

# J Douglas Steele

## List of Publications by Year in descending order

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112  
papers

6,013  
citations

93792

39  
h-index

87275

74  
g-index

124  
all docs

124  
docs citations

124  
times ranked

8739  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of depression symptoms in individual subjects with face and eye movement tracking. <i>Psychological Medicine</i> , 2022, 52, 1784-1792.	2.7	12
2	Epigenome-wide association study of global cortical volumes in generation Scotland: Scottish family health study. <i>Epigenetics</i> , 2022, 17, 1143-1158.	1.3	3
3	Protracted abstinence in males with an opioid use disorder: partial recovery of nucleus accumbens function. <i>Translational Psychiatry</i> , 2022, 12, 81.	2.4	6
4	Blunted neuroeconomic loss aversion in schizophrenia. <i>Brain Research</i> , 2022, 1789, 147957.	1.1	1
5	Automated brain tumor identification using magnetic resonance imaging: A systematic review and meta-analysis. <i>Neuro-Oncology Advances</i> , 2022, 4, .	0.4	9
6	Chronic heroin use disorder and the brain: Current evidence and future implications. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2021, 111, 110148.	2.5	12
7	Alcohol Binge Drinking: Negative and Positive Valence System Abnormalities. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 126-134.	1.1	9
8	Structural brain correlates of serum and epigenetic markers of inflammation in major depressive disorder. <i>Brain, Behavior, and Immunity</i> , 2021, 92, 39-48.	2.0	53
9	Abnormal reward valuation and event-related connectivity in unmedicated major depressive disorder. <i>Psychological Medicine</i> , 2021, 51, 795-803.	2.7	12
10	Tonic dopamine, uncertainty and basal ganglia action selection. <i>Neuroscience</i> , 2021, 466, 109-124.	1.1	5
11	Early life predictors of late life cerebral small vessel disease in four prospective cohort studies. <i>Brain</i> , 2021, 144, 3769-3778.	3.7	21
12	Compulsivity and impulsivity in opioid dependence. <i>Drug and Alcohol Dependence</i> , 2021, 229, 109018.	1.6	4
13	Mathematical Modelling of Glioblastomas Invasion within the Brain: A 3D Multi-Scale Moving-Boundary Approach. <i>Mathematics</i> , 2021, 9, 2214.	1.1	6
14	Spectral clustering based on structural magnetic resonance imaging and its relationship with major depressive disorder and cognitive ability. <i>European Journal of Neuroscience</i> , 2021, 54, 6281-6303.	1.2	5
15	Identification of plasma proteins relating to brain neurodegeneration and vascular pathology in cognitively normal individuals. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2021, 13, e12240.	1.2	4
16	Hair glucocorticoids are associated with childhood adversity, depressive symptoms and reduced global and lobar grey matter in Generation Scotland. <i>Translational Psychiatry</i> , 2021, 11, 523.	2.4	13
17	Neurocognitive consequences of chronic cannabis use: a systematic review and meta-analysis. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 108, 358-369.	2.9	67
18	Neurosurgical treatment for addiction: lessons from an untold story in China and a path forward. <i>National Science Review</i> , 2020, 7, 702-712.	4.6	16

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19	Opposing patterns of abnormal D1 and D2 receptor dependent cortico-striatal plasticity explain increased risk taking in patients with DYT1 dystonia. PLoS ONE, 2020, 15, e0226790.	1.1	5
20	Blunted medial prefrontal cortico-limbic reward-related effective connectivity and depression. Brain, 2020, 143, 1946-1956.	3.7	54
21	Automated classification of depression from structural brain measures across two independent community-based cohorts. Human Brain Mapping, 2020, 41, 3922-3937.	1.9	27
22	Cognitive consequences of opioid use. , 2020, , 179-198.		0
23	Severity of negative mood and anxiety symptoms occurring during acute abstinence from tobacco: A systematic review and meta-analysis. Neuroscience and Biobehavioral Reviews, 2020, 115, 48-63.	2.9	16
24	Title is missing!. , 2020, 15, e0226790.		0
25	Title is missing!. , 2020, 15, e0226790.		0
26	Title is missing!. , 2020, 15, e0226790.		0
27	Title is missing!. , 2020, 15, e0226790.		0
28	Title is missing!. , 2020, 15, e0226790.		0
29	Title is missing!. , 2020, 15, e0226790.		0
30	Neural correlates of weighted reward prediction error during reinforcement learning classify response to cognitive behavioral therapy in depression. Science Advances, 2019, 5, eaav4962.	4.7	25
31	Impaired reward-related learning signals in remitted unmedicated patients with recurrent depression. Brain, 2019, 142, 2510-2522.	3.7	38
32	Comment on Maggi et al., "Cognitive correlates of prospective memory in dystonia". Parkinsonism and Related Disorders, 2019, 68, 91.	1.1	1
33	Pragmatic neuroscience for clinical psychiatry. British Journal of Psychiatry, 2019, 215, 404-408.	1.7	12
34	Maladaptive striatal plasticity and abnormal reward-learning in cervical dystonia. European Journal of Neuroscience, 2019, 50, 3191-3204.	1.2	15
35	Effects of Opioid Dependence on Visuospatial Memory and Its Associations With Depression and Anxiety. Frontiers in Psychiatry, 2019, 10, 743.	1.3	14
36	A Roadmap for Integrating Neuroscience Into Addiction Treatment: A Consensus of the Neuroscience Interest Group of the International Society of Addiction Medicine. Frontiers in Psychiatry, 2019, 10, 877.	1.3	64

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37	The Neurobiology of Personal Control During Reward Learning and Its Relationship to Mood. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 190-199.	1.1	17
38	Chronic tobacco smoking and neuropsychological impairments: A systematic review and meta-analysis. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 96, 143-154.	2.9	53
39	Cohort profile for the STRatifying Resilience and Depression Longitudinally (STRADL) study: A depression-focused investigation of Generation Scotland, using detailed clinical, cognitive, and neuroimaging assessments. <i>Wellcome Open Research</i> , 2019, 4, 185.	0.9	27
40	George Szekeres 1911â€“2005. <i>Historical Records of Australian Science</i> , 2019, 30, 49.	0.3	0
41	Compulsivity in opioid dependence. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2018, 81, 333-339.	2.5	22
42	Major Depression Impairs the Use of Reward Values for Decision-Making. <i>Scientific Reports</i> , 2018, 8, 13798.	1.6	26
43	Assessing ADHD symptoms in children and adults: evaluating the role of objective measures. <i>Behavioral and Brain Functions</i> , 2018, 14, 11.	1.4	44
44	Increased neural response to social rejection in major depression. <i>Depression and Anxiety</i> , 2017, 34, 1049-1056.	2.0	62
45	Schizophrenia illness severity is associated with reduced loss aversion. <i>Brain Research</i> , 2017, 1664, 9-16.	1.1	12
46	Conditioned task-set competition: Neural mechanisms of emotional interference in depression. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2017, 17, 269-289.	1.0	13
47	Comprehensive review: Computational modelling of schizophrenia. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 83, 631-646.	2.9	62
48	Modeling Trait Anxiety: From Computational Processes to Personality. <i>Frontiers in Psychiatry</i> , 2017, 8, 1.	1.3	133
49	Multifaceted impairments in impulsivity and brain structural abnormalities in opioid dependence and abstinence. <i>Psychological Medicine</i> , 2016, 46, 2841-2853.	2.7	43
50	Neural correlates of social exchanges during the Prisoner's Dilemma game in depression. <i>Psychological Medicine</i> , 2016, 46, 1289-1300.	2.7	32
51	A causal role for the anterior mid-cingulate cortex in negative affect and cognitive control. <i>Brain</i> , 2016, 139, 1844-1854.	3.7	83
52	Structural MRI-Based Predictions in Patients with Treatment-Refractory Depression (TRD). <i>PLoS ONE</i> , 2015, 10, e0132958.	1.1	54
53	Abnormal brain responses to social fairness in depression: an fMRI study using the Ultimatum Game. <i>Psychological Medicine</i> , 2015, 45, 1241-1251.	2.7	52
54	Failure of hippocampal deactivation during loss events in treatment-resistant depression. <i>Brain</i> , 2015, 138, 2766-2776.	3.7	44

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55	Predicting methylphenidate response in attention deficit hyperactivity disorder: A preliminary study. <i>Journal of Psychopharmacology</i> , 2015, 29, 24-30.	2.0	37
56	Nonlinear Complexity Analysis of Brain fMRI Signals in Schizophrenia. <i>PLoS ONE</i> , 2014, 9, e95146.	1.1	114
57	Abnormal Brain Activity During a Reward and Loss Task in Opiate-Dependent Patients Receiving Methadone Maintenance Therapy. <i>Neuropsychopharmacology</i> , 2014, 39, 885-894.	2.8	54
58	Brainstem abnormalities in attention deficit hyperactivity disorder support high accuracy individual diagnostic classification. <i>Human Brain Mapping</i> , 2014, 35, 5179-5189.	1.9	83
59	Predictive classification of individual magnetic resonance imaging scans from children and adolescents. <i>European Child and Adolescent Psychiatry</i> , 2013, 22, 733-744.	2.8	24
60	Vagus nerve stimulation for chronic major depressive disorder: 12-month outcomes in highly treatment-refractory patients. <i>Journal of Affective Disorders</i> , 2013, 150, 1221-1225.	2.0	42
61	Salience network-midbrain dysconnectivity and blunted reward signals in schizophrenia. <i>Psychiatry Research - Neuroimaging</i> , 2013, 211, 104-111.	0.9	77
62	Imaging Conditioned Fear Circuitry Using Awake Rodent fMRI. <i>PLoS ONE</i> , 2013, 8, e54197.	1.1	41
63	Electroconvulsive therapy reduces frontal cortical connectivity in severe depressive disorder. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5464-5468.	3.3	199
64	Multi-centre diagnostic classification of individual structural neuroimaging scans from patients with major depressive disorder. <i>Brain</i> , 2012, 135, 1508-1521.	3.7	158
65	Abnormal Neural Responses to Social Exclusion in Schizophrenia. <i>PLoS ONE</i> , 2012, 7, e42608.	1.1	28
66	Prediction of illness severity in patients with major depression using structural MR brain scans. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 64-71.	1.9	89
67	Expected value and prediction error abnormalities in depression and schizophrenia. <i>Brain</i> , 2011, 134, 1751-1764.	3.7	400
68	The insular cortex and the neuroanatomy of major depression. <i>Journal of Affective Disorders</i> , 2011, 133, 120-127.	2.0	145
69	Long term outcome of thermal anterior capsulotomy for chronic, treatment refractory depression. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2011, 82, 594-600.	0.9	70
70	Between- and within-scanner variability in the CaliBrain study n-back cognitive task. <i>Psychiatry Research - Neuroimaging</i> , 2010, 184, 86-95.	0.9	27
71	Functional Magnetic Resonance Imaging (fMRI) reproducibility and variance components across visits and scanning sites with a finger tapping task. <i>NeuroImage</i> , 2010, 49, 552-560.	2.1	112
72	Functional neuroanatomy. , 2010, , 17-43.		0

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73	Frontal operculum temporal difference signals and social motor response learning. Human Brain Mapping, 2009, 30, 1421-1430.	1.9	6
74	Prospective multi-centre Voxel Based Morphometry study employing scanner specific segmentations: Procedure development using CaliBrain structural MRI data. BMC Medical Imaging, 2009, 9, 8.	1.4	37
75	Associative learning and the genetics of schizophrenia. Trends in Neurosciences, 2009, 32, 359-365.	4.2	35
76	Connecting the Brain and New Drug Targets for Schizophrenia. Current Pharmaceutical Design, 2009, 15, 2615-2631.	0.9	12
77	Abnormal Temporal-Difference signals in a Pavlovian Conditioning task in Depressive Illness and effects of Antidepressant Medication. Annals of General Psychiatry, 2008, 7, .	1.2	0
78	Anterior Cingulotomy for Major Depression: Clinical Outcome and Relationship to Lesion Characteristics. Biological Psychiatry, 2008, 63, 670-677.	0.7	113
79	Abnormal temporal difference reward-learning signals in major depression. Brain, 2008, 131, 2084-2093.	3.7	335
80	Capsulotomy for Obsessive-Compulsive Disorder. Archives of General Psychiatry, 2008, 65, 914.	13.8	189
81	Blunted response to feedback information in depressive illness. Brain, 2007, 130, 2367-2374.	3.7	223
82	Prefrontal cortical functional abnormality in major depressive disorder: A stereotactic meta-analysis. Journal of Affective Disorders, 2007, 101, 1-11.	2.0	83
83	Recent developments and current controversies in depression. Lancet, The, 2006, 367, 153-167.	6.3	344
84	Cognitive impairment and fMRI in major depression. Neurotoxicity Research, 2006, 10, 87-92.	1.3	35
85	Functional Specialization within Rostral Prefrontal Cortex (Area 10): A Meta-analysis. Journal of Cognitive Neuroscience, 2006, 18, 932-948.	1.1	618
86	Possible structural abnormality of the brainstem in unipolar depressive illness: a transcranial ultrasound and diffusion tensor magnetic resonance imaging study. Journal of Neurology, Neurosurgery and Psychiatry, 2005, 76, 1510-1515.	0.9	31
87	Depressive Illness and Emotional Learning. Current Medical Imaging, 2005, 1, 157-176.	0.4	2
88	Segregation of cognitive and emotional function in the prefrontal cortex: a stereotactic meta-analysis. Neurolmage, 2004, 21, 868-875.	2.1	167
89	Neural predictive error signal correlates with depressive illness severity in a game paradigm. Neurolmage, 2004, 23, 269-280.	2.1	41
90	Statistical Parametric Mapping of 99mTc-HMPAO-SPECT Images for the Diagnosis of Alzheimer's Disease: Normalizing to Cerebellar Tracer Uptake. Neurolmage, 2002, 17, 1193-1202.	2.1	106

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91	Impacts of swine manure pits on groundwater quality. <i>Environmental Pollution</i> , 2002, 120, 475-492.	3.7	111
92	Left dorso-lateral repetitive transcranial magnetic stimulation affects cortical excitability and functional connectivity, but does not impair cognition in major depression. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2002, 26, 945-954.	2.5	88
93	Measurements of the high energy neutron component of cosmic radiation fields in aircraft using etched track dosimeters. <i>Radiation Measurements</i> , 2001, 33, 243-253.	0.7	13
94	Increased cortical inhibition in depression: a prolonged silent period with transcranial magnetic stimulation (TMS). <i>Psychological Medicine</i> , 2000, 30, 565-570.	2.7	46
95	Cognitive brain potentials and regional cerebral blood flow equivalents during two- and three-sound auditory "oddball tasks". <i>Electroencephalography and Clinical Neurophysiology</i> , 1995, 95, 434-443.	0.3	72
96	Hand skin temperature changes in patients with chronic liver disease. <i>Journal of Hepatology</i> , 1994, 21, 927-933.	1.8	7
97	Sorption of Cadmium and Lead by Clays from Municipal Incinerator Ash "Water Suspensions. <i>Journal of Environmental Quality</i> , 1993, 22, 537-543.	1.0	15
98	Conformal vector fields in general relativity. <i>Journal of Mathematical Physics</i> , 1991, 32, 1847-1853.	0.5	55
99	Geochemical Transformations and Modeling of Two Deep-Well Injected Hazardous Wastes. <i>Ground Water</i> , 1991, 29, 671-677.	0.7	6
100	All vacuum Bianchi I metrics with a homothety. <i>Classical and Quantum Gravity</i> , 1991, 8, 1173-1184.	1.5	6
101	Homothety groups in space-time. <i>General Relativity and Gravitation</i> , 1990, 22, 457-468.	0.7	24
102	On homogeneous pure radiation fields. <i>Classical and Quantum Gravity</i> , 1990, 7, L81-L82.	1.5	5
103	A method for testing volumetric pumps. <i>Journal of Medical Engineering and Technology</i> , 1987, 11, 177-181.	0.8	3
104	A single-stage process for quantifying electron energy-loss spectra. <i>Ultramicroscopy</i> , 1985, 17, 273-276.	0.8	28
105	Attenuation of pollutants in municipal landfill leachate by passage through clay. <i>Environmental Science &amp; Technology</i> , 1976, 10, 1262-1268.	4.6	58
106	Influence on Survival of Excisional Biopsy Preceding Lobectomy or Pneumonectomy for Primary Bronchogenic Carcinomas Presenting as Solitary Nodules. <i>Annals of Thoracic Surgery</i> , 1969, 7, 486-490.	0.7	0
107	The Surgical Treatment of Pulmonary Tuberculosis. <i>Annals of Thoracic Surgery</i> , 1968, 6, 484-502.	0.7	10
108	Survival in Males with Bronchogenic Carcinomas Resected as Asymptomatic Solitary Pulmonary Nodules. <i>Annals of Thoracic Surgery</i> , 1966, 2, 368-376.	0.7	56

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109	THE INDICATIONS FOR SURGERY IN PULMONARY TUBERCULOSIS. <i>Annals of Internal Medicine</i> , 1959, 50, 51.	2.0	1
110	Cohort profile for the STRatifying Resilience and Depression Longitudinally (STRADL) study: A depression-focused investigation of Generation Scotland, using detailed clinical, cognitive, and neuroimaging assessments. <i>Wellcome Open Research</i> , 0, 4, 185.	0.9	12
111	Neural correlates of fears of abandonment and rejection in borderline personality disorder. <i>Wellcome Open Research</i> , 0, 1, 33.	0.9	5
112	Biological Treatments of Mood Disorders. , 0, , 143-166.		0