

Nicola Marchi

List of Publications by Year in descending order

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113
papers

6,726
citations

46918

47
h-index

64668

79
g-index

119
all docs

119
docs citations

119
times ranked

7340
citing authors

#	ARTICLE	IF	CITATIONS
1	Seizure-Promoting Effect of Blood-Brain Barrier Disruption. <i>Epilepsia</i> , 2007, 48, 732-742.	2.6	442
2	The role of shear stress in Blood-Brain Barrier endothelial physiology. <i>BMC Neuroscience</i> , 2011, 12, 40.	0.8	325
3	Antagonism of peripheral inflammation reduces the severity of status epilepticus. <i>Neurobiology of Disease</i> , 2009, 33, 171-181.	2.1	270
4	Serum S100 β . <i>Cancer</i> , 2003, 97, 2806-2813.	2.0	249
5	Consequences of Repeated Blood-Brain Barrier Disruption in Football Players. <i>PLoS ONE</i> , 2013, 8, e56805.	1.1	246
6	Peripheral markers of blood-brain barrier damage. <i>Clinica Chimica Acta</i> , 2004, 342, 1-12.	0.5	207
7	Blood-brain barrier dysfunction and epilepsy: Pathophysiologic role and therapeutic approaches. <i>Epilepsia</i> , 2012, 53, 1877-1886.	2.6	199
8	Inflammatory pathways of seizure disorders. <i>Trends in Neurosciences</i> , 2014, 37, 55-65.	4.2	196
9	Inhibition of the Multidrug Transporter P-Glycoprotein Improves Seizure Control in Phenytoin-treated Chronic Epileptic Rats. <i>Epilepsia</i> , 2006, 47, 672-680.	2.6	191
10	Peripheral markers of brain damage and blood-brain barrier dysfunction. <i>Restorative Neurology and Neuroscience</i> , 2003, 21, 109-21.	0.4	163
11	In Vivo and In Vitro Effects of Pilocarpine: Relevance to Ictogenesis. <i>Epilepsia</i> , 2007, 48, 1934-1946.	2.6	151
12	Development of a Humanized In Vitro Blood-Brain Barrier Model to Screen for Brain Penetration of Antiepileptic Drugs. <i>Epilepsia</i> , 2007, 48, 505-516.	2.6	147
13	Efficacy of Anti-Inflammatory Therapy in a Model of Acute Seizures and in a Population of Pediatric Drug Resistant Epileptics. <i>PLoS ONE</i> , 2011, 6, e18200.	1.1	130
14	Significance of MDR1 and multiple drug resistance in refractory human epileptic brain. <i>BMC Medicine</i> , 2004, 2, 37.	2.3	128
15	A Dynamic <i>in vitro</i> BBB Model for the Study of Immune Cell Trafficking into the Central Nervous System. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 767-777.	2.4	119
16	Cerebrovascular pathology during the progression of experimental Alzheimer's disease. <i>Neurobiology of Disease</i> , 2016, 88, 107-117.	2.1	107
17	IFN- γ , IL-17A, or zonulin rapidly increase the permeability of the blood-brain and small intestinal epithelial barriers: Relevance for neuro-inflammatory diseases. <i>Biochemical and Biophysical Research Communications</i> , 2018, 507, 274-279.	1.0	107
18	Blood-brain barrier damage, but not parenchymal white blood cells, is a hallmark of seizure activity. <i>Brain Research</i> , 2010, 1353, 176-186.	1.1	98

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19	Pattern of P450 expression at the human bloodâ€“brain barrier: Roles of epileptic condition and laminar flow. <i>Epilepsia</i> , 2010, 51, 1408-1417.	2.6	96
20	HITting the brain with exercise: mechanisms, consequences and practical recommendations. <i>Journal of Physiology</i> , 2020, 598, 2513-2530.	1.3	92
21	Serum Transthyretin Monomer as a Possible Marker of Blood-to-CSF Barrier Disruption. <i>Journal of Neuroscience</i> , 2003, 23, 1949-1955.	1.7	87
22	Nanomaterial-mediated CNS delivery of diagnostic and therapeutic agents. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 605-613.	6.6	87
23	A Pilot Study on Brain-to-Plasma Partition of 10,11-Dihydro-10-hydroxy-5H-dibenzo(b,f)azepine-5-carboxamide and MDR1 Brain Expression in Epilepsy Patients Not Responding to Oxcarbazepine. <i>Epilepsia</i> , 2005, 46, 1613-1619.	2.6	86
24	SEMA4D compromises bloodâ€“brain barrier, activates microglia, and inhibits remyelination in neurodegenerative disease. <i>Neurobiology of Disease</i> , 2015, 73, 254-268.	2.1	84
25	Bloodâ€“brain barrier damage and brain penetration of antiepileptic drugs: Role of serum proteins and brain edema. <i>Epilepsia</i> , 2009, 50, 664-677.	2.6	81
26	Inflammatory events in hippocampal slice cultures prime neuronal susceptibility to excitotoxic injury: a crucial role of P2X ₇ receptorâ€“mediated ILâ€“1 β release. <i>Journal of Neurochemistry</i> , 2008, 106, 271-280.	2.1	78
27	Vascular and Parenchymal Mechanisms in Multiple Drug Resistance: a Lesson from Human Epilepsy. <i>Current Drug Targets</i> , 2003, 4, 297-304.	1.0	75
28	Acute induction of epileptiform discharges by pilocarpine in the in vitro isolated guinea-pig brain requires enhancement of bloodâ€“brain barrier permeability. <i>Neuroscience</i> , 2008, 151, 303-312.	1.1	74
29	Management of the patient with medically refractory epilepsy. <i>Expert Review of Neurotherapeutics</i> , 2009, 9, 1791-1802.	1.4	72
30	Significance of Ubiquitin Carboxy-Terminal Hydrolase L1 Elevations in Athletes after Sub-Concussive Head Hits. <i>PLoS ONE</i> , 2014, 9, e96296.	1.1	72
31	Cellular localization and functional significance of CYP3A4 in the human epileptic brain. <i>Epilepsia</i> , 2011, 52, 562-571.	2.6	70
32	Cerebrovascular Remodeling and Epilepsy. <i>Neuroscientist</i> , 2013, 19, 304-312.	2.6	69
33	Serum S100B: A Potential Biomarker for Suicidality in Adolescents?. <i>PLoS ONE</i> , 2010, 5, e11089.	1.1	67
34	Peripheral detection of S100 β during cardiothoracic surgery: what are we really measuring?. <i>Annals of Thoracic Surgery</i> , 2004, 78, 46-52.	0.7	65
35	Blood-Brain Barrier P450 Enzymes and Multidrug Transporters in Drug Resistance: A Synergistic Role in Neurological Diseases. <i>Current Drug Metabolism</i> , 2011, 12, 742-749.	0.7	65
36	The pericyteâ€“glia interface at the bloodâ€“brain barrier. <i>Clinical Science</i> , 2018, 132, 361-374.	1.8	63

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37	Modulation of peripheral cytotoxic cells and ictogenesis in a model of seizures. <i>Epilepsia</i> , 2011, 52, 1627-1634.	2.6	61
38	Prenatal exposure to thalidomide, altered vasculogenesis, and CNS malformations. <i>Neuroscience</i> , 2006, 142, 267-283.	1.1	60
39	S100 β as a predictor of brain metastases. <i>Cancer</i> , 2005, 104, 817-824.	2.0	59
40	The Etiological Role of Blood-Brain Barrier Dysfunction in Seizure Disorders. <i>Cardiovascular Psychiatry and Neurology</i> , 2011, 2011, 1-9.	0.8	58
41	Blood-brain barrier, bulk flow, and interstitial clearance in epilepsy. <i>Journal of Neuroscience Methods</i> , 2016, 260, 118-124.	1.3	58
42	Topographic Reorganization of Cerebrovascular Mural Cells under Seizure Conditions. <i>Cell Reports</i> , 2018, 23, 1045-1059.	2.9	57
43	Seizure progression and inflammatory mediators promote pericytosis and pericyte-microglia clustering at the cerebrovasculature. <i>Neurobiology of Disease</i> , 2018, 113, 70-81.	2.1	56
44	HIV Neuroinfection and Alzheimer's Disease: Similarities and Potential Links?. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 307.	1.8	56
45	Redistribution of PDGFR β cells and NG2 ⁺ pericytes at the cerebrovasculature after status epilepticus. <i>Neurobiology of Disease</i> , 2014, 71, 151-158.	2.1	55
46	Selective and persistent upregulation of mdr1b mRNA and P-glycoprotein in the parahippocampal cortex of chronic epileptic rats. <i>Epilepsy Research</i> , 2004, 60, 203-213.	0.8	54
47	Blood-Brain Barrier Damage Induces Release of β 2-Macroglobulin. <i>Molecular and Cellular Proteomics</i> , 2003, 2, 234-241.	2.5	53
48	A role for inflammation in status epilepticus is revealed by a review of current therapeutic approaches. <i>Epilepsia</i> , 2013, 54, 30-32.	2.6	51
49	Determinants of drug brain uptake in a rat model of seizure-associated malformations of cortical development. <i>Neurobiology of Disease</i> , 2006, 24, 429-442.	2.1	47
50	Pathophysiological implications of neurovascular P450 in brain disorders. <i>Drug Discovery Today</i> , 2016, 21, 1609-1619.	3.2	46
51	Overexpression of pregnane X and glucocorticoid receptors and the regulation of cytochrome P450 in human epileptic brain endothelial cells. <i>Epilepsia</i> , 2017, 58, 576-585.	2.6	45
52	Improving the clinical management of traumatic brain injury through the pharmacokinetic modeling of peripheral blood biomarkers. <i>Fluids and Barriers of the CNS</i> , 2016, 13, 21.	2.4	40
53	Zika Virus Infection Promotes Local Inflammation, Cell Adhesion Molecule Upregulation, and Leukocyte Recruitment at the Blood-Brain Barrier. <i>MBio</i> , 2020, 11, .	1.8	40
54	Is Peripheral Immunity Regulated by Blood-Brain Barrier Permeability Changes?. <i>PLoS ONE</i> , 2014, 9, e101477.	1.1	38

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55	Expression and functional relevance of <i>UGT1A4</i> in a cohort of human drug-resistant epileptic brains. <i>Epilepsia</i> , 2013, 54, 1562-1570.	2.6	37
56	PDGFR β ⁺ cells in human and experimental neuro-vascular dysplasia and seizures. <i>Neuroscience</i> , 2015, 306, 18-27.	1.1	37
57	A pericyte-glia scarring develops at the leaky capillaries in the hippocampus during seizure activity. <i>Epilepsia</i> , 2019, 60, 1399-1411.	2.6	37
58	Peripheral Blood and Salivary Biomarkers of Blood-Brain Barrier Permeability and Neuronal Damage: Clinical and Applied Concepts. <i>Frontiers in Neurology</i> , 2020, 11, 577312.	1.1	36
59	ProApolipoprotein A1. <i>Cancer</i> , 2008, 112, 1313-1324.	2.0	35
60	Transporters in Drug-Refractory Epilepsy: Clinical Significance. <i>Clinical Pharmacology and Therapeutics</i> , 2010, 87, 13-15.	2.3	35
61	Microglia proliferation plays distinct roles in acquired epilepsy depending on disease stages. <i>Epilepsia</i> , 2021, 62, 1931-1945.	2.6	33
62	Differential impact of dose-range glyphosate on locomotor behavior, neuronal activity, glyo-cerebrovascular structures, and transcript regulations in zebrafish larvae. <i>Chemosphere</i> , 2021, 267, 128986.	4.2	31
63	Cerebrovascular heterogeneity and neuronal excitability. <i>Neuroscience Letters</i> , 2018, 667, 75-83.	1.0	28
64	Neurovascular unit dysfunction as a mechanism of seizures and epilepsy during aging. <i>Epilepsia</i> , 2022, 63, 1297-1313.	2.6	27
65	Hepatic and hippocampal cytochrome P450 enzyme overexpression during spontaneous recurrent seizures. <i>Epilepsia</i> , 2018, 59, 123-134.	2.6	24
66	Early cerebrovascular and long-term neurological modifications ensue following juvenile mild traumatic brain injury in male mice. <i>Neurobiology of Disease</i> , 2020, 141, 104952.	2.1	24
67	Sertraline-induced potentiation of the CYP3A4-dependent neurotoxicity of carbamazepine: An in vitro study. <i>Epilepsia</i> , 2015, 56, 439-449.	2.6	23
68	The blood-brain barrier hypothesis in drug resistant epilepsy. <i>Brain</i> , 2012, 135, e211-e211.	3.7	22
69	Effect of status epilepticus and antiepileptic drugs on CYP2E1 brain expression. <i>Neuroscience</i> , 2014, 281, 124-134.	1.1	22
70	Competitive apnea and its effect on the human brain: focus on the redox regulation of blood-brain barrier permeability and neuronal parenchymal integrity. <i>FASEB Journal</i> , 2018, 32, 2305-2314.	0.2	22
71	Is Salivary S100B a Biomarker of Traumatic Brain Injury? A Pilot Study. <i>Frontiers in Neurology</i> , 2020, 11, 528.	1.1	22
72	Multimodal investigations of trans-endothelial cell trafficking under condition of disrupted blood-brain barrier integrity. <i>BMC Neuroscience</i> , 2010, 11, 34.	0.8	21

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73	In vitro responsiveness of human-drug-resistant tissue to antiepileptic drugs: Insights into the mechanisms of pharmacoresistance. <i>Brain Research</i> , 2006, 1086, 201-213.	1.1	20
74	A pro-convulsive carbamazepine metabolite: Quinolinic acid in drug resistant epileptic human brain. <i>Neurobiology of Disease</i> , 2012, 46, 692-700.	2.1	20
75	Central nervous system lymphatic unit, immunity, and epilepsy: Is there a link?. <i>Epilepsia Open</i> , 2019, 4, 30-39.	1.3	20
76	The GR α ANXA1 pathway is a pathological player and a candidate target in epilepsy. <i>FASEB Journal</i> , 2019, 33, 13998-14009.	0.2	19
77	Seizure activity triggers tau hyperphosphorylation and amyloidogenic pathways. <i>Epilepsia</i> , 2022, 63, 919-935.	2.6	19
78	Combined effects of prenatal inhibition of vasculogenesis and neurogenesis on rat brain development. <i>Neurobiology of Disease</i> , 2008, 32, 499-509.	2.1	18
79	The mGlu7 receptor provides protective effects against epileptogenesis and epileptic seizures. <i>Neurobiology of Disease</i> , 2019, 129, 13-28.	2.1	18
80	Machine Learning Analysis of the Cerebrovascular Thrombi Proteome in Human Ischemic Stroke: An Exploratory Study. <i>Frontiers in Neurology</i> , 2020, 11, 575376.	1.1	18
81	Peripheral Routes to Neurodegeneration: Passing Through the Blood–Brain Barrier. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 3.	1.7	18
82	Hypoxemia increases blood-brain barrier permeability during extreme apnea in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1120-1135.	2.4	18
83	Small Vessel Ischemic Disease of the Brain and Brain Metastases in Lung Cancer Patients. <i>PLoS ONE</i> , 2009, 4, e7242.	1.1	17
84	Pregnane X Receptor Deletion Modifies Recognition Memory and Electroencephalographic Activity. <i>Neuroscience</i> , 2018, 370, 130-138.	1.1	16
85	Modulation of glucocorticoid receptor in human epileptic endothelial cells impacts drug biotransformation in an in vitro blood–brain barrier model. <i>Epilepsia</i> , 2018, 59, 2049-2060.	2.6	16
86	Neurovascular Drug Biotransformation Machinery in Focal Human Epilepsies: Brain CYP3A4 Correlates with Seizure Frequency and Antiepileptic Drug Therapy. <i>Molecular Neurobiology</i> , 2019, 56, 8392-8407.	1.9	16
87	Evidence for Status Epilepticus and Pro-Inflammatory Changes after Intranasal Kainic Acid Administration in Mice. <i>PLoS ONE</i> , 2016, 11, e0150793.	1.1	16
88	Lack of CAR impacts neuronal function and cerebrovascular integrity in vivo. <i>Experimental Neurology</i> , 2016, 283, 39-48.	2.0	14
89	Perinatal exposure to a dietary pesticide cocktail does not increase susceptibility to high-fat diet-induced metabolic perturbations at adulthood but modifies urinary and fecal metabolic fingerprints in C57Bl6/J mice. <i>Environment International</i> , 2020, 144, 106010.	4.8	14
90	Robust and Gradient Thickness Porous Membranes for In Vitro Modeling of Physiological Barriers. <i>Advanced Materials Technologies</i> , 2020, 5, 2000474.	3.0	13

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91	Constitutive Androstane Receptor: A Peripheral and a Neurovascular Stress or Environmental Sensor. <i>Cells</i> , 2020, 9, 2426.	1.8	13
92	Experimental Myocardial Infarction Elicits Time-Dependent Patterns of Vascular Hypoxia in Peripheral Organs and in the Brain. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 615507.	1.1	13
93	Dimorphic metabolic and endocrine disorders in mice lacking the constitutive androstane receptor. <i>Scientific Reports</i> , 2019, 9, 20169.	1.6	10
94	Gravitational Transitions Increase Posterior Cerebral Perfusion and Systemic Oxidative-nitrosative Stress: Implications for Neurovascular Unit Integrity. <i>Neuroscience</i> , 2020, 441, 142-160.	1.1	9
95	Life-long Dietary Pesticide Cocktail Induces Astrogliosis Along with Behavioral Adaptations and Activates p450 Metabolic Pathways. <i>Neuroscience</i> , 2020, 446, 225-237.	1.1	8
96	Neurovascular multiparametric MRI defines epileptogenic and seizure propagation regions in experimental mesiotemporal lobe epilepsy. <i>Epilepsia</i> , 2021, 62, 1244-1255.	2.6	8
97	Varying modalities of perinatal exposure to a pesticide cocktail elicit neurological adaptations in mice and zebrafish. <i>Environmental Pollution</i> , 2021, 278, 116755.	3.7	8
98	Concussion history in rugby union players is associated with depressed cerebrovascular reactivity and cognition. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021, 31, 2291-2299.	1.3	7
99	Diagnostic biomarker kinetics: how brain-derived biomarkers distribute through the human body, and how this affects their diagnostic significance: the case of S100B. <i>Fluids and Barriers of the CNS</i> , 2022, 19, 32.	2.4	7
100	Longitudinal & In Vivo Imaging of the Cerebrovasculature: Relevance to CNS Diseases. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	6
101	COPD is deleterious for pericytes: implications during training-induced angiogenesis in skeletal muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H1142-H1151.	1.5	5
102	Chronic Glucocorticoids Consumption Triggers and Worsens Experimental Alzheimer's Disease-Like Pathology by Detrimental Immune Modulations. <i>Neuroendocrinology</i> , 2022, 112, 982-997.	1.2	5
103	Experimental status epilepticus, COX-2 and BDNF: Connecting the dots. <i>Epilepsia Open</i> , 2021, 6, 466-467.	1.3	2
104	Experimental Models of Inflammation in Epilepsy Research. , 2017, , 961-974.		1
105	Blood-Brain Barrier in Disease States. , 2019, , 21-37.		1
106	Drug Permeation Across the Fetal Maternal Barrier. , 2009, , 153-170.		1
107	INFLAMMATION Cerebrovascular Diseases, Seizures, and Epilepsy. , 2009, , 574-584.		0
108	Factors Modulating Seizure Susceptibility. , 2010, , 193-201.		0

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109	Pro- and Anti-inflammatory Neurovascular Processes in Epilepsy: A Fragile and Dynamic Equilibrium. Agents and Actions Supplements, 2021, , 1-20.	0.2	0
110	ANTIPILEPTIC DRUGS Pathways of Drug Diffusion into the Epileptic Brain. , 2009, , 79-90.		0
111	Bloodâ€“Brain Barrier, Blood Flow, Neoplasms and Epilesy. , 2010, , 21-34.		0
112	gravitational Transitions Increase Blood-brain Barrier Permeability In Humans. Medicine and Science in Sports and Exercise, 2020, 52, 780-781.	0.2	0
113	Significance of developmental meningeal lymphatic dysfunction in experimental post-traumatic injury. Brain, Behavior, & Immunity - Health, 2022, , 100466.	1.3	0