

Laurent Groc

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

5,528
citations

117625

34
h-index

123424

61
g-index

66
all docs

66
docs citations

66
times ranked

6428
citing authors

#	ARTICLE	IF	CITATIONS
1	Autoimmunity and NMDA receptor in brain disorders: Where do we stand?. <i>Neurobiology of Disease</i> , 2021, 147, 105161.	4.4	13
2	Relationship Between Serum NMDA Receptor Antibodies and Response to Antipsychotic Treatment in First-Episode Psychosis. <i>Biological Psychiatry</i> , 2021, 90, 9-15.	1.3	14
3	NMDA receptor membrane dynamics tunes the firing pattern of midbrain dopaminergic neurons. <i>Journal of Physiology</i> , 2021, 599, 2933-2951.	2.9	6
4	CaMKII activation persistently segregates postsynaptic proteins via liquid phase separation. <i>Nature Neuroscience</i> , 2021, 24, 777-785.	14.8	65
5	A Bottom-Up Approach to Red-Emitting Molecular-Based Nanoparticles with Natural Stealth Properties and their Use for Single-Particle Tracking Deep in Brain Tissue. <i>Advanced Materials</i> , 2021, 33, e2006644.	21.0	10
6	Characterization of the Functional Cross-Talk between Surface GABAA and Dopamine D5 Receptors. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4867.	4.1	13
7	Restoring glutamate receptosome dynamics at synapses rescues autism-like deficits in Shank3-deficient mice. <i>Molecular Psychiatry</i> , 2021, 26, 7596-7609.	7.9	25
8	Alteration of NMDA receptor trafficking as a cellular hallmark of psychosis. <i>Translational Psychiatry</i> , 2021, 11, 444.	4.8	7
9	Interplay between NMDA receptor dynamics and the synaptic proteasome. <i>European Journal of Neuroscience</i> , 2021, 54, 6000-6011.	2.6	8
10	The diverse and complex modes of action of anti-NMDA receptor autoantibodies. <i>Neuropharmacology</i> , 2021, 194, 108624.	4.1	15
11	Regulation of membrane NMDA receptors by dynamics and protein interactions. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	21
12	Une maladie auto-immuneÂ?, 2021, NÂ° 130, 36-41.		0
13	Surface trafficking of neurotransmitter receptors: From cultured neurons to intact brain preparations. <i>Neuropharmacology</i> , 2020, 169, 107642.	4.1	19
14	Human endogenous retroviral protein triggers deficit in glutamate synapse maturation and behaviors associated with psychosis. <i>Science Advances</i> , 2020, 6, eabc0708.	10.3	37
15	Synucleinopathy alters nanoscale organization and diffusion in the brain extracellular space through hyaluronan remodeling. <i>Nature Communications</i> , 2020, 11, 3440.	12.8	69
16	Distance-dependent regulation of NMDAR nanoscale organization along hippocampal neuron dendrites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24526-24533.	7.1	18
17	Linking glutamate receptor movements and synapse function. <i>Science</i> , 2020, 368, .	12.6	133
18	Human Autoantibodies Against N-Methyl-D-Aspartate Receptor Modestly Alter Dopamine D1 Receptor Surface Dynamics. <i>Frontiers in Psychiatry</i> , 2019, 10, 670.	2.6	18

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19	Role of CX3CR1 Signaling on the Maturation of GABAergic Transmission and Neuronal Network Activity in the Neonate Hippocampus. <i>Neuroscience</i> , 2019, 406, 186-201.	2.3	9
20	Tracking single membrane targets of human autoantibodies using single nanoparticle imaging. <i>Journal of Neuroscience Methods</i> , 2018, 304, 76-82.	2.5	2
21	Molecular Pathogenicity of Anti-NMDA Receptor Autoantibody From Patients With First-Episode Psychosis. <i>American Journal of Psychiatry</i> , 2018, 175, 382-383.	7.2	9
22	Comparative Analysis of Photoluminescence and Upconversion Emission from Individual Carbon Nanotubes for Bioimaging Applications. <i>ACS Photonics</i> , 2018, 5, 359-364.	6.6	33
23	Differential Nanoscale Topography and Functional Role of GluN2-NMDA Receptor Subtypes at Glutamatergic Synapses. <i>Neuron</i> , 2018, 100, 106-119.e7.	8.1	83
24	Pathogenicity of Antibodies against NMDA Receptor: Molecular Insights into Autoimmune Psychosis. <i>Trends in Neurosciences</i> , 2018, 41, 502-511.	8.6	23
25	Antidepressive effects of targeting ELK-1 signal transduction. <i>Nature Medicine</i> , 2018, 24, 591-597.	30.7	33
26	Altered surface mGluR5 dynamics provoke synaptic NMDAR dysfunction and cognitive defects in Fmr1 knockout mice. <i>Nature Communications</i> , 2017, 8, 1103.	12.8	71
27	Stress hormone rapidly tunes synaptic NMDA receptor through membrane dynamics and mineralocorticoid signalling. <i>Scientific Reports</i> , 2017, 7, 8053.	3.3	48
28	Dynamics of surface neurotransmitter receptors and transporters in glial cells: Single molecule insights. <i>Cell Calcium</i> , 2017, 67, 46-52.	2.4	11
29	Dynamic disorganization of synaptic NMDA receptors triggered by autoantibodies from psychotic patients. <i>Nature Communications</i> , 2017, 8, 1791.	12.8	103
30	Cell- and Single Molecule-Based Methods to Detect Anti-N-Methyl-D-Aspartate Receptor Autoantibodies in Patients With First-Episode Psychosis From the OPTiMiSE Project. <i>Biological Psychiatry</i> , 2017, 82, 766-772.	1.3	67
31	Clinical and autoimmune features of a patient with autism spectrum disorder seropositive for anti-NMDA-receptor autoantibody. <i>Dialogues in Clinical Neuroscience</i> , 2017, 19, 65-70.	3.7	16
32	Co-agonists differentially tune GluN2B-NMDA receptor trafficking at hippocampal synapses. <i>ELife</i> , 2017, 6, .	6.0	76
33	Single nanoparticle tracking of N-methyl-D-aspartate receptors in cultured and intact brain tissue. <i>Neurophotonics</i> , 2016, 3, 041808.	3.3	14
34	Interleukin-1 β -targeted treatment strategies in inflammatory depression: toward personalized care. <i>Acta Psychiatrica Scandinavica</i> , 2016, 134, 469-484.	4.5	44
35	Co-activation of VEGF and NMDA receptors promotes synaptic targeting of AMPA receptors. <i>Molecular Psychiatry</i> , 2016, 21, 1647-1647.	7.9	2
36	Tissue-type plasminogen activator controls neuronal death by raising surface dynamics of extrasynaptic NMDA receptors. <i>Cell Death and Disease</i> , 2016, 7, e2466-e2466.	6.3	42

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37	Targeting neurotransmitter receptors with nanoparticles in vivo allows single-molecule tracking in acute brain slices. <i>Nature Communications</i> , 2016, 7, 10947.	12.8	62
38	Is it time for immunopsychiatry in psychotic disorders?. <i>Psychopharmacology</i> , 2016, 233, 1651-1660.	3.1	74
39	A critical role for VEGF and VEGFR2 in NMDA receptor synaptic function and fear-related behavior. <i>Molecular Psychiatry</i> , 2016, 21, 1768-1780.	7.9	68
40	Toward the suppression of cellular toxicity from single-walled carbon nanotubes. <i>Biomaterials Science</i> , 2016, 4, 230-244.	5.4	40
41	Temporal Memory and Its Enhancement by Estradiol Requires Surface Dynamics of Hippocampal CA1 N-Methyl-D-Aspartate Receptors. <i>Biological Psychiatry</i> , 2016, 79, 735-745.	1.3	41
42	Hippocampal Fast Glutamatergic Transmission Is Transiently Regulated by Corticosterone Pulsatility. <i>PLoS ONE</i> , 2016, 11, e0145858.	2.5	28
43	Surface diffusion of astrocytic glutamate transporters shapes synaptic transmission. <i>Nature Neuroscience</i> , 2015, 18, 219-226.	14.8	223
44	Ultradian corticosterone pulses balance glutamatergic transmission and synaptic plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14265-14270.	7.1	66
45	Surface dynamics of GluN2B-NMDA receptors controls plasticity of maturing glutamate synapses. <i>EMBO Journal</i> , 2014, 33, 842-861.	7.8	101
46	Surface trafficking of NMDA receptors: Gathering from a partner to another. <i>Seminars in Cell and Developmental Biology</i> , 2014, 27, 3-13.	5.0	46
47	Single-molecule imaging of the functional crosstalk between surface NMDA and dopamine D1 receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18005-18010.	7.1	92
48	Disrupted surface cross-talk between NMDA and Ephrin-B2 receptors in anti-NMDA encephalitis. <i>Brain</i> , 2012, 135, 1606-1621.	7.6	272
49	Synaptic and Extrasynaptic NMDA Receptors Are Gated by Different Endogenous Coagonists. <i>Cell</i> , 2012, 150, 633-646.	28.9	597
50	Glutamate receptor dynamics and protein interaction: Lessons from the NMDA receptor. <i>Molecular and Cellular Neurosciences</i> , 2011, 48, 298-307.	2.2	75
51	Dynamic and specific interaction between synaptic NR2-NMDA receptor and PDZ proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19561-19566.	7.1	86
52	Surface trafficking of N-methyl-d-aspartate receptors: Physiological and pathological perspectives. <i>Neuroscience</i> , 2009, 158, 4-18.	2.3	110
53	The stress hormone corticosterone conditions AMPAR surface trafficking and synaptic potentiation. <i>Nature Neuroscience</i> , 2008, 11, 868-870.	14.8	240
54	Probing the Dynamics of Protein-Protein Interactions at Neuronal Contacts by Optical Imaging. <i>Chemical Reviews</i> , 2008, 108, 1565-1587.	47.7	56

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55	Surface Mobility of Postsynaptic AMPARs Tunes Synaptic Transmission. <i>Science</i> , 2008, 320, 201-205.	12.6	433
56	NMDA Receptor Surface Trafficking and Synaptic Subunit Composition Are Developmentally Regulated by the Extracellular Matrix Protein Reelin. <i>Journal of Neuroscience</i> , 2007, 27, 10165-10175.	3.6	185
57	The Interaction between Stargazin and PSD-95 Regulates AMPA Receptor Surface Trafficking. <i>Neuron</i> , 2007, 53, 719-734.	8.1	500
58	Diffusional Trapping of GluR1 AMPA Receptors by Input-Specific Synaptic Activity. <i>Neuron</i> , 2007, 54, 447-460.	8.1	272
59	NMDA receptor surface mobility depends on NR2A-2B subunits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18769-18774.	7.1	306
60	Differential activity-dependent regulation of the lateral mobilities of AMPA and NMDA receptors. <i>Nature Neuroscience</i> , 2004, 7, 695-696.	14.8	366