Gian Michele Ratto

List of Publications by Year
in descending order

43	2,904	218677	276875
papers	citations	26 h-index	41 g-index

45	45	45	4284
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular basis of plasticity in the visual cortex. Trends in Neurosciences, 2003, 26, 369-378.	8.6	252
2	An Excitatory Loop with Astrocytes Contributes to Drive Neurons to Seizure Threshold. PLoS Biology, 2010, 8, e1000352.	5.6	194
3	Requirement of ERK Activation for Visual Cortical Plasticity. Science, 2001, 292, 2337-2340.	12.6	192
4	At Least 2 Distinct Pathways Generating Reactive Oxygen Species Mediate Vascular Cell Adhesion Molecule-1 Induction by Advanced Glycation End Products. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 1401-1407.	2.4	192
5	In Vivo Distribution and Toxicity of PAMAM Dendrimers in the Central Nervous System Depend on Their Surface Chemistry. Molecular Pharmaceutics, 2013, 10, 249-260.	4.6	154
6	Long-term Survival of Retina Optic Nerve Section in Adult Ganglion Cells Followingbcl-2Transgenic Mice. European Journal of Neuroscience, 1996, 8, 1735-1745.	2.6	138
7	The ability of axons to regenerate their growth cones depends on axonal type and age, and is regulated by calcium, cAMP and ERK. European Journal of Neuroscience, 2005, 21, 2051-2062.	2.6	134
8	Brain-Derived Neurotrophic Factor Causes cAMP Response Element-Binding Protein Phosphorylation in Absence of Calcium Increases in Slices and Cultured Neurons from Rat Visual Cortex. Journal of Neuroscience, 2000, 20, 2809-2816.	3.6	124
9	Parvalbumin-Positive Inhibitory Interneurons Oppose Propagation But Favor Generation of Focal Epileptiform Activity. Journal of Neuroscience, 2015, 35, 9544-9557.	3.6	123
10	High-performance and site-directed in utero electroporation by a triple-electrode probe. Nature Communications, 2012, 3, 960.	12.8	110
11	Simultaneous two-photon imaging of intracellular chloride concentration and pH in mouse pyramidal neurons in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8770-E8779.	7.1	110
12	Dendritic Spine Instability in a Mouse Model of CDKL5 Disorder Is Rescued by Insulin-like Growth Factor 1. Biological Psychiatry, 2016, 80, 302-311.	1.3	106
13	Acute physiological response of mammalian central neurons to axotomy: ionic regulation and electrical activity. FASEB Journal, 2004, 18, 1934-1936.	0.5	95
14	Dynamic regulation of ERK2 nuclear translocation and mobility in living cells. Journal of Cell Science, 2006, 119, 4952-4963.	2.0	91
15	Twenty years of fluorescence imaging of intracellular chloride. Frontiers in Cellular Neuroscience, 2014, 8, 258.	3.7	83
16	Patterned Vision Causes CRE-Mediated Gene Expression in the Visual Cortex through PKA and ERK. Journal of Neuroscience, 2003, 23, 7012-7020.	3.6	79
17	The short-time structural plasticity of dendritic spines is altered in a model of Rett syndrome. Scientific Reports, 2011, 1, 45.	3.3	75
18	Targeted in vivo genetic manipulation of the mouse or rat brain by in utero electroporation with a triple-electrode probe. Nature Protocols, 2016, 11, 399-412.	12.0	72

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19	Brain-wide Mapping of Endogenous Serotonergic Transmission via Chemogenetic fMRI. Cell Reports, 2017, 21, 910-918.	6.4	70
20	Apoptosis and adaptive responses to oxidative stress in human endothelial cells exposed to cyclosporin A correlate with BCLâ€2 expression levels. FASEB Journal, 2001, 15, 731-740.	0.5	56
21	Understanding Spreading Depression from Headache to Sudden Unexpected Death. Frontiers in Neurology, 2018, 9, 19.	2.4	51
22	Perineuronal nets control visual input via thalamic recruitment of cortical PV interneurons. ELife, 2018, 7, .	6.0	46
23	The N-Terminal Domain of ERK1 Accounts for the Functional Differences with ERK2. PLoS ONE, 2008, 3, e3873.	2.5	45
24	Cytochrome P-450 3A13 and endothelin jointly mediate ductus arteriosus constriction to oxygen in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H892-H901.	3.2	36
25	Dendrimer-Based Fluorescent Indicators: In Vitro and In Vivo Applications. PLoS ONE, 2011, 6, e28450.	2.5	33
26	Transient Cognitive Impairment in Epilepsy. Frontiers in Molecular Neuroscience, 2018, 11, 458.	2.9	30
27	Synchronous Bioimaging of Intracellular pH and Chloride Based on LSS Fluorescent Protein. ACS Chemical Biology, 2016, 11, 1652-1660.	3.4	28
28	Spatio-temporal Dynamics and Localization of MeCP2 and Pathological Mutants in Living Cells. Epigenetics, 2007, 2, 187-197.	2.7	25
29	Ictal but Not Interictal Epileptic Discharges Activate Astrocyte Endfeet and Elicit Cerebral Arteriole Responses. Frontiers in Cellular Neuroscience, 2011, 5, 8.	3.7	20
30	Two systems of branching axons in monkey's retina. Journal of Comparative Neurology, 1991, 308, 149-161.	1.6	19
31	Genetically encoded sensors for Chloride concentration. Journal of Neuroscience Methods, 2022, 368, 109455.	2.5	16
32	A Kinase with a Vision. , 2006, 557, 122-132.		15
33	Finding a Needle in a Haystack: Identification of EGFP Tagged Neurons during Calcium Imaging by Means of Two-Photon Spectral Separation. Frontiers in Molecular Neuroscience, 2012, 5, 96.	2.9	14
34	Evolution of Epileptiform Activity in Zebrafish by Statistical-Based Integration of Electrophysiology and 2-Photon Ca2+ Imaging. Cells, 2020, 9, 769.	4.1	12
35	Amiodarone Inhibits the 3,5,3â€²-Triiodothyronine-Dependent Increase of Sodium/Potassium Adenosine Triphosphatase Activity and Concentration in Human Atrial Myocardial Tissue. Thyroid, 2004, 14, 493-499.	4.5	11
36	Altered Cl ^{â˜’} homeostasis hinders forebrain GABAergic interneuron migration in a mouse model of intellectual disability. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	11

#	Article	IF	Citations
37	Trehalose Treatment in Zebrafish Model of Lafora Disease. International Journal of Molecular Sciences, 2022, 23, 6874.	4.1	9
38	Mathematical modeling reveals the functional implications of the different nuclear shuttling rates of Erk1 and Erk2. Physical Biology, 2012, 9, 036001.	1.8	8
39	Arduino Due based tool to facilitate in vivo two-photon excitation microscopy. Biomedical Optics Express, 2016, 7, 1604.	2.9	8
40	Modelling genetic mosaicism of neurodevelopmental disorders in vivo by a Cre-amplifying fluorescent reporter. Nature Communications, 2020, 11, 6194.	12.8	8
41	Perturbation of Cortical Excitability in a Conditional Model of PCDH19 Disorder. Cells, 2022, 11, 1939.	4.1	7
42	Synthesis, Cellular Delivery and In vivo Application of Dendrimer-based pH Sensors. Journal of Visualized Experiments, 2013, , .	0.3	2
43	Structure and Function in the Retina. , 1994, , 67-82.		0