

# Susannah J Tye

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78  
papers

1,567  
citations

23  
h-index

36  
g-index

83  
ext. papers

1,871  
ext. citations

4.6  
avg, IF

4.69  
L-index

#	Paper	IF	Citations
78	Lithium augmentation of ketamine increases insulin signaling and antidepressant-like active stress coping in a rodent model of treatment-resistant depression. <i>Translational Psychiatry</i> , <b>2021</b> , 11, 598	8.6	1
77	Dynamic insulin-stimulated mTOR/GSK3 signaling in peripheral immune cells: Preliminary evidence for an association with lithium response in bipolar disorder. <i>Bipolar Disorders</i> , <b>2021</b> ,	3.8	1
76	Novel Antidepressant Approaches for Refractory Depression. <i>Current Treatment Options in Psychiatry</i> , <b>2021</b> , 8, 141-157	3.1	0
75	Mood Regulatory Actions of Active and Sham Nucleus Accumbens Deep Brain Stimulation in Antidepressant Resistant Rats. <i>Frontiers in Human Neuroscience</i> , <b>2021</b> , 15, 644921	3.3	0
74	Brain entropy and neurotrophic molecular markers accompanying clinical improvement after ketamine: Preliminary evidence in adolescents with treatment-resistant depression. <i>Journal of Psychopharmacology</i> , <b>2021</b> , 35, 168-177	4.6	4
73	Role of epigenetic regulatory enzymes in animal models of mania induced by amphetamine and paradoxical sleep deprivation. <i>European Journal of Neuroscience</i> , <b>2021</b> , 53, 649-662	3.5	3
72	Inflammatory Mechanisms in Parkinson's Disease: From Pathogenesis to Targeted Therapies. <i>Neuroscientist</i> , <b>2021</b> , 1073858421992265	7.6	4
71	Interleukin-8 and lower severity of depression in females, but not males, with treatment-resistant depression. <i>Journal of Psychiatric Research</i> , <b>2021</b> , 140, 350-356	5.2	0
70	A randomized, double-blind, active placebo-controlled study of efficacy, safety, and durability of repeated vs single subanesthetic ketamine for treatment-resistant depression. <i>Translational Psychiatry</i> , <b>2020</b> , 10, 206	8.6	16
69	TinyFSCV: FSCV for the Masses. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2020</b> , 28, 133-142	4.8	4
68	Neurocognitive performance of repeated versus single intravenous subanesthetic ketamine in treatment resistant depression. <i>Journal of Affective Disorders</i> , <b>2020</b> , 277, 470-477	6.6	12
67	HDAC inhibitors reverse mania-like behavior and modulate epigenetic regulatory enzymes in an animal model of mania induced by Ouabain. <i>Pharmacology Biochemistry and Behavior</i> , <b>2020</b> , 193, 1729173-9	3.9	5
66	Insulin-stimulated mTOR activation in peripheral blood mononuclear cells associated with early treatment response to lithium augmentation in rodent model of antidepressant-resistance. <i>Translational Psychiatry</i> , <b>2019</b> , 9, 113	8.6	8
65	Development of a miniature device for emerging deep brain stimulation paradigms. <i>PLoS ONE</i> , <b>2019</b> , 14, e0212554	3.7	6
64	The role of neurotrophic factors in manic-, anxious- and depressive-like behaviors induced by amphetamine sensitization: Implications to the animal model of bipolar disorder. <i>Journal of Affective Disorders</i> , <b>2019</b> , 245, 1106-1113	6.6	13
63	Bioenergetics and synaptic plasticity as potential targets for individualizing treatment for depression. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2018</b> , 90, 212-220	9	23
62	Towards miniaturized closed-loop optogenetic stimulation devices. <i>Journal of Neural Engineering</i> , <b>2018</b> , 15, 021002	5	11

61	Adolescent mental health education InSciEd Out: a case study of an alternative middle school population. <i>Journal of Translational Medicine</i> , <b>2018</b> , 16, 84	8.5	13
60	Favorable Impact on Stress-Related Behaviors by Modulating Plasma Butyrylcholinesterase. <i>Cellular and Molecular Neurobiology</i> , <b>2018</b> , 38, 7-12	4.6	6
59	Intravenous Ketamine for Adolescents with Treatment-Resistant Depression: An Open-Label Study. <i>Journal of Child and Adolescent Psychopharmacology</i> , <b>2018</b> , 28, 437-444	2.9	32
58	An investigation into closed-loop treatment of neurological disorders based on sensing mitochondrial dysfunction. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2018</b> , 15, 8	5.3	8
57	The role of hypernitrosylation in the pathogenesis and pathophysiology of neuroprogressive diseases. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2018</b> , 84, 453-469	9	21
56	A review of brain insulin signaling in mood disorders: From biomarker to clinical target. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2018</b> , 92, 7-15	9	14
55	Mapping depression rating scale phenotypes onto research domain criteria (RDoC) to inform biological research in mood disorders. <i>Journal of Affective Disorders</i> , <b>2018</b> , 238, 1-7	6.6	17
54	A model of the mitochondrial basis of bipolar disorder. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2017</b> , 74, 1-20	9	83
53	How Well Do We Understand the Long-Term Health Implications of Childhood Bullying?. <i>Harvard Review of Psychiatry</i> , <b>2017</b> , 25, 89-95	4.1	22
52	Fostering Resilience among Mothers under Stress: "AuthenticConnections Groups" for Medical Professionals. <i>Women's Health Issues</i> , <b>2017</b> , 27, 382-390	2.6	43
51	Hierarchical estimation of neural activity through explicit identification of temporally synchronous spikes. <i>Neurocomputing</i> , <b>2017</b> , 249, 299-313	5.4	7
50	Validation of a Portable Low-Power Deep Brain Stimulation Device Through Anxiolytic Effects in a Laboratory Rat Model. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2017</b> , 25, 1365-1374	4.8	6
49	Supervised, Vigorous Intensity Exercise Intervention for Depressed Female Smokers: A Pilot Study. <i>Nicotine and Tobacco Research</i> , <b>2017</b> , 19, 77-86	4.9	27
48	Electrical resistance increases at the tissue-electrode interface as an early response to nucleus accumbens deep brain stimulation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 1814-1817	0.9	3
47	Continuation phase intravenous ketamine in adults with treatment-resistant depression. <i>Journal of Affective Disorders</i> , <b>2016</b> , 206, 300-304	6.6	52
46	Fabrication of biocompatible enclosures for an electronic implant using 3D printing. <i>International Journal of Rapid Manufacturing</i> , <b>2016</b> , 6, 17	0.9	2
45	Portable closed-loop optogenetic stimulation device. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 5250-5253	0.9	2
44	Nucleus accumbens deep-brain stimulation efficacy in ACTH-pretreated rats: alterations in mitochondrial function relate to antidepressant-like effects. <i>Translational Psychiatry</i> , <b>2016</b> , 6, e842	8.6	22

43	KETAMINE FOR TREATMENT-RESISTANT UNIPOLAR AND BIPOLAR MAJOR DEPRESSION: CRITICAL REVIEW AND IMPLICATIONS FOR CLINICAL PRACTICE. <i>Depression and Anxiety</i> , <b>2016</b> , 33, 698-710	8.4	69
42	A miniature neural recording device <b>2016</b> ,		1
41	Antidepressant actions of lateral habenula deep brain stimulation differentially correlate with CaMKII/GSK3/AMPK signaling locally and in the infralimbic cortex. <i>Behavioural Brain Research</i> , <b>2016</b> , 306, 170-7	3.4	18
40	Towards in-vivo ATP sensing <b>2016</b> ,		1
39	A miniature closed-loop deep brain stimulation device. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 1786-1789	0.9	9
38	Stimulation-Induced Transient Nonmotor Psychiatric Symptoms following Subthalamic Deep Brain Stimulation in Patients with Parkinson's Disease: Association with Clinical Outcomes and Neuroanatomical Correlates. <i>Stereotactic and Functional Neurosurgery</i> , <b>2016</b> , 94, 93-101	1.6	8
37	Hyperthermia for Major Depressive Disorder?. <i>JAMA Psychiatry</i> , <b>2016</b> , 73, 1095-1096	14.5	
36	Peripheral proinflammatory markers associated with ketamine response in a preclinical model of antidepressant-resistance. <i>Behavioural Brain Research</i> , <b>2015</b> , 293, 198-202	3.4	40
35	A Miniature Energy Harvesting Rectenna for Operating a Head-Mountable Deep Brain Stimulation Device. <i>IEEE Access</i> , <b>2015</b> , 3, 223-234	3.5	30
34	Evolution of optogenetic microdevices. <i>Neurophotonics</i> , <b>2015</b> , 2, 031206	3.9	22
33	Preclinical perspectives on posttraumatic stress disorder criteria in DSM-5. <i>Harvard Review of Psychiatry</i> , <b>2015</b> , 23, 51-8	4.1	4
32	Radio frequency energy harvesting from a feeding source in a passive deep brain stimulation device for murine preclinical research. <i>Medical Engineering and Physics</i> , <b>2015</b> , 37, 1020-6	2.4	1
31	Towards a classification of biomarkers of neuropsychiatric disease: from encompass to compass. <i>Molecular Psychiatry</i> , <b>2015</b> , 20, 152-3	15.1	88
30	3D Printed Biocompatible Enclosures for an Implantable DBS Microdevice. <i>Procedia Technology</i> , <b>2015</b> , 20, 155-161		3
29	Concomitant benzodiazepine use attenuates ketamine response: implications for large scale study design and clinical development. <i>Journal of Clinical Psychopharmacology</i> , <b>2015</b> , 35, 334-6	1.7	40
28	Feasibility of investigating differential proteomic expression in depression: implications for biomarker development in mood disorders. <i>Translational Psychiatry</i> , <b>2015</b> , 5, e689	8.6	47
27	Wireless Optogenetics: An Exploration of Portable Microdevices for Small Animal Photostimulation. <i>Procedia Technology</i> , <b>2015</b> , 20, 225-230		4
26	RF rectifiers for EM power harvesting in a Deep Brain Stimulating device. <i>Australasian Physical and Engineering Sciences in Medicine</i> , <b>2015</b> , 38, 157-72	1.9	9

25	Stress, Inflammation, and Cellular Vulnerability during Early Stages of Affective Disorders: Biomarker Strategies and Opportunities for Prevention and Intervention. <i>Frontiers in Psychiatry</i> , <b>2014</b> , 5, 34	5	37
24	Closed loop deep brain stimulation: an evolving technology. <i>Australasian Physical and Engineering Sciences in Medicine</i> , <b>2014</b> , 37, 619-34	1.9	39
23	Development of a Compact Rectenna for Wireless Powering of a Head-Mountable Deep Brain Stimulation Device. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , <b>2014</b> , 2, 1500113	3	22
22	Current landscape, unmet needs, and future directions for treatment of bipolar depression. <i>Journal of Affective Disorders</i> , <b>2014</b> , 169 Suppl 1, S17-23	6.6	28
21	Determination of neurotransmitters and their metabolites using one- and two-dimensional liquid chromatography with acidic potassium permanganate chemiluminescence detection. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 5669-76	4.4	17
20	Ventral tegmental ionotropic glutamate receptor stimulation of nucleus accumbens tonic dopamine efflux blunts hindbrain-evoked phasic neurotransmission: implications for dopamine dysregulation disorders. <i>Neuroscience</i> , <b>2013</b> , 252, 337-45	3.9	14
19	Chronic adrenocorticotrophic hormone treatment alters tricyclic antidepressant efficacy and prefrontal monoamine tissue levels. <i>Behavioural Brain Research</i> , <b>2013</b> , 242, 76-83	3.4	27
18	A Low Power Micro Deep Brain Stimulation Device for Murine Preclinical Research. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , <b>2013</b> , 2, 1500109	3	17
17	Design and analysis of an antenna for wireless energy harvesting in a head-mountable DBS device. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 3078-81	0.9	7
16	Design of a miniature UHF PIFA for DBS implants <b>2012</b> ,		4
15	Deep brain stimulation for treatment-resistant depression: efficacy, safety and mechanisms of action. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2012</b> , 36, 1920-33	9	99
14	Compact stacked planar inverted-F antenna for passive deep brain stimulation implants. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 851-4	0.9	6
13	Underlying neurobiology and clinical correlates of mania status after subthalamic nucleus deep brain stimulation in Parkinson's disease: a review of the literature. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , <b>2012</b> , 24, 102-10	2.7	42
12	Multi-layer implantable antenna for closed loop deep brain stimulation system <b>2012</b> ,		4
11	Voltage-dependent mania after subthalamic nucleus deep brain stimulation in Parkinson's disease: a case report. <i>Biological Psychiatry</i> , <b>2011</b> , 70, e5-7	7.9	25
10	A Head Mountable Deep Brain Stimulation Device for Laboratory Animals. <i>Lecture Notes in Electrical Engineering</i> , <b>2011</b> , 275-280	0.2	6
9	Wireless Instantaneous Neurotransmitter Concentration System: electrochemical monitoring of serotonin using fast-scan cyclic voltammetry--a proof-of-principle study. <i>Journal of Neurosurgery</i> , <b>2010</b> , 113, 656-65	3.2	49
8	Comonitoring of adenosine and dopamine using the Wireless Instantaneous Neurotransmitter Concentration System: proof of principle. <i>Journal of Neurosurgery</i> , <b>2010</b> , 112, 539-48	3.2	52

7	Wireless Instantaneous Neurotransmitter Concentration Sensing System (WINCS) for intraoperative neurochemical monitoring. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 4856-9	0.9	30
6	A balancing act: D4 receptor activation and the neurobiological basis of emotional learning. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 10785-7	6.6	2
5	Wireless Instantaneous Neurotransmitter Concentration System-based amperometric detection of dopamine, adenosine, and glutamate for intraoperative neurochemical monitoring. <i>Journal of Neurosurgery</i> , <b>2009</b> , 111, 701-11	3.2	69
4	Differential corticosteroid receptor regulation of mesoaccumbens dopamine efflux during the peak and nadir of the circadian rhythm: a molecular equilibrium in the midbrain?. <i>Synapse</i> , <b>2009</b> , 63, 982-90	2.4	18
3	Disrupting Disordered Neurocircuitry: Treating Refractory Psychiatric Illness With Neuromodulation. <i>Mayo Clinic Proceedings</i> , <b>2009</b> , 84, 522-532	6.4	54
2	Disrupting disordered neurocircuitry: treating refractory psychiatric illness with neuromodulation. <i>Mayo Clinic Proceedings</i> , <b>2009</b> , 84, 522-32	6.4	13
1	Modulating Neuroplasticity: Lessons Learned from Antidepressants and Emerging Novel Therapeutics. <i>Current Treatment Options in Psychiatry</i> , 1	3.1	