Bruce T Volpe

List of Publications by Year
in descending order

69 papers	8,622 citations	156536 32 h-index	129628 63 g-index
74 all docs	74 docs citations	74 times ranked	9060 citing authors

#	Article	IF	Citations
1	In utero exposure to maternal antiâ€“aquaporin-4 antibodies alters brain vasculature and neural dynamics in male mouse offspring. Science Translational Medicine, 2022, 14, eabe9726.	5.8	11
2	HMGB1â€mediated microglial activation as a mechanism for cognitive dysfunction in neuropsychiatric lupus. FASEB Journal, 2022, 36, .	0.2	0
3	Cognitive Impairment in SLE: Mechanisms and Therapeutic Approaches. Current Rheumatology Reports, 2021, 23, 25.	2.1	4
4	Follicular dendritic cell dysfunction contributes to impaired antigen-specific humoral responses in sepsis-surviving mice. Journal of Clinical Investigation, 2021, 131, .	3.9	8
5	A method to quantify autonomic nervous system function in healthy, able-bodied individuals. Bioelectronic Medicine, 2021, 7, 13.	1.0	14
6	Accurate prediction of clinical stroke scales and improved biomarkers of motor impairment from robotic measurements. PLoS ONE, 2021, 16, e0245874.	1.1	13
7	Contributions of Sex Chromosomes and Gonadal Hormones to the Male Bias in a Maternal Antibody-Induced Model of Autism Spectrum Disorder. Frontiers in Neurology, 2021, 12, 721108.	1.1	1
8	Quinolinic acid, a kynurenine/tryptophan pathway metabolite, associates with impaired cognitive test performance in systemic lupus erythematosus. Lupus Science and Medicine, 2021, 8, e000559.	1.1	10
9	Transcutaneous Auricular Vagus Nerve Stimulation (tAVNS) Delivered During Upper Limb Interactive Robotic Training Demonstrates Novel Antagonist Control for Reaching Movements Following Stroke. Frontiers in Neuroscience, 2021, 15, 767302.	1.4	24
10	Robotic Kinematic measures of the arm in chronic Stroke: part 1 â€“ Motor Recovery patterns from tDCS preceding intensive training. Bioelectronic Medicine, 2021, 7, 20.	1.0	5
11	Robotic Kinematic measures of the arm in chronic Stroke: part 2 â€“ strong correlation with clinical outcome measures. Bioelectronic Medicine, 2021, 7, 21.	1.0	5
12	SARS-CoV-2 and interferon blockade. Molecular Medicine, 2020, 26, 103.	1.9	3
13	In utero exposure to endogenous maternal polyclonal anti-Caspr2 antibody leads to behavioral abnormalities resembling autism spectrum disorder in male mice. Scientific Reports, 2020, 10, 14446.	1.6	12
14	Intramuscular injection of vectorized-scFvMC1 reduces pathological tau in two different tau transgenic models. Acta Neuropathologica Communications, 2020, 8, 126.	2.4	5
15	Editorial: Immune mechanisms and brain dysfunction. Current Opinion in Neurology, 2020, 33, 338-340.	1.8	0
16	Lupus autoantibodies act as positive allosteric modulators at GluN2A-containing NMDA receptors and impair spatial memory. Nature Communications, 2020, 11, 1403.	5.8	36
17	Non-invasive treatment of patients with upper extremity spasticity following stroke using paired trans-spinal and peripheral direct current stimulation. Bioelectronic Medicine, 2019, 5, 11.	1.0	14
18	Metabolic and microstructural alterations in the SLE brain correlate with cognitive impairment. JCI Insight, 2019, 4, .	2.3	52

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19	Clinical improvement with intensive robot-assisted arm training in chronic stroke is unchanged by supplementary tDCS. Restorative Neurology and Neuroscience, 2019, 37, 167-180.	0.4	38
20	Alterations in Blood-Brain Barrier Permeability in Patients with Systemic Lupus Erythematosus. American Journal of Neuroradiology, 2019, 40, 470-477.	1.2	28
21	Dynamic Contrast-Enhanced MRI Reveals Unique Blood-Brain Barrier Permeability Characteristics in the Hippocampus in the Normal Brain. American Journal of Neuroradiology, 2019, 40, 408-411.	1.2	18
22	Reply:. American Journal of Neuroradiology, 2019, 40, E42-E43.	1.2	1
23	Reply:. American Journal of Neuroradiology, 2019, 40, E67-E68.	1.2	0
24	Assessing cognitive impairment in SLE: examining relationships between resting glucose metabolism and anti-NMDAR antibodies with navigational performance. Lupus Science and Medicine, 2019, 6, e000327.	1.1	11
25	TD-05â€…Dynamic contrast enhanced MRI (DCE-MRI) demonstrates hippocampus permeability in SLE. , 2018, , .		0
26	Editorial. Current Opinion in Neurology, 2018, 31, 291-293.	1.8	0
27	Constitutive Vagus Nerve Activation Modulates Immune Suppression in Sepsis Survivors. Frontiers in Immunology, 2018, 9, 2032.	2.2	22
28	Robotic Arm Rehabilitation in Chronic Stroke Patients With Aphasia May Promote Speech and Language Recovery (but Effect Is Not Enhanced by Supplementary tDCS). Frontiers in Neurology, 2018, 9, 853.	1.1	9
29	Lupus antibodies induce behavioral changes mediated by microglia and blocked by ACE inhibitors. Journal of Experimental Medicine, 2018, 215, 2554-2566.	4.2	117
30	Evidence for C1q-mediated crosslinking of CD33/LAIR-1 inhibitory immunoreceptors and biological control of CD33/LAIR-1 expression. Scientific Reports, 2017, 7, 270.	1.6	43
31	Fletcher H. McDowell 1923â€“2017. Stroke, 2017, 48, 2335-2336.	1.0	0
32	Intensive seated robotic training of the ankle in patients with chronic stroke differentially improves gait. NeuroRehabilitation, 2017, 41, 61-68.	0.5	15
33	Preclinical Models of Overwhelming Sepsis Implicate the Neural System that Encodes Contextual Fear Memory. Molecular Medicine, 2016, 22, 789-799.	1.9	22
34	Blood-Brain Barrier Deterioration and Hippocampal Gene Expression in Polymicrobial Sepsis: An Evaluation of Endothelial MyD88 and the Vagus Nerve. PLoS ONE, 2016, 11, e0144215.	1.1	13
35	HMGB1 Mediates Anemia of Inflammation in Murine Sepsis Survivors. Molecular Medicine, 2015, 21, 951-958.	1.9	45
36	Stroke subtype and motor impairment influence contralesional excitability. Neurology, 2015, 85, 517-520.	1.5	22

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37	Brain metabolism and autoantibody titres predict functional impairment in systemic lupus erythematosus. Lupus Science and Medicine, 2015, 2, e000074-e000074.	1.1	34
38	The brain at risk: the sepsis syndrome and lessons from preclinical experiments. Immunologic Research, 2015, 63, 70-74.	1.3	12
39	Robotics: A Rehabilitation Modality. Current Physical Medicine and Rehabilitation Reports, 2015, 3, 243-247.	0.3	11
40	Antibodies as Mediators of Brain Pathology. Trends in Immunology, 2015, 36, 709-724.	2.9	47
41	Selective Impairment of Spatial Cognition Caused by Autoantibodies to the N-Methyl-d-Aspartate Receptor. EBioMedicine, 2015, 2, 755-764.	2.7	71
42	The gut microbiota influences blood-brain barrier permeability in mice. Science Translational Medicine, 2014, 6, 263ra158.	5.8	1,589
43	Regional Brain Metabolism in a Murine Systemic Lupus Erythematosus Model. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1315-1320.	2.4	23
44	Robotic Measurement of Arm Movements After Stroke Establishes Biomarkers of Motor Recovery. Stroke, 2014, 45, 200-204.	1.0	132
45	HMGB1 Mediates Cognitive Impairment in Sepsis Survivors. Molecular Medicine, 2012, 18, 930-937.	1.9	172
46	Female mouse fetal loss mediated by maternal autoantibody. Journal of Experimental Medicine, 2012, 209, 1083-1089.	4.2	42
47	Differences in Regional Brain Activation Patterns Assessed by Functional Magnetic Resonance Imaging in Patients with Systemic Lupus Erythematosus Stratified by Disease Duration. Molecular Medicine, 2011, 17, 1349-1356.	1.9	39
48	Kinematic Robot-Based Evaluation Scales and Clinical Counterparts to Measure Upper Limb Motor Performance in Patients With Chronic Stroke. Neurorehabilitation and Neural Repair, 2010, 24, 62-69.	1.4	234
49	Robot-Assisted Therapy for Long-Term Upper-Limb Impairment after Stroke. New England Journal of Medicine, 2010, 362, 1772-1783.	13.9	1,175
50	Neurotoxic lupus autoantibodies alter brain function through two distinct mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18569-18574.	3.3	184
51	Robotic Devices as Therapeutic and Diagnostic Tools for Stroke Recovery. Archives of Neurology, 2009, 66, 1086-90.	4.9	104
52	Neurotoxic autoantibodies mediate congenital cortical impairment of offspring in maternal lupus. Nature Medicine, 2009, 15, 91-96.	15.2	150
53	Polyreactive autoantibodies in systemic lupus erythematosus have pathogenic potential. Journal of Autoimmunity, 2009, 33, 270-274.	3.0	82
54	A paradigm shift for rehabilitation robotics. IEEE Engineering in Medicine and Biology Magazine, 2008, 27, 61-70.	1.1	123

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55	Intensive Sensorimotor Arm Training Mediated by Therapist or Robot Improves Hemiparesis in Patients With Chronic Stroke. Neurorehabilitation and Neural Repair, 2008, 22, 305-310.	1.4	222
56	Robot-Aided Neurorehabilitation: A Robot for Wrist Rehabilitation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2007, 15, 327-335.	2.7	447
57	Use of computerized assessment to predict neuropsychological functioning and emotional distress in patients with systemic lupus erythematosus. Arthritis and Rheumatism, 2006, 55, 434-441.	6.7	66
58	Antiâ€“N-methyl-D-aspartate receptor antibodies, cognitive dysfunction, and depression in systemic lupus erythematosus. Arthritis and Rheumatism, 2006, 54, 2505-2514.	6.7	233
59	Immunity and behavior: Antibodies alter emotion. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 678-683.	3.3	264
60	Human lupus autoantibodies against NMDA receptors mediate cognitive impairment. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19854-19859.	3.3	365
61	Cognition and Immunity. Immunity, 2004, 21, 179-188.	6.6	386
62	Assessing the Motor Status Score: A Scale for the Evaluation of Upper Limb Motor Outcomes in Patients after Stroke. Neurorehabilitation and Neural Repair, 2002, 16, 283-289.	1.4	87
63	Movement Smoothness Changes during Stroke Recovery. Journal of Neuroscience, 2002, 22, 8297-8304.	1.7	608
64	A subset of lupus anti-DNA antibodies cross-reacts with the NR2 glutamate receptor in systemic lupus erythematosus. Nature Medicine, 2001, 7, 1189-1193.	15.2	721
65	Robot-Aided Neuro-Rehabilitation in Stroke: Neuro-Recovery for Thalamic Lesion. , 1999, , .		3
66	Building a rational foundation for neural transplantation. Behavioral and Brain Sciences, 1995, 18, 55-56.	0.4	1
67	Differential In Vivo Regulation of mRNA Encoding the Norepinephrine Transporter and Tyrosine Hydroxylase in Rat Adrenal Medulla and Locus Ceruleus. Journal of Neurochemistry, 1995, 65, 502-509.	2.1	57
68	Semantic activation in patients with parkinson's disease. Experimental Aging Research, 1985, 11, 105-107.	0.6	20
69	Information processing of visual stimuli in an â€˜extinguishedâ€™ field. Nature, 1979, 282, 722-724.	13.7	288