# Stephanie J Cragg

List of Publications by Year
in descending order



| 67 | 7,060 | 101384 | 118652 |
|---|---|---|---|
| papers | citations | 36 h-index | 62 g-index |

| 73 | 73 | 73 | 6984 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Striatal Dopamine Release Is Triggered by Synchronized Activity in Cholinergic Interneurons. Neuron, 2012, 75, 58-64. | 3.8 | 692 |
| 2 | Nicotine amplifies reward-related dopamine signals in striatum. Nature Neuroscience, 2004, 7, 583-584. | 7.1 | 532 |
| 3 | DAncing past the DAT at a DA synapse. Trends in Neurosciences, 2004, 27, 270-277. | 4.2 | 331 |
| 4 | Striatal dopamine neurotransmission: Regulation of release and uptake. Basal Ganglia, 2016, 6, 123-148. | 0.3 | 306 |
| 5 | Dopamine spillover after quantal release: Rethinking dopamine transmission in the nigrostriatal pathway. Brain Research Reviews, 2008, 58, 303-313. | 9.1 | 285 |
| 6 | Deficits in dopaminergic transmission precede neuron loss and dysfunction in a new Parkinson model. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4016-25. | 3.3 | 259 |
| 7 | Dopamine release in the basal ganglia. Neuroscience, 2011, 198, 112-137. | 1.1 | 234 |
| 8 | Î±-Synuclein and dopamine at the crossroads of Parkinson's disease. Trends in Neurosciences, 2010, 33, 559-568. | 4.2 | 233 |
| 9 | Î±6-Containing Nicotinic Acetylcholine Receptors Dominate the Nicotine Control of Dopamine Neurotransmission in Nucleus Accumbens. Neuropsychopharmacology, 2008, 33, 2158-2166. | 2.8 | 222 |
| 10 | Maintaining network activity in submerged hippocampal slices: importance of oxygen supply. European Journal of Neuroscience, 2009, 29, 319-327. | 1.2 | 210 |
| 11 | Presynaptic nicotinic receptors: a dynamic and diverse cholinergic filter of striatal dopamine neurotransmission. British Journal of Pharmacology, 2008, 153, S283-97. | 2.7 | 208 |
| 12 | Meaningful silences: how dopamine listens to the ACh pause. Trends in Neurosciences, 2006, 29, 125-131. | 4.2 | 194 |
| 13 | Impaired intracellular trafficking defines early Parkinson's disease. Trends in Neurosciences, 2015, 38, 178-188. | 4.2 | 175 |
| 14 | Striatal Muscarinic Receptors Promote Activity Dependence of Dopamine Transmission via Distinct Receptor Subtypes on Cholinergic Interneurons in Ventral versus Dorsal Striatum. Journal of Neuroscience, 2010, 30, 3398-3408. | 1.7 | 165 |
| 15 | Differential Autoreceptor Control of Somatodendritic and Axon Terminal Dopamine Release in Substantia Nigra, Ventral Tegmental Area, and Striatum. Journal of Neuroscience, 1997, 17, 5738-5746. | 1.7 | 164 |
| 16 | Functional Alterations to the Nigrostriatal System in Mice Lacking All Three Members of the Synuclein Family. Journal of Neuroscience, 2011, 31, 7264-7274. | 1.7 | 158 |
| 17 | Dopamine Signaling in Dorsal Versus Ventral Striatum: The Dynamic Role of Cholinergic Interneurons. Frontiers in Systems Neuroscience, 2011, 5, 11. | 1.2 | 155 |
| 18 | Distinct contributions of nicotinic acetylcholine receptor subunit Î±4 and subunit Î±6 to the reinforcing effects of nicotine. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7577-7582. | 3.3 | 146 |

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|---|---|---|---|
| 19 | Representation of spontaneous movement by dopaminergic neurons is cell-type selective and disrupted in parkinsonism. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2180-8. | 3.3 | 145 |
| 20 | Increased striatal dopamine release and hyperdopaminergicâ€like behaviour in mice lacking both alphaâ€synuclein and gammaâ€synuclein. European Journal of Neuroscience, 2008, 27, 947-957. | 1.2 | 138 |
| 21 | Dopamine-Mediated Volume Transmission in Midbrain Is Regulated by Distinct Extracellular Geometry and Uptake. Journal of Neurophysiology, 2001, 85, 1761-1771. | 0.9 | 131 |
| 22 | Variable Dopamine Release Probability and Short-Term Plasticity between Functional Domains of the Primate Striatum. Journal of Neuroscience, 2003, 23, 4378-4385. | 1.7 | 126 |
| 23 | Synaptic release of dopamine in the subthalamic nucleus. European Journal of Neuroscience, 2004, 20, 1788-1802. | 1.2 | 122 |
| 24 | Serotonin spillover onto the axon initial segment of motoneurons induces central fatigue by inhibiting action potential initiation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4774-4779. | 3.3 | 122 |
| 25 | Cortical Control of Striatal Dopamine Transmission via Striatal Cholinergic Interneurons. Cerebral Cortex, 2016, 26, 4160-4169. | 1.6 | 122 |
| 26 | The Striosome and Matrix Compartments of the Striatum: A Path through the Labyrinth from Neurochemistry toward Function. ACS Chemical Neuroscience, 2017, 8, 235-242. | 1.7 | 122 |
| 27 | Histamine H3 Receptors Inhibit Serotonin Release in Substantia Nigra Pars Reticulata. Journal of Neuroscience, 2004, 24, 8704-8710. | 1.7 | 107 |
| 28 | Dopamine Release and Uptake Dynamics within Nonhuman Primate StriatumIn Vitro. Journal of Neuroscience, 2000, 20, 8209-8217. | 1.7 | 95 |
| 29 | Striatal Î±5 Nicotinic Receptor Subunit Regulates Dopamine Transmission in Dorsal Striatum. Journal of Neuroscience, 2012, 32, 2352-2356. | 1.7 | 88 |
| 30 | Gating of dopamine transmission by calcium and axonal Nâ€, Qâ€, Tâ€•and Lâ€type voltageâ€gated calcium channels differs between striatal domains. Journal of Physiology, 2015, 593, 929-946. | 1.3 | 83 |
| 31 | Transcription factors FOXA1 and FOXA2 maintain dopaminergic neuronal properties and control feeding behavior in adult mice. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4929-38. | 3.3 | 66 |
| 32 | LRRK2BAC transgenic rats develop progressive, L-DOPA-responsive motor impairment, and deficits in dopamine circuit function. Human Molecular Genetics, 2016, 25, 951-963. | 1.4 | 58 |
| 33 | Inhibition of Nigrostriatal Dopamine Release by Striatal GABA<sub>A</sub>and GABA<sub>B</sub>Receptors. Journal of Neuroscience, 2019, 39, 1058-1065. | 1.7 | 56 |
| 34 | Plasticity in striatal dopamine release is governed by release-independent depression and the dopamine transporter. Nature Communications, 2019, 10, 4263. | 5.8 | 55 |
| 35 | Functional Domains in Dorsal Striatum of the Nonhuman Primate Are Defined by the Dynamic Behavior of Dopamine. Journal of Neuroscience, 2002, 22, 5705-5712. | 1.7 | 54 |
| 36 | Substance P Weights Striatal Dopamine Transmission Differently within the Striosome-Matrix Axis. Journal of Neuroscience, 2015, 35, 9017-9023. | 1.7 | 51 |

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|---|---|---|---|
| 37 | Region-specific deficits in dopamine, but not norepinephrine, signaling in a novel A30P Î±-synuclein BAC transgenic mouse. Neurobiology of Disease, 2014, 62, 193-207. | 2.1 | 46 |
| 38 | Dopamine neuron-derived IGF-1 controls dopamine neuron firing, skill learning, and exploration. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3817-3826. | 3.3 | 45 |
| 39 | Pauses in Cholinergic Interneuron Activity Are Driven by Excitatory Input and Delayed Rectification, with Dopamine Modulation. Neuron, 2018, 98, 918-925.e3. | 3.8 | 44 |
| 40 | Pauses in Striatal Cholinergic Interneurons: What is Revealed by Their Common Themes and Variations?. Frontiers in Systems Neuroscience, 2017, 11, 80. | 1.2 | 42 |
| 41 | Diabetes Causes Dysfunctional Dopamine Neurotransmission Favoring Nigrostriatal Degeneration in Mice. Movement Disorders, 2020, 35, 1636-1648. | 2.2 | 42 |
| 42 | Targeted Activation of Cholinergic Interneurons Accounts for the Modulation of Dopamine by Striatal Nicotinic Receptors. ENeuro, 2018, 5, ENEURO.0397-17.2018. | 0.9 | 41 |
| 43 | CLR01 protects dopaminergic neurons in vitro and in mouse models of Parkinsonâ€™s disease. Nature Communications, 2020, 11, 4885. | 5.8 | 39 |
| 44 | Nonâ€linear relationship between 5â€HT transporter gene expression and frequency sensitivity of 5â€HT signals. Journal of Neurochemistry, 2010, 115, 965-973. | 2.1 | 34 |
| 45 | Striatal dopamine transmission is reduced after chronic nicotine with a decrease in Î±6â€nicotinic receptor control in nucleus accumbens. European Journal of Neuroscience, 2013, 38, 3036-3043. | 1.2 | 34 |
| 46 | Nitric Oxide Donors Enhance the Frequency Dependence of Dopamine Release in Nucleus Accumbens. Neuropsychopharmacology, 2011, 36, 1811-1822. | 2.8 | 33 |
| 47 | GABA uptake transporters support dopamine release in dorsal striatum with maladaptive downregulation in a parkinsonism model. Nature Communications, 2020, 11, 4958. | 5.8 | 31 |
| 48 | Impairment of Macroautophagy in Dopamine Neurons Has Opposing Effects on Parkinsonian Pathology and Behavior. Cell Reports, 2019, 29, 920-931.e7. | 2.9 | 29 |
| 49 | Striatal Dopamine Transmission Is Subtly Modified in Human A53TÎ±-Synuclein Overexpressing Mice. PLoS ONE, 2012, 7, e36397. | 1.1 | 25 |
| 50 | Calbindin-D28K Limits Dopamine Release in Ventral but Not Dorsal Striatum by Regulating Ca<sup>2+</sup> Availability and Dopamine Transporter Function. ACS Chemical Neuroscience, 2019, 10, 3419-3426. | 1.7 | 19 |
| 51 | Striatal Dopamine Transporter Function Is Facilitated by Converging Biology of Î±-Synuclein and Cholesterol. Frontiers in Cellular Neuroscience, 2021, 15, 658244. | 1.8 | 18 |
| 52 | Constitutive histamine H<sub>2</sub> receptor activity regulates serotonin release in the substantia nigra. Journal of Neurochemistry, 2008, 107, 745-755. | 2.1 | 17 |
| 53 | Axonal Modulation of Striatal Dopamine Release by Local Î³-Aminobutyric Acid (GABA) Signalling. Cells, 2021, 10, 709. | 1.8 | 17 |
| 54 | Regulation of Î²-adrenergic control of heart rate by GTP-cyclohydrolase 1 (GCH1) and tetrahydrobiopterin. Cardiovascular Research, 2012, 93, 694-701. | 1.8 | 16 |

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|---|---|---|---|
| 55 | The impact of a parkinsonian lesion on dynamic striatal dopamine transmission depends on nicotinic receptor activation. Neurobiology of Disease, 2015, 82, 262-268. | 2.1 | 16 |
| 56 | Dopamine is released spontaneously from developing midbrain neurons in organotypic culture. Neuroscience, 1998, 84, 325-330. | 1.1 | 13 |
| 57 | 5-HT1B receptor regulation of serotonin (5-HT) release by endogenous 5-HT in the substantia nigra. Neuroscience, 2010, 165, 212-220. | 1.1 | 12 |
| 58 | Dopamine Release in Nucleus Accumbens Is under Tonic Inhibition by Adenosine A<sub>1</sub>Receptors Regulated by Astrocytic ENT1 and Dysregulated by Ethanol. Journal of Neuroscience, 2022, 42, 1738-1751. | 1.7 | 9 |
| 59 | A Choreography of Nicotinic Receptors Directs the Dopamine Neuron Routine. Neuron, 2006, 50, 815-816. | 3.8 | 8 |
| 60 | Ni<sup>2+</sup> Affects Dopamine Uptake Which Limits Suitability as Inhibitor of T-Type Voltage-Gated Ca<sup>2+</sup> Channels. ACS Chemical Neuroscience, 2015, 6, 124-129. | 1.7 | 6 |
| 61 | Revisiting dopamine-acetylcholine imbalance in Parkinsonâ€™s disease: Glutamate co-transmission as an exciting partner in crime. Neuron, 2021, 109, 1070-1071. | 3.8 | 5 |
| 62 | Singing to the Tune of Dopamine. Focus on â€œProperties of Dopamine Release and Uptake in the Songbird Basal Gangliaâ€• Journal of Neurophysiology, 2005, 93, 1827-1828. | 0.9 | 3 |
| 63 | Striatal Acetylcholine Control of Reward-Related Dopamine Signalling. , 2005, , 99-108. | | 2 |
| 64 | Somatodendritic Dopamine Release in Midbrain. , 2005, , 69-83. | | 1 |
| 65 | COUPLING VOLTAMMETRY WITH OPTOGENETICS TO REVEAL AXONAL CONTROL OF DOPAMINE TRANSMISSION BY STRIATAL ACETYLCHOLINE. , 2015, , 201-223. | | 0 |
| 66 | Heterogeneity of Dopamine Release in the Primate Striatum. Advances in Behavioral Biology, 2002, , 87-96. | 0.2 | 0 |
| 67 | Regulation of Dopamine Release by Striatal Acetylcholine and Nicotine Is via Distinct Nicotinic Acetylcholine Receptors in Dorsal vs. Ventral Striatum. Advances in Behavioral Biology, 2009, , 323-335. | 0.2 | 0 |