

Gregor Rainer

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

6,759
citations

186265

28
h-index

82547

72
g-index

80
all docs

80
docs citations

80
times ranked

6287
citing authors

#	ARTICLE	IF	CITATIONS
1	Overproduction of hydrogen sulfide, generated by cystathionine β -synthase, disrupts brain wave patterns and contributes to neurobehavioral dysfunction in a rat model of down syndrome. <i>Redox Biology</i> , 2022, 51, 102233.	9.0	31
2	Local Field Potential in the Visual System. , 2022, , 1827-1834.		0
3	Aspects of tree shrew consolidated sleep structure resemble human sleep. <i>Communications Biology</i> , 2021, 4, 722.	4.4	10
4	Ventral pallidum regulates the default mode network, controlling transitions between internally and externally guided behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13
5	Optogenetic Stimulation of Basal Forebrain Parvalbumin Neurons Activates the Default Mode Network and Associated Behaviors. <i>Cell Reports</i> , 2020, 33, 108359.	6.4	20
6	Alpha β -Synuclein Dopaminylation Presented in Plasma of Both Healthy Subjects and Parkinson's Disease Patients. <i>Proteomics - Clinical Applications</i> , 2020, 14, 1900117.	1.6	6
7	Measurement of ultra-trace level of intact oxytocin in plasma using SALLE combined with nano-LC β -MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 173, 62-67.	2.8	11
8	Local Field Potential in the Visual System. , 2019, , 1-8.		0
9	Stress Impacts the Regulation Neuropeptides in the Rat Hippocampus and Prefrontal Cortex. <i>Proteomics</i> , 2018, 18, e1700408.	2.2	24
10	Basal forebrain contributes to default mode network regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1352-1357.	7.1	59
11	Cannabinoids induce apathetic and impulsive patterns of choice through CB1 receptors and TRPV1 channels. <i>Neuropharmacology</i> , 2018, 133, 75-84.	4.1	18
12	Astrocytic and neuronal oxidative metabolism are coupled to the rate of glutamate β -glutamine cycle in the tree shrew visual cortex. <i>Glia</i> , 2018, 66, 477-491.	4.9	45
13	Distinct Frequency Specialization for Detecting Dark Transients in Humans and Tree Shrews. <i>Cell Reports</i> , 2018, 23, 2405-2415.	6.4	5
14	Divergent Solutions to Visual Problem Solving across Mammalian Species. <i>ENeuro</i> , 2018, 5, ENEURO.0167-18.2018.	1.9	18
15	Separation and identification of mouse brain tissue microproteins using top β -down method with high resolution nanocapillary liquid chromatography mass spectrometry. <i>Proteomics</i> , 2017, 17, 1600419.	2.2	13
16	Basal forebrain activation enhances between-trial reliability of low-frequency local field potentials (LFP) and spiking activity in tree shrew primary visual cortex (V1). <i>Brain Structure and Function</i> , 2017, 222, 4239-4252.	2.3	10
17	Gamma band directional interactions between basal forebrain and visual cortex during wake and sleep states. <i>Journal of Physiology (Paris)</i> , 2016, 110, 19-28.	2.1	18
18	Neural coding of image structure and contrast polarity of Cartesian, hyperbolic, and polar gratings in the primary and secondary visual cortex of the tree shrew. <i>Journal of Neurophysiology</i> , 2016, 115, 2000-2013.	1.8	2

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19	Neural and neurochemical basis of reinforcement-guided decision making. <i>Journal of Neurophysiology</i> , 2016, 116, 724-741.	1.8	21
20	Enhanced visual exploration for real objects compared to pictures during free viewing in the macaque monkey. <i>Behavioural Processes</i> , 2015, 118, 8-20.	1.1	8
21	High-Efficiency Recognition and Identification of Disulfide Bonded Peptides in Rat Neuropeptidome Using Targeted Electron Transfer Dissociation Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 11646-11651.	6.5	8
22	Mice lacking circadian clock components display different mood-related behaviors and do not respond uniformly to chronic lithium treatment. <i>Chronobiology International</i> , 2015, 32, 1075-1089.	2.0	46
23	Activation of cannabinoid system in anterior cingulate cortex and orbitofrontal cortex modulates cost-benefit decision making. <i>Psychopharmacology</i> , 2015, 232, 2097-2112.	3.1	43
24	Tree shrews (<i>Tupaia belangeri</i>) exhibit novelty preference in the novel location memory task with 24-h retention periods. <i>Frontiers in Psychology</i> , 2014, 5, 303.	2.1	13
25	On the Relation Between Receptive Field Structure and Stimulus Selectivity in the Tree Shrew Primary Visual Cortex. <i>Cerebral Cortex</i> , 2014, 24, 2761-2771.	2.9	30
26	Extending the scope of neuropeptidomics in the mammalian brain. <i>EuPA Open Proteomics</i> , 2014, 3, 273-279.	2.5	7
27	A MATLAB-based eye tracking control system using non-invasive helmet head restraint in the macaque. <i>Journal of Neuroscience Methods</i> , 2014, 235, 41-50.	2.5	12
28	Altered neurochemical levels in the rat brain following chronic nicotine treatment. <i>Journal of Chemical Neuroanatomy</i> , 2014, 59-60, 29-35.	2.1	9
29	Local Field Potential in the Visual System. , 2014, , 1-8.		1
30	Basal forebrain activation controls contrast sensitivity in primary visual cortex. <i>BMC Neuroscience</i> , 2013, 14, 55.	1.9	43
31	Neuropeptide alterations in the tree shrew hypothalamus during volatile anesthesia. <i>Journal of Proteomics</i> , 2013, 80, 311-319.	2.4	16
32	Chronic Nicotine Treatment Impacts the Regulation of Opioid and Non-opioid Peptides in the Rat Dorsal Striatum. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 1553-1562.	3.8	22
33	High Identification Rates of Endogenous Neuropeptides from Mouse Brain. <i>Journal of Proteome Research</i> , 2012, 11, 2819-2827.	3.7	36
34	Extensive Characterization of <i>Tupaia belangeri</i> Neuropeptidome Using an Integrated Mass Spectrometric Approach. <i>Journal of Proteome Research</i> , 2012, 11, 886-896.	3.7	27
35	Recognition memory in tree shrew (<i>Tupaia belangeri</i>) after repeated familiarization sessions. <i>Behavioural Processes</i> , 2012, 90, 364-371.	1.1	21
36	Theta coupling between V4 and prefrontal cortex predicts visual short-term memory performance. <i>Nature Neuroscience</i> , 2012, 15, 456-462.	14.8	291

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37	Analysis of multiple quaternary ammonium compounds in the brain using tandem capillary column separation and high resolution mass spectrometric detection. <i>Journal of Chromatography A</i> , 2012, 1241, 46-51.	3.7	28
38	Broad characterization of endogenous peptides in the tree shrew visual system. <i>Journal of Proteomics</i> , 2012, 75, 2526-2535.	2.4	12
39	Functional and laminar dissociations between muscarinic and nicotinic cholinergic neuromodulation in the tree shrew primary visual cortex. <i>European Journal of Neuroscience</i> , 2012, 35, 1270-1280.	2.6	20
40	Foggy perception slows us down. <i>ELife</i> , 2012, 1, e00031.	6.0	34
41	Allocating Attention in Rank-Ordered Groups. <i>Neuron</i> , 2011, 70, 5-7.	8.1	2
42	Cholinergic control of visual categorization in macaques. <i>Frontiers in Behavioral Neuroscience</i> , 2011, 5, 73.	2.0	14
43	The zebrafish heart regenerates after cryoinjury-induced myocardial infarction. <i>BMC Developmental Biology</i> , 2011, 11, 21.	2.1	314
44	Dissociable Effects of Natural Image Structure and Color on LFP and Spiking Activity in the Lateral Prefrontal Cortex and Extrastriate Visual Area V4. <i>Journal of Neuroscience</i> , 2011, 31, 10215-10227.	3.6	11
45	Neural response dynamics of spiking and local field potential activity depend on CRT monitor refresh rate in the tree shrew primary visual cortex. <i>Journal of Neurophysiology</i> , 2011, 106, 2303-2313.	1.8	30
46	Temporal kernel CCA and its application in multimodal neuronal data analysis. <i>Machine Learning</i> , 2010, 79, 5-27.	5.4	77
47	Directed coupling in local field potentials of macaque V4 during visual short-term memory revealed by multivariate autoregressive models. <i>Frontiers in Computational Neuroscience</i> , 2010, 4, 14.	2.1	26
48	Color and shape interactions in the recognition of natural scenes by human and monkey observers. <i>Journal of Vision</i> , 2009, 9, 14-14.	0.3	19
49	Localizing Cortical Computations during Visual Selection. <i>Neuron</i> , 2008, 57, 480-481.	8.1	5
50	Pharmacological MRI combined with electrophysiology in non-human primates: Effects of Lidocaine on primary visual cortex. <i>NeuroImage</i> , 2008, 40, 590-600.	4.2	30
51	Object features used by humans and monkeys to identify rotated shapes. <i>Journal of Vision</i> , 2008, 8, 9.	0.3	21
52	Mass spectrometry-based neurochemical analysis: perspectives for primate research. <i>Expert Review of Proteomics</i> , 2008, 5, 641-652.	3.0	7
53	The effect of a serotonin-induced dissociation between spiking and perisynaptic activity on BOLD functional MRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6759-6764.	7.1	139
54	Behavioral Flexibility and the Frontal Lobe. <i>Neuron</i> , 2007, 53, 321-323.	8.1	15

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55	Capillary hydrophilic interaction chromatography/mass spectrometry for simultaneous determination of multiple neurotransmitters in primate cerebral cortex. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3621-3628.	1.5	79
56	Visual Neuroscience: Face-Encoding Mechanisms Revealed by Adaptation. <i>Current Biology</i> , 2007, 17, R20-R22.	3.9	2
57	Object Recognition: Similar Visual Strategies of Birds and Mammals. <i>Current Biology</i> , 2007, 17, R174-R176.	3.9	4
58	Visual Neuroscience: Computational Brain Dynamics of Face Processing. <i>Current Biology</i> , 2007, 17, R933-R934.	3.9	0
59	Discrimination Strategies of Humans and Rhesus Monkeys for Complex Visual Displays. <i>Current Biology</i> , 2006, 16, 814-820.	3.9	35
60	Dissociation Between Local Field Potentials and Spiking Activity in Macaque Inferior Temporal Cortex Reveals Diagnosticity-Based Encoding of Complex Objects. <i>Journal of Neuroscience</i> , 2006, 26, 9639-9645.	3.6	104
61	Phase Locking of Single Neuron Activity to Theta Oscillations during Working Memory in Monkey Extrastriate Visual Cortex. <i>Neuron</i> , 2005, 45, 147-156.	8.1	369
62	The Effect of Learning on the Function of Monkey Extrastriate Visual Cortex. <i>PLoS Biology</i> , 2004, 2, e44.	5.6	111
63	Working-memory related theta (4â€“) frequency oscillations observed in monkey extrastriate visual cortex. <i>Neurocomputing</i> , 2004, 58-60, 965-969.	5.9	8
64	Neural mechanisms for detecting and remembering novel events. <i>Nature Reviews Neuroscience</i> , 2003, 4, 193-202.	10.2	667
65	Vision, behaviour, and the single neuron. , 2003, , 2-22.		0
66	Coding of Objects in the Prefrontal Cortex in Monkeys and Humans. <i>Neuroscientist</i> , 2002, 8, 6-11.	3.5	14
67	The Effect of Image Scrambling on Visual Cortical BOLD Activity in the Anesthetized Monkey. <i>NeuroImage</i> , 2002, 16, 607-616.	4.2	33
68	Timecourse of object-related neural activity in the primate prefrontal cortex during a short-term memory task. <i>European Journal of Neuroscience</i> , 2002, 15, 1244-1254.	2.6	96
69	Nonmonotonic noise tuning of BOLD fMRI signal to natural images in the visual cortex of the anesthetized monkey. <i>Current Biology</i> , 2001, 11, 846-854.	3.9	87
70	Neural ensemble states in prefrontal cortex identified using a hidden Markov model with a modified EM algorithm. <i>Neurocomputing</i> , 2000, 32-33, 961-966.	5.9	23
71	Task-Specific Neural Activity in the Primate Prefrontal Cortex. <i>Journal of Neurophysiology</i> , 2000, 84, 451-459.	1.8	423
72	Effects of Visual Experience on the Representation of Objects in the Prefrontal Cortex. <i>Neuron</i> , 2000, 27, 179-189.	8.1	327

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73	Prospective Coding for Objects in Primate Prefrontal Cortex. Journal of Neuroscience, 1999, 19, 5493-5505.	3.6	397
74	Selective representation of relevant information by neurons in the primate prefrontal cortex. Nature, 1998, 393, 577-579.	27.8	571
75	Neural Activity in the Primate Prefrontal Cortex during Associative Learning. Neuron, 1998, 21, 1399-1407.	8.1	542
76	Memory fields of neurons in the primate prefrontal cortex. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 15008-15013.	7.1	258
77	Integration of What and Where in the Primate Prefrontal Cortex. Science, 1997, 276, 821-824.	12.6	846
78	Using spikes and local field potentials to reveal computational networks in monkey cortex. , 0, , 350-362.		1