

Niccolo Terrando

List of Publications by Year in descending order

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86
papers

6,978
citations

81900
39
h-index

79698
73
g-index

94
all docs

94
docs citations

94
times ranked

6255
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuroinflammation and Central Sensitization in Chronic and Widespread Pain. <i>Anesthesiology</i> , 2018, 129, 343-366.	2.5	757
2	Role of interleukin-1 β in postoperative cognitive dysfunction. <i>Annals of Neurology</i> , 2010, 68, 360-368.	5.3	623
3	Tumor necrosis factor- α triggers a cytokine cascade yielding postoperative cognitive decline. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 20518-20522.	7.1	600
4	Resolving postoperative neuroinflammation and cognitive decline. <i>Annals of Neurology</i> , 2011, 70, 986-995.	5.3	461
5	Recommendations for the nomenclature of cognitive change associated with anaesthesia and surgeryâ€”2018. <i>British Journal of Anaesthesia</i> , 2018, 121, 1005-1012.	3.4	420
6	Neuroinflammation and Perioperative Neurocognitive Disorders. <i>Anesthesia and Analgesia</i> , 2019, 128, 781-788.	2.2	238
7	Dexmedetomidine provides renoprotection against ischemia-reperfusion injury in mice. <i>Critical Care</i> , 2011, 15, R153.	5.8	224
8	Postoperative Cognitive Dysfunction. <i>Anesthesiology Clinics</i> , 2015, 33, 517-550.	1.4	215
9	The impact of IL-1 modulation on the development of lipopolysaccharide-induced cognitive dysfunction. <i>Critical Care</i> , 2010, 14, R88.	5.8	184
10	Best Practices for Postoperative Brain Health. <i>Anesthesia and Analgesia</i> , 2018, 127, 1406-1413.	2.2	183
11	Neurocognitive Function after Cardiac Surgery. <i>Anesthesiology</i> , 2018, 129, 829-851.	2.5	157
12	Surgery Upregulates High Mobility Group Box-1 and Disrupts the Blood-Brain Barrier causing Cognitive Dysfunction in Aged Rats. <i>CNS Neuroscience and Therapeutics</i> , 2012, 18, 994-1002.	3.9	152
13	Perioperative Cognitive Decline in the Aging Population. <i>Mayo Clinic Proceedings</i> , 2011, 86, 885-893.	3.0	150
14	Perioperative cerebrospinal fluid and plasma inflammatory markers after orthopedic surgery. <i>Journal of Neuroinflammation</i> , 2016, 13, 211.	7.2	134
15	Aspirin-triggered resolvin D1 prevents surgery-induced cognitive decline. <i>FASEB Journal</i> , 2013, 27, 3564-3571.	0.5	126
16	Neuroinflammation after surgery: from mechanisms to therapeutic targets. <i>Nature Immunology</i> , 2020, 21, 1319-1326.	14.5	117
17	Modulation of neuroinflammation and memory dysfunction using percutaneous vagus nerve stimulation in mice. <i>Brain Stimulation</i> , 2019, 12, 19-29.	1.6	113
18	Perioperative Neurocognitive Disorder. <i>Anesthesiology</i> , 2020, 132, 55-68.	2.5	106

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19	Prolonged Neuroinflammation after Lipopolysaccharide Exposure in Aged Rats. <i>PLoS ONE</i> , 2014, 9, e106331.	2.5	93
20	The immune response of the human brain to abdominal surgery. <i>Annals of Neurology</i> , 2017, 81, 572-582.	5.3	87
21	Deferoxamine regulates neuroinflammation and iron homeostasis in a mouse model of postoperative cognitive dysfunction. <i>Journal of Neuroinflammation</i> , 2016, 13, 268.	7.2	83
22	Maresin 1 attenuates neuroinflammation in a mouse model of perioperative neurocognitive disorders. <i>British Journal of Anaesthesia</i> , 2019, 122, 350-360.	3.4	83
23	Systemic HMGB1 Neutralization Prevents Postoperative Neurocognitive Dysfunction in Aged Rats. <i>Frontiers in Immunology</i> , 2016, 7, 441.	4.8	81
24	Surgery Results in Exaggerated and Persistent Cognitive Decline in a Rat Model of the Metabolic Syndrome. <i>Anesthesiology</i> , 2013, 118, 1098-1105.	2.5	80
25	Neurovascular and immune mechanisms that regulate postoperative delirium superimposed on dementia. <i>Alzheimer's and Dementia</i> , 2020, 16, 734-749.	0.8	73
26	Inorganic nitrite attenuates NADPH oxidase-derived superoxide generation in activated macrophages via a nitric oxide-dependent mechanism. <i>Free Radical Biology and Medicine</i> , 2015, 83, 159-166.	2.9	69
27	Impaired Resolution of Inflammation in Alzheimer's Disease: A Review. <i>Frontiers in Immunology</i> , 2017, 8, 1464.	4.8	68
28	Distinct Analgesic Actions of DHA and DHA-Derived Specialized Pro-Resolving Mediators on Post-operative Pain After Bone Fracture in Mice. <i>Frontiers in Pharmacology</i> , 2018, 9, 412.	3.5	68
29	Stimulation of the $\alpha 7$ Nicotinic Acetylcholine Receptor Protects against Neuroinflammation after Tibia Fracture and Endotoxemia in Mice. <i>Molecular Medicine</i> , 2014, 20, 667-675.	4.4	65
30	A systematic review of methodology applied during preclinical anesthetic neurotoxicity studies: important issues and lessons relevant to the design of future clinical research. <i>Paediatric Anaesthesia</i> , 2016, 26, 6-36.	1.1	62
31	Dysfunction of Inflammation-Resolving Pathways Is Associated with Exaggerated Postoperative Cognitive Decline in a Rat Model of the Metabolic Syndrome. <i>Molecular Medicine</i> , 2012, 18, 1481-1490.	4.4	61
32	Dietary nitrate attenuates renal ischemia-reperfusion injuries by modulation of immune responses and reduction of oxidative stress. <i>Redox Biology</i> , 2017, 13, 320-330.	9.0	57
33	Orthopedic surgery modulates neuropeptides and BDNF expression at the spinal and hippocampal levels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6686-E6695.	7.1	56
34	Acute and Long-Term Effects of Brief Sevoflurane Anesthesia During the Early Postnatal Period in Rats. <i>Toxicological Sciences</i> , 2016, 149, 121-133.	3.1	55
35	Neural Control of Inflammation. <i>Anesthesiology</i> , 2016, 124, 1174-1189.	2.5	53
36	Intrathecal administration of antisense oligonucleotide against p38 α but not p38 β MAP kinase isoform reduces neuropathic and postoperative pain and TLR4-induced pain in male mice. <i>Brain, Behavior, and Immunity</i> , 2018, 72, 34-44.	4.1	52

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37	Complement activation contributes to perioperative neurocognitive disorders in mice. <i>Journal of Neuroinflammation</i> , 2018, 15, 254.	7.2	48
38	Xenon and Sevoflurane Provide Analgesia during Labor and Fetal Brain Protection in a Perinatal Rat Model of Hypoxia-Ischemia. <i>PLoS ONE</i> , 2012, 7, e37020.	2.5	47
39	Disrupted Neuroglial Metabolic Coupling after Peripheral Surgery. <i>Journal of Neuroscience</i> , 2018, 38, 452-464.	3.6	44
40	The INTUIT Study: Investigating Neuroinflammation Underlying Postoperative Cognitive Dysfunction. <i>Journal of the American Geriatrics Society</i> , 2019, 67, 794-798.	2.6	43
41	Anatomical and clinical implications of vagal modulation of the spleen. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 112, 363-373.	6.1	42
42	Behavioral disturbances in adult mice following neonatal virus infection or kynurenine treatment – Role of brain kynurenic acid. <i>Brain, Behavior, and Immunity</i> , 2014, 36, 80-89.	4.1	37
43	Impact of COVID-19 on the Onset and Progression of Alzheimer's Disease and Related Dementias: A Roadmap for Future Research. <i>Alzheimer's and Dementia</i> , 2022, 18, 1038-1046.	0.8	34
44	A roadmap to advance delirium research: Recommendations from the NIDUS Scientific Think Tank. <i>Alzheimer's and Dementia</i> , 2020, 16, 726-733.	0.8	33
45	A Mouse Model of Orthopedic Surgery to Study Postoperative Cognitive Dysfunction and Tissue Regeneration. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	31
46	Orthopedic Surgery Triggers Attention Deficits in a Delirium-Like Mouse Model. <i>Frontiers in Immunology</i> , 2019, 10, 2675.	4.8	31
47	Specialized Pro-Resolving Mediators from Omega-3 Fatty Acids Improve Amyloid- β Phagocytosis and Regulate Inflammation in Patients with Minor Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , 2015, 48, 293-301.	2.6	30
48	Toll-like receptor signaling: Common pathways that drive cardiovascular disease and rheumatoid arthritis. <i>Arthritis Care and Research</i> , 2011, 63, 500-511.	3.4	28
49	^{18}F -florbetapir Positron Emission Tomography – determined Cerebral β -Amyloid Deposition and Neurocognitive Performance after Cardiac Surgery. <i>Anesthesiology</i> , 2018, 128, 728-744.	2.5	28
50	Neuroprotective Effects of Annexin A1 Tripeptide after Deep Hypothermic Circulatory Arrest in Rats. <i>Frontiers in Immunology</i> , 2017, 8, 1050.	4.8	27
51	Genetic Abrogation of Adenosine A ₃ Receptor Prevents Uninephrectomy and High Salt-Induced Hypertension. <i>Journal of the American Heart Association</i> , 2016, 5, .	3.7	25
52	The broad spectrum mixed-lineage kinase 3 inhibitor URM-099 prevents acute microgliosis and cognitive decline in a mouse model of perioperative neurocognitive disorders. <i>Journal of Neuroinflammation</i> , 2019, 16, 193.	7.2	25
53	Intravenous Lidocaine Does Not Improve Neurologic Outcomes after Cardiac Surgery. <i>Anesthesiology</i> , 2019, 130, 958-970.	2.5	24
54	Pyrrrolidine Dithiocarbamate Prevents Neuroinflammation and Cognitive Dysfunction after Endotoxemia in Rats. <i>Frontiers in Aging Neuroscience</i> , 2016, 8, 175.	3.4	23

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55	Recommendations for the nomenclature of cognitive change associated with anaesthesia and surgeryâ€”2018. <i>Acta Anaesthesiologica Scandinavica</i> , 2018, 62, 1473-1480.	1.6	19
56	Annexin A1 Bioactive Peptide Promotes Resolution of Neuroinflammation in a Rat Model of Exsanguinating Cardiac Arrest Treated by Emergency Preservation and Resuscitation. <i>Frontiers in Neuroscience</i> , 2019, 13, 608.	2.8	19
57	Editorial: Neuro-Immune Interactions in Inflammation and Autoimmunity. <i>Frontiers in Immunology</i> , 2018, 9, 772.	4.8	15
58	Protective effects of omega-3 fatty acids in a bloodâ€”brain barrier-on-chip model and on postoperative delirium-like behaviour in mice. <i>British Journal of Anaesthesia</i> , 2023, 130, e370-e380.	3.4	15
59	A clinically relevant model of perinatal global ischemic brain damage in rats. <i>Brain Research</i> , 2011, 1383, 317-323.	2.2	13
60	Targeting microglia to mitigate perioperative neurocognitive disorders. <i>British Journal of Anaesthesia</i> , 2020, 125, 229-232.	3.4	10
61	Cerebrospinal Fluid Proteome Changes in Older Non-Cardiac Surgical Patients with Postoperative Cognitive Dysfunction. <i>Journal of Alzheimer's Disease</i> , 2021, 80, 1281-1297.	2.6	9
62	Annexin-A1 Tripeptide Attenuates Surgery-Induced Neuroinflammation and Memory Deficits Through Regulation the NLRP3 Inflammasome. <i>Frontiers in Immunology</i> , 2022, 13, .	4.8	8
63	Immunomodulatory lipid mediator profiling of cerebrospinal fluid following surgery in older adults. <i>Scientific Reports</i> , 2021, 11, 3047.	3.3	5
64	The Evolving Role of Specialized Pro-resolving Mediators in Modulating Neuroinflammation in Perioperative Neurocognitive Disorders. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1161, 27-35.	1.6	5
65	Dietary Choline Protects Against Cognitive Decline After Surgery in Mice. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 671506.	3.7	5
66	URMCâ€”099 prophylaxis prevents hippocampal vascular vulnerability and synaptic damage in an orthopedic model of delirium superimposed on dementia. <i>FASEB Journal</i> , 2022, 36, e22343.	0.5	5
67	Does General Anesthesia Promote Alzheimerâ€™s disease?. <i>Journal of Anesthesia & Clinical Research</i> , 2012, 03, .	0.1	3
68	Postoperative Cognitive Dysfunction. , 2019, , 24-33.		2
69	Breaking barriers in postoperative delirium. <i>British Journal of Anaesthesia</i> , 2022, , .	3.4	2
70	P4-309: BRAIN B-AMYLOID IN COGNITIVELY NORMAL SUBJECTS IS A PREDICTOR OF EARLY POSTOPERATIVE COGNITIVE DYSFUNCTION. , 2014, 10, P898-P899.		1
71	Xenon for traumatic brain injury: a noble step forward and a wet blanket. <i>British Journal of Anaesthesia</i> , 2019, 123, 9-11.	3.4	1
72	Comorbidities and Postoperative Neurocognitive Disorder. , 2019, , 115-122.		1

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73	This Is Your Brain on (Low) Glucose. Trends in Neurosciences, 2020, 43, 933-935.	8.6	1
74	The Role of Inflammation in Postoperative Cognitive Dysfunction. Journal of Anesthesia and Perioperative Medicine, 2014, 1, 97-103.	0.2	1
75	F3-01-02: The neurochemistry of delirium. , 2015, 11, P211-P212.		0
76	One to rule them all?. British Journal of Anaesthesia, 2018, 120, 428-430.	3.4	0
77	Perioperative Neurocognitive Disorder Mitigation Strategies. , 2019, , 190-198.		0
78	Postoperative Cognitive Improvement. , 2019, , 34-47.		0
79	Animal Models and Cognitive Testing of Perioperative Neurocognitive Disorders. , 2019, , 61-81.		0
80	Pharmacologic (Receptor-Based) Mechanisms of Perioperative Neurocognitive Disorder. , 2019, , 92-100.		0
81	Surgery and the Inflammatory Response. , 2019, , 101-114.		0
82	Biomarkers of Postoperative Cognitive Dysfunction: Finding the Signal amid the Noise. , 2019, , 134-151.		0
83	Neuroimaging in the Perioperative Neurocognitive Disorders. , 2019, , 152-166.		0
84	F5â€œ01â€œ01: THE ROLE OF LIPID MEDIATORS IN NEUROINFLAMMATION AND PREOPERATIVE NEUROCOGNITIVE DISORDERS. Alzheimer's and Dementia, 2019, 15, .	0.8	0
85	Short Postnatal Exposure to Sevoflurane Does Not Cause Evident Neurotoxicity in Rats. Journal of Anesthesia and Perioperative Medicine, 2016, 3, 57-62.	0.2	0
86	Percutaneous vagus nerve stimulation modulates glia activity and rescues acute AÎ² deposition in a mouse model of delirium superimposed on dementia.. Alzheimer's and Dementia, 2021, 17 Suppl 3, e056571.	0.8	0