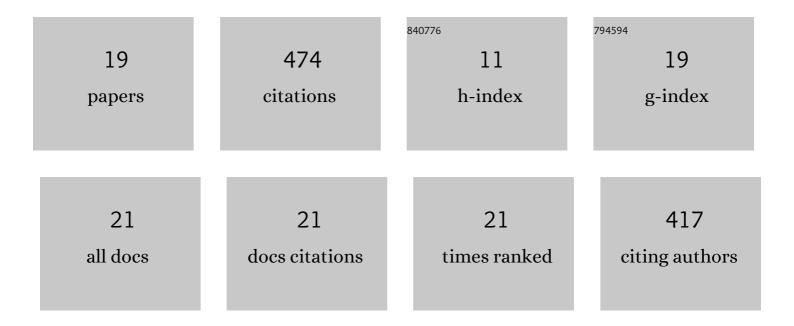
## **Richard R Carrillo**

List of Publications by Year in descending order

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RICHARD R CARRILLO

#	Article	IF	CITATIONS
1	A real-time spiking cerebellum model for learning robot control. BioSystems, 2008, 94, 18-27.	2.0	96
2	Adaptive Robotic Control Driven by a Versatile Spiking Cerebellar Network. PLoS ONE, 2014, 9, e112265.	2.5	70
3	A Spiking Neural Simulator Integrating Event-Driven and Time-Driven Computation Schemes Using Parallel CPU-GPU Co-Processing: A Case Study. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1567-1574.	11.3	46
4	Fast convergence of learning requires plasticity between inferior olive and deep cerebellar nuclei in a manipulation task: a closed-loop robotic simulation. Frontiers in Computational Neuroscience, 2014, 8, 97.	2.1	39
5	Distributed Cerebellar Motor Learning: A Spike-Timing-Dependent Plasticity Model. Frontiers in Computational Neuroscience, 2016, 10, 17.	2.1	37
6	Cerebellar Input Configuration Toward Object Model Abstraction in Manipulation Tasks. IEEE Transactions on Neural Networks, 2011, 22, 1321-1328.	4.2	34
7	Event- and Time-Driven Techniques Using Parallel CPU-GPU Co-processing for Spiking Neural Networks. Frontiers in Neuroinformatics, 2017, 11, 7.	2.5	23
8	A cerebellar-based solution to the nondeterministic time delay problem in robotic control. Science Robotics, 2021, 6, eabf2756.	17.6	22
9	Spike burst-pause dynamics of Purkinje cells regulate sensorimotor adaptation. PLoS Computational Biology, 2019, 15, e1006298.	3.2	20
10	Reconfigurable cyber-physical system for critical infrastructure protection in smart cities via smart video-surveillance. Pattern Recognition Letters, 2020, 140, 303-309.	4.2	19
11	Event-driven simulation of neural population synchronization facilitated by electrical coupling. BioSystems, 2007, 87, 275-280.	2.0	13
12	Integrated neural and robotic simulations. Simulation of cerebellar neurobiological substrate for an object-oriented dynamic model abstraction process. Robotics and Autonomous Systems, 2014, 62, 1702-1716.	5.1	13
13	Event-driven simulation of cerebellar granule cells. BioSystems, 2008, 94, 10-17.	2.0	9
14	Event and Time Driven Hybrid Simulation of Spiking Neural Networks. Lecture Notes in Computer Science, 2011, , 554-561.	1.3	9
15	26th Annual Computational Neuroscience Meeting (CNS*2017): Part 2. BMC Neuroscience, 2017, 18, .	1.9	7
16	A Metric for Evaluating Neural Input Representation in Supervised Learning Networks. Frontiers in Neuroscience, 2018, 12, 913.	2.8	5
17	On the Use of a Multimodal Optimizer for Fitting Neuron Models. Application to the Cerebellar Granule Cell. Frontiers in Neuroinformatics, 2021, 15, 663797.	2.5	3
18	CPU-GPU hybrid platform for efficient spiking neural-network simulation. BMC Neuroscience, 2013, 14, .	1.9	1

#	Article	IF	CITATIONS
19	Context Separability Mediated by the Granular Layer in a Spiking Cerebellum Model for Robot Control. Lecture Notes in Computer Science, 2011, , 537-546.	1.3	0