

Bruce T Volpe

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

8,622
citations

136940

32
h-index

114455

63
g-index

74
all docs

74
docs citations

74
times ranked

8290
citing authors

#	ARTICLE	IF	CITATIONS
1	The gut microbiota influences blood-brain barrier permeability in mice. <i>Science Translational Medicine</i> , 2014, 6, 263ra158.	12.4	1,589
2	Robot-Assisted Therapy for Long-Term Upper-Limb Impairment after Stroke. <i>New England Journal of Medicine</i> , 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. <i>Nature Medicine</i> , 2001, 7, 1189-1193.	30.7	721
4	Movement Smoothness Changes during Stroke Recovery. <i>Journal of Neuroscience</i> , 2002, 22, 8297-8304.	3.6	608
5	Robot-Aided Neurorehabilitation: A Robot for Wrist Rehabilitation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2007, 15, 327-335.	4.9	447
6	Cognition and Immunity. <i>Immunity</i> , 2004, 21, 179-188.	14.3	386
7	Human lupus autoantibodies against NMDA receptors mediate cognitive impairment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19854-19859.	7.1	365
8	Information processing of visual stimuli in an "extinguished" field. <i>Nature</i> , 1979, 282, 722-724.	27.8	288
9	Immunity and behavior: Antibodies alter emotion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 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. <i>Neurorehabilitation and Neural Repair</i> , 2010, 24, 62-69.	2.9	234
11	Anti-N-methyl-D-aspartate receptor antibodies, cognitive dysfunction, and depression in systemic lupus erythematosus. <i>Arthritis and Rheumatism</i> , 2006, 54, 2505-2514.	6.7	233
12	Intensive Sensorimotor Arm Training Mediated by Therapist or Robot Improves Hemiparesis in Patients With Chronic Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2008, 22, 305-310.	2.9	222
13	Neurotoxic lupus autoantibodies alter brain function through two distinct mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18569-18574.	7.1	184
14	HMGB1 Mediates Cognitive Impairment in Sepsis Survivors. <i>Molecular Medicine</i> , 2012, 18, 930-937.	4.4	172
15	Neurotoxic autoantibodies mediate congenital cortical impairment of offspring in maternal lupus. <i>Nature Medicine</i> , 2009, 15, 91-96.	30.7	150
16	Robotic Measurement of Arm Movements After Stroke Establishes Biomarkers of Motor Recovery. <i>Stroke</i> , 2014, 45, 200-204.	2.0	132
17	A paradigm shift for rehabilitation robotics. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2008, 27, 61-70.	0.8	123
18	Lupus antibodies induce behavioral changes mediated by microglia and blocked by ACE inhibitors. <i>Journal of Experimental Medicine</i> , 2018, 215, 2554-2566.	8.5	117

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19	Robotic Devices as Therapeutic and Diagnostic Tools for Stroke Recovery. <i>Archives of Neurology</i> , 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. <i>Neurorehabilitation and Neural Repair</i> , 2002, 16, 283-289.	2.9	87
21	Polyreactive autoantibodies in systemic lupus erythematosus have pathogenic potential. <i>Journal of Autoimmunity</i> , 2009, 33, 270-274.	6.5	82
22	Selective Impairment of Spatial Cognition Caused by Autoantibodies to the N-Methyl-d-Aspartate Receptor. <i>EBioMedicine</i> , 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. <i>Arthritis and Rheumatism</i> , 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 Coeruleus. <i>Journal of Neurochemistry</i> , 1995, 65, 502-509.	3.9	57
25	Metabolic and microstructural alterations in the SLE brain correlate with cognitive impairment. <i>JCI Insight</i> , 2019, 4, .	5.0	52
26	Antibodies as Mediators of Brain Pathology. <i>Trends in Immunology</i> , 2015, 36, 709-724.	6.8	47
27	HMGB1 Mediates Anemia of Inflammation in Murine Sepsis Survivors. <i>Molecular Medicine</i> , 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. <i>Scientific Reports</i> , 2017, 7, 270.	3.3	43
29	Female mouse fetal loss mediated by maternal autoantibody. <i>Journal of Experimental Medicine</i> , 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. <i>Molecular Medicine</i> , 2011, 17, 1349-1356.	4.4	39
31	Clinical improvement with intensive robot-assisted arm training in chronic stroke is unchanged by supplementary tDCS. <i>Restorative Neurology and Neuroscience</i> , 2019, 37, 167-180.	0.7	38
32	Lupus autoantibodies act as positive allosteric modulators at GluN2A-containing NMDA receptors and impair spatial memory. <i>Nature Communications</i> , 2020, 11, 1403.	12.8	36
33	Brain metabolism and autoantibody titres predict functional impairment in systemic lupus erythematosus. <i>Lupus Science and Medicine</i> , 2015, 2, e000074-e000074.	2.7	34
34	Alterations in Blood-Brain Barrier Permeability in Patients with Systemic Lupus Erythematosus. <i>American Journal of Neuroradiology</i> , 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. <i>Frontiers in Neuroscience</i> , 2021, 15, 767302.	2.8	24
36	Regional Brain Metabolism in a Murine Systemic Lupus Erythematosus Model. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1315-1320.	4.3	23

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37	Stroke subtype and motor impairment influence contralesional excitability. <i>Neurology</i> , 2015, 85, 517-520.	1.1	22
38	Preclinical Models of Overwhelming Sepsis Implicate the Neural System that Encodes Contextual Fear Memory. <i>Molecular Medicine</i> , 2016, 22, 789-799.	4.4	22
39	Constitutive Vagus Nerve Activation Modulates Immune Suppression in Sepsis Survivors. <i>Frontiers in Immunology</i> , 2018, 9, 2032.	4.8	22
40	Semantic activation in patients with parkinson's disease. <i>Experimental Aging Research</i> , 1985, 11, 105-107.	1.2	20
41	Dynamic Contrast-Enhanced MRI Reveals Unique Blood-Brain Barrier Permeability Characteristics in the Hippocampus in the Normal Brain. <i>American Journal of Neuroradiology</i> , 2019, 40, 408-411.	2.4	18
42	Intensive seated robotic training of the ankle in patients with chronic stroke differentially improves gait. <i>NeuroRehabilitation</i> , 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. <i>Bioelectronic Medicine</i> , 2019, 5, 11.	2.3	14
44	A method to quantify autonomic nervous system function in healthy, able-bodied individuals. <i>Bioelectronic Medicine</i> , 2021, 7, 13.	2.3	14
45	Accurate prediction of clinical stroke scales and improved biomarkers of motor impairment from robotic measurements. <i>PLoS ONE</i> , 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. <i>PLoS ONE</i> , 2016, 11, e0144215.	2.5	13
47	The brain at risk: the sepsis syndrome and lessons from preclinical experiments. <i>Immunologic Research</i> , 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. <i>Scientific Reports</i> , 2020, 10, 14446.	3.3	12
49	Robotics: A Rehabilitation Modality. <i>Current Physical Medicine and Rehabilitation Reports</i> , 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. <i>Lupus Science and Medicine</i> , 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. <i>Science Translational Medicine</i> , 2022, 14, eabe9726.	12.4	11
52	Quinolinic acid, a kynurenine/tryptophan pathway metabolite, associates with impaired cognitive test performance in systemic lupus erythematosus. <i>Lupus Science and Medicine</i> , 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). <i>Frontiers in Neurology</i> , 2018, 9, 853.	2.4	9
54	Follicular dendritic cell dysfunction contributes to impaired antigen-specific humoral responses in sepsis-surviving mice. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	8

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55	Intramuscular injection of vectorized-scFvMC1 reduces pathological tau in two different tau transgenic models. <i>Acta Neuropathologica Communications</i> , 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. <i>Bioelectronic Medicine</i> , 2021, 7, 20.	2.3	5
57	Robotic Kinematic measures of the arm in chronic Stroke: part 2 – strong correlation with clinical outcome measures. <i>Bioelectronic Medicine</i> , 2021, 7, 21.	2.3	5
58	Cognitive Impairment in SLE: Mechanisms and Therapeutic Approaches. <i>Current Rheumatology Reports</i> , 2021, 23, 25.	4.7	4
59	SARS-CoV-2 and interferon blockade. <i>Molecular Medicine</i> , 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. <i>Behavioral and Brain Sciences</i> , 1995, 18, 55-56.	0.7	1
62	Reply:. <i>American Journal of Neuroradiology</i> , 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. <i>Frontiers in Neurology</i> , 2021, 12, 721108.	2.4	1
64	Fletcher H. McDowell 1923–2017. <i>Stroke</i> , 2017, 48, 2335-2336.	2.0	0
65	TD-05 – Dynamic contrast enhanced MRI (DCE-MRI) demonstrates hippocampus permeability in SLE. , 2018, , .		0
66	Editorial. <i>Current Opinion in Neurology</i> , 2018, 31, 291-293.	3.6	0
67	<i>Reply:</i>. <i>American Journal of Neuroradiology</i> , 2019, 40, E67-E68.	2.4	0
68	Editorial: Immune mechanisms and brain dysfunction. <i>Current Opinion in Neurology</i> , 2020, 33, 338-340.	3.6	0
69	HMGB1 – mediated microglial activation as a mechanism for cognitive dysfunction in neuropsychiatric lupus. <i>FASEB Journal</i> , 2022, 36, .	0.5	0