Mario I Romero

List of Publications by Year
in descending order

87 papers	4,049 citations	257357 24 h-index	123376 61 g-index
91 all docs	91 docs citations	91 times ranked	6157 citing authors

#	Article	IF	Citations
1	Carbon nanotube coating improves neuronal recordings. Nature Nanotechnology, 2008, 3, 434-439.	15.6	655
2	Ablation of NF1 function in neurons induces abnormal development of cerebral cortex and reactive gliosis in the brain. Genes and Development, 2001, 15, 859-876.	2.7	520
3	3D printing of layered brain-like structures using peptide modified gellan gum substrates. Biomaterials, 2015, 67, 264-273.	5.7	357
4	Ephrin-B3 is a myelin-based inhibitor of neurite outgrowth. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10694-10699.	3.3	270
5	Forward Signaling Mediated by Ephrin-B3 Prevents Contralateral Corticospinal Axons from Recrossing the Spinal Cord Midline. Neuron, 2001, 29, 85-97.	3.8	206
6	Functional Regeneration of Chronically Injured Sensory Afferents into Adult Spinal Cord after Neurotrophin Gene Therapy. Journal of Neuroscience, 2001, 21, 8408-8416.	1.7	178
7	Extensive Sprouting of Sensory Afferents and Hyperalgesia Induced by Conditional Expression of Nerve Growth Factor in the Adult Spinal Cord. Journal of Neuroscience, 2000, 20, 4435-4445.	1.7	163
8	Robust cell migration and neuronal growth on pristine carbon nanotube sheets and yarns. Journal of Biomaterials Science, Polymer Edition, 2007, 18, 1245-1261.	1.9	154
9	Highâ€Performance Grapheneâ€Fiberâ€Based Neural Recording Microelectrodes. Advanced Materials, 2019, 31, e1805867.	11.1	122
10	Biocompatible SU-8-Based Microprobes for Recording Neural Spike Signals From Regenerated Peripheral Nerve Fibers. IEEE Sensors Journal, 2008, 8, 1830-1836.	2.4	97
11	Pain Inhibition by Optogenetic Activation of Specific Anterior Cingulate Cortical Neurons. PLoS ONE, 2015, 10, e0117746.	1.1	76
12	The zinc finger transcription factor Klf7 is required for TrkA gene expression and development of nociceptive sensory neurons. Genes and Development, 2005, 19, 1354-1364.	2.7	73
13	Neurotrophin-3 Is Required for Appropriate Establishment of Thalamocortical Connections. Neuron, 2002, 36, 623-634.	3.8	71
14	Thin Film Multi-Electrode Softening Cuffs for Selective Neuromodulation. Scientific Reports, 2018, 8, 16390.	1.6	69
15	Reelin induces EphB activation. Cell Research, 2013, 23, 473-490.	5.7	62
16	A Sub-millimeter, Inductively Powered Neural Stimulator. Frontiers in Neuroscience, 2017, 11, 659.	1.4	62
17	Enhancing plasticity in central networks improves motor and sensory recovery after nerve damage. Nature Communications, 2019, 10, 5782.	5.8	59
18	Early Interfaced Neural Activity from Chronic Amputated Nerves. Frontiers in Neuroengineering, 2009, 2, 5.	4.8	48

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19	Material considerations for peripheral nerve interfacing. MRS Bulletin, 2012, 37, 573-580.	1.7	41
20	Adenoviral gene transfer into the normal and injured spinal cord: enhanced transgene stability by combined administration of temperature-sensitive virus and transient immune blockade. Gene Therapy, 1998, 5, 1612-1621.	2.3	39
21	Quantification of functional near infraredâ€¨spectroscopy to assess cortical reorganization â€¨in children with cerebral palsy. Optics Express, 2010, 18, 25973.	1.7	37
22	Modality-Specific Axonal Regeneration: Toward Selective Regenerative Neural Interfaces. Frontiers in Neuroengineering, 2011, 4, 11.	4.8	34
23	Adult mouse sensory neurons on microelectrode arrays exhibit increased spontaneous and stimulus-evoked activity in the presence of interleukin-6. Journal of Neurophysiology, 2018, 120, 1374-1385.	0.9	32
24	Glial-derived growth factor and pleiotrophin synergistically promote axonal regeneration in critical nerve injuries. Acta Biomaterialia, 2018, 78, 165-177.	4.1	30
25	Adenoviral-mediated gene transfer to enhance neuronal survival, growth, and regeneration. , 1999, 55, 147-157.		28
26	Deletion of Nf1 in Neurons Induces Increased Axon Collateral Branching after Dorsal Root Injury. Journal of Neuroscience, 2007, 27, 2124-2134.	1.7	27
27	Flat electrode contacts for vagus nerve stimulation. PLoS ONE, 2019, 14, e0215191.	1.1	25
28	Peripheral Nerve Repair Through Multi-Luminal Biosynthetic Implants. Annals of Biomedical Engineering, 2011, 39, 1815-1828.	1.3	24
29	Characterization of a novel bidirectional distraction spinal cord injury animal model. Journal of Neuroscience Methods, 2011, 197, 97-103.	1.3	24
30	Growth Hormone-Releasing Hormone-Producing and Dopaminergic Neurones in the Mouse Arcuate Nucleus Are Independently Regulated Populations. Journal of Neuroendocrinology, 2003, 15, 280-288.	1.2	22
31	Identification of abnormal motor cortex activation patterns in children with cerebral palsy by functional near-infrared spectroscopy. Journal of Biomedical Optics, 2010, 15, 036008.	1.4	22
32	Normal Molecular Repair Mechanisms in Regenerative Peripheral Nerve Interfaces Allow Recording of Early Spike Activity Despite Immature Myelination. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 220-227.	2.7	21
33	In-vivo tests of a 16-channel implantable wireless neural stimulator. , 2015, , .		21
34	Implantable electrodes. Current Opinion in Electrochemistry, 2017, 3, 68-74.	2.5	20
35	Chronic in-vivo testing of a 16-channel implantable wireless neural stimulator. , 2015, 2015, 1017-20.		18
36	Prolactin Replacement Must Be Continuous and Initiated Prior to 21 d of Age to Maintain Hypothalamic Dopaminergic Neurons in Hypopituitary Mice. Endocrine, 2003, 20, 139-148.	2.2	17

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37	Identification of Growth Hormone-Releasing Hormone and Somatostatin Neurons Projecting to the Median Eminence in Normal and Growth Hormone-Deficient Ames Dwarf Mice. Neuroendocrinology, 1997, 65, 107-116.	1.2	17
38	Prophylactic Riluzole Attenuates Oxidative Stress Damage in Spinal Cord Distraction. Journal of Neurotrauma, 2018, 35, 1319-1328.	1.7	16
39	Electrical stimulation enhances the acetylcholine receptors available for neuromuscular junction formation. Acta Biomaterialia, 2016, 45, 328-339.	4.1	15
40	Median and ulnar nerve injuries reduce volitional forelimb strength in rats. Muscle and Nerve, 2017, 56, 1149-1154.	1.0	15
41	Miniature electroparticle-cuff for wireless peripheral neuromodulation. Journal of Neural Engineering, 2019, 16, 046002.	1.8	15
42	Both high fat and high carbohydrate diets impair vagus nerve signaling of satiety. Scientific Reports, 2021, 11, 10394.	1.6	15
43	Postnatal Reduction in Number of Hypothalamic Tuberoinfundibular Dopaminergic Neurons in Prolactin-Deficient Dwarf Mice. Neuroendocrinology, 1994, 59, 189-196.	1.2	14
44	Visualization of Axonally Transported Horseradish Peroxidase Using Enhanced Immunocytochemical Detection: A Direct Comparison with the Tetramethylbenzidine Method. Journal of Histochemistry and Cytochemistry, 1999, 47, 265-272.	1.3	14
45	Asymmetric Sensory-Motor Regeneration of Transected Peripheral Nerves Using Molecular Guidance Cues. Scientific Reports, 2017, 7, 14323.	1.6	14
46	Platinized graphene fiber electrodes uncover direct spleen-vagus communication. Communications Biology, 2021, 4, 1097.	2.0	14
47	Chronic sensory-motor activity in behaving animals using regenerative multi-electrode interfaces. , 2014, 2014, 1973-6.		13
48	Mechanical considerations for design and implementation of peripheral intraneural devices. Journal of Neural Engineering, 2019, 16, 064001.	1.8	12
49	Peripheral Nerve Regeneration: Mechanism, Cell Biology, and Therapies. BioMed Research International, 2014, 2014, 1-2.	0.9	11
50	Atraumatic Spine Distraction Induces Metabolic Distress in Spinal Motor Neurons. Journal of Neurotrauma, 2017, 34, 2034-2044.	1.7	10
51	Intraneural ultramicroelectrode arrays for function-specific interfacing to the vagus nerve. Biosensors and Bioelectronics, 2020, 170, 112608.	5.3	10
52	Hypophysiotropic Somatostatin Expression during Postnatal Development in Growth Hormone-Deficient Ames Dwarf Mice: Peptide Immunocytochemistry. Neuroendocrinology, 1996, 64, 364-378.	1.2	9
53	Coiled polymeric growth factor gradients for multi-luminal neural chemotaxis. Brain Research, 2015, 1619, 72-83.	1.1	9
54	A Hybrid 3D Printing and Robotic-assisted Embedding Approach for Design and Fabrication of Nerve Cuffs with Integrated Locking Mechanisms. MRS Advances, 2018, 3, 2365-2372.	0.5	9

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55	A Wireless System for Monitoring Transcranial Motor Evoked Potentials. Annals of Biomedical Engineering, 2011, 39, 517-523.	1.3	8
56	Chronic and low charge injection wireless intraneural stimulation in vivo. , 2015, 2015, 1013-6.		6
57	Role of Prolactin in Developmental Differentiation of Hypophysiotropic Tuberoinfundibular Dopaminergic Neurons. , 1995, 50, 471-481.		6
58	VEGF Release in Multiluminal Hydrogels Directs Angiogenesis from Adult Vasculature In Vitro. Cardiovascular Engineering and Technology, 2011, 2, 173-185.	0.7	5
59	A novel Microchannel Electrode Array: Towards bioelectronic medical interfacing of small peripheral nerves. , 2014, 2014, 1981-4.		5
60	Multiparity affects conduction properties of pelvic floor nerves in rabbits. Brain and Behavior, 2018, 8, e01105.	1.0	5
61	Bladder and urethral dysfunction in multiparous and mature rabbits correlates with abnormal activity of pubococcygeus and bulbospongiosus muscles. Neurourology and Urodynamics, 2020, 39, 116-124.	0.8	5
62	Nerve Pathology in Unregulated Limb Growth. Journal of Bone and Joint Surgery - Series A, 2009, 91, 53-57.	1.4	4
63	Functional near infrared brain imaging with a brush-fiber optode to improve optical contact on subjects with dense hair. , 2011, , .		4
64	Electromagnetic interference in intraoperative monitoring of motor evoked potentials and a wireless solution. Medical Engineering and Physics, 2016, 38, 87-96.	0.8	4
65	SU8-Based Micro Neural Probe for Enhanced Chronic in-Vivo Recording of Spike Signals from Regenerated Axons. , 2006, , .		3
66	Nanocomposites for Neural Interfaces. Materials Research Society Symposia Proceedings, 2006, 926, 1.	0.1	3
67	Microchannel Electrode Stimulation of Deep Peroneal Nerve Fascicles Induced Mean Arterial Depressor Response in Hypertensive Rats. Bioelectronic Medicine, 2015, 2, 55-62.	1.0	3
68	Targeted neuromodulation of pelvic floor nerves in aging and multiparous rabbits improves continence. Scientific Reports, 2021, 11, 10615.	1.6	3
69	Anthropogenic Radio-Frequency Electromagnetic Fields Elicit Neuropathic Pain in an Amputation Model. PLoS ONE, 2016, 11, e0144268.	1.1	3
70	Peripheral Nerves, Anatomy and Physiology of. , 2014, , 1-5.		3
71	Blood Pressure Regulation by the Carotid Sinus Nerve: Clinical Implications for Carotid Body Neuromodulation. Frontiers in Neuroscience, 2021, 15, 725751.	1.4	3
72	Biomaterials and Regenerative Medicine in Pain Management. Current Pain and Headache Reports, 2022, 26, 533-541.	1.3	3

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73	A miniature power-efficient bidirectional telemetric platform for in-vivo acquisition of electrophysiological signals. , 2011, , .		2
74	Ephrin-B2 expression in the proprioceptive sensory system. Neuroscience Letters, 2013, 545, 69-74.	1.0	2
75	Slump Molding of Microchannel Arrays in Soda-Lime Glass for Bioanalytical Device Development. Journal of Micro and Nano-Manufacturing, 2014, 2, .	0.8	2
76	Brain on a bench top. Materials Today, 2016, 19, 124-125.	8.3	2
77	Control of neural interfacing in peripheral nerves through regenerative molecular guidance. , 2011, 2011, 4633-6.		1
78	Identification of Abnormal Motor Cortex Activation Patterns in Children with Cerebral Palsy by Functional Near Infrared Spectroscopy. , 2010, , .		1
79	Peripheral Nerves, Anatomy and Physiology of. , 2015, , 2320-2323.		1
80	Renal Nerve Activity and Arterial Depressor Responses Induced by Neuromodulation of the Deep Peroneal Nerve in Spontaneously Hypertensive Rats. Frontiers in Neuroscience, 2022, 16, .	1.4	1
81	Investigation of the Motor Cortex Function in Children with Cerebral Palsy Using Functional Near-Infrared Spectroscopic Imaging. , 2008, , .		0
82	Carbon nanotube coated high-throughput neurointerfaces in assistive environments. , 2009, , .		0
83	Abstract MP23: Arterial Depressor Responses Induced By Neuromodulation Of Deep Peroneal Nerve In Spontaneously Hypertensive Rats. Hypertension, 2021, 78, .	1.3	0
84	Peripheral Nerve Interface, Regenerative. , 2014, , 1-4.		0
85	Sensing and Stimulating Electrodes for Electroceuticals. Frontiers in Sensors, 2022, 3, .	1.7	0
86	Peripheral Nerves, Anatomy and Physiology of. , 2022, , 2715-2719.		0
87	Peripheral Nerve Interface, Regenerative. , 2022, , 2694-2697.		0