

# Maryann E Martone

## List of Publications by Year in descending order

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140  
papers

19,376  
citations

44042

48  
h-index

15716

125  
g-index

162  
all docs

162  
docs citations

162  
times ranked

31371  
citing authors

#	ARTICLE	IF	CITATIONS
1	The FAIR Guiding Principles for scientific data management and stewardship. <i>Scientific Data</i> , 2016, 3, 160018.	2.4	8,670
2	Protoplasmic Astrocytes in CA1 Stratum Radiatum Occupy Separate Anatomical Domains. <i>Journal of Neuroscience</i> , 2002, 22, 183-192.	1.7	1,291
3	Enteroviral protease 2A cleaves dystrophin: Evidence of cytoskeletal disruption in an acquired cardiomyopathy. <i>Nature Medicine</i> , 1999, 5, 320-326.	15.2	519
4	Synapse formation on neurons born in the adult hippocampus. <i>Nature Neuroscience</i> , 2007, 10, 727-734.	7.1	499
5	Chronic Phospholamban Sarcoplasmic Reticulum Calcium ATPase Interaction Is the Critical Calcium Cycling Defect in Dilated Cardiomyopathy. <i>Cell</i> , 1999, 99, 313-322.	13.5	482
6	Biological imaging software tools. <i>Nature Methods</i> , 2012, 9, 697-710.	9.0	462
7	Translocation of RNA Granules in Living Neurons. <i>Journal of Neuroscience</i> , 1996, 16, 7812-7820.	1.7	418
8	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.	0.7	360
9	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, 605-612.	2.3	255
10	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.	2.1	250
11	Three-dimensional electron microscopy reveals new details of membrane systems for Ca <sup>2+</sup> signaling in the heart. <i>Journal of Cell Science</i> , 2009, 122, 1005-1013.	1.2	228
12	Big data from small data: data-sharing in the 'long tail' of neuroscience. <i>Nature Neuroscience</i> , 2014, 17, 1442-1447.	7.1	227
13	An Assessment of Verbal Recall, Recognition and Fluency Abilities in Patients with Huntington's Disease. <i>Cortex</i> , 1986, 22, 11-32.	1.1	213
14	Cypher, a Striated Muscle-restricted PDZ and LIM Domain-containing Protein, Binds to $\beta$ -Actinin-2 and Protein Kinase C. <i>Journal of Biological Chemistry</i> , 1999, 274, 19807-19813.	1.6	210
15	Assembly of Proteins to Postsynaptic Densities after Transient Cerebral Ischemia. <i>Journal of Neuroscience</i> , 1998, 18, 625-633.	1.7	190
16	The Neuroscience Information Framework: A Data and Knowledge Environment for Neuroscience. <i>Neuroinformatics</i> , 2008, 6, 149-160.	1.5	189
17	Evidence for Ectopic Neurotransmission at a Neuronal Synapse. <i>Science</i> , 2005, 309, 446-451.	6.0	167
18	Challenges and Opportunities in Mining Neuroscience Data. <i>Science</i> , 2011, 331, 708-712.	6.0	162

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19	The TRUST Principles for digital repositories. <i>Scientific Data</i> , 2020, 7, 144.	2.4	158
20	The NIFSTD and BIRNLex Vocabularies: Building Comprehensive Ontologies for Neuroscience. <i>Neuroinformatics</i> , 2008, 6, 175-194.	1.5	130
21	Histological and ultrastructural evidence that d-amphetamine causes degeneration in neostriatum and frontal cortex of rats. <i>Brain Research</i> , 1990, 518, 67-77.	1.1	125
22	Serial Section Electron Tomography: A Method for Three-Dimensional Reconstruction of Large Structures. <i>NeuroImage</i> , 1994, 1, 230-243.	2.1	122
23	Subcellular localization of the K <sup>+</sup> channel subunit Kv3.1b in selected rat CNS neurons. <i>Brain Research</i> , 1997, 766, 173-187.	1.1	113
24	e-Neuroscience: challenges and triumphs in integrating distributed data from molecules to brains. <i>Nature Neuroscience</i> , 2004, 7, 467-472.	7.1	112
25	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, 359-371.	1.3	111
26	Digital Atlasing and Standardization in the Mouse Brain. <i>PLoS Computational Biology</i> , 2011, 7, e1001065.	1.5	109
27	Modification of Postsynaptic Densities after Transient Cerebral Ischemia: A Quantitative and Three-Dimensional Ultrastructural Study. <i>Journal of Neuroscience</i> , 1999, 19, 1988-1997.	1.7	107
28	A cell-centered database for electron tomographic data. <i>Journal of Structural Biology</i> , 2002, 138, 145-155.	1.3	107
29	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, 156-170.	0.9	105
30	The Cell-Centered Database: A Database for Multiscale Structural and Protein Localization Data from Light and Electron Microscopy. <i>Neuroinformatics</i> , 2003, 1, 379-396.	1.5	105
31	Neuronal Acetylcholine Receptors with $\alpha 7$ Subunits Are Concentrated on Somatic Spines for Synaptic Signaling in Embryonic Chick Ciliary Ganglia. <i>Journal of Neuroscience</i> , 1999, 19, 692-704.	1.7	102
32	Distribution of Kv3.3 potassium channel subunits in distinct neuronal populations of mouse brain. <i>Journal of Comparative Neurology</i> , 2007, 502, 953-972.	0.9	91
33	A data citation roadmap for scientific publishers. <i>Scientific Data</i> , 2018, 5, 180259.	2.4	90
34	Ultrastructural examination of enkephalin and substance P input to cholinergic neurons within the rat neostriatum. <i>Brain Research</i> , 1992, 594, 253-262.	1.1	89
35	Everything Matters: The ReproNim Perspective on Reproducible Neuroimaging. <i>Frontiers in Neuroinformatics</i> , 2019, 13, 1.	1.3	88
36	Ontologies for neuroscience: What are they and what are they good for?. <i>Frontiers in Neuroscience</i> , 2009, 3, 60-7.	1.4	87

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37	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, 220-231.	1.3	84
38	Immunolocalization of the receptor tyrosine kinase EphA4 in the adult rat central nervous system. <i>Brain Research</i> , 1997, 771, 238-250.	1.1	79
39	Electron tomographic analysis of synaptic ultrastructure. <i>Journal of Comparative Neurology</i> , 2012, 520, 2697-2711.	0.9	77
40	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.	1.2	74
41	Programs for visualization in three-dimensional microscopy. <i>NeuroImage</i> , 1992, 1, 55-67.	2.1	72
42	NeuroLex.org: an online framework for neuroscience knowledge. <i>Frontiers in Neuroinformatics</i> , 2013, 7, 18.	1.3	67
43	Federated Access to Heterogeneous Information Resources in the Neuroscience Information Framework (NIF). <i>Neuroinformatics</i> , 2008, 6, 205-217.	1.5	66
44	Protein Ubiquitination in Postsynaptic Densities after Transient Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2004, 24, 1219-1225.	2.4	60
45	A data citation roadmap for scholarly data repositories. <i>Scientific Data</i> , 2019, 6, 28.	2.4	59
46	RRIDs: A Simple Step toward Improving Reproducibility through Rigor and Transparency of Experimental Methods. <i>Neuron</i> , 2016, 90, 434-436.	3.8	56
47	Ultrastructural Localization of Dendritic Messenger RNA in Adult Rat Hippocampus. <i>Journal of Neuroscience</i> , 1996, 16, 7437-7446.	1.7	55
48	Data sharing in psychology.. <i>American Psychologist</i> , 2018, 73, 111-125.	3.8	52
49	The cell: an image library-CCDB: a curated repository of microscopy data. <i>Nucleic Acids Research</i> , 2012, 41, D1241-D1250.	6.5	51
50	Interdisciplinary perspectives on the development, integration, and application of cognitive ontologies. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 62.	1.3	51
51	Neuroanatomical domain of the foundational model of anatomy ontology. <i>Journal of Biomedical Semantics</i> , 2014, 5, 1.	0.9	50
52	Phalloidin-Eosin Followed by Photo-oxidation. <i>Journal of Histochemistry and Cytochemistry</i> , 2001, 49, 1351-1361.	1.3	49
53	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.	0.2	49
54	Development and use of Ontologies Inside the Neuroscience Information Framework: A Practical Approach. <i>Frontiers in Genetics</i> , 2012, 3, 111.	1.1	47

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55	The Resource Identification Initiative: A cultural shift in publishing. F1000Research, 2015, 4, 134.	0.8	47
56	Some analyses of forgetting of pictorial material in amnesic and demented patients. Neuropsychology, Development and Cognition Section A: Journal of Clinical and Experimental Neuropsychology, 1986, 8, 161-178.	1.4	46
57	The Telescience Portal for advanced tomography applications. Journal of Parallel and Distributed Computing, 2003, 63, 539-550.	2.7	46
58	An ontological approach to describing neurons and their relationships. Frontiers in Neuroinformatics, 2012, 6, 15.	1.3	45
59	The Gene Ontology (GO) Cellular Component Ontology: integration with SAO (Subcellular Anatomy) Tj ETQq1 1 0.784314 rgBT /Ove	0.9	44
60	Correlated 3D Light and Electron Microscopy: Use of High Voltage Electron Microscopy and Electron Tomography for Imaging Large Biological Structures. Journal of Histotechnology, 2000, 23, 261-270.	0.2	43
61	The Resource Identification Initiative: A cultural shift in publishing. F1000Research, 2015, 4, 134.	0.8	42
62	Alterations of hippocampal postsynaptic densities following transient ischemia. Hippocampus, 2000, 10, 610-616.	0.9	41
63	The Rigor and Transparency Index Quality Metric for Assessing Biological and Medical Science Methods. IScience, 2020, 23, 101698.	1.9	41
64	Filamentous actin is concentrated in specific subpopulations of neuronal and glial structures in rat central nervous system. Brain Research, 2001, 923, 1-11.	1.1	40
65	Three-Dimensional Reconstruction of Serial Mouse Brain Sections: Solution for Flattening High-Resolution Large-Scale Mosaics. Frontiers in Neuroanatomy, 2011, 5, 17.	0.9	40
66	Examination of the relationship between astrocyte morphology and laminar boundaries in the molecular layer of adult dentate gyrus. Journal of Comparative Neurology, 2003, 462, 241-251.	0.9	39
67	Improving transparency and scientific rigor in academic publishing. Journal of Neuroscience Research, 2019, 97, 377-390.	1.3	39
68	The Resource Identification Initiative: a cultural shift in publishing. Brain and Behavior, 2016, 6, e00417.	1.0	37
69	Automated most-probable loss tomography of thick selectively stained biological specimens with quantitative measurement of resolution improvement. Journal of Structural Biology, 2004, 148, 297-306.	1.3	35
70	A Comparative Antibody Analysis of Pannexin1 Expression in Four Rat Brain Regions Reveals Varying Subcellular Localizations. Frontiers in Pharmacology, 2013, 4, 6.	1.6	35
71	Potassium channel subunit Kv3.2 and the water channel aquaporin-4 are selectively localized to cerebellar pinceau. Brain Research, 2004, 1026, 168-178.	1.1	33
72	The Resource Identification Initiative: A cultural shift in publishing. Journal of Comparative Neurology, 2016, 524, 8-22.	0.9	32

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73	Distribution of inositol-1,4,5-trisphosphate and ryanodine receptors in rat neostriatum. <i>Brain Research</i> , 1997, 756, 9-21.	1.1	31
74	The SPARC DRC: Building a Resource for the Autonomic Nervous System Community. <i>Frontiers in Physiology</i> , 2021, 12, 693735.	1.3	31
75	International data governance for neuroscience. <i>Neuron</i> , 2022, 110, 600-612.	3.8	28
76	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.	1.7	27
77	Collaborative development of the Arrowsmith two node search interface designed for laboratory investigators. <i>Journal of Biomedical Discovery and Collaboration</i> , 2006, 1, 8.	2.0	26
78	The Resource Identification Initiative: A Cultural Shift in Publishing. <i>Neuroinformatics</i> , 2016, 14, 169-182.	1.5	26
79	A Standards Organization for Open and FAIR Neuroscience: the International Neuroinformatics Coordinating Facility. <i>Neuroinformatics</i> , 2022, 20, 25-36.	1.5	26
80	Incidences of problematic cell lines are lower in papers that use RRIDs to identify cell lines. <i>ELife</i> , 2019, 8, .	2.8	26
81	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.	1.5	25
82	Application of neuroanatomical ontologies for neuroimaging data annotation. <i>Frontiers in Neuroinformatics</i> , 2010, 4, .	1.3	25
83	Towards a formalization of disease-specific ontologies for neuroinformatics. <i>Neural Networks</i> , 2003, 16, 1277-1292.	3.3	24
84	Improving transparency and scientific rigor in academic publishing. <i>Brain and Behavior</i> , 2019, 9, e01141.	1.0	23
85	Is Neuroscience FAIR? A Call for Collaborative Standardisation of Neuroscience Data. <i>Neuroinformatics</i> , 2022, 20, 507-512.	1.5	23
86	A formal ontology of subcellular neuroanatomy. <i>Frontiers in Neuroinformatics</i> , 2007, 1, 3.	1.3	21
87	A Survey of the Neuroscience Resource Landscape. <i>International Review of Neurobiology</i> , 2012, 103, 39-68.	0.9	21
88	Resource Disambiguator for the Web: Extracting Biomedical Resources and Their Citations from the Scientific Literature. <i>PLoS ONE</i> , 2016, 11, e0146300.	1.1	20
89	Continuous amphetamine administration induces tyrosine hydroxylase immunoreactive patches in the adult rat neostriatum. <i>Brain Research Bulletin</i> , 1988, 21, 133-137.	1.4	19
90	FORCE11: Building the Future for Research Communications and e-Scholarship. <i>BioScience</i> , 2015, 65, 635-635.	2.2	19

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91	BIRN-M. , 2003, , .		17
92	The NIF LinkOut Broker: A Web Resource to Facilitate Federated Data Integration using NCBI Identifiers. <i>Neuroinformatics</i> , 2008, 6, 219-227.	1.5	17
93	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.	1.1	16
94	A Model-Based Mediator System for Scientific Data Management. , 2003, , 335-370.		15
95	Dimensionality Reduction on Multi-Dimensional Transfer Functions for Multi-Channel Volume Data Sets. <i>Information Visualization</i> , 2010, 9, 167-180.	1.2	13
96	Integration of evidence across human and model organism studies: A meeting report. <i>Genes, Brain and Behavior</i> , 2021, 20, e12738.	1.1	12
97	Three Dimensional Protein Localization Using High Voltage Electron Microscopy.. <i>Acta Histochemica Et Cytochemica</i> , 1999, 32, 35-43.	0.8	11
98	Promoting FAIR Data Through Community-driven Agile Design: the Open Data Commons for Spinal Cord Injury (odc-sci.org). <i>Neuroinformatics</i> , 2022, 20, 203-219.	1.5	10
99	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.	4.9	9
100	Registering Scientific Information Sources for Semantic Mediation. <i>Lecture Notes in Computer Science</i> , 2002, , 182-198.	1.0	9
101	Empowering Data Sharing and Analytics through the Open Data Commons for Traumatic Brain Injury Research. <i>Neurotrauma Reports</i> , 2022, 3, 139-157.	0.5	9
102	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.	1.0	8
103	Ontology driven data integration for autism research. , 2009, , .		8
104	A knowledge based approach to matching human neurodegenerative disease and animal models. <i>Frontiers in Neuroinformatics</i> , 2013, 7, 7.	1.3	8
105	Subcellular localization of mRNA in neuronal cells. <i>Molecular Neurobiology</i> , 1998, 18, 227-246.	1.9	7
106	Interoperability Across Neuroscience Databases. <i>Methods in Molecular Biology</i> , 2007, 401, 23-36.	0.4	7
107	Issues in the Design of a Pilot Concept-Based Query Interface for the Neuroinformatics Information Framework. <i>Neuroinformatics</i> , 2008, 6, 229-239.	1.5	6
108	Specific labeling of connexin43 in NRK cells using tyramide-based signal amplification and fluorescence photooxidation. <i>Microscopy Research and Technique</i> , 2001, 52, 331-343.	1.2	5

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109	Imaging of Big and Messy Biological Structures Using Electron Tomography. <i>Microscopy Today</i> , 2003, 11, 8-15.	0.2	5
110	Database Resources for Cellular Electron Microscopy. <i>Methods in Cell Biology</i> , 2007, 79, 799-822.	0.5	5
111	The Smart Atlas: Spatial and Semantic Strategies for Multiscale Integration of Brain Data. , 2008, , 267-286.		5
112	Towards an ontology for psychosis. <i>Cognitive Systems Research</i> , 2010, 11, 42-52.	1.9	5
113	Connecting Connectomes. <i>Neuroinformatics</i> , 2013, 11, 389-392.	1.5	5
114	<i>Brain and Behavior</i> : we want you to share your data. <i>Brain and Behavior</i> , 2014, 4, 1-3.	1.0	5
115	Improving transparency and scientific rigor in academic publishing. <i>Cancer Reports</i> , 2019, 2, e1150.	0.6	5
116	The Application of Energy-Filtered Electron Microscopy to Tomography of Thick, Selectively Stained Biological Samples. <i>Methods in Cell Biology</i> , 2007, 79, 643-660.	0.5	4
117	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.	1.2	4
118	A tool for assessing alignment of biomedical data repositories with open, FAIR, citation and trustworthy principles. <i>PLoS ONE</i> , 2021, 16, e0253538.	1.1	3
119	Federation of Brain Data through Knowledge-guided Mediation. , 2003, , 275-291.		3
120	Community feedback on scholarly content: why it is important and why it should be preserved. <i>Insights: the UKSG Journal</i> , 2018, 31, .	0.1	3
121	The Neuron Phenotype Ontology: A FAIR Approach to Proposing and Classifying Neuronal Types. <i>Neuroinformatics</i> , 2022, 20, 793-809.	1.5	3
122	Representing Normal and Abnormal Physiology as Routes of Flow in ApiNATOMY. <i>Frontiers in Physiology</i> , 2022, 13, 795303.	1.3	3
123	A decade of <i>GigaScience</i> : the importance of community organizations for open and FAIR efforts in neuroinformatics. <i>GigaScience</i> , 2022, 11, .	3.3	3
124	Antibody Watch: Text mining antibody specificity from the literature. <i>PLoS Computational Biology</i> , 2021, 17, e1008967.	1.5	2
125	Alterations of hippocampal postsynaptic densities following transient ischemia. <i>Hippocampus</i> , 2000, 10, 610-616.	0.9	2
126	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.	0.2	1



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127	Automatic detection of mitochondria from electron microscope tomography images: a curve fitting approach. Proceedings of SPIE, 2014, , .	0.8	1
128	The Scholarly Commons. Serials Librarian, 2019, 76, 220-224.	0.2	1
129	Highlights of Selected Microscopy Research Resource Activities at San Diego. Microscopy and Microanalysis, 1997, 3, 275-276.	0.2	0
130	Correlated 3D Light and Electron Microscopy of Large, Complex Structures: Analysis of Transverse Tubules in Heart Failure. Microscopy and Microanalysis, 1998, 4, 440-441.	0.2	0
131	Bridging the Resolution Gap: Correlated 3D Light and Electron Microscopic Analysis of Large Biological Structures. Microscopy and Microanalysis, 1999, 5, 526-527.	0.2	0
132	STEPHEN J. YOUNG (1938â€“1999). Journal of Structural Biology, 1999, 125, 253.	1.3	0
133	Re-envisioning the business of information: Policies, practices and procedures. Information Services and Use, 2014, 34, 75-84.	0.1	0
134	Using Cloud-Based Resources for Neuroimaging Research: A Practical Approach. NAM Perspectives, 2021, 2021, .	1.3	0
135	Neuron. , 2002, , 507-523.		0
136	Using ontologies to define the relation between neurodegenerative disease and associated animal model phenotypes. Frontiers in Neuroinformatics, 0, 3, .	1.3	0
137	Neuroscience Information Framework (NIF). , 2013, , 1-5.		0
138	dkNET (NIDDK Information Network): Research tools that assist scientists in improving the rigor and reproducibility of their research. FASEB Journal, 2019, 33, 802.60.	0.2	0
139	Cell Centered Database. , 2022, , 692-695.		0
140	Neuroscience Information Framework (NIF). , 2022, , 2454-2458.		0