluation of extramaze and intramaze cues. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 3537-3542.	7.1	29
67	Measuring the Quality of Neuronal Identification in Ensemble Recordings. Journal of Neuroscience, 2011, 31, 16398-16409.	3.6	29
68	Key Features of Human Episodic Recollection in the Cross-Episode Retrieval of Rat Hippocampus Representations of Space. PLoS Biology, 2013, 11, e1001607.	5.6	29
69	Interictal spike frequency varies with ovarian cycle stage in a rat model of epilepsy. Experimental Neurology, 2015, 269, 102-119.	4.1	29
70	Active place avoidance is no more stressful than unreinforced exploration of a familiar environment. Hippocampus, 2016, 26, 1481-1485.	1.9	29
71	Interhippocampal synthesis of lateralized place navigation engrams. Hippocampus, 1995, 5, 16-24.	1.9	28
72	Inhibition of Protein Kinase MÂ Disrupts the Stable Spatial Discharge of Hippocampal Place Cells in a Familiar Environment. Journal of Neuroscience, 2012, 32, 13753-13762.	3.6	27

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73	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
74	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
75	Tetrodotoxin infusions into the dorsal hippocampus block non-locomotor place recognition. Hippocampus, 2005, 15, 460-471.	1.9	25
76	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
77	Firing rate models for gamma oscillations. Journal of Neurophysiology, 2019, 121, 2181-2190.	1.8	24
78	Cognitive control persistently enhances hippocampal information processing. Nature, 2021, 600, 484-488.	27.8	24
79	Post-training reversible inactivation of the ratâ€™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
80	Technical and clinical analysis of microEEG: a miniature wireless EEG device designed to record high-quality EEG in the emergency department. International Journal of Emergency Medicine, 2012, 5, 35.	1.6	23
81	What does LTP tell us about the roles of CaMKII and PKMÎ¶ in memory?. Molecular Brain, 2018, 11, 77.	2.6	23
82	Dentate spikes and external control of hippocampal function. Cell Reports, 2021, 36, 109497.	6.4	23
83	The new wave: time to bring EEG to the emergency department. International Journal of Emergency Medicine, 2011, 4, 36.	1.6	22
84	Stress-Induced Out-of-Context Activation of Memory. PLoS Biology, 2010, 8, e1000570.	5.6	21
85	Transient sex differences in the between-sessions but not in the within-session memory underlying an active place avoidance task in weanling rats.. Behavioral Neuroscience, 2001, 115, 695-703.	1.2	19
86	Is the hippocampal theta rhythm related to cognition in a non-locomotor place recognition task?. Hippocampus, 2005, 15, 472-479.	1.9	19
87	How the Internally Organized Direction Sense Is Used to Navigate. Neuron, 2019, 101, 285-293.e5.	8.1	18
88	Hippocampus, Temporal Context and Taste Memories. Chemical Senses, 2005, 30, i160-i161.	2.0	17
89	Effect of MicroEEG on Clinical Management and Outcomes of Emergency Department Patients With Altered Mental Status: A Randomized Controlled Trial. Academic Emergency Medicine, 2014, 21, 283-291.	1.8	17
90	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?. Epilepsy and Behavior, 2018, 78, 302-312.	1.7	17

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91	Appropriate application of ZIP for PKMÎ¶ inhibition, LTP reversal, and memory erasure. Hippocampus, 2012, 22, 645-647.	1.9	16
92	Converging on a core cognitive deficit: the impact of various neurodevelopmental insults on cognitive control. Frontiers in Neuroscience, 2014, 8, 153.	2.8	16
93	Phencyclidine Discoordinates Hippocampal Network Activity But Not Place Fields. Journal of Neuroscience, 2017, 37, 12031-12049.	3.6	16
94	Learning-induced ribosomal RNA is required for memory consolidation in miceâ€"Evidence of differentially expressed rRNA variants in learning and memory. PLoS ONE, 2018, 13, e0203374.	2.5	16
95	Synaptic plasticity/dysplasticity, process memory and item memory in rodent models of mental dysfunction. Schizophrenia Research, 2019, 207, 22-36.	2.0	16
96	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
97	Hippocampus, aging, and segregating memories. Hippocampus, 2009, 19, 57-65.	1.9	15
98	Interictal EEG Discoordination in a Rat Seizure Model. Journal of Clinical Neurophysiology, 2010, 27, 438-444.	1.7	15
99	Persistent increases of PKMÎ¶ in memoryâ€activated neurons trace LTP maintenance during spatial longâ€term memory storage. European Journal of Neuroscience, 2021, 54, 6795-6814.	2.6	15
100	Memory deficits with intact cognitive control in the methylazoxymethanol acetate (MAM) exposure model of neurodevelopmental insult. Neurobiology of Learning and Memory, 2016, 134, 294-303.	1.9	14
101	Tracking recurrence of correlation structure in neuronal recordings. Journal of Neuroscience Methods, 2017, 275, 1-9.	2.5	14
102	Effects of regulatory BC1 RNA deletion on synaptic plasticity, learning, and memory. Learning and Memory, 2017, 24, 646-649.	1.3	13
103	Neurophysiology of Spatial Cognition. Physiology, 2000, 15, 233-240.	3.1	12
104	Coordinating with the â€œInner <scp>GPS</scp>â€• Hippocampus, 2015, 25, 763-769.	1.9	12
105	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
106	Assessing Diagnostic Tests: How to Correct for the Combined Effects of Interpretation and Reference Standard. PLoS ONE, 2012, 7, e52221.	2.5	9
107	Hippocampal transcriptomic responses to enzymeâ€mediated cellular dissociation. Hippocampus, 2019, 29, 876-882.	1.9	9
108	Transient sex differences in the between-sessions but not in the within-session memory underlying an active place avoidance task in weanling rats.. Behavioral Neuroscience, 2001, 115, 695-703.	1.2	9

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109	The Object Context-place-location Paradigm for Testing Spatial Memory in Mice. Bio-protocol, 2017, 7, .	0.4	8
110	Effects of adolescent experience of food restriction and exercise on spatial learning and open field exploration of female rats. Hippocampus, 2021, 31, 170-188.	1.9	8
111	Production of panic-like symptoms by lactate is associated with increased neural firing and oxidation of brain redox in the rat hippocampus. Neuroscience Letters, 2009, 453, 219-224.	2.1	7
112	Role of hippocampal neurogenesis in mnemonic segregation: implications for human mood disorders. World Journal of Biological Psychiatry, 2013, 14, 602-610.	2.6	7
113	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
114	The Global Challenge in Neuroscience Education and Training: The MBL Perspective. Neuron, 2016, 92, 632-636.	8.1	6
115	On the location-specific positional and extra-positional information in the discharge of rat hippocampal cells. BioSystems, 2002, 67, 167-175.	2.0	5
116	NEUROSCIENCE: Where Am I?. Science, 2007, 315, 947-949.	12.6	5
117	Neural coordination and psychotic disorganization. , 2008, , 387-408.		4
118	Sub-circuit alterations in dorsal hippocampus structure and function after global neurodevelopmental insult. Brain Structure and Function, 2018, 223, 3543-3556.	2.3	4
119	What Do Place Cells Tell Us about Learning to Associate and Learning to Segregate?. , 2008, , 127-137.		4
120	Antisense Oligodeoxynucleotide Perfusion Blocks Gene Expression of Synaptic Plasticity-Related Proteins Without Inducing Compensation in Hippocampal Slices. Bio-protocol, 2019, 9, .	0.4	4
121	Lifelong reductions of PKMÎ¶ in ventral hippocampus of nonhuman primates exposed to early-life adversity due to unpredictable maternal care. Learning and Memory, 2021, 28, 341-347.	1.3	3
122	Hippocampal Place Cell Activity During Overtly Purposeful Behavior. , 2002, , 59-80.		3
123	Navigating clues to success in academia. Neuron, 2021, 109, 3368-3372.	8.1	3
124	From Analog to Digital Computing: Is Homo sapiensâ€™ Brain on Its Way to Become a Turing Machine?. Frontiers in Ecology and Evolution, 2022, 10, .	2.2	3
125	Developmental, cellular, and behavioral phenotypes in a mouse model of congenital hypoplasia of the dentate gyrus. ELife, 2020, 9, .	6.0	2
126	On Track with Two Gammas. Neuron, 2014, 82, 506-508.	8.1	1

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127	Neural Recording Using Digital Telemetry. Neuromethods, 2011, , 77-101.	0.3	1
128	Long-Lasting Input-Specific Experience-Dependent Changes of Hippocampus Synaptic Function Measured in the Anesthetized Rat. ENeuro, 2019, 6, ENEURO.0506-18.2019.	1.9	1
129	The gap between episodic memory and experiment: Can c-fos expression replace recognition testing?. Behavioral and Brain Sciences, 1999, 22, 445-446.	0.7	0
130	Dissociating space to understand hippocampal function. International Congress Series, 2003, 1250, 199-213.	0.2	0
131	Obituary â€“ Jan BureÅ¡. Frontiers in Behavioral Neuroscience, 2012, 6, .	2.0	0
132	Robert U. Mullerâ€”In memory. Hippocampus, 2014, 24, 611-614.	1.9	0
133	Persistently increased hippocampal PKMÎ¶ expression correlates with spatial long term memory maintenance. FASEB Journal, 2013, 27, 534.6.	0.5	0