## Bruce T Volpe

List of Publications by Year in descending order

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RRUCE T VOLDE

#	Article	IF	CITATIONS
1	The gut microbiota influences blood-brain barrier permeability in mice. Science Translational Medicine, 2014, 6, 263ra158.	12.4	1,589
2	Robot-Assisted Therapy for Long-Term Upper-Limb Impairment after Stroke. New England Journal of Medicine, 2010, 362, 1772-1783.	27.0	1,175
3	A subset of lupus anti-DNA antibodies cross-reacts with the NR2 glutamate receptor in systemic lupus erythematosus. Nature Medicine, 2001, 7, 1189-1193.	30.7	721
4	Movement Smoothness Changes during Stroke Recovery. Journal of Neuroscience, 2002, 22, 8297-8304.	3.6	608
5	Robot-Aided Neurorehabilitation: A Robot for Wrist Rehabilitation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2007, 15, 327-335.	4.9	447
6	Cognition and Immunity. Immunity, 2004, 21, 179-188.	14.3	386
7	Human lupus autoantibodies against NMDA receptors mediate cognitive impairment. Proceedings of the United States of America, 2006, 103, 19854-19859.	7.1	365
8	Information processing of visual stimuli in an â€~extinguished' field. Nature, 1979, 282, 722-724.	27.8	288
9	Immunity and behavior: Antibodies alter emotion. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 678-683.	7.1	264
10	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.	2.9	234
11	Anti–N-methyl-D-aspartate receptor antibodies, cognitive dysfunction, and depression in systemic lupus erythematosus. Arthritis and Rheumatism, 2006, 54, 2505-2514.	6.7	233
12	Intensive Sensorimotor Arm Training Mediated by Therapist or Robot Improves Hemiparesis in Patients With Chronic Stroke. Neurorehabilitation and Neural Repair, 2008, 22, 305-310.	2.9	222
13	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.	7.1	184
14	HMGB1 Mediates Cognitive Impairment in Sepsis Survivors. Molecular Medicine, 2012, 18, 930-937.	4.4	172
15	Neurotoxic autoantibodies mediate congenital cortical impairment of offspring in maternal lupus. Nature Medicine, 2009, 15, 91-96.	30.7	150
16	Robotic Measurement of Arm Movements After Stroke Establishes Biomarkers of Motor Recovery. Stroke, 2014, 45, 200-204.	2.0	132
17	A paradigm shift for rehabilitation robotics. IEEE Engineering in Medicine and Biology Magazine, 2008, 27, 61-70.	0.8	123
18	Lupus antibodies induce behavioral changes mediated by microglia and blocked by ACE inhibitors. Journal of Experimental Medicine, 2018, 215, 2554-2566.	8.5	117

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19	Robotic Devices as Therapeutic and Diagnostic Tools for Stroke Recovery. Archives of Neurology, 2009, 66, 1086-90.	4.5	104
20	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.	2.9	87
21	Polyreactive autoantibodies in systemic lupus erythematosus have pathogenic potential. Journal of Autoimmunity, 2009, 33, 270-274.	6.5	82
22	Selective Impairment of Spatial Cognition Caused by Autoantibodies to the N-Methyl-d-Aspartate Receptor. EBioMedicine, 2015, 2, 755-764.	6.1	71
23	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
24	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.	3.9	57
25	Metabolic and microstructural alterations in the SLE brain correlate with cognitive impairment. JCI Insight, 2019, 4, .	5.0	52
26	Antibodies as Mediators of Brain Pathology. Trends in Immunology, 2015, 36, 709-724.	6.8	47
27	HMGB1 Mediates Anemia of Inflammation in Murine Sepsis Survivors. Molecular Medicine, 2015, 21, 951-958.	4.4	45
28	Evidence for C1q-mediated crosslinking of CD33/LAIR-1 inhibitory immunoreceptors and biological control of CD33/LAIR-1 expression. Scientific Reports, 2017, 7, 270.	3.3	43
29	Female mouse fetal loss mediated by maternal autoantibody. Journal of Experimental Medicine, 2012, 209, 1083-1089.	8.5	42
30	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.	4.4	39
31	Clinical improvement with intensive robot-assisted arm training in chronic stroke is unchanged by supplementary tDCS. Restorative Neurology and Neuroscience, 2019, 37, 167-180.	0.7	38
32	Lupus autoantibodies act as positive allosteric modulators at GluN2A-containing NMDA receptors and impair spatial memory. Nature Communications, 2020, 11, 1403.	12.8	36
33	Brain metabolism and autoantibody titres predict functional impairment in systemic lupus erythematosus. Lupus Science and Medicine, 2015, 2, e000074-e000074.	2.7	34
34	Alterations in Blood-Brain Barrier Permeability in Patients with Systemic Lupus Erythematosus. American Journal of Neuroradiology, 2019, 40, 470-477.	2.4	28
35	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.	2.8	24
36	Regional Brain Metabolism in a Murine Systemic Lupus Erythematosus Model. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1315-1320.	4.3	23

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37	Stroke subtype and motor impairment influence contralesional excitability. Neurology, 2015, 85, 517-520.	1.1	22
38	Preclinical Models of Overwhelming Sepsis Implicate the Neural System that Encodes Contextual Fear Memory. Molecular Medicine, 2016, 22, 789-799.	4.4	22
39	Constitutive Vagus Nerve Activation Modulates Immune Suppression in Sepsis Survivors. Frontiers in Immunology, 2018, 9, 2032.	4.8	22
40	Semantic activation in patients with parkinson's disease. Experimental Aging Research, 1985, 11, 105-107.	1.2	20
41	Dynamic Contrast-Enhanced MRI Reveals Unique Blood-Brain Barrier Permeability Characteristics in the Normal Brain. American Journal of Neuroradiology, 2019, 40, 408-411.	2.4	18
42	Intensive seated robotic training of the ankle in patients with chronic stroke differentially improves gait. NeuroRehabilitation, 2017, 41, 61-68.	1.3	15
43	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.	2.3	14
44	A method to quantify autonomic nervous system function in healthy, able-bodied individuals. Bioelectronic Medicine, 2021, 7, 13.	2.3	14
45	Accurate prediction of clinical stroke scales and improved biomarkers of motor impairment from robotic measurements. PLoS ONE, 2021, 16, e0245874.	2.5	13
46	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.	2.5	13
47	The brain at risk: the sepsis syndrome and lessons from preclinical experiments. Immunologic Research, 2015, 63, 70-74.	2.9	12
48	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.	3.3	12
49	Robotics: A Rehabilitation Modality. Current Physical Medicine and Rehabilitation Reports, 2015, 3, 243-247.	0.8	11
50	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.	2.7	11
51	In utero exposure to maternal anti–aquaporin-4 antibodies alters brain vasculature and neural dynamics in male mouse offspring. Science Translational Medicine, 2022, 14, eabe9726.	12.4	11
52	Quinolinic acid, a kynurenine/tryptophan pathway metabolite, associates with impaired cognitive test performance in systemic lupus erythematosus. Lupus Science and Medicine, 2021, 8, e000559.	2.7	10
53	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.	2.4	9
54	Follicular dendritic cell dysfunction contributes to impaired antigen-specific humoral responses in sepsis-surviving mice. Journal of Clinical Investigation, 2021, 131, .	8.2	8

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55	Intramuscular injection of vectorized-scFvMC1 reduces pathological tau in two different tau transgenic models. Acta Neuropathologica Communications, 2020, 8, 126.	5.2	5
56	Robotic Kinematic measures of the arm in chronic Stroke: part 1 – Motor Recovery patterns from tDCS preceding intensive training. Bioelectronic Medicine, 2021, 7, 20.	2.3	5
57	Robotic Kinematic measures of the arm in chronic Stroke: part 2 – strong correlation with clinical outcome measures. Bioelectronic Medicine, 2021, 7, 21.	2.3	5
58	Cognitive Impairment in SLE: Mechanisms and Therapeutic Approaches. Current Rheumatology Reports, 2021, 23, 25.	4.7	4
59	SARS-CoV-2 and interferon blockade. Molecular Medicine, 2020, 26, 103.	4.4	3
60	Robot-Aided Neuro-Rehabilitation in Stroke: Neuro-Recovery for Thalamic Lesion. , 1999, , .		3
61	Building a rational foundation for neural transplantation. Behavioral and Brain Sciences, 1995, 18, 55-56.	0.7	1
62	Reply:. American Journal of Neuroradiology, 2019, 40, E42-E43.	2.4	1
63	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.	2.4	1
64	Fletcher H. McDowell 1923–2017. Stroke, 2017, 48, 2335-2336.	2.0	0
65	TD-05â€Dynamic contrast enhanced MRI (DCE-MRI) demonstrates hippocampus permeability in SLE. , 2018, , .		0
66	Editorial. Current Opinion in Neurology, 2018, 31, 291-293.	3.6	0
67	<i>Reply:</i> . American Journal of Neuroradiology, 2019, 40, E67-E68.	2.4	0
68	Editorial: Immune mechanisms and brain dysfunction. Current Opinion in Neurology, 2020, 33, 338-340.	3.6	0
69	HMGB1â€mediated microglial activation as a mechanism for cognitive dysfunction in neuropsychiatric	0.5	0