

David K Bilkey

List of Publications by Year in descending order

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104
papers

4,229
citations

94433

37
h-index

128289

60
g-index

105
all docs

105
docs citations

105
times ranked

3586
citing authors

#	ARTICLE	IF	CITATIONS
1	The N-methyl-D-aspartate antagonists aminophosphonovalerate and carbachol-piperazinephosphonate retard the development and expression of kindled seizures. <i>Brain Research</i> , 1990, 506, 227-235.	2.2	195
2	Perirhinal cortex: Lost in space?. <i>Behavioral and Brain Sciences</i> , 1999, 22, 444-445.	0.7	181
3	Long-Term Effects of Permanent Vestibular Lesions on Hippocampal Spatial Firing. <i>Journal of Neuroscience</i> , 2003, 23, 6490-6498.	3.6	174
4	Endogenous secreted amyloid precursor protein-1 \pm regulates hippocampal NMDA receptor function, long-term potentiation and spatial memory. <i>Neurobiology of Disease</i> , 2008, 31, 250-260.	4.4	163
5	The effects of perirhinal cortical lesions on spatial reference memory in the rat. <i>Behavioural Brain Research</i> , 1994, 63, 101-109.	2.2	137
6	Neurons in the Rat Anterior Cingulate Cortex Dynamically Encode Cost-Benefit in a Spatial Decision-Making Task. <i>Journal of Neuroscience</i> , 2010, 30, 7705-7713.	3.6	130
7	Abnormal Long-Range Neural Synchrony in a Maternal Immune Activation Animal Model of Schizophrenia. <i>Journal of Neuroscience</i> , 2010, 30, 12424-12431.	3.6	126
8	The effect of excitotoxic lesions centered on the hippocampus or perirhinal cortex in object recognition and spatial memory tasks.. <i>Behavioral Neuroscience</i> , 2001, 115, 94-111.	1.2	112
9	Amusia is associated with deficits in spatial processing. <i>Nature Neuroscience</i> , 2007, 10, 915-921.	14.8	111
10	Immune activation during mid-gestation disrupts sensorimotor gating in rat offspring. <i>Behavioural Brain Research</i> , 2008, 190, 156-159.	2.2	111
11	Lesions of the Vestibular System Disrupt Hippocampal Theta Rhythm in the Rat. <i>Journal of Neurophysiology</i> , 2006, 96, 4-14.	1.8	109
12	Neural encoding of competitive effort in the anterior cingulate cortex. <i>Nature Neuroscience</i> , 2012, 15, 1290-1297.	14.8	106
13	The effects of vestibular lesions on hippocampal function in rats. <i>Progress in Neurobiology</i> , 2005, 75, 391-405.	5.7	85
14	Lesions of rat perirhinal cortex exacerbate the memory deficit observed following damage to the fimbria-fornix.. <i>Behavioral Neuroscience</i> , 1995, 109, 620-630.	1.2	83
15	Bilateral peripheral vestibular lesions produce long-term changes in spatial learning in the rat. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2003, 13, 9-16.	2.0	82
16	Field potential evidence for long-term potentiation of feed-forward inhibition in the rat dentate gyrus. <i>Brain Research</i> , 1987, 401, 87-94.	2.2	75
17	Variation in electrophysiology and morphology of hippocampal CA3 pyramidal cells. <i>Brain Research</i> , 1990, 514, 77-83.	2.2	72
18	Vestibular influences on CA1 neurons in the rat hippocampus: an electrophysiological study in vivo. <i>Experimental Brain Research</i> , 2004, 155, 245-250.	1.5	71

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19	The maternal immune activation (MIA) model of schizophrenia produces pre-pulse inhibition (PPI) deficits in both juvenile and adult rats but these effects are not associated with maternal weight loss. <i>Behavioural Brain Research</i> , 2010, 213, 323-327.	2.2	71
20	Perirhinal cortex contributions to performance in the Morris Water Maze. <i>Behavioral Neuroscience</i> , 1998, 112, 304-315.	1.2	70
21	Prefrontal Cortex Lesions Modify the Spatial Properties of Hippocampal Place Cells. <i>Cerebral Cortex</i> , 2003, 13, 444-451.	2.9	62
22	Behavioural deficits associated with maternal immune activation in the rat model of schizophrenia. <i>Behavioural Brain Research</i> , 2011, 225, 382-387.	2.2	62
23	When is the perirhinal cortex necessary for the performance of spatial memory tasks?. <i>Neuroscience and Biobehavioral Reviews</i> , 2004, 28, 611-624.	6.1	59
24	Lesions of perirhinal cortex produce spatial memory deficits in the radial maze. <i>Hippocampus</i> , 1998, 8, 114-121.	1.9	56
25	Instability in the Place Field Location of Hippocampal Place Cells after Lesions Centered on the Perirhinal Cortex. <i>Journal of Neuroscience</i> , 2001, 21, 4016-4025.	3.6	55
26	Synchrony and Physiological Arousal Increase Cohesion and Cooperation in Large Naturalistic Groups. <i>Scientific Reports</i> , 2018, 8, 127.	3.3	54
27	A low cost, high precision subminiature microdrive for extracellular unit recording in behaving animals. <i>Journal of Neuroscience Methods</i> , 1999, 92, 87-90.	2.5	52
28	Nitric oxide synthase and arginase in the rat hippocampus and the entorhinal, perirhinal, postrhinal, and temporal cortices: Regional variations and age-related changes. <i>Hippocampus</i> , 2003, 13, 859-867.	1.9	51
29	Enhanced hippocampal neuronal excitability and LTP persistence associated with reduced behavioral flexibility in the maternal immune activation model of schizophrenia. <i>Hippocampus</i> , 2013, 23, 1395-1409.	1.9	50
30	Hippocampal nitric oxide synthase and arginase and age-associated behavioral deficits. <i>Hippocampus</i> , 2005, 15, 642-655.	1.9	49
31	Long-term potentiation in the in vitro perirhinal cortex displays associative properties. <i>Brain Research</i> , 1996, 733, 297-300.	2.2	48
32	Altered Plasticity in Hippocampal CA1, But Not Dentate Gyrus, Following Long-Term Environmental Enrichment. <i>Journal of Neurophysiology</i> , 2010, 103, 3320-3329.	1.8	48
33	The effect of excitotoxic lesions centered on the perirhinal cortex in two versions of the radial arm maze task. <i>Behavioral Neuroscience</i> , 1999, 113, 672-682.	1.2	45
34	Cannabinoid CB1 receptor protein expression in the rat hippocampus and entorhinal, perirhinal, postrhinal and temporal cortices: regional variations and age-related changes. <i>Brain Research</i> , 2003, 979, 235-239.	2.2	43
35	Anterior cingulate cortex encoding of effortful behavior. <i>Journal of Neurophysiology</i> , 2019, 121, 701-714.	1.8	43
36	Anterior Cingulate Cortex Modulation of the Ventral Tegmental Area in an Effort Task. <i>Cell Reports</i> , 2017, 19, 2220-2230.	6.4	42

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37	The infusion of an NMDA antagonist into perirhinal cortex suppresses amygdala-kindled seizures. <i>Brain Research</i> , 1992, 587, 285-290.	2.2	41
38	Excitotoxic lesions of the pre- and parasubiculum disrupt object recognition and spatial memory processes.. <i>Behavioral Neuroscience</i> , 2001, 115, 112-124.	1.2	41
39	A lightweight microdrive for single-unit recording in freely moving rats and pigeons. <i>Methods</i> , 2003, 30, 152-158.	3.8	39
40	Kindling-induced persistent alterations in the membrane and synaptic properties of CA1 pyramidal neurons. <i>Brain Research</i> , 1991, 561, 324-331.	2.2	37
41	Learning, planning, and control in a monolithic neural event inference architecture. <i>Neural Networks</i> , 2019, 117, 135-144.	5.9	37
42	Intrinsic theta-frequency membrane potential oscillations in layer III/IV perirhinal cortex neurons of the rat. , 1999, 9, 510-518.		35
43	Theta- and movement velocity-related firing of hippocampal neurons is disrupted by lesions centered on the perirhinal cortex. <i>Hippocampus</i> , 2003, 13, 93-108.	1.9	34
44	Bilateral peripheral vestibular lesions produce long-term changes in spatial learning in the rat. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2003, 13, 9-16.	2.0	32
45	Current source density analysis of the potential evoked in hippocampus by perirhinal cortex stimulation. , 1997, 7, 389-396.		31
46	Hippocampal Place Cells Show Increased Sensitivity to Changes in the Local Environment Following Prefrontal Cortex Lesions. <i>Cerebral Cortex</i> , 2005, 15, 720-731.	2.9	31
47	Aberrant neural synchrony in the maternal immune activation model: using translatable measures to explore targeted interventions. <i>Frontiers in Behavioral Neuroscience</i> , 2013, 7, 217.	2.0	31
48	Ten- to 12-Hz EEG Oscillation in the Rat Hippocampus and Rhinal Cortex That Is Modulated by Environmental Familiarity. <i>Journal of Neurophysiology</i> , 2005, 93, 1246-1254.	1.8	30
49	Excitotoxic lesions of the pre- and parasubiculum disrupt the place fields of hippocampal pyramidal cells. <i>Hippocampus</i> , 2004, 14, 107-116.	1.9	29
50	Clozapine administration ameliorates disrupted long-range synchrony in a neurodevelopmental animal model of schizophrenia. <i>Schizophrenia Research</i> , 2012, 135, 112-115.	2.0	29
51	Direct connection between perirhinal cortex and hippocampus is a major constituent of the lateral perforant path. <i>Hippocampus</i> , 1998, 6, 125-135.	1.9	26
52	The velocity-related firing property of hippocampal place cells is dependent on self-movement. <i>Hippocampus</i> , 2010, 20, 573-583.	1.9	24
53	The firing rate of hippocampal CA1 place cells is modulated with a circadian period. <i>Hippocampus</i> , 2012, 22, 1325-1337.	1.9	24
54	Parallel involvement of perirhinal and lateral entorhinal cortex in the polysynaptic activation of hippocampus by olfactory inputs. , 1997, 7, 296-306.		23

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55	Subtotal perirhinal cortex lesions increase exploratory behavior in the rat without producing deficits in the Morris water maze. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 1994, 22, 195-202.	1.3	23
56	Altered arginine metabolism in the hippocampus and prefrontal cortex of maternal immune activation rat offspring. <i>Schizophrenia Research</i> , 2013, 148, 151-156.	2.0	22
57	ADHD-like hyperactivity, with no attention deficit, in adult rats after repeated hypoxia during the equivalent of extreme prematurity. <i>Journal of Neuroscience Methods</i> , 2007, 166, 315-322.	2.5	21
58	Prenatal immune activation alters hippocampal place cell firing characteristics in adult animals. <i>Brain, Behavior, and Immunity</i> , 2015, 48, 232-243.	4.1	21
59	Eventâ€Predictive Cognition: A Root for Conceptual Human Thought. <i>Topics in Cognitive Science</i> , 2021, 13, 10-24.	1.9	21
60	Space and context in the temporal cortex. <i>Hippocampus</i> , 2007, 17, 813-825.	1.9	20
61	The Stature of Boys Is Inversely Correlated to the Levels of Their Sertoli Cell Hormones: Do the Testes Restrain the Maturation of Boys?. <i>PLoS ONE</i> , 2011, 6, e20533.	2.5	18
62	Spectrum of Short- and Long-Term Brain Pathology and Long-Term Behavioral Deficits in Male Repeated Hypoxic Rats Closely Resembling Human Extreme Prematurity. <i>Journal of Neuroscience</i> , 2013, 33, 11863-11877.	3.6	18
63	The frequency of hippocampal theta rhythm is modulated on a circadian period and is entrained by food availability. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 61.	2.0	18
64	Hippocampal place cell encoding of sloping terrain. <i>Hippocampus</i> , 2018, 28, 767-782.	1.9	18
65	The dynamic nature of spatial encoding in the hippocampus.. <i>Behavioral Neuroscience</i> , 2005, 119, 1533-1545.	1.2	17
66	The sex bias in novelty preference of preadolescent mouse pups may require testicular MÃ¼llerian inhibiting substance. <i>Behavioural Brain Research</i> , 2011, 221, 304-306.	2.2	17
67	Incipient Social Groups: An Analysis via In-Vivo Behavioral Tracking. <i>PLoS ONE</i> , 2016, 11, e0149880.	2.5	17
68	Maternal immune activation in rats produces temporal perception impairments in adult offspring analogous to those observed in schizophrenia. <i>PLoS ONE</i> , 2017, 12, e0187719.	2.5	17
69	Maternal immune activation altered microglial immunoreactivity in the brain of postnatal day 2 rat offspring. <i>Synapse</i> , 2019, 73, e22072.	1.2	17
70	Synchronous modulation of perirhinal cortex neuronal activity during cholinergically mediated (type II) hippocampal theta. , 1998, 8, 526-532.		16
71	Direct connection between perirhinal cortex and hippocampus is a major constituent of the lateral perforant path. <i>Hippocampus</i> , 1996, 6, 125-135.	1.9	16
72	The effects of NMDA lesions centered on the postrhinal cortex on spatial memory tasks in the rat.. <i>Behavioral Neuroscience</i> , 2002, 116, 860-873.	1.2	16

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73	Maternal immune activation alters sensitivity to action-outcome contingency in adult rat offspring. <i>Brain, Behavior, and Immunity</i> , 2017, 63, 81-87.	4.1	15
74	Exposure to complex environments results in more sparse representations of space in the hippocampus. <i>Hippocampus</i> , 2017, 27, 1178-1191.	1.9	14
75	Communication between the Anterior Cingulate Cortex and Ventral Tegmental Area during a Cost-Benefit Reversal Task. <i>Cell Reports</i> , 2019, 26, 2353-2361.e3.	6.4	14
76	Characterization of epileptiform field potentials recorded in the in vitro perirhinal cortex of amygdala-kindled epileptogenesis. <i>Brain Research</i> , 1996, 741, 44-51.	2.2	13
77	Transfer of epileptogenesis between perirhinal cortex and amygdala induced by electrical kindling. <i>Brain Research</i> , 1997, 771, 71-79.	2.2	13
78	Spared motivational modulation of cognitive effort in a maternal immune activation model of schizophrenia risk.. <i>Behavioral Neuroscience</i> , 2018, 132, 66-74.	1.2	13
79	The effects of separate and combined perirhinal and prefrontal cortex lesions on spatial memory tasks in the rat. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2000, 28, 12-20.	1.3	13
80	Reversal learning impairments in the maternal immune activation rat model of schizophrenia.. <i>Behavioral Neuroscience</i> , 2018, 132, 520-525.	1.2	12
81	Effects of perforant path procaine on hippocampal type 2 rhythmical slow-wave activity (theta) in the urethane-anesthetized rat. <i>Hippocampus</i> , 1994, 4, 683-695.	1.9	10
82	Long-term potentiation in the perirhinal-hippocampal pathway is NMDA dependent. <i>NeuroReport</i> , 1996, 7, 1241-1244.	1.2	10
83	Bilateral NMDA lesions centered on the postrhinal cortex have minimal effects on hippocampal place cell firing. <i>Hippocampus</i> , 2009, 19, 221-227.	1.9	10
84	Effects of maternal immune activation on brain arginine metabolism of postnatal day 2 rat offspring. <i>Schizophrenia Research</i> , 2018, 192, 431-441.	2.0	10
85	Neural Markers of Event Boundaries. <i>Topics in Cognitive Science</i> , 2021, 13, 128-141.	1.9	10
86	Hippocampal Sequencing Mechanisms Are Disrupted in a Maternal Immune Activation Model of Schizophrenia Risk. <i>Journal of Neuroscience</i> , 2021, 41, 6954-6965.	3.6	10
87	Is there a direct projection from perirhinal cortex to the hippocampus?. , 1998, 8, 424-425.		9
88	Changes in NOS protein expression and activity in the rat hippocampus, entorhinal and postrhinal cortices after unilateral electrolytic perirhinal cortex lesions. <i>Hippocampus</i> , 2003, 13, 561-571.	1.9	9
89	NEUROSCIENCE: In the Place Space. <i>Science</i> , 2004, 305, 1245-1246.	12.6	7
90	Maternal immune activation leads to increased nNOS immunoreactivity in the brain of postnatal day 2 rat offspring. <i>Synapse</i> , 2018, 72, e22011.	1.2	6

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91	Maternal immune activation alters the sequential structure of ultrasonic communications in male rats. <i>Brain, Behavior, & Immunity - Health</i> , 2021, 16, 100304.	2.5	6
92	Disorganization of Oscillatory Activity in Animal Models of Schizophrenia. <i>Frontiers in Neural Circuits</i> , 2021, 15, 741767.	2.8	6
93	Circulating anti-M β 1/4llergic hormone (AMH) associates with the maturity of boys's drawings: Does AMH slow cognitive development in males?. <i>Endocrine</i> , 2017, 57, 528-534.	2.3	5
94	Strangers in a Stadium. <i>Social Psychological and Personality Science</i> , 2017, 8, 509-518.	3.9	5
95	Circadian-scale periodic bursts in theta and gamma-band coherence between hippocampus, cingulate and insular cortices. <i>Neurobiology of Sleep and Circadian Rhythms</i> , 2017, 3, 26-37.	2.8	4
96	Place, space, and taste: Combining context and spatial information in a hippocampal navigation system. <i>Hippocampus</i> , 2012, 22, 442-454.	1.9	3
97	Conflict and adaptation signals in the anterior cingulate cortex and ventral tegmental area. <i>Scientific Reports</i> , 2018, 8, 11732.	3.3	3
98	Impaired discrimination of a subanesthetic dose of ketamine in a maternal immune activation model of schizophrenia risk. <i>Journal of Psychopharmacology</i> , 2021, 35, 1141-1151.	4.0	3
99	Current source density analysis of the potential evoked in hippocampus by perirhinal cortex stimulation. <i>Hippocampus</i> , 1997, 7, 389-396.	1.9	2
100	A procedure for the computerized representation and presentation of rotated and reflected stimuli. <i>Behavior Research Methods</i> , 1987, 19, 419-421.	1.3	1
101	Epileptogenesis in Perirhinal Cortex In Vitro. <i>Psychiatry and Clinical Neurosciences</i> , 1993, 47, 320-321.	1.8	1
102	Hippocampal coding of conspecific position. <i>Brain Research</i> , 2020, 1745, 146920.	2.2	1
103	Aberrant phase precession of lateral septal cells in a maternal immune activation model of schizophrenia risk may disrupt the integration of location with reward. <i>Journal of Neuroscience</i> , 2022, , JN-RM-0039-22.	3.6	1
104	Anterior cingulate cortex and ventral tegmental area activity during cost-benefit decision-making following maternal immune activation. <i>Schizophrenia Bulletin Open</i> , 0, , .	1.7	0