Zhi-De Deng

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Electric field depth–focality tradeoff in transcranial magnetic stimulation: Simulation comparison of 50 coil designs. Brain Stimulation, 2013, 6, 1-13.	0.7	771
2	Analysis of First-Derivative Based QRS Detection Algorithms. IEEE Transactions on Biomedical Engineering, 2008, 55, 478-484.	2.5	345
3	Coil design considerations for deep transcranial magnetic stimulation. Clinical Neurophysiology, 2014, 125, 1202-1212.	0.7	222
4	Electroconvulsive Therapy Stimulus Parameters. Journal of ECT, 2010, 26, 159-174.	0.3	163
5	Electric field strength and focality in electroconvulsive therapy and magnetic seizure therapy: a finite element simulation study. Journal of Neural Engineering, 2011, 8, 016007.	1.8	152
6	Rigor and reproducibility in research with transcranial electrical stimulation: An NIMH-sponsored workshop. Brain Stimulation, 2018, 11, 465-480.	0.7	144
7	Simultaneous transcranial magnetic stimulation and single-neuron recording in alert non-human primates. Nature Neuroscience, 2014, 17, 1130-1136.	7.1	123
8	Regional electric field induced by electroconvulsive therapy in a realistic finite element head model: Influence of white matter anisotropic conductivity. NeuroImage, 2012, 59, 2110-2123.	2.1	98
9	Multifactorial Determinants of the Neurocognitive Effects of Electroconvulsive Therapy. Journal of ECT, 2014, 30, 165-176.	0.3	98
10	Effects of online repetitive transcranial magnetic stimulation (rTMS) on cognitive processing: A meta-analysis and recommendations for future studies. Neuroscience and Biobehavioral Reviews, 2019, 107, 47-58.	2.9	83
11	The development and modelling of devices and paradigms for transcranial magnetic stimulation. International Review of Psychiatry, 2017, 29, 115-145.	1.4	71
12	High-frequency repetitive TMS for suicidal ideation in adolescents with depression. Journal of Affective Disorders, 2018, 239, 282-290.	2.0	58
13	Extended Remediation of Sleep Deprived-Induced Working Memory Deficits Using fMRI-guided Transcranial Magnetic Stimulation. Sleep, 2013, 36, 857-871.	0.6	57
14	Electric field causes volumetric changes in the human brain. ELife, 2019, 8, .	2.8	57
15	The kynurenine pathway and bipolar disorder: intersection of the monoaminergic and glutamatergic systems and immune response. Molecular Psychiatry, 2021, 26, 4085-4095.	4.1	48
16	Neural circuit repair by low-intensity magnetic stimulation requires cellular magnetoreceptors and specific stimulation patterns. Science Advances, 2019, 5, eaav9847.	4.7	47
17	Effect of Anatomical Variability on Electric Field Characteristics of Electroconvulsive Therapy and Magnetic Seizure Therapy: A Parametric Modeling Study. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 22-31.	2.7	44
18	Coil design considerations for deep-brain transcranial magnetic stimulation (dTMS). , 2008, 2008, 5675-9.		41

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19	A generalized workflow for conducting electric field–optimized, fMRI-guided, transcranial magnetic stimulation. Nature Protocols, 2020, 15, 3595-3614.	5.5	36
20	Association between tDCS computational modeling and clinical outcomes in depression: data from the ELECT-TDCS trial. European Archives of Psychiatry and Clinical Neuroscience, 2021, 271, 101-110.	1.8	35
21	Redesigning existing transcranial magnetic stimulation coils to reduce energy: application to low field magnetic stimulation. Journal of Neural Engineering, 2018, 15, 036022.	1.8	33
22	Controlling Stimulation Strength and Focality in Electroconvulsive Therapy via Current Amplitude and Electrode Size and Spacing. Journal of ECT, 2013, 29, 321-331.	0.3	31
23	Device-Based Modulation of Neurocircuits as a Therapeutic for Psychiatric Disorders. Annual Review of Pharmacology and Toxicology, 2020, 60, 591-614.	4.2	29
24	Neurocognitive Effects of Combined Electroconvulsive Therapy (ECT) and Venlafaxine in Geriatric Depression: Phase 1 of the PRIDE Study. American Journal of Geriatric Psychiatry, 2020, 28, 304-316.	0.6	28
25	Mechanistic link between right prefrontal cortical activity and anxious arousal revealed using transcranial magnetic stimulation in healthy subjects. Neuropsychopharmacology, 2020, 45, 694-702.	2.8	28
26	Electroconvulsive therapy, electric field, neuroplasticity, and clinical outcomes. Molecular Psychiatry, 2022, 27, 1676-1682.	4.1	28
27	Heart Rate Variability in Pediatric Obstructive Sleep Apnea. , 2006, 2006, 3565-8.		27
28	Effect of anatomical variability on neural stimulation strength and focality in electroconvulsive therapy (ECT) and magnetic seizure therapy (MST). , 2009, 2009, 682-8.		27
29	Quantitative Analysis of QRS Detection Algorithms Based on the First Derivative of the ECG. , 2006, 2006, 1788-91.		26
30	Statistical Model of Motor-Evoked Potentials. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1539-1545.	2.7	26
31	Low-frequency parietal repetitive transcranial magnetic stimulation reduces fear and anxiety. Translational Psychiatry, 2020, 10, 68.	2.4	26
32	In vitro Magnetic Stimulation: A Simple Stimulation Device to Deliver Defined Low Intensity Electromagnetic Fields. Frontiers in Neural Circuits, 2016, 10, 85.	1.4	25
33	Utilizing transcranial direct current stimulation to enhance laparoscopic technical skills training: A randomized controlled trial. Brain Stimulation, 2020, 13, 863-872.	0.7	21
34	Electric field strength induced by electroconvulsive therapy is associated with clinical outcome. NeuroImage: Clinical, 2021, 30, 102581.	1.4	21
35	Precision non-implantable neuromodulation therapies: a perspective for the depressed brain. Revista Brasileira De Psiquiatria, 2020, 42, 403-419.	0.9	19
36	Using diffusion tensor imaging to effectively target TMS to deep brain structures. NeuroImage, 2022, 249–118863	2.1	19

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37	Neuromodulation for mood and memory: from the engineering bench to the patient bedside. Current Opinion in Neurobiology, 2015, 30, 38-43.	2.0	18
38	Longitudinal Neurocognitive Effects of Combined Electroconvulsive Therapy (ECT) and Pharmacotherapy in Major Depressive Disorder in Older Adults: Phase 2 of the PRIDE Study. American Journal of Geriatric Psychiatry, 2022, 30, 15-28.	0.6	18
39	Regional electric field induced by electroconvulsive therapy: A finite element simulation study. , 2010, 2010, 2010, 2045-8.		14
40	Controlling Stimulation Strength and Focality in Electroconvulsive Therapy via Current Amplitude and Electrode Size and Spacing. Journal of ECT, 2013, 29, 325-335.	0.3	14
41	Biophysical mechanisms of electroconvulsive therapy-induced volume expansion in the medial temporal lobe: A longitudinal inÂvivo human imaging study. Brain Stimulation, 2021, 14, 1038-1047.	0.7	14
42	Transcranial magnetic stimulation in the presence of deep brain stimulation implants: Induced electrode currents. , 2010, 2010, 6821-4.		13
43	Magnetic seizure therapy: Towards personalized seizure therapy for major depression. Personalized Medicine in Psychiatry, 2019, 17-18, 37-42.	0.1	13
44	Proof of concept study to develop a novel connectivity-based electric-field modelling approach for individualized targeting of transcranial magnetic stimulation treatment. Neuropsychopharmacology, 2022, 47, 588-598.	2.8	13
45	Brain network properties in depressed patients receiving seizure therapy: A graph theoretical analysis of peri-treatment resting EEG. , 2015, 2015, 2203-6.		12
46	A double-blind pilot dosing study of low field magnetic stimulation (LFMS) for treatment-resistant depression (TRD). Journal of Affective Disorders, 2019, 249, 286-293.	2.0	12
47	Neural and Psychological Predictors of Cognitive Enhancement and Impairment from Neurostimulation. Advanced Science, 2020, 7, 1902863.	5.6	12
48	Modulation of Resting Connectivity Between the Mesial Frontal Cortex and Basal Ganglia. Frontiers in Neurology, 2019, 10, 587.	1.1	11
49	Noninvasive neuromodulation of the prefrontal cortex in mental health disorders. Neuropsychopharmacology, 2022, 47, 361-372.	2.8	11
50	Electric Field Modeling for Transcranial Magnetic Stimulation and Electroconvulsive Therapy. , 2019, , 75-84.		9
51	Transcranial magnetic stimulation coil with electronically switchable active and sham modes. , 2011, 2011, 1993-6.		8
52	Transcranial Direct Current Stimulation Applied to the Dorsolateral and Ventromedial Prefrontal Cortices in Smokers Modifies Cognitive Circuits Implicated in the Nicotine Withdrawal Syndrome. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 5, 448-460.	1.1	8
53	Angle-tuned coils: attractive building blocks for TMS with improved depth-spread performance. Journal of Neural Engineering, 2022, 19, 026059.	1.8	8
54	Influence of white matter conductivity anisotropy on electric field strength induced by electroconvulsive therapy. , 2011, 2011, 5473-6.		7

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55	Ictal Theta Power as an Electroconvulsive Therapy Safety Biomarker. Journal of ECT, 2022, 38, 88-94.	0.3	7
56	Not So Fast. Journal of Clinical Psychiatry, 2020, 81, .	1.1	6
57	Electroconvulsive therapy in the presence of deep brain stimulation implants: Electric field effects. , 2010, 2019, 2049-52.		5
58	On the characterization of coils for deep transcranial magnetic stimulation. Clinical Neurophysiology, 2015, 126, 1456-1457.	0.7	5
59	Application of Non-Invasive Brain Stimulation in Psychophysiology. , 0, , 116-150.		5
60	Continuous Theta-Burst Stimulation to the Right Dorsolateral Prefrontal Cortex May Increase Potentiated Startle in Healthy Individuals. Biological Psychiatry Global Open Science, 2023, 3, 470-479.	1.0	5
61	A study protocol for an ongoing multi-arm, randomized, double-blind, sham-controlled clinical trial with digital features, using portable transcranial electrical stimulation and internet-based behavioral therapy for major depression disorders: The PSYLECT study. Expert Review of Neurotherapeutics. 2022. 22. 513-523.	1.4	5
62	On the stimulation depth of transcranial magnetic stimulation coils. Clinical Neurophysiology, 2015, 126, 843-844.	0.7	4
63	Electric field characteristics of low-field synchronized transcranial magnetic stimulation (sTMS). , 2017, 2017, 1445-1448.		3
64	Topography of seizures induced by electroconvulsive therapy and magnetic seizure therapy. , 2013, , .		2
65	Measuring the Effect of Transcranial Direct Current Stimulation (tDCS) on Large-Scale Brain Networks With Simultaneous Functional Magnetic Resonance Imaging (fMRI). Biological Psychiatry, 2020, 87, S412.	0.7	2
66	T176. Controllability of Structural Brain Networks in Depressed Patients Receiving Repetitive Transcranial Magnetic Stimulation. Biological Psychiatry, 2018, 83, S196.	0.7	1
67	599. Cortical Excitability in Patients with Treatment Resistant Depression. Biological Psychiatry, 2017, 81, S242-S243.	0.7	0
68	F171. Ketamine Modulates Kynurenine Pathway in Mood Disorders: A Longitudinal Structural Equation Model. Biological Psychiatry, 2018, 83, S304-S305.	0.7	0
69	S112. A Spectral Method for Determining Cortical Silent Period Induced by Transcranial Magnetic Stimulation. Biological Psychiatry, 2019, 85, S340-S341.	0.7	0
70	161. The Relationship Among Electric-Field Distributions, Neuroimaging Findings and Clinical Outcomes in ECT. Biological Psychiatry, 2019, 85, S67.	0.7	0
71	T15. Repetitive Transcranial Magnetic Stimulation Reveals a Causal Link Between Right dlPFC Activity and Anxiety Expression. Biological Psychiatry, 2019, 85, S135.	0.7	0
72	Using Mnemonic Similarity Task to Assess Medial Temporal Lobe Function: A Magnetoencephalography Study. Biological Psychiatry, 2020, 87, S237-S238.	0.7	0

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73	The Effect of Electric Field on the Human Brain. Biological Psychiatry, 2020, 87, S231.	0.7	0
74	Factor Structure of the Hamilton Depression Rating Scale During Electroconvulsive Therapy and Magnetic Seizure Therapy in the Treatment of Major Depression. Biological Psychiatry, 2020, 87, S288.	0.7	0
75	Heart Rate Variability in Pediatric Obstructive Sleep Apnea. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0