Alik S Widge

List of Publications by Year
in descending order

146 papers	3,845 citations	172457 29 h-index	168389 53 g-index
166 all docs	166 docs citations	166 times ranked	4030 citing authors

#	Article	IF	Citations
1	Psychedelics and Psychedelic-Assisted Psychotherapy. American Journal of Psychiatry, 2020, 177, 391-410.	7.2	309
2	Electroencephalographic Biomarkers for Treatment Response Prediction in Major Depressive Illness: A Meta-Analysis. American Journal of Psychiatry, 2019, 176, 44-56.	7.2	122
3	A Shared Vision for Machine Learning in Neuroscience. Journal of Neuroscience, 2018, 38, 1601-1607.	3.6	121
4	Clinical Implementation of Pharmacogenetic Decision Support Tools for Antidepressant Drug Prescribing. American Journal of Psychiatry, 2018, 175, 873-886.	7.2	119
5	Hormonal Treatments for Major Depressive Disorder: State of the Art. American Journal of Psychiatry, 2020, 177, 686-705.	7.2	119
6	Neuroimaging Biomarkers in Schizophrenia. American Journal of Psychiatry, 2021, 178, 509-521.	7.2	117
7	Variability and anatomical specificity of the orbitofrontothalamic fibers of passage in the ventral capsule/ventral striatum (VC/VS): precision care for patient-specific tractography-guided targeting of deep brain stimulation (DBS) in obsessive compulsive disorder (OCD). Brain Imaging and Behavior, 2016, 10, 1054-1067.	2.1	115
8	Closing the Loop on Deep Brain Stimulation for Treatment-Resistant Depression. Frontiers in Neuroscience, 2018, 12, 175.	2.8	107
9	Low-Intensity Transcranial Current Stimulation in Psychiatry. American Journal of Psychiatry, 2017, 174, 628-639.	7.2	105
10	Neuroscientifically Informed Formulation and Treatment Planning for Patients With Obsessive-Compulsive Disorder. JAMA Psychiatry, 2018, 75, 1081.	11.0	101
11	Brain-computer interface-based control of closed-loop brain stimulation: attitudes and ethical considerations. Brain-Computer Interfaces, 2016, 3, 140-148.	1.8	100
12	tDCS to the left DLPFC modulates cognitive and physiological correlates of executive function in a state-dependent manner. Brain Stimulation, 2019, 12, 1456-1463.	1.6	97
13	Deep brain stimulation of the internal capsule enhances human cognitive control and prefrontal cortex function. Nature Communications, 2019, 10, 1536.	12.8	97
14	Treating refractory mental illness with closed-loop brain stimulation: Progress towards a patient-specific transdiagnostic approach. Experimental Neurology, 2017, 287, 461-472.	4.1	94
15	Staying in the Loop: Relational Agency and Identity in Next-Generation DBS for Psychiatry. AJOB Neuroscience, 2017, 8, 59-70.	1.1	92
16	The NOESY Jigsaw: Automated Protein Secondary Structure and Main-Chain Assignment from Sparse, Unassigned NMR Data. Journal of Computational Biology, 2000, 7, 537-558.	1.6	85
17	Self-assembled monolayers of polythiophene conductive polymers improve biocompatibility and electrical impedance of neural electrodes. Biosensors and Bioelectronics, 2007, 22, 1723-1732.	10.1	81
18	An Evaluation of Neuroplasticity and Behavior After Deep Brain Stimulation of the Nucleus Accumbens in an Animal Model of Depression. Neurosurgery, 2011, 69, 1281-1290.	1.1	74

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19	Closed-loop neuromodulation systems: next-generation treatments for psychiatric illness. International Review of Psychiatry, 2017, 29, 191-204.	2.8	73
20	Deep brain stimulation for psychiatric disorders: From focal brain targets to cognitive networks. NeuroImage, 2021, 225, 117515.	4.2	63
21	A Sub-millimeter, Inductively Powered Neural Stimulator. Frontiers in Neuroscience, 2017, 11, 659.	2.8	62
22	Transgene-free remote magnetothermal regulation of adrenal hormones. Science Advances, 2020, 6, eaaz3734.	10.3	52
23	Deep Brain Stimulation for Treatment-Resistant Psychiatric Illnesses: What Has Gone Wrong and What Should We Do Next?. Biological Psychiatry, 2016, 79, e9-e10.	1.3	47
24	Prefrontal cortex and cognitive control: new insights from human electrophysiology. F1000Research, 2019, 8, 1696.	1.6	47
25	Deficits in frontoparietal activation and anterior insula functional connectivity during regulation of cognitiveâ€affective interference in bipolar disorder. Bipolar Disorders, 2019, 21, 244-258.	1.9	43
26	Affective brain-computer interfaces as enabling technology for responsive psychiatric stimulation. Brain-Computer Interfaces, 2014, 1, 126-136.	1.8	42
27	Predictors of Hypomania During Ventral Capsule/Ventral Striatum Deep Brain Stimulation. Journal of Neuropsychiatry and Clinical Neurosciences, 2016, 28, 38-44.	1.8	42
28	Risks and Benefits of Cannabis and Cannabinoids in Psychiatry. American Journal of Psychiatry, 2022, 179, 98-109.	7.2	42
29	Consistent linear and non-linear responses to invasive electrical brain stimulation across individuals and primate species with implanted electrodes. Brain Stimulation, 2019, 12, 877-892.	1.6	41
30	Social media recruitment for mental health research: A systematic review. Comprehensive Psychiatry, 2020, 103, 152197.	3.1	41
31	Acute deep brain stimulation changes in regional cerebral blood flow in obsessive-compulsive disorder. Journal of Neurosurgery, 2016, 125, 1087-1093.	1.6	35
32	Baseline and Treatment-Emergent EEG Biomarkers of Antidepressant Medication Response Do Not Predict Response to Repetitive Transcranial Magnetic Stimulation. Brain Stimulation, 2013, 6, 929-931.	1.6	34
33	Characterization of fear conditioning and fear extinction by analysis of electrodermal activity. , 2015, 2015, 7814-8.		34
34	Computational validity: using computation to translate behaviours across species. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20200525.	4.0	33
35	Targeting Cognition and Networks Through Neural Oscillations. JAMA Psychiatry, 2019, 76, 671.	11.0	31
36	Local and distant responses to single pulse electrical stimulation reflect different forms of connectivity. NeuroImage, 2021, 237, 118094.	4.2	31

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37	Evaluating the Machine Learning Literature: A Primer and User's Guide for Psychiatrists. American Journal of Psychiatry, 2021, 178, 715-729.	7.2	29
38	Closed-loop enhancement and neural decoding of cognitive control in humans. Nature Biomedical Engineering, 2023, 7, 576-588.	22.5	29
39	Realistic modeling of deep brain stimulation implants for electromagnetic MRI safety studies. Physics in Medicine and Biology, 2018, 63, 095015.	3.0	27
40	Case Report of Dual-Site Neurostimulation and Chronic Recording of Cortico-Striatal Circuitry in a Patient With Treatment Refractory Obsessive Compulsive Disorder. Frontiers in Human Neuroscience, 2020, 14, 569973.	2.0	26
41	Caudate stimulation enhances learning. Brain, 2019, 142, 2930-2937.	7.6	25
42	Psychosis from subthalamic nucleus deep brain stimulator lesion effect. , 2013, 4, 7.		24
43	Deep Brain Stimulation for Treatment-Refractory Mood and Obsessive-Compulsive Disorders. Current Behavioral Neuroscience Reports, 2015, 2, 187-197.	1.3	24
44	A state space modeling approach to real-time phase estimation. ELife, 2021, 10, .	6.0	24
45	Local and distant cortical responses to single pulse intracranial stimulation in the human brain are differentially modulated by specific stimulation parameters. Brain Stimulation, 2022, 15, 491-508.	1.6	24
46	Decoding Hidden Cognitive States From Behavior and Physiology Using a Bayesian Approach. Neural Computation, 2019, 31, 1751-1788.	2.2	23
47	The Neural Basis of Approach-Avoidance Conflict: A Model Based Analysis. ENeuro, 2019, 6, ENEURO.0115-19.2019.	1.9	23
48	Pre-frontal control of closed-loop limbic neurostimulation by rodents using a brain–computer interface. Journal of Neural Engineering, 2014, 11, 024001.	3.5	22
49	Decoding task engagement from distributed network electrophysiology in humans. Journal of Neural Engineering, 2019, 16, 056015.	3.5	22
50	Patient-specific connectomic models correlate with, but do not reliably predict, outcomes in deep brain stimulation for obsessive-compulsive disorder. Neuropsychopharmacology, 2022, 47, 965-972.	5.4	22
51	The interactive electrode localization utility: software for automatic sorting and labeling of intracranial subdural electrodes. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1829-1837.	2.8	21
52	Deep Brain Stimulation in Psychiatry. Psychiatric Clinics of North America, 2018, 41, 373-383.	1.3	21
53	CLoSES: A platform for closed-loop intracranial stimulation in humans. NeuroImage, 2020, 223, 117314.	4.2	21
54	Attitudes Toward Neuroscience Education Among Psychiatry Residents and Fellows. Academic Psychiatry, 2014, 38, 127-134.	0.9	20

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55	Neuropsychiatry and Neuroscience Milestones for General Psychiatry Trainees. Academic Psychiatry, 2014, 38, 275-282.	0.9	20
56	A neural mass model to predict electrical stimulation evoked responses in human and non-human primate brain. Journal of Neural Engineering, 2018, 15, 066012.	3.5	20
57	Attitudes Toward Neuroscience Education in Psychiatry: a National Multi-stakeholder Survey. Academic Psychiatry, 2015, 39, 139-146.	0.9	19
58	Lurasidone for the treatment of bipolar depression: an evidence-based review. Neuropsychiatric Disease and Treatment, 2015, 11, 2143.	2.2	18
59	An implantable 64-channel neural interface with reconfigurable recording and stimulation. , 2015, 2015, 7837-40.		17
60	Computational Modeling of Poly(alkylthiophene) Conductive Polymer Insertion into Phospholipid Bilayers. Langmuir, 2007, 23, 10672-10681.	3.5	16
61	COMPASS: An Open-Source, General-Purpose Software Toolkit for Computational Psychiatry. Frontiers in Neuroscience, 2018, 12, 957.	2.8	16
62	Ventral Capsule/Ventral Striatum Deep Brain Stimulation Does Not Consistently Diminish Occipital Cross-Frequency Coupling. Biological Psychiatry, 2016, 80, e59-e60.	1.3	15
63	Continuous Phase Estimation for Phase-Locked Neural Stimulation Using an Autoregressive Model for Signal Prediction. , 2018, 2018, 4736-4739.		15
64	Cognitive state prediction using an EM algorithm applied to Gamma distributed data. , 2015, 2015, 7819-24.		14
65	Neural engineering: the process, applications, and its role in the future of medicine. Journal of Neural Engineering, 2019, 16, 063002.	3.5	14
66	Paired Electrical Pulse Trains for Controlling Connectivity in Emotion-Related Brain Circuitry. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2721-2730.	4.9	13
67	Development and initial testing of an empirical forcefield for simulation of poly(alkylthiophenes). Journal of Molecular Graphics and Modelling, 2008, 27, 34-44.	2.4	12
68	Transcranial Direct Current Stimulation to the Left Dorsolateral Prefrontal Cortex Improves Cognitive Control in Patients With Attention-Deficit/Hyperactivity Disorder: A Randomized Behavioral and Neurophysiological Study. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2021, 6, 439-448.	1.5	12
69	Cross-sectional survey examining skin picking and hair pulling disorders during the COVID-19 pandemic. Journal of the American Academy of Dermatology, 2021, 84, 771-773.	1.2	12
70	Managing patients with psychiatric conditions treated with deep brain stimulation. , 0, , 124-137.		11
71	Package architecture and component design for an implanted neural stimulator with closed loop control. , 2015, 2015, 7825-30.		11
72	Altering alpha-frequency brain oscillations with rapid analog feedback-driven neurostimulation. PLoS ONE, 2018, 13, e0207781.	2.5	11

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73	Amyloid and Tau in Alzheimer's Disease: Biomarkers or Molecular Targets for Therapy? Are We Shooting the Messenger?. American Journal of Psychiatry, 2021, 178, 1014-1025.	7.2	11
74	Physiologically informed neuromodulation. Journal of the Neurological Sciences, 2022, 434, 120121.	0.6	11
75	Systems-Based Practice and Practice-Based Learning for the General Psychiatrist: Old Competencies, New Emphasis. Academic Psychiatry, 2014, 38, 288-293.	0.9	10
76	Multimodal Encoding of Novelty, Reward, and Learning in the Primate Nucleus Basalis of Meynert. Journal of Neuroscience, 2018, 38, 1942-1958.	3.6	10
77	Electroencephalographic Biomarkers for Predicting Antidepressant Response. JAMA Psychiatry, 2020, 77, 347.	11.0	10
78	Double blind randomized controlled trial of deep brain stimulation for obsessive-compulsive disorder: Clinical trial design. Contemporary Clinical Trials Communications, 2021, 22, 100785.	1.1	10
79	Intermittent subthalamic nucleus deep brain stimulation induces risk-aversive behavior in human subjects. ELife, 2018, 7, .	6.0	10
80	Cross-Species Neuromodulation from High-Intensity Transcranial Electrical Stimulation. Trends in Cognitive Sciences, 2018, 22, 372-374.	7.8	9
81	Behavioral validation of a wireless low-power neurostimulation technology in a conditioned place preference task. Journal of Neural Engineering, 2019, 16, 026022.	3.5	9
82	Restriction of Access to Deep Brain Stimulation for Refractory OCD: Failure to Apply the Federal Parity Act. Frontiers in Psychiatry, 2021, 12, 706181.	2.6	9
83	A statistical framework to assess cross-frequency coupling while accounting for confounding analysis effects. ELife, 2019, 8, .	6.0	9
84	Toolkit for Oscillatory Real-time Tracking and Estimation (TORTE). Journal of Neuroscience Methods, 2022, 366, 109409.	2.5	9
85	Neurotherapeutic Interventions for Psychiatric Illness. Harvard Review of Psychiatry, 2017, 25, 253-255.	2.1	8
86	Estimating a dynamic state to relate neural spiking activity to behavioral signals during cognitive tasks. , 2015, 2015, 7808-13.		7
87	Closing the Loop in Deep Brain Stimulation for Psychiatric Disorders: Lessons from Motor Neural Prosthetics. Neuropsychopharmacology, 2016, 41, 379-380.	5.4	7
88	Dynamic network targeting for closed-loop deep brain stimulation. Neuropsychopharmacology, 2019, 44, 219-220.	5.4	7
89	Estimating Dynamic Signals From Trial Data With Censored Values. Computational Psychiatry, 2020, 1, 58.	2.0	7
90	Region-Level Functional and Effective Network Analysis of Human Brain During Cognitive Task Engagement. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1651-1660.	4.9	7

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91	Lost in translation: no effect of repeated optogenetic cortico-striatal stimulation on compulsivity in rats. Translational Psychiatry, 2021, 11, 315.	4.8	7
92	Neural signal processing and closed-loop control algorithm design for an implanted neural recording and stimulation system. , 2015, 2015, 7831-6.		6
93	Psychedelics and Psychedelic-Assisted Psychotherapy. Focus (American Psychiatric Publishing), 2021, 19, 95-115.	0.8	6
94	Beyond Description and Deficits: How Computational Psychiatry Can Enhance an Understanding of Decision-Making in Anorexia Nervosa. Current Psychiatry Reports, 2022, 24, 77-87.	4.5	6
95	Opportunities and Challenges: Residents' Perspectives on the Next Accreditation System in Psychiatry. Academic Psychiatry, 2014, 38, 303-304.	0.9	5
96	Predicting local field potentials with recurrent neural networks. , 2016, 2016, 808-811.		5
97	Support, technology and mental health: correlates of trainee workplace satisfaction. Perspectives on Medical Education, 2022, 9, 31-40.	3.5	5
98	Sacral preservation in cauda equina syndrome from inferior vena cava thrombosis. Journal of Neurosurgery: Spine, 2009, 10, 257-259.	1.7	4
99	Predicting learning dynamics in Multiple-Choice Decision-Making Tasks using a variational Bayes technique. , 2017, 2017, 3194-3197.		4
100	EEG Biomarkers for Treatment Response Prediction in Major Depressive Illness. American Journal of Psychiatry, 2019, 176, 82-82.	7.2	4
101	Packaging Architecture for an Implanted System that Monitors Brain Activity and Applies Therapeutic Stimulation. Journal of Microelectronics and Electronic Packaging, 2016, 13, 64-70.	0.7	4
102	Avoiding a lost generation of scientists. ELife, 2016, 5, .	6.0	4
103	Personalizing Dual-Target Cortical Stimulation with Bayesian Parameter Optimization Successfully Treats Central Post-Stroke Pain: A Case Report. Brain Sciences, 2022, 12, 25.	2.3	4
104	Increasing Full Child Immunization Rates by Government Using an Innovative Computerized Immunization Due List in Rural India. Inquiry (United States), 2018, 55, 004695801775129.	0.9	3
105	Closing the Loop on Deep Brain Stimulation for Treatment-Resistant Depression. Focus (American) Tj ETQq1 1 0.784314 rgBT /Overlo	0.8	3
106	Continuous Prediction of Cognitive State Using A Marked-Point Process Modeling Framework. , 2019, 2019, 2933-2938.		3
107	Direct Neural Control of Anatomically Correct Robotic Hands. Human-computer Interaction Series, 2010, , 105-119.	0.6	3
108	Packaging Architecture for an Implanted System that Monitors Brain Activity and Applies Therapeutic Stimulation. International Symposium on Microelectronics, 2015, 2015, 000548-000554.	0.0	3

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109	Challenges in Managing Treatment-Refractory Obsessive-Compulsive Disorder and Tourette's Syndrome. Harvard Review of Psychiatry, 2016, 24, 294-301.	2.1	2
110	A case of non-affective psychosis followed by extended response to non-stimulation in deep brain stimulation for obsessive-compulsive disorder. Brain Stimulation, 2020, 13, 1317-1319.	1.6	2
111	Treating Refractory Mental Illness With Closed-Loop Brain Stimulation: Progress Towards a Patient-Specific Transdiagnostic Approach. Focus (American Psychiatric Publishing), 2022, 20, 137-151.	0.8	2
112	A 16-Channel 60µW Neural Synchrony Processor for Multi-Mode Phase-Locked Neurostimulation. , 2022, , .		2
113	Probing Neuro-Endocrine Interactions Through Remote Magnetothermal Adrenal Stimulation. Frontiers in Neuroscience, 0, 16, .	2.8	2
114	Hybrid Decoders for Marked Point Process Observations and External Influences. IEEE Transactions on Biomedical Engineering, 2023, 70, 343-353.	4.2	2
115	Methodology and the Limits of QEEG: Reply to Olbrich & Arns. Brain Stimulation, 2014, 7, 148-149.	1.6	1
116	Putative biological predictors of treatment response in bipolar disorders. Personalized Medicine in Psychiatry, 2017, 1-2, 39-58.	0.1	1
117	102. Modulating Top-Down Executive Control Networks with Striatal Deep Brain Stimulation. Biological Psychiatry, 2017, 81, S43.	1.3	1
118	A Case of Severe Intractable Contamination-Based Obsessive-Compulsive Disorder. JAMA Psychiatry, 2018, 75, 1088.	11.0	1
119	T34. Effects of Repeated Cortico-Striatal Optogenetic Stimulation on OCD-Like Behaviors in Rats. Biological Psychiatry, 2019, 85, S142.	1.3	1
120	Transcranial Direct Current Stimulation to the Left Dorsolateral Prefrontal Cortex Improves Cognitive Control and its Physiological Biomarkers in Patients With Attention Deficit Hyperactivity Disorder. Biological Psychiatry, 2021, 89, S77-S78.	1.3	1
121	Decoding Human Cognitive Control Using Functional Connectivity of Local Field Potentials. , 2021, 2021, 451-454.		1
122	Facilitating conservation. Science, 2017, 356, 242-244.	12.6	0
123	991. Oscillation Changes in EEG Measured in the On and Off DBS State in Patients with Treatment Resistant Depression. Biological Psychiatry, 2017, 81, S401.	1.3	0
124	47. Preferential Role of the Subthalamic Nucleus in Avoidant Decision Making. Biological Psychiatry, 2017, 81, S20.	1.3	0
125	149 Human Subthalamic Nucleus Neurons Exhibit Increased Theta-band Phase-locking During High-conflict Decision Making. Neurosurgery, 2017, 64, 236.	1.1	0
126	T11. Contributions of Cortico-Striatal Pathways to the Modulation of Cognitive Flexibility. Biological Psychiatry, 2018, 83, S133.	1.3	0

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127	T275. Going Wireless: Validation of a Novel Neurostimulation Technology in a Conditioned Place Preference Task. Biological Psychiatry, 2018, 83, S236.	1.3	0
128	T15. Paired, Phase-Lagged Electrical Stimulation Alters Connectivity and Plasticity in a Fear Regulation Circuit. Biological Psychiatry, 2018, 83, S134.	1.3	0
129	Deep Brain Stimulation for Highly Refractory Depression. , 2018, , 1057-1072.		0
130	215. Recording and Disrupting Cortical-Striatal HyperconnectivityÂin Obsessive-Compulsive Disorder. Biological Psychiatry, 2019, 85, S89.	1.3	0
131	F8. Closed-Loop Phase-Locked Electrical Stimulation Alters Low Frequency Coherence in a Fear Regulation Circuit. Biological Psychiatry, 2019, 85, S215-S216.	1.3	0
132	213. Effects of Deep Brain Stimulation in Cognitive Flexibility Using an OCD Animal Model. Biological Psychiatry, 2019, 85, S88.	1.3	0
133	F139. Decoding of Cognitive Flexibility State Using Behavior and Pre-Frontal Cortical Local Field Potentials. Biological Psychiatry, 2019, 85, S267.	1.3	0
134	Lost in Translation: No Effect of Repeated Orbitofrontal-Striatal Optogenetic Stimulation on Repetitive Behaviors and Behavioral Flexibility in Rats. Biological Psychiatry, 2020, 87, S193-S194.	1.3	0
135	Controlling Brain Networks Through Oscillatory Synchrony. Biological Psychiatry, 2020, 87, S96.	1.3	0
136	Treating Psychiatric Illness Through Targeted Network Disruption and Electrical Biomarker Identification. Biological Psychiatry, 2020, 87, S237.	1.3	0
137	Intra-Hemisphere Gamma Band Coherence as an EEG Marker of Negative Self-Referential Thinking. Biological Psychiatry, 2020, 87, S189.	1.3	0
138	Uncovering Relationships Between Mood, Movement, and Neural Activity via Dense Longitudinal Data From an Obsessive-Compulsive Disorder Patient Undergoing Deep Brain Stimulation. Biological Psychiatry, 2020, 87, S459.	1.3	0
139	Identification and Functional Dissection of Corticostriatal Circuits Modulated by Deep Brain Stimulation. Biological Psychiatry, 2020, 87, S183-S184.	1.3	0
140	Divergent Effects of Electrical and Optogenetic Deep Brain Stimulation in Cognitive Flexibility in Rodents. Biological Psychiatry, 2021, 89, S194.	1.3	0
141	Concurrent Benzodiazepine Use and TMS Clinical Outcomes. Biological Psychiatry, 2021, 89, S288.	1.3	0
142	Functional Neurosurgery in Severe and Treatment-Refractory OCD. , 2017, , .		0
143	T37. Effects of Deep Brain Stimulation in Cognitive Flexibility Using an OCD Animal Model. Biological Psychiatry, 2019, 85, S143.	1.3	0
144	Alteration of Brain Connectivity and Behavior Using a Precisely Timed Electrical Stimulation Paradigm in a Fear Regulation Circuit. Biological Psychiatry, 2020, 87, S359-S360.	1.3	0

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145	Spectral Features Based Decoding of Task Engagement: The Role of Theta and High Gamma Bands in Cognitive Control. , 2021, 2021, 6062-6065.		0
146	Reply to â€œDiagnosis of stress-associated dermatological conditions in New York City safety net hospitals during the pandemicâ€. Journal of the American Academy of Dermatology, 2023, 88, e99.	1.2	0