

# John Gray

## List of Publications by Year in descending order

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36  
papers

4,472  
citations

304743

22  
h-index

361022

35  
g-index

43  
all docs

43  
docs citations

43  
times ranked

6138  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Expanded Biology of Serotonin. <i>Annual Review of Medicine</i> , 2009, 60, 355-366.	12.2	1,451
2	Psychedelics Promote Structural and Functional Neural Plasticity. <i>Cell Reports</i> , 2018, 23, 3170-3182.	6.4	566
3	Metabolic Control of Vesicular Glutamate Transport and Release. <i>Neuron</i> , 2010, 68, 99-112.	8.1	331
4	Paradoxical trafficking and regulation of 5-HT <sub>2A</sub> receptors by agonists and antagonists. <i>Brain Research Bulletin</i> , 2001, 56, 441-451.	3.0	262
5	Distinct Modes of AMPA Receptor Suppression at Developing Synapses by GluN2A and GluN2B: Single-Cell NMDA Receptor Subunit Deletion In Vivo. <i>Neuron</i> , 2011, 71, 1085-1101.	8.1	241
6	Molecular Targets for Treating Cognitive Dysfunction in Schizophrenia. <i>Schizophrenia Bulletin</i> , 2007, 33, 1100-1119.	4.3	205
7	The pipeline and future of drug development in schizophrenia. <i>Molecular Psychiatry</i> , 2007, 12, 904-922.	7.9	173
8	A Direct Interaction of PSD-95 with 5-HT <sub>2A</sub> Serotonin Receptors Regulates Receptor Trafficking and Signal Transduction. <i>Journal of Biological Chemistry</i> , 2003, 278, 21901-21908.	3.4	152
9	The Dynamin-dependent, Arrestin-independent Internalization of 5-Hydroxytryptamine 2A (5-HT <sub>2A</sub> ) Serotonin Receptors Reveals Differential Sorting of Arrestins and 5-HT <sub>2A</sub> Receptors during Endocytosis. <i>Journal of Biological Chemistry</i> , 2001, 276, 8269-8277.	3.4	144
10	Non-Ionotropic NMDA Receptor Signaling Drives Activity-Induced Dendritic Spine Shrinkage. <i>Journal of Neuroscience</i> , 2015, 35, 12303-12308.	3.6	119
11	Activated CaMKII Couples GluN2B and Casein Kinase 2 to Control Synaptic NMDA Receptors. <i>Cell Reports</i> , 2013, 3, 607-614.	6.4	100
12	Structure and Function of the Third Intracellular Loop of the 5-Hydroxytryptamine <sub>2A</sub> Receptor: The Third Intracellular Loop Is $\alpha$ -Helical and Binds Purified Arrestins. <i>Journal of Neurochemistry</i> , 2008, 72, 2206-2214.	3.9	89
13	Cell-Type Specific Effects of Endocytosis Inhibitors on 5-Hydroxytryptamine <sub>2A</sub> Receptor Desensitization and Resensitization Reveal an Arrestin-, GRK2-, and GRK5-Independent Mode of Regulation in Human Embryonic Kidney 293 Cells. <i>Molecular Pharmacology</i> , 2001, 60, 1020-1030.	2.3	88
14	The PDZ-binding domain is essential for the dendritic targeting of 5-HT <sub>2A</sub> serotonin receptors in cortical pyramidal neurons in vitro. <i>Neuroscience</i> , 2003, 122, 907-920.	2.3	71
15	SAP102 Mediates Synaptic Clearance of NMDA Receptors. <i>Cell Reports</i> , 2012, 2, 1120-1128.	6.4	67
16	The Interaction of a Constitutively Active Arrestin with the Arrestin-Insensitive 5-HT <sub>2A</sub> Receptor Induces Agonist-Independent Internalization. <i>Molecular Pharmacology</i> , 2003, 63, 961-972.	2.3	55
17	Identification of Two Serine Residues Essential for Agonist-Induced 5-HT <sub>2A</sub> Receptor Desensitization. <i>Biochemistry</i> , 2003, 42, 10853-10862.	2.5	39
18	CELL BIOLOGY: A Last GASP for GPCRs?. <i>Science</i> , 2002, 297, 529-531.	12.6	32

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19	Genetic analysis of neuronal ionotropic glutamate receptor subunits. <i>Journal of Physiology</i> , 2011, 589, 4095-4101.	2.9	31
20	Excitotoxic superoxide production and neuronal death require both ionotropic and non-ionotropic NMDA receptor signaling. <i>Scientific Reports</i> , 2018, 8, 17522.	3.3	30
21	Postsynaptic Serine Racemase Regulates NMDA Receptor Function. <i>Journal of Neuroscience</i> , 2020, 40, 9564-9575.	3.6	29
22	Long-Term Depression Is Independent of GluN2 Subunit Composition. <i>Journal of Neuroscience</i> , 2018, 38, 4462-4470.	3.6	28
23	Metaplasticity contributes to memory formation in the hippocampus. <i>Neuropsychopharmacology</i> , 2019, 44, 408-414.	5.4	24
24	Non-ionotropic signaling by the NMDA receptor: controversy and opportunity. <i>F1000Research</i> , 2016, 5, 1010.	1.6	23
25	NMDAR-Activated PP1 Dephosphorylates GluN2B to Modulate NMDAR Synaptic Content. <i>Cell Reports</i> , 2019, 28, 332-341.e5.	6.4	22
26	Potential of Synaptic AMPA Receptors Induced by the Deletion of NMDA Receptors Requires the GluA2 Subunit. <i>Journal of Neurophysiology</i> , 2011, 105, 923-928.	1.8	18
27	Increased excitation-inhibition balance and loss of GABAergic synapses in the serine racemase knockout model of NMDA receptor hypofunction. <i>Journal of Neurophysiology</i> , 2021, 126, 11-27.	1.8	13
28	Excessive Laughter-like Vocalizations, Microcephaly, and Translational Outcomes in the <i>Ube3a</i> Deletion Rat Model of Angelman Syndrome. <i>Journal of Neuroscience</i> , 2021, 41, 8801-8814.	3.6	13
29	The Role of Glutamate in Language and Language Disorders - Evidence from ERP and Pharmacologic Studies. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 119, 217-241.	6.1	12
30	Thinking Outside the Synapse: Glycine at Extrasynaptic NMDA Receptors. <i>Cell</i> , 2012, 150, 455-456.	28.9	9
31	Reduced d-serine levels drive enhanced non-ionotropic NMDA receptor signaling and destabilization of dendritic spines in a mouse model for studying schizophrenia. <i>Neurobiology of Disease</i> , 2022, 170, 105772.	4.4	8
32	Sestd1 Encodes a Developmentally Dynamic Synapse Protein That Complexes With BCR Rac1-GAP to Regulate Forebrain Dendrite, Spine and Synapse Formation. <i>Cerebral Cortex</i> , 2019, 29, 505-516.	2.9	7
33	Incomplete block of NMDA receptors by intracellular MK-801. <i>Neuropharmacology</i> , 2018, 143, 122-129.	4.1	6
34	Developing selectively nonselective drugs for treating CNS disorders. <i>Drug Discovery Today: Therapeutic Strategies</i> , 2006, 3, 413-419.	0.5	4
35	Parkinsonism and Rabbit Syndrome After Discontinuation of Low-Dose Ziprasidone and Concomitant Initiation of Sertraline. <i>Journal of Clinical Psychopharmacology</i> , 2012, 32, 142-143.	1.4	4
36	NMDAR-Activated PP1 Dephosphorylates GluN2B to Modulate NMDAR-Plasticity. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0