

Maryann E Martone

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

139
papers

12,822
citations

45
h-index

113
g-index

162
ext. papers

16,165
ext. citations

6
avg, IF

5.72
L-index

#	Paper	IF	Citations
139	The FAIR Guiding Principles for scientific data management and stewardship. <i>Scientific Data</i> , 2016 , 3, 160018	8.2	4154
138	Protoplasmic astrocytes in CA1 stratum radiatum occupy separate anatomical domains. <i>Journal of Neuroscience</i> , 2002 , 22, 183-92	6.6	1053
137	Synapse formation on neurons born in the adult hippocampus. <i>Nature Neuroscience</i> , 2007 , 10, 727-34	25.5	449
136	Enteroviral protease 2A cleaves dystrophin: evidence of cytoskeletal disruption in an acquired cardiomyopathy. <i>Nature Medicine</i> , 1999 , 5, 320-6	50.5	437
135	Chronic phospholamban-sarcoplasmic reticulum calcium ATPase interaction is the critical calcium cycling defect in dilated cardiomyopathy. <i>Cell</i> , 1999 , 99, 313-22	56.2	432
134	Biological imaging software tools. <i>Nature Methods</i> , 2012 , 9, 697-710	21.6	377
133	Translocation of RNA granules in living neurons. <i>Journal of Neuroscience</i> , 1996 , 16, 7812-20	6.6	367
132	Maturation of astrocyte morphology and the establishment of astrocyte domains during postnatal hippocampal development. <i>International Journal of Developmental Neuroscience</i> , 2004 , 22, 73-86	2.7	286
131	Ablation of Cypher, a PDZ-LIM domain Z-line protein, causes a severe form of congenital myopathy. <i>Journal of Cell Biology</i> , 2001 , 155, 605-12	7.3	239
130	Dicer and eIF2c are enriched at postsynaptic densities in adult mouse brain and are modified by neuronal activity in a calpain-dependent manner. <i>Journal of Neurochemistry</i> , 2005 , 94, 896-905	6	225
129	Three-dimensional electron microscopy reveals new details of membrane systems for Ca ²⁺ signaling in the heart. <i>Journal of Cell Science</i> , 2009 , 122, 1005-13	5.3	198
128	An assessment of verbal recall, recognition and fluency abilities in patients with Huntington's disease. <i>Cortex</i> , 1986 , 22, 11-32	3.8	188
127	Assembly of proteins to postsynaptic densities after transient cerebral ischemia. <i>Journal of Neuroscience</i> , 1998 , 18, 625-33	6.6	182
126	Cypher, a striated muscle-restricted PDZ and LIM domain-containing protein, binds to alpha-actinin-2 and protein kinase C. <i>Journal of Biological Chemistry</i> , 1999 , 274, 19807-13	5.4	181
125	Big data from small data: data-sharing in the long tail of neuroscience. <i>Nature Neuroscience</i> , 2014 , 17, 1442-7	25.5	152
124	The neuroscience information framework: a data and knowledge environment for neuroscience. <i>Neuroinformatics</i> , 2008 , 6, 149-60	3.2	148
123	Evidence for ectopic neurotransmission at a neuronal synapse. <i>Science</i> , 2005 , 309, 446-51	33.3	148

122	Challenges and opportunities in mining neuroscience data. <i>Science</i> , 2011 , 331, 708-12	33.3	136
121	Histological and ultrastructural evidence that D-amphetamine causes degeneration in neostriatum and frontal cortex of rats. <i>Brain Research</i> , 1990 , 518, 67-77	3.7	118
120	Serial section electron tomography: a method for three-dimensional reconstruction of large structures. <i>NeuroImage</i> , 1994 , 1, 230-43	7.9	113
119	The NIFSTD and BIRNLex vocabularies: building comprehensive ontologies for neuroscience. <i>Neuroinformatics</i> , 2008 , 6, 175-94	3.2	111
118	Subcellular localization of the K ⁺ channel subunit Kv3.1b in selected rat CNS neurons. <i>Brain Research</i> , 1997 , 766, 173-87	3.7	107
117	Modification of postsynaptic densities after transient cerebral ischemia: a quantitative and three-dimensional ultrastructural study. <i>Journal of Neuroscience</i> , 1999 , 19, 1988-97	6.6	101
116	E-neuroscience: challenges and triumphs in integrating distributed data from molecules to brains. <i>Nature Neuroscience</i> , 2004 , 7, 467-72	25.5	100
115	A cell-centered database for electron tomographic data. <i>Journal of Structural Biology</i> , 2002 , 138, 145-55	3.4	99
114	Neuronal acetylcholine receptors with alpha7 subunits are concentrated on somatic spines for synaptic signaling in embryonic chick ciliary ganglia. <i>Journal of Neuroscience</i> , 1999 , 19, 692-704	6.6	98
113	Selective localization of high concentrations of F-actin in subpopulations of dendritic spines in rat central nervous system: a three-dimensional electron microscopic study. <i>Journal of Comparative Neurology</i> , 2001 , 435, 156-70	3.4	93
112	The combination of chemical fixation procedures with high pressure freezing and freeze substitution preserves highly labile tissue ultrastructure for electron tomography applications. <i>Journal of Structural Biology</i> , 2008 , 161, 359-71	3.4	90
111	The cell-centered database: a database for multiscale structural and protein localization data from light and electron microscopy. <i>Neuroinformatics</i> , 2003 , 1, 379-95	3.2	84
110	Ultrastructural examination of enkephalin and substance P input to cholinergic neurons within the rat neostriatum. <i>Brain Research</i> , 1992 , 594, 253-62	3.7	82
109	Digital atlasing and standardization in the mouse brain. <i>PLoS Computational Biology</i> , 2011 , 7, e1001065	5	77
108	Immunolocalization of the receptor tyrosine kinase EphA4 in the adult rat central nervous system. <i>Brain Research</i> , 1997 , 771, 238-50	3.7	76
107	Distribution of Kv3.3 potassium channel subunits in distinct neuronal populations of mouse brain. <i>Journal of Comparative Neurology</i> , 2007 , 502, 953-72	3.4	76
106	The cell centered database project: an update on building community resources for managing and sharing 3D imaging data. <i>Journal of Structural Biology</i> , 2008 , 161, 220-31	3.4	69
105	Programs for visualization in three-dimensional microscopy. <i>NeuroImage</i> , 1992 , 1, 55-67	7.9	69

104	Ontologies for Neuroscience: What are they and What are they Good for?. <i>Frontiers in Neuroscience</i> , 2009 , 3, 60-7	5.1	68
103	Transient decrease in F-actin may be necessary for translocation of proteins into dendritic spines. <i>European Journal of Neuroscience</i> , 2005 , 22, 2995-3005	3.5	64
102	Electron tomographic analysis of synaptic ultrastructure. <i>Journal of Comparative Neurology</i> , 2012 , 520, 2697-711	3.4	60
101	The TRUST Principles for digital repositories. <i>Scientific Data</i> , 2020 , 7, 144	8.2	54
100	Federated access to heterogeneous information resources in the Neuroscience Information Framework (NIF). <i>Neuroinformatics</i> , 2008 , 6, 205-17	3.2	54
99	Protein ubiquitination in postsynaptic densities after transient cerebral ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004 , 24, 1219-25	7.3	54
98	A data citation roadmap for scientific publishers. <i>Scientific Data</i> , 2018 , 5, 180259	8.2	54
97	Ultrastructural localization of dendritic messenger RNA in adult rat hippocampus. <i>Journal of Neuroscience</i> , 1996 , 16, 7437-46	6.6	53
96	NeuroLex.org: an online framework for neuroscience knowledge. <i>Frontiers in Neuroinformatics</i> , 2013 , 7, 18	3.9	49
95	Biomedical informatics research network: building a national collaboratory to hasten the derivation of new understanding and treatment of disease. <i>Studies in Health Technology and Informatics</i> , 2005 , 112, 100-9	0.5	48
94	Phalloidin-eosin followed by photo-oxidation: a novel method for localizing F-actin at the light and electron microscopic levels. <i>Journal of Histochemistry and Cytochemistry</i> , 2001 , 49, 1351-61	3.4	44
93	Everything Matters: The ReproNim Perspective on Reproducible Neuroimaging. <i>Frontiers in Neuroinformatics</i> , 2019 , 13, 1	3.9	42
92	Correlated 3D Light and Electron Microscopy: Use of High Voltage Electron Microscopy and Electron Tomography for Imaging Large Biological Structures. <i>Journal of Histotechnology</i> , 2000 , 23, 261-270	13.7	42
91	The cell: an image library-CCDB: a curated repository of microscopy data. <i>Nucleic Acids Research</i> , 2013 , 41, D1241-50	20.1	40
90	RRIDs: A Simple Step toward Improving Reproducibility through Rigor and Transparency of Experimental Methods. <i>Neuron</i> , 2016 , 90, 434-6	13.9	40
89	The Resource Identification Initiative: A cultural shift in publishing. <i>F1000Research</i> , 2015 , 4, 134	3.6	39
88	Development and use of Ontologies Inside the Neuroscience Information Framework: A Practical Approach. <i>Frontiers in Genetics</i> , 2012 , 3, 111	4.5	38
87	Some analyses of forgetting of pictorial material in amnesic and demented patients. <i>Neuropsychology, Development and Cognition Section A: Journal of Clinical and Experimental Neuropsychology</i> , 1986 , 8, 161-78		38

86	Alterations of hippocampal postsynaptic densities following transient ischemia. <i>Hippocampus</i> , 2000 , 10, 610-6	3.5	37
85	Examination of the relationship between astrocyte morphology and laminar boundaries in the molecular layer of adult dentate gyrus. <i>Journal of Comparative Neurology</i> , 2003 , 462, 241-51	3.4	35
84	The Telescience Portal for advanced tomography applications. <i>Journal of Parallel and Distributed Computing</i> , 2003 , 63, 539-550	4.4	35
83	A data citation roadmap for scholarly data repositories. <i>Scientific Data</i> , 2019 , 6, 28	8.2	33
82	Automated most-probable loss tomography of thick selectively stained biological specimens with quantitative measurement of resolution improvement. <i>Journal of Structural Biology</i> , 2004 , 148, 297-306	3.4	33
81	Filamentous actin is concentrated in specific subpopulations of neuronal and glial structures in rat central nervous system. <i>Brain Research</i> , 2001 , 923, 1-11	3.7	33
80	A comparative antibody analysis of pannexin1 expression in four rat brain regions reveals varying subcellular localizations. <i>Frontiers in Pharmacology</i> , 2013 , 4, 6	5.6	32
79	Data sharing in psychology. <i>American Psychologist</i> , 2018 , 73, 111-125	9.5	32
78	Distribution of inositol-1,4,5-trisphosphate and ryanodine receptors in rat neostriatum. <i>Brain Research</i> , 1997 , 756, 9-21	3.7	30
77	An ontological approach to describing neurons and their relationships. <i>Frontiers in Neuroinformatics</i> , 2012 , 6, 15	3.9	29
76	Potassium channel subunit Kv3.2 and the water channel aquaporin-4 are selectively localized to cerebellar pinceau. <i>Brain Research</i> , 2004 , 1026, 168-78	3.7	29
75	The Resource Identification Initiative: A cultural shift in publishing. <i>F1000Research</i> , 2015 , 4, 134	3.6	27
74	Three-dimensional reconstruction of serial mouse brain sections: solution for flattening high-resolution large-scale mosaics. <i>Frontiers in Neuroanatomy</i> , 2011 , 5, 17	3.6	26
73	The Gene Ontology (GO) Cellular Component Ontology: integration with SAO (Subcellular Anatomy Ontology) and other recent developments. <i>Journal of Biomedical Semantics</i> , 2013 , 4, 20	2.2	25
72	Interdisciplinary perspectives on the development, integration, and application of cognitive ontologies. <i>Frontiers in Neuroinformatics</i> , 2014 , 8, 62	3.9	24
71	Collaborative development of the Arrowsmith two node search interface designed for laboratory investigators. <i>Journal of Biomedical Discovery and Collaboration</i> , 2006 , 1, 8		24
70	Neuroanatomical domain of the foundational model of anatomy ontology. <i>Journal of Biomedical Semantics</i> , 2014 , 5, 1	2.2	22
69	The Resource Identification Initiative: A Cultural Shift in Publishing. <i>Journal of Comparative Neurology</i> , 2016 , 524, 8-22	3.4	21

68	The Resource Identification Initiative: a cultural shift in publishing. <i>Brain and Behavior</i> , 2016 , 6, e00417	3.4	21
67	Application of neuroanatomical ontologies for neuroimaging data annotation. <i>Frontiers in Neuroinformatics</i> , 2010 , 4,	3.9	20
66	High-resolution large-scale mosaic imaging using multiphoton microscopy to characterize transgenic mouse models of human neurological disorders. <i>Neuroinformatics</i> , 2006 , 4, 65-80	3.2	20
65	A formal ontology of subcellular neuroanatomy. <i>Frontiers in Neuroinformatics</i> , 2007 , 1, 3	3.9	19
64	Towards a formalization of disease-specific ontologies for neuroinformatics. <i>Neural Networks</i> , 2003 , 16, 1277-92	9.1	19
63	Continuous amphetamine administration induces tyrosine hydroxylase immunoreactive patches in the adult rat neostriatum. <i>Brain Research Bulletin</i> , 1988 , 21, 133-7	3.9	17
62	A survey of the neuroscience resource landscape: perspectives from the neuroscience information framework. <i>International Review of Neurobiology</i> , 2012 , 103, 39-68	4.4	16
61	A Data Citation Roadmap for Scholarly Data Repositories		16
60	The NIF LinkOut broker: a web resource to facilitate federated data integration using NCBI identifiers. <i>Neuroinformatics</i> , 2008 , 6, 219-27	3.2	15
59	Resource Disambiguator for the Web: Extracting Biomedical Resources and Their Citations from the Scientific Literature. <i>PLoS ONE</i> , 2016 , 11, e0146300	3.7	15
58	The Resource Identification Initiative: A Cultural Shift in Publishing. <i>Neuroinformatics</i> , 2016 , 14, 169-82	3.2	14
57	FORCE11: Building the Future for Research Communications and e-Scholarship. <i>BioScience</i> , 2015 , 65, 635-635	5.7	14
56	FAIR SCI Ahead: The Evolution of the Open Data Commons for Pre-Clinical Spinal Cord Injury Research. <i>Journal of Neurotrauma</i> , 2020 , 37, 831-838	5.4	14
55	The Rigor and Transparency Index Quality Metric for Assessing Biological and Medical Science Methods. <i>IScience</i> , 2020 , 23, 101698	6.1	13
54	Dimensionality Reduction on Multi-Dimensional Transfer Functions for Multi-Channel Volume Data Sets. <i>Information Visualization</i> , 2010 , 9, 167-180	2.4	12
53	A Model-Based Mediator System for Scientific Data Management 2003 , 335-370		12
52	A multimodal cell census and atlas of the mammalian primary motor cortex		12
51	The NIDDK Information Network: A Community Portal for Finding Data, Materials, and Tools for Researchers Studying Diabetes, Digestive, and Kidney Diseases. <i>PLoS ONE</i> , 2015 , 10, e0136206	3.7	11

50	Incidences of problematic cell lines are lower in papers that use RRIDs to identify cell lines. <i>ELife</i> , 2019 , 8,	8.9	11
49	Three Dimensional Protein Localization Using High Voltage Electron Microscopy.. <i>Acta Histochemica Et Cytochemica</i> , 1999 , 32, 35-43	1.9	10
48	A Standards Organization for Open and FAIR Neuroscience: the International Neuroinformatics Coordinating Facility. <i>Neuroinformatics</i> , 2021 , 1	3.2	9
47	Real-time multi-scale brain data acquisition, assembly, and analysis using an end-to-end OptIPuter. <i>Future Generation Computer Systems</i> , 2006 , 22, 1032-1039	7.5	8
46	BIRN-M 2003 ,		8
45	The distribution of cholinergic perikarya with respect to enkephalin-rich patches in the caudate nucleus of the adult cat. <i>Journal of Chemical Neuroanatomy</i> , 1994 , 8, 47-59	3.2	8
44	The SPARC DRC: Building a Resource for the Autonomic Nervous System Community. <i>Frontiers in Physiology</i> , 2021 , 12, 693735	4.6	8
43	Registering Scientific Information Sources for Semantic Mediation. <i>Lecture Notes in Computer Science</i> , 2002 , 182-198	0.9	8
42	Interoperability across neuroscience databases. <i>Methods in Molecular Biology</i> , 2007 , 401, 23-36	1.4	6
41	SPARC Data Structure: Rationale and Design of a FAIR Standard for Biomedical Research Data		6
40	A knowledge based approach to matching human neurodegenerative disease and animal models. <i>Frontiers in Neuroinformatics</i> , 2013 , 7, 7	3.9	5
39	Ontology driven data integration for autism research 2009 ,		5
38	Subcellular localization of mRNA in neuronal cells. Contributions of high-resolution in situ hybridization techniques. <i>Molecular Neurobiology</i> , 1998 , 18, 227-46	6.2	5
37	Issues in the design of a pilot concept-based query interface for the neuroinformatics information framework. <i>Neuroinformatics</i> , 2008 , 6, 229-39	3.2	5
36	Database resources for cellular electron microscopy. <i>Methods in Cell Biology</i> , 2007 , 79, 799-822	1.8	5
35	Specific labeling of connexin43 in NRK cells using tyramide-based signal amplification and fluorescence photooxidation. <i>Microscopy Research and Technique</i> , 2001 , 52, 331-43	2.8	5
34	A data citation roadmap for scientific publishers		5
33	Rigor and Transparency Index, a new metric of quality for assessing biological and medical science methods		5

32	Comparing the Use of Research Resource Identifiers and Natural Language Processing for Citation of Databases, Software, and Other Digital Artifacts. <i>Computing in Science and Engineering</i> , 2020 , 22, 22-32 ^{1.5}	4
31	Towards an ontology for psychosis. <i>Cognitive Systems Research</i> , 2010 , 11, 42-52	4.8 4
30	International data governance for neuroscience.. <i>Neuron</i> , 2021 ,	13.9 4
29	The Scholarly Commons - principles and practices to guide research communication	4
28	The Smart Atlas: Spatial and Semantic Strategies for Multiscale Integration of Brain Data 2008 , 267-286	3
27	The application of energy-filtered electron microscopy to tomography of thick, selectively stained biological samples. <i>Methods in Cell Biology</i> , 2007 , 79, 643-60	1.8 3
26	Imaging of Big and Messy Biological Structures Using Electron Tomography. <i>Microscopy Today</i> , 2003 , 11, 8-15	0.4 3
25	The Neuron Phenotype Ontology: A FAIR Approach to Proposing and Classifying Neuronal Types	3
24	Linked Data in Neuroscience: Applications, Benefits, and Challenges	3
23	Uniform resolution of compact identifiers for biomedical data	3
22	Federation of Brain Data through Knowledge-guided Mediation 2003 , 275-291	3
21	The SPARC DRC: Building a resource for the autonomic nervous system community	2
20	Alterations of hippocampal postsynaptic densities following transient ischemia 2000 , 10, 610	2
19	Automatic detection of mitochondria from electron microscope tomography images: a curve fitting approach 2014 ,	1
18	Localization of Actin Filaments in the Central Nervous System Using Phalloidin and Correlative Light and Electron Microscopy. <i>Microscopy and Microanalysis</i> , 1999 , 5, 498-499	0.5 1
17	Integration of evidence across human and model organism studies: A meeting report. <i>Genes, Brain and Behavior</i> , 2021 , 20, e12738	3.6 1
16	Promoting FAIR Data Through Community-driven Agile Design: the Open Data Commons for Spinal Cord Injury (odc-sci.org). <i>Neuroinformatics</i> , 2021 , 1	3.2 1
15	Representing Normal and Abnormal Physiology as Routes of Flow in ApiNATOMY.. <i>Frontiers in Physiology</i> , 2022 , 13, 795303	4.6 1

14	The Scholarly Commons. <i>Serials Librarian</i> , 2019 , 76, 220-224	0.2	0
13	Is Neuroscience FAIR? A Call for Collaborative Standardisation of Neuroscience Data.. <i>Neuroinformatics</i> , 2022 , 1	3.2	0
12	Antibody Watch: Text mining antibody specificity from the literature. <i>PLoS Computational Biology</i> , 2021 , 17, e1008967	5	0
11	Re-envisioning the business of information: Policies, practices and procedures. <i>Information Services and Use</i> , 2014 , 34, 75-84	0.5	
10	Highlights of Selected Microscopy Research Resource Activities at San Diego. <i>Microscopy and Microanalysis</i> , 1997 , 3, 275-276	0.5	
9	Correlated 3D Light and Electron Microscopy of Large, Complex Structures: Analysis of Transverse Tubules in Heart Failure. <i>Microscopy and Microanalysis</i> , 1998 , 4, 440-441	0.5	
8	Bridging the Resolution Gap: Correlated 3D Light and Electron Microscopic Analysis of Large Biological Structures. <i>Microscopy and Microanalysis</i> , 1999 , 5, 526-527	0.5	
7	<i>Neuron</i> 2002 , 507-523		
6	dkNET (NIDDK Information Network): Research tools that assist scientists in improving the rigor and reproducibility of their research. <i>FASEB Journal</i> , 2019 , 33, 802.60	0.9	
5	A tool for assessing alignment of biomedical data repositories with open, FAIR, citation and trustworthy principles. <i>PLoS ONE</i> , 2021 , 16, e0253538	3.7	
4	The Neuron Phenotype Ontology: A FAIR Approach to Proposing and Classifying Neuronal Types.. <i>Neuroinformatics</i> , 2022 , 1	3.2	
3	Empowering Data Sharing and Analytics through the Open Data Commons for Traumatic Brain Injury Research.. <i>Neurotrauma Reports</i> , 2022 , 3, 139-157	1.6	
2	Cell Centered Database 2022 , 692-695		
1	Neuroscience Information Framework (NIF) 2022 , 2454-2458		