Jonathan A Javitch

List of Publications by Year
in descending order

266 papers	26,351 citations	3525 90 h-index	7340 152 g-index
307 all docs	307 docs citations	307 times ranked	17714 citing authors

#	Article	IF	Citations
1	Parkinsonism-inducing neurotoxin, N-methyl-4-phenyl-1,2,3,6 -tetrahydropyridine: uptake of the metabolite N-methyl-4-phenylpyridine by dopamine neurons explains selective toxicity.. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 2173-2177.	3.3	1,138
2	Structure of the Human Dopamine D3 Receptor in Complex with a D2/D3 Selective Antagonist. Science, 2010, 330, 1091-1095.	6.0	1,034
3	Functional Selectivity and Classical Concepts of Quantitative Pharmacology. Journal of Pharmacology and Experimental Therapeutics, 2007, 320, 1-13.	1.3	997
4	Activation of the Î²2-Adrenergic Receptor Involves Disruption of an Ionic Lock between the Cytoplasmic Ends of Transmembrane Segments 3 and 6. Journal of Biological Chemistry, 2001, 276, 29171-29177.	1.6	566
5	Structural Mimicry in G Protein-Coupled Receptors: Implications of the High-Resolution Structure of Rhodopsin for Structure-Function Analysis of Rhodopsin-Like Receptors. Molecular Pharmacology, 2001, 60, 1-19.	1.0	432
6	The Mechanism of a Neurotransmitter:Sodium Symporterâ€"Inward Release of Na+ and Substrate IsÂTriggered by Substrate in a Second Binding Site. Molecular Cell, 2008, 30, 667-677.	4.5	352
7	Building a new conceptual framework for receptor heteromers. Nature Chemical Biology, 2009, 5, 131-134.	3.9	349
8	Amphetamine-induced loss of human dopamine transporter activity: An internalization-dependent and cocaine-sensitive mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 6850-6855.	3.3	346
9	Î²2 Adrenergic Receptor Activation. Journal of Biological Chemistry, 2002, 277, 40989-40996.	1.6	339
10	Allosteric communication between protomers of dopamine class A GPCR dimers modulates activation. Nature Chemical Biology, 2009, 5, 688-695.	3.9	323
11	Treatment resistant depression: A multi-scale, systems biology approach. Neuroscience and Biobehavioral Reviews, 2018, 84, 272-288.	2.9	319
12	THEBINDINGSITE OFAMINERGICG PROTEINâ€"COUPLEDRECEPTORS: The Transmembrane Segments and Second Extracellular Loop. Annual Review of Pharmacology and Toxicology, 2002, 42, 437-467.	4.2	318
13	Discovery of Î²-Arrestinâ€"Biased Dopamine D ₂ Ligands for Probing Signal Transduction Pathways Essential for Antipsychotic Efficacy. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18488-18493.	3.3	312
14	Time-resolved FRET between GPCR ligands reveals oligomers in native tissues. Nature Chemical Biology, 2010, 6, 587-594.	3.9	306
15	Dopamine D2 receptors form higher order oligomers at physiological expression levels. EMBO Journal, 2008, 27, 2293-2304.	3.5	305
16	The binding sites for cocaine and dopamine in the dopamine transporter overlap. Nature Neuroscience, 2008, 11, 780-789.	7.1	304
17	From The Cover: Crosstalk in G protein-coupled receptors: Changes at the transmembrane homodimer interface determine activation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17495-17500.	3.3	277
18	Substrate-modulated gating dynamics in a Na+-coupled neurotransmitter transporter homologue. Nature, 2011, 474, 109-113.	13.7	276

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19	International Union of Basic and Clinical Pharmacology. LXVII. Recommendations for the Recognition and Nomenclature of G Protein-Coupled Receptor Heteromultimers. Pharmacological Reviews, 2007, 59, 5-13.	7.1	274
20	The role of kinetic context in apparent biased agonism at GPCRs. Nature Communications, 2016, 7, 10842.	5.8	270
21	Cyanine fluorophore derivatives with enhanced photostability. Nature Methods, 2012, 9, 68-71.	9.0	269
22	Uptake of MPP(+) by dopamine neurons explains selectivity of parkinsonism-inducing neurotoxin, MPTP. European Journal of Pharmacology, 1984, 106, 455-456.	1.7	265
23	Single-molecule analysis of ligand efficacy in Î²2ARâ€“G-protein activation. Nature, 2017, 547, 68-73.	13.7	265
24	The Fourth Transmembrane Segment Forms the Interface of the Dopamine D2 Receptor Homodimer. Journal of Biological Chemistry, 2003, 278, 4385-4388.	1.6	257
25	Roles of the Akt/GSK-3 and Wnt Signaling Pathways in Schizophrenia and Antipsychotic Drug Action. American Journal of Psychiatry, 2010, 167, 388-396.	4.0	254
26	A Comprehensive Structure-Based Alignment of Prokaryotic and Eukaryotic Neurotransmitter/Na+Symporters (NSS) Aids in the Use of the LeuT Structure to Probe NSS Structure and Function. Molecular Pharmacology, 2006, 70, 1630-1642.	1.0	248
27	Amphetamine induces dopamine efflux through a dopamine transporter channel. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3495-3500.	3.3	246
28	The Behavioral Effects of the Antidepressant Tianeptine Require the Mu-Opioid Receptor. Neuropsychopharmacology, 2017, 42, 2052-2063.	2.8	240
29	Mitogen-Activated Protein Kinase Regulates Dopamine Transporter Surface Expression and Dopamine Transport Capacity. Journal of Neuroscience, 2003, 23, 8480-8488.	1.7	239
30	Single-molecule dynamics of gating in a neurotransmitter transporter homologue. Nature, 2010, 465, 188-193.	13.7	239
31	Synthetic and Receptor Signaling Explorations of the Mitragyna Alkaloids: Mitragynine as an Atypical Molecular Framework for Opioid Receptor Modulators. Journal of the American Chemical Society, 2016, 138, 6754-6764.	6.6	233
32	Detection of antigen interactions ex vivo by proximity ligation assay: endogenous dopamine D2-adenosine A2A receptor complexes in the striatum. BioTechniques, 2011, 51, 111-118.	0.8	230
33	N-Terminal Phosphorylation of the Dopamine Transporter Is Required for Amphetamine-Induced Efflux. PLoS Biology, 2004, 2, e78.	2.6	221
34	Mutation of a Highly Conserved Aspartic Acid in the Î²₂Adrenergic Receptor: Constitutive Activation, Structural Instability, and Conformational Rearrangement of Transmembrane Segment 6. Molecular Pharmacology, 1999, 56, 175-184.	1.0	214
35	Mechanism of chloride interaction with neurotransmitter:sodium symporters. Nature, 2007, 449, 726-730.	13.7	212
36	The second extracellular loop of the dopamine D2 receptor lines the binding-site crevice. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 440-445.	3.3	210

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37	Calmodulin Kinase II Interacts with the Dopamine Transporter C Terminus to Regulate Amphetamine-Induced Reverse Transport. Neuron, 2006, 51, 417-429.	3.8	197
38	Symmetrical dimer of the human dopamine transporter revealed by cross-linking Cys-306 at the extracellular end of the sixth transmembrane segment. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 10055-10060.	3.3	187
39	PI 3-kinase regulation of dopamine uptake. Journal of Neurochemistry, 2002, 81, 859-869.	2.1	186
40	Binding of an octylglucoside detergent molecule in the second substrate (S2) site of LeuT establishes an inhibitor-bound conformation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5563-5568.	3.3	184
41	Constitutive Activation of the Î²2 Adrenergic Receptor Alters the Orientation of Its Sixth Membrane-spanning Segment. Journal of Biological Chemistry, 1997, 272, 18546-18549.	1.6	183
42	The organic cation transporter-3 is a pivotal modulator of neurodegeneration in the nigrostriatal dopaminergic pathway. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8043-8048.	3.3	183
43	Ion/substrate-dependent conformational dynamics of a bacterial homolog of neurotransmitter:sodium symporters. Nature Structural and Molecular Biology, 2010, 17, 822-829.	3.6	183
44	D2 Receptors Regulate Dopamine Transporter Function via an Extracellular Signal-Regulated Kinases 1 and 2-Dependent and Phosphoinositide 3 Kinase-Independent Mechanism. Molecular Pharmacology, 2007, 71, 1222-1232.	1.0	182
45	Mapping the binding-site crevice of the dopamine D2 receptor by the substituted-cysteine accessibility method. Neuron, 1995, 14, 825-831.	3.8	179
46	Flotillin-1 is essential for PKC-triggered endocytosis and membrane microdomain localization of DAT. Nature Neuroscience, 2011, 14, 469-477.	7.1	177
47	Reaction of oxidized dopamine with endogenous cysteine residues in the human dopamine transporter. Journal of Neurochemistry, 2001, 76, 1242-1251.	2.1	175
48	Amphetamine-induced Dopamine Efflux. Journal of Biological Chemistry, 2003, 278, 12070-12077.	1.6	174
49	The Forgotten Serine. Journal of Biological Chemistry, 2000, 275, 37779-37788.	1.6	172
50	Monitoring the function of membrane transport proteins in detergent-solubilized form. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3603-3608.	3.3	172
51	Amphetamine and Methamphetamine Differentially Affect Dopamine Transporters in Vitro and in Vivo. Journal of Biological Chemistry, 2009, 284, 2978-2989.	1.6	168
52	A Cluster of Aromatic Residues in the Sixth Membrane-Spanning Segment of the Dopamine D2 Receptor Is Accessible in the Binding-Site Crevice. Biochemistry, 1998, 37, 998-1006.	1.2	165
53	Increasing dopamine D2 receptor expression in the adult nucleus accumbens enhances motivation. Molecular Psychiatry, 2013, 18, 1025-1033.	4.1	162
54	Paraquat neurotoxicity is mediated by the dopamine transporter and organic cation transporter-3. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20766-20771.	3.3	161

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55	Signaling pathways in schizophrenia: emerging targets and therapeutic strategies. Trends in Pharmacological Sciences, 2010, 31, 381-390.	4.0	159
56	A mechanism for intracellular release of Na+ by neurotransmitter/sodium symporters. Nature Structural and Molecular Biology, 2014, 21, 1006-1012.	3.6	159
57	Cocaine Increases Dopamine Uptake and Cell Surface Expression of Dopamine Transporters. Biochemical and Biophysical Research Communications, 2002, 290, 1545-1550.	1.0	156
58	Molecular Determinants of Selectivity and Efficacy at the Dopamine D3 Receptor. Journal of Medicinal Chemistry, 2012, 55, 6689-6699.	2.9	153
59	N-terminal Truncation of the Dopamine Transporter Abolishes Phorbol Ester- and Substance P Receptor-stimulated Phosphorylation without Impairing Transporter Internalization. Journal of Biological Chemistry, 2003, 278, 4990-5000.	1.6	152
60	Extrapyramidal side effects of antipsychotics are linked to their association kinetics at dopamine D2 receptors. Nature Communications, 2017, 8, 763.	5.8	148
61	Hetero-oligomerization of CCR2, CCR5, and CXCR4 and the Protean Effects of â€œSelectiveâ€•Antagonists. Journal of Biological Chemistry, 2009, 284, 31270-31279.	1.6	146
62	Conformational dynamics of ligand-dependent alternating access in LeuT. Nature Structural and Molecular Biology, 2014, 21, 472-479.	3.6	136
63	Akt Is Essential for Insulin Modulation of Amphetamine-Induced Human Dopamine Transporter Cell-Surface Redistribution. Molecular Pharmacology, 2005, 68, 102-109.	1.0	132
64	A cysteine residue in the third membrane-spanning segment of the human D2 dopamine receptor is exposed in the binding-site crevice.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 10355-10359.	3.3	130
65	Cocaine alters the accessibility of endogenous cysteines in putative extracellular and intracellular loops of the human dopamine transporter. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9238-9243.	3.3	124
66	Residues in the Seventh Membrane-Spanning Segment of the Dopamine D2 Receptor Accessible in the Binding-Site Crevice. Biochemistry, 1996, 35, 11278-11285.	1.2	121
67	An Intracellular Interaction Network Regulates Conformational Transitions in the Dopamine Transporter. Journal of Biological Chemistry, 2008, 283, 17691-17701.	1.6	120
68	Crystal structure of a potassium ion transporter, TrkH. Nature, 2011, 471, 336-340.	13.7	120
69	7-Hydroxymitragynine Is an Active Metabolite of Mitragynine and a Key Mediator of Its Analgesic Effects. ACS Central Science, 2019, 5, 992-1001.	5.3	120
70	Sodium-Dependent Neurotransmitter TRANSPORTERS: OLIGOMERIZATION as a Determinant of Transporter Function and Trafficking. Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics, 2004, 4, 38-47.	3.4	119
71	Structural mimicry in G protein-coupled receptors: implications of the high-resolution structure of rhodopsin for structure-function analysis of rhodopsin-like receptors. Molecular Pharmacology, 2001, 60, 1-19.	1.0	119
72	Identification of Novel Functionally Selective Î¹-Opioid Receptor Scaffolds. Molecular Pharmacology, 2014, 85, 83-90.	1.0	117

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73	Human Immunodeficiency Virus (HIV) Infection of Human Macrophages Is Increased by Dopamine. American Journal of Pathology, 2009, 175, 1148-1159.	1.9	115
74	Syntaxin 1A Interaction with the Dopamine Transporter Promotes Amphetamine-Induced Dopamine Efflux. Molecular Pharmacology, 2008, 74, 1101-1108.	1.0	114
75	The Human Dopamine Transporter Forms a Tetramer in the Plasma Membrane. Journal of Biological Chemistry, 2003, 278, 45045-45048.	1.6	109
76	PIP2 regulates psychostimulant behaviors through its interaction with a membrane protein. Nature Chemical Biology, 2014, 10, 582-589.	3.9	109
77	A new mechanism of allostery in a G proteinâ€“coupled receptor dimer. Nature Chemical Biology, 2014, 10, 745-752.	3.9	108
78	CODA-RET reveals functional selectivity as a result of GPCR heteromerization. Nature Chemical Biology, 2011, 7, 624-630.	3.9	107
79	The atypical antidepressant and neurorestorative agent tianeptine is a Î¼-opioid receptor agonist. Translational Psychiatry, 2014, 4, e411-e411.	2.4	107
80	The Substrate-Driven Transition to an Inward-Facing Conformation in the Functional Mechanism of the Dopamine Transporter. PLoS ONE, 2011, 6, e16350.	1.1	107
81	Residues in the Fifth Membrane-Spanning Segment of the Dopamine D2 Receptor Exposed in the Binding-Site Crevice. Biochemistry, 1995, 34, 16433-16439.	1.2	106
82	Dysregulation of Dopamine Transporters via Dopamine D₂Autoreceptors Triggers Anomalous Dopamine Efflux Associated with Attention-Deficit Hyperactivity Disorder. Journal of Neuroscience, 2010, 30, 6048-6057.	1.7	105
83	Single-molecule FRET imaging of GPCR dimers in living cells. Nature Methods, 2021, 18, 397-405.	9.0	104
84	Regulation of Dopamine Transporter Function and Cell Surface Expression by D3 Dopamine Receptors. Journal of Biological Chemistry, 2007, 282, 35842-35854.	1.6	101
85	Evidence against dopamine D1/D2 receptor heteromers. Molecular Psychiatry, 2015, 20, 1373-1385.	4.1	100
86	What Can Crystal Structures of Aminergic Receptors Tell Us about Designing Subtype-Selective Ligands?. Pharmacological Reviews, 2015, 67, 198-213.	7.1	99
87	Mechanisms of amphetamine action illuminated through optical monitoring of dopamine synaptic vesicles in Drosophila brain. Nature Communications, 2016, 7, 10652.	5.8	97
88	[3H]mazindol binding associated with neuronal dopamine uptake sites in corpus striatum membranes. European Journal of Pharmacology, 1983, 90, 461-462.	1.7	96
89	6â€²-Guanidinonaltrindole (6â€²-GNTI) Is a G Protein-biased Î´-Opioid Receptor Agonist That Inhibits Arrestin Recruitment. Journal of Biological Chemistry, 2012, 287, 27050-27054.	1.6	96
90	Antipsychotic drug mechanisms: links between therapeutic effects, metabolic side effects and the insulin signaling pathway. Molecular Psychiatry, 2008, 13, 918-929.	4.1	95

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91	Peroxynitrite Inactivates the Human Dopamine Transporter by Modification of Cysteine 342: Potential Mechanism of Neurotoxicity in Dopamine Neurons. Journal of Neuroscience, 2002, 22, 4399-4405.	1.7	94
92	The Uptake Inhibitors Cocaine and Benztropine Differentially Alter the Conformation of the Human Dopamine Transporter. Journal of Biological Chemistry, 2001, 276, 29012-29018.	1.6	93
93	Dopamine D4/D2 Receptor Selectivity Is Determined by A Divergent Aromatic Microdomain Contained within the Second, Third, and Seventh Membrane-Spanning Segments. Molecular Pharmacology, 1999, 56, 1116-1126.	1.0	92
94	The Ants Go Marching Two by Two: Oligomeric Structure of G-Protein-Coupled Receptors. Molecular Pharmacology, 2004, 66, 1077-1082.	1.0	92
95	Accumbens dopamine D2 receptors increase motivation by decreasing inhibitory transmission to the ventral pallidum. Nature Communications, 2018, 9, 1086.	5.8	92
96	Synergistic Contributions of the Functional Groups of Epinephrine to Its Affinity and Efficacy at the Î²2Adrenergic Receptor. Molecular Pharmacology, 2004, 65, 1181-1190.	1.0	89
97	Intracellular Ca2+Regulates Amphetamine-Induced Dopamine Efflux and Currents Mediated by the Human Dopamine Transporter. Molecular Pharmacology, 2004, 66, 137-143.	1.0	89
98	State-dependent Conformations of the Translocation Pathway in the Tyrosine Transporter Tyt1, a Novel Neurotransmitter:Sodium Symporter from Fusobacterium nucleatum. Journal of Biological Chemistry, 2006, 281, 26444-26454.	1.6	88
99	Characterization of a Functional Bacterial Homologue of Sodium-dependent Neurotransmitter Transporters. Journal of Biological Chemistry, 2003, 278, 12703-12709.	1.6	86
100	Identification of Intracellular Residues in the Dopamine Transporter Critical for Regulation of Transporter Conformation and Cocaine Binding. Journal of Biological Chemistry, 2004, 279, 3228-3238.	1.6	85
101	Amphetamine Regulation of Dopamine Transport. Journal of Biological Chemistry, 2004, 279, 8966-8975.	1.6	85
102	Chloride binding site of neurotransmitter sodium symporters. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8489-8494.	3.3	85
103	Experimental conditions can obscure the second high-affinity site in LeuT. Nature Structural and Molecular Biology, 2012, 19, 207-211.	3.6	84
104	G Protein-coupled Receptor Kinase-mediated Phosphorylation Regulates Post-endocytic Trafficking of the D2 Dopamine Receptor. Journal of Biological Chemistry, 2009, 284, 15038-15051.	1.6	83
105	Dual agonist occupancy of AT1-Râ€“Î±2C-AR heterodimers results in atypical Gs-PKA signaling. Nature Chemical Biology, 2015, 11, 271-279.	3.9	83
106	Surface Targeting of the Dopamine Transporter Involves Discrete Epitopes in the Distal C Terminus But Does Not Require Canonical PDZ Domain Interactions. Journal of Neuroscience, 2004, 24, 7024-7036.	1.7	82
107	Crystal structure of a phosphorylation-coupled saccharide transporter. Nature, 2011, 473, 50-54.	13.7	77
108	GPCR-OKB: the G Protein Coupled Receptor Oligomer Knowledge Base. Bioinformatics, 2010, 26, 1804-1805.	1.8	74

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109	Dopamine-Mediated Autocrine Inhibitory Circuit Regulating Human Insulin Secretion in Vitro. Molecular Endocrinology, 2012, 26, 1757-1772.	3.7	74
110	CrossTalk opposing view: Weighing the evidence for classÂA GPCR dimers, the jury is still out. Journal of Physiology, 2014, 592, 2443-2445.	1.3	74
111	Discovery and Characterization of a G Proteinâ€"Biased Agonist That Inhibits Î²-Arrestin Recruitment to the D2 Dopamine Receptor. Molecular Pharmacology, 2014, 86, 96-105.	1.0	74
112	Impact of D2 Receptor Internalization on Binding Affinity of Neuroimaging Radiotracers. Neuropsychopharmacology, 2010, 35, 806-817.	2.8	71
113	Electrostatic and Aromatic Microdomains within the Binding-Site Crevice of the D2 Receptor:Â Contributions of the Second Membrane-Spanning Segmentâ€. Biochemistry, 1999, 38, 7961-7968.	1.2	70
114	Recruitment of Î²-arrestin2 to the dopamine D2 receptor: Insights into anti-psychotic and anti-parkinsonian drug receptor signaling. Neuropharmacology, 2008, 54, 1215-1222.	2.0	70
115	Making Structural Sense of Dimerization Interfaces of Delta Opioid Receptor Homodimers. Biochemistry, 2011, 50, 1682-1690.	1.2	70
116	Neuronal Depolarization Drives Increased Dopamine Synaptic Vesicle Loading via VGLUT. Neuron, 2017, 95, 1074-1088.e7.	3.8	69
117	G Protein-coupled Receptor Kinase-2 Constitutively Regulates D2 Dopamine Receptor Expression and Signaling Independently of Receptor Phosphorylation. Journal of Biological Chemistry, 2009, 284, 34103-34115.	1.6	67
118	Regulation of Dopamine Transporter Trafficking by Intracellular Amphetamine. Molecular Pharmacology, 2006, 70, 542-548.	1.0	66
119	The Fourth Transmembrane Segment of the Dopamine D2 Receptor:â€‰ Accessibility in the Binding-Site Crevice and Position in the Transmembrane Bundle. Biochemistry, 2000, 39, 12190-12199.	1.2	65
120	Optical Control of Dopamine Receptors Using a Photoswitchable Tethered Inverse Agonist. Journal of the American Chemical Society, 2017, 139, 18522-18535.	6.6	63
121	Dopamine Receptor Activation Increases HIV Entry into Primary Human Macrophages. PLoS ONE, 2014, 9, e108232.	1.1	63
122	Currents in Response to Rapid Concentration Jumps of Amphetamine Uncover Novel Aspects of Human Dopamine Transporter Function. Journal of Neuroscience, 2008, 28, 976-989.	1.7	61
123	A Juxtamembrane Mutation in the N Terminus of the Dopamine Transporter Induces Preference for an Inward-Facing Conformation. Molecular Pharmacology, 2009, 75, 514-524.	1.0	61
124	Structure and functional interaction of the extracellular domain of human GABAB receptor GBR2. Nature Neuroscience, 2012, 15, 970-978.	7.1	61
125	The First Transmembrane Segment of the Dopamine D2 Receptor:Â Accessibility in the Binding-Site Crevice and Position in the Transmembrane Bundle. Biochemistry, 2001, 40, 12339-12348.	1.2	60
126	Substrate-dependent proton antiport in neurotransmitter:sodium symporters. Nature Chemical Biology, 2010, 6, 109-116.	3.9	59

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127	Imaging the high-affinity state of the dopamine D2 receptor in vivo: Fact or fiction?. Biochemical Pharmacology, 2012, 83, 193-198.	2.0	59
128	Structure of human GABAB receptor in an inactive state. Nature, 2020, 584, 304-309.	13.7	59
129	Discovery of a Novel Selective Kappa-Opioid Receptor Agonist Using Crystal Structure-Based Virtual Screening. Journal of Chemical Information and Modeling, 2013, 53, 521-526.	2.5	58
130	A Single Glycine in Extracellular Loop 1 Is the Critical Determinant for Pharmacological Specificity of Dopamine D2 and D3 Receptors. Molecular Pharmacology, 2013, 84, 854-864.	1.0	58
131	Mechanism of the Association between Na+ Binding and Conformations at the Intracellular Gate in Neurotransmitter:Sodium Symporters. Journal of Biological Chemistry, 2015, 290, 13992-14003.	1.6	58
132	Electronic tuning of self-healing fluorophores for live-cell and single-molecule imaging. Chemical Science, 2017, 8, 755-762.	3.7	58
133	Cannabinoid CB1 and CB2 Receptor-Mediated Arrestin Translocation: Species, Subtype, and Agonist-Dependence. Frontiers in Pharmacology, 2019, 10, 350.	1.6	58
134	The Tetrahydroisoquinoline Derivative SB269,652 Is an Allosteric Antagonist at Dopamine D₃ and D₂ Receptors. Molecular Pharmacology, 2010, 78, 925-934.	1.0	57
135	Mechanisms of inverse agonism of antipsychotic drugs at the D2 dopamine receptor: use of a mutant D2 dopamine receptor that adopts the activated conformation. Journal of Neurochemistry, 2001, 77, 493-504.	2.1	56
136	Presynaptic Regulation of Dopamine Transmission in Schizophrenia. Schizophrenia Bulletin, 2011, 37, 108-117.	2.3	56
137	Transport-dependent Accessibility of a Cytoplasmic Loop Cysteine in the Human Dopamine Transporter. Journal of Biological Chemistry, 2000, 275, 1608-1614.	1.6	55
138	New roles for dopamine D2 and D3 receptors in pancreatic beta cell insulin secretion. Molecular Psychiatry, 2020, 25, 2070-2085.	4.1	55
139	Arrestin recruitment to dopamine D2 receptor mediates locomotion but not incentive motivation. Molecular Psychiatry, 2020, 25, 2086-2100.	4.1	55
140	Use of the substituted cysteine accessibility method to study the structure and function of G protein-coupled receptors. Methods in Enzymology, 2002, 343, 137-156.	0.4	53
141	Regional Heterogeneity of D2-Receptor Signaling in the Dorsal Striatum and Nucleus Accumbens. Neuron, 2018, 98, 575-587.e4.	3.8	52
142	Genetically Targeted Optical Control of an Endogenous G Protein-Coupled Receptor. Journal of the American Chemical Society, 2019, 141, 11522-11530.	6.6	51
143	Cortical overgrowth in a preclinical forebrain organoid model of CNTNAP2-associated autism spectrum disorder. Nature Communications, 2021, 12, 4087.	5.8	51
144	Development and Antiparkinsonian Activity of VU0418506, a Selective Positive Allosteric Modulator of Metabotropic Glutamate Receptor 4 Homomers without Activity at mGlu_{2/4} Heteromers. ACS Chemical Neuroscience, 2016, 7, 1201-1211.	1.7	50

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145	Cholinergic Agonists as Novel Treatments for Schizophrenia: The Promise of Rational Drug Development for Psychiatry. American Journal of Psychiatry, 2008, 165, 931-936.	4.0	49
146	Toward Understanding the Structural Basis of Partial Agonism at the Dopamine D₃ Receptor. Journal of Medicinal Chemistry, 2017, 60, 580-593.	2.9	49
147	InÂvivo variation in same-day estimates of metabotropic glutamate receptor subtype 5 binding using [¹¹C]ABP688 and [¹⁸F]FPEB. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2716-2727.	2.4	49
148	[23] Probing structure of neurotransmitter transporters by substituted-cysteine accessibility method. Methods in Enzymology, 1998, 296, 331-346.	0.4	47
149	Potentiating SLC transporter activity: Emerging drug discovery opportunities. Biochemical Pharmacology, 2017, 135, 1-11.	2.0	47
150	Metabotropic Glutamate Receptor 5 and Glutamate Involvement in Major Depressive Disorder: A Multimodal Imaging Study. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2017, 2, 449-456.	1.1	47
151	High Affinity Dopamine D₃ Receptor (D₃R)-Selective Antagonists Attenuate Heroin Self-Administration in Wild-Type but not D₃R Knockout Mice. Journal of Medicinal Chemistry, 2015, 58, 6195-6213.	2.9	45
152	GPCR-mediated Î²-arrestin activation deconvoluted with single-molecule precision. Cell, 2022, 185, 1661-1675.e16.	13.5	43
153	A pincer-like configuration of TM2 in the human dopamine transporter is responsible for indirect effects on cocaine binding. Neuropharmacology, 2005, 49, 780-790.	2.0	42
154	Requirements and ontology for a G protein-coupled receptor oligomerization knowledge base. BMC Bioinformatics, 2007, 8, 177.	1.2	42
155	Ribosome-associated vesicles: A dynamic subcompartment of the endoplasmic reticulum in secretory cells. Science Advances, 2020, 6, eaay9572.	4.7	42
156	Using Bioluminescence Resonance Energy Transfer (BRET) to Characterize Agonistâ€Induced Arrestin Recruitment to Modified and Unmodified G Proteinâ€Coupled Receptors. Current Protocols in Pharmacology, 2015, 70, 2.14.1-2.14.14.	4.0	41
157	G12/13 is activated by acute tethered agonist exposure in the adhesion GPCR ADGRL3. Nature Chemical Biology, 2020, 16, 1343-1350.	3.9	41
158	How did the neurotransmitter cross the bilayer? A closer view. Current Opinion in Neurobiology, 2005, 15, 296-304.	2.0	40
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