

# Jean-Marc Verbavatz

## List of Publications by Year in descending order

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85  
papers

7,005  
citations

57719

44  
h-index

60583

81  
g-index

89  
all docs

89  
docs citations

89  
times ranked

9805  
citing authors

#	ARTICLE	IF	CITATIONS
1	The controlled intravenous delivery of drugs using PEG-coated sterically stabilized nanospheres. <i>Advanced Drug Delivery Reviews</i> , 1995, 16, 215-233.	6.6	717
2	A Soluble Carotenoid Protein Involved in Phycobilisome-Related Energy Dissipation in Cyanobacteria. <i>Plant Cell</i> , 2006, 18, 992-1007.	3.1	396
3	Environmental toxins trigger PD-like progression via increased alpha-synuclein release from enteric neurons in mice. <i>Scientific Reports</i> , 2012, 2, 898.	1.6	326
4	Quantitative analysis of the lipidomes of the influenza virus envelope and MDCK cell apical membrane. <i>Journal of Cell Biology</i> , 2012, 196, 213-221.	2.3	242
5	Impaired Stratum Corneum Hydration in Mice Lacking Epidermal Water Channel Aquaporin-3. <i>Journal of Biological Chemistry</i> , 2002, 277, 17147-17153.	1.6	236
6	Tetrameric assembly of CHIP28 water channels in liposomes and cell membranes: a freeze-fracture study. <i>Journal of Cell Biology</i> , 1993, 123, 605-618.	2.3	235
7	Filament formation by metabolic enzymes is a specific adaptation to an advanced state of cellular starvation. <i>ELife</i> , 2014, 3, .	2.8	188
8	±-Synuclein and ALPS motifs are membrane curvature sensors whose contrasting chemistry mediates selective vesicle binding. <i>Journal of Cell Biology</i> , 2011, 194, 89-103.	2.3	177
9	Functional Expression of AQP3 in Human Skin Epidermis and Reconstructed Epidermis. <i>Journal of Investigative Dermatology</i> , 2002, 118, 678-685.	0.3	172
10	Constitutive and regulated membrane expression of aquaporin 1 and aquaporin 2 water channels in stably transfected LLC-PK1 epithelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 7212-7216.	3.3	169
11	Trehalose Renders the Dauer Larva of <i>Caenorhabditis elegans</i> Resistant to Extreme Desiccation. <i>Current Biology</i> , 2011, 21, 1331-1336.	1.8	149
12	Aquaporin-1 plays an essential role in water permeability and ultrafiltration during peritoneal dialysis. <i>Kidney International</i> , 2006, 69, 1518-1525.	2.6	147
13	Biosynthetic Ca <sup>2+</sup> /Sr <sup>2+</sup> Exchange in the Photosystem II Oxygen-evolving Enzyme of <i>Thermosynechococcus elongatus</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 22809-22819.	1.6	145
14	The controlled intravenous delivery of drugs using PEG-coated sterically stabilized nanospheres. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 316-326.	6.6	144
15	Lipids and Their Trafficking: An Integral Part of Cellular Organization. <i>Developmental Cell</i> , 2016, 39, 139-153.	3.1	125
16	Evidence for the Presence of Aquaporin-3 in Human Red Blood Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 8407-8412.	1.6	124
17	Virus-like vesicles and extracellular DNA produced by hyperthermophilic archaea of the order Thermococcales. <i>Research in Microbiology</i> , 2008, 159, 390-399.	1.0	123
18	The SNARE Sec22b has a non-fusogenic function in plasma membrane expansion. <i>Nature Cell Biology</i> , 2014, 16, 434-444.	4.6	123

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19	Role of the surfactant headgroup on the counterion specificity in the micelle-to-vesicle transition through salt addition. <i>Journal of Colloid and Interface Science</i> , 2008, 319, 542-548.	5.0	122
20	Shape control through molecular segregation in giant surfactant aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 15082-15087.	3.3	121
21	Specific Alkali Cation Effects in the Transition from Micelles to Vesicles through Salt Addition. <i>Langmuir</i> , 2007, 23, 2376-2381.	1.6	113
22	Automated tracing of microtubules in electron tomograms of plastic embedded samples of <i>Caenorhabditis elegans</i> embryos. <i>Journal of Structural Biology</i> , 2012, 178, 129-138.	1.3	101
23	Regulation of Aquaporin-1 and Nitric Oxide Synthase Isoforms in a Rat Model of Acute Peritonitis. <i>Journal of the American Society of Nephrology: JASN</i> , 1999, 10, 2185-2196.	3.0	100
24	A Common Highly Conserved Cadmium Detoxification Mechanism from Bacteria to Humans. <i>Journal of Biological Chemistry</i> , 2009, 284, 4936-4943.	1.6	95
25	Co-expression of a Ca <sup>2+</sup> -inhibitable Adenylyl Cyclase and of a Ca <sup>2+</sup> -sensing Receptor in the Cortical Thick Ascending Limb Cell of the Rat Kidney. <i>Journal of Biological Chemistry</i> , 1998, 273, 15192-15202.	1.6	89
26	Skeletal muscle function and water permeability in aquaporin-4 deficient mice. <i>American Journal of Physiology - Cell Physiology</i> , 2000, 278, C1108-C1115.	2.1	88
27	Tuner: Principled Parameter Finding for Image Segmentation Algorithms Using Visual Response Surface Exploration. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2011, 17, 1892-1901.	2.9	88
28	<i>Dictyostelium discoideum</i> has a highly Q/N-rich proteome and shows an unusual resilience to protein aggregation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2620-9.	3.3	87
29	A NOMPC-Dependent Membrane-Microtubule Connector Is a Candidate for the Gating Spring in Fly Mechanoreceptors. <i>Current Biology</i> , 2013, 23, 755-763.	1.8	82
30	Control of peptide nanotube diameter by chemical modifications of an aromatic residue involved in a single close contact. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7679-7684.	3.3	81
31	A Predictive 3D Multi-Scale Model of Biliary Fluid Dynamics in the Liver Lobule. <i>Cell Systems</i> , 2017, 4, 277-290.e9.	2.9	79
32	Chromosome segregation occurs by microtubule pushing in oocytes. <i>Nature Communications</i> , 2017, 8, 1499.	5.8	79
33	Purification and Structure-Function Analysis of Native, PNGase F-Treated, and Endo- $\beta$ -galactosidase-Treated CHIP28 Water Channels. <i>Biochemistry</i> , 1995, 34, 2212-2219.	1.2	77
34	Corticosteroids Induce Expression of Aquaporin-1 and Increase Transcellular Water Transport in Rat Peritoneum. <i>Journal of the American Society of Nephrology: JASN</i> , 2003, 14, 555-565.	3.0	77
35	Skin Aquaporins: Function in Hydration, Wound Healing, and Skin Epidermis Homeostasis. <i>Handbook of Experimental Pharmacology</i> , 2009, , 205-217.	0.9	70
36	cAMP Regulated Membrane Diffusion of a Green Fluorescent Protein-Aquaporin 2 Chimera. <i>Biophysical Journal</i> , 2000, 78, 1024-1035.	0.2	66

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37	PKD1 Haploinsufficiency Causes a Syndrome of Inappropriate Antidiuresis in Mice. <i>Journal of the American Society of Nephrology: JASN</i> , 2007, 18, 1740-1753.	3.0	63
38	Presence of aquaporin-4 and muscarinic receptors in astrocytes and ependymal cells in rat brain: a clue to a common function?. <i>Neuroscience Letters</i> , 2000, 292, 75-78.	1.0	56
39	Aging affects choroidal proteins involved in CSF production in Sprague-Dawley rats. <i>Neurobiology of Aging</i> , 2005, 26, 917-927.	1.5	56
40	Hypervascularization in the Magnocellular Nuclei of the Rat Hypothalamus: Relationship with the Distribution of Aquaporin-4 and Markers of Energy Metabolism. <i>Journal of Neuroendocrinology</i> , 2001, 12, 960-969.	1.2	55
41	Mosquito ( <i>Aedes aegypti</i> ) aquaporin, present in tracheolar cells, transports water, not glycerol, and forms orthogonal arrays in <i>Xenopus</i> oocyte membranes. <i>FEBS Journal</i> , 2003, 270, 422-429.	0.2	53
42	Molecular Origin of the Self-Assembly of Lanreotide into Nanotubes: A Mutational Approach. <i>Biophysical Journal</i> , 2008, 94, 1782-1795.	0.2	53
43	AqF026 Is a Pharmacologic Agonist of the Water Channel Aquaporin-1. <i>Journal of the American Society of Nephrology: JASN</i> , 2013, 24, 1045-1052.	3.0	52
44	GBF1 and Arf1 function in vesicular trafficking, lipid homeostasis and organelle dynamics. <i>Biology of the Cell</i> , 2017, 109, 391-399.	0.7	52
45	Correlative single-molecule localization microscopy and electron tomography reveals endosome nanoscale domains. <i>Traffic</i> , 2019, 20, 601-617.	1.3	49
46	Correction of age-related polyuria by dDAVP: molecular analysis of aquaporins and urea transporters. <i>American Journal of Physiology - Renal Physiology</i> , 2003, 284, F199-F208.	1.3	47
47	A metabolic switch regulates the transition between growth and diapause in <i>C. elegans</i> . <i>BMC Biology</i> , 2020, 18, 31.	1.7	47
48	A Global Approach for Quantitative Super Resolution and Electron Microscopy on Cryo and Epoxy Sections Using Self-labeling Protein Tags. <i>Scientific Reports</i> , 2017, 7, 23.	1.6	43
49	Functional expression of the human CHIP28 water channel in a yeast secretory mutant. <i>FEBS Letters</i> , 1995, 373, 269-274.	1.3	42
50	Collecting duct carcinoma: an entity to be redefined?. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2004, 445, 637-640.	1.4	40
51	Histamine treatment induces rearrangements of orthogonal arrays of particles (OAPs) in human AQP4-expressing gastric cells. <i>Journal of Cell Biology</i> , 2001, 154, 1235-1244.	2.3	38
52	In vivo biodistribution and pharmacokinetics of 18F-labelled Spiegelmers: a new class of oligonucleotidic radiopharmaceuticals. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2005, 32, 470-477.	3.3	38
53	Bcl-2 Inhibits Nuclear Homologous Recombination by Localizing BRCA1 to the Endomembranes. <i>Cancer Research</i> , 2011, 71, 3590-3602.	0.4	38
54	Functional and molecular characterization of a peritoneal dialysis model in the C57BL/6J mouse. <i>Kidney International</i> , 2005, 67, 2021-2031.	2.6	37

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55	The peripheral light-harvesting complexes from purple sulfur bacteria have different "ring" sizes. FEBS Letters, 2008, 582, 3650-3656.	1.3	37
56	Cellular distribution of uranium after acute exposure of renal epithelial cells: SEM, TEM and nuclear microscopy analysis. Nuclear Instruments & Methods in Physics Research B, 2005, 231, 268-273.	0.6	34
57	Spontaneous Vesicle Formation of an Industrial Single-Chain Surfactant at Acidic pH and at Room-Temperature. ChemPhysChem, 2006, 7, 1892-1896.	1.0	33
58	Cellular localization of type 5 and type 6 ACs in collecting duct and regulation of cAMP synthesis. American Journal of Physiology - Renal Physiology, 2000, 279, F185-F194.	1.3	31
59	Automated Stitching of Microtubule Centerlines across Serial Electron Tomograms. PLoS ONE, 2014, 9, e113222.	1.1	31
60	Mixed-Monolayer-Protected Gold Nanoparticles for Emulsion Stabilization. Langmuir, 2010, 26, 1642-1648.	1.6	30
61	Increased Synthesis and AVP Unresponsiveness of Na,K-ATPase in Collecting Duct from Nephrotic Rats. Journal of the American Society of Nephrology: JASN, 2001, 12, 2241-2252.	3.0	30
62	GBF1 and Arf1 interact with Miro and regulate mitochondrial positioning within cells. Scientific Reports, 2018, 8, 17121.	1.6	29
63	The Segmentation of Microtubules in Electron Tomograms Using Amira. Methods in Molecular Biology, 2014, 1136, 261-278.	0.4	29
64	Plasticity of mouse renal collecting duct in response to potassium depletion. Physiological Genomics, 2004, 19, 61-73.	1.0	28
65	Familial Nephrogenic Syndrome of Inappropriate Antidiuresis: Dissociation between Aquaporin-2 and Vasopressin Excretion. Journal of Clinical Endocrinology and Metabolism, 2010, 95, E37-E43.	1.8	27
66	Soluble tubulin is significantly enriched at mitotic centrosomes. Journal of Cell Biology, 2019, 218, 3977-3985.	2.3	26
67	A wax ester promotes collective host finding in the nematode <i>Pristionchus pacificus</i> . Nature Chemical Biology, 2014, 10, 281-285.	3.9	23
68	Ultrastructural organization of NompC in the mechanoreceptive organelle of <i>Drosophila</i> campaniform mechanoreceptors. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7343-7352.	3.3	21
69	Aquaporin-1 in the peritoneal membrane: implications for peritoneal dialysis and endothelial cell function. Biology of the Cell, 2005, 97, 667-673.	0.7	20
70	Wide Scale Range Structure in Polyelectrolyte-protein Dense Complexes: Where Sans Meets Freeze-fracture Microscopy. Journal of Physical Chemistry B, 2007, 111, 8540-8546.	1.2	19
71	Blastulae aggregates: New intermediate structures in the micelle-to-vesicle transition of cationic systems. Journal of Colloid and Interface Science, 2008, 320, 360-363.	5.0	19
72	Determination of Pore Size of Cationic Icosahedral Aggregates. Langmuir, 2004, 20, 8546-8551.	1.6	17

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73	NAD+ Is a Food Component That Promotes Exit from Dauer Diapause in <i>Caenorhabditis elegans</i> . PLoS ONE, 2016, 11, e0167208.	1.1	17
74	Cadmium disorganises the scaffolding of gap and tight junction proteins in the hepatic cell line WIF B9. <i>Biology of the Cell</i> , 2013, 105, 561-575.	0.7	16
75	Open sesame: Identification of sesame oil and oil soot ink in organic deposits of Tang Dynasty lamps from Astana necropolis in China. PLoS ONE, 2017, 12, e0158636.	1.1	13
76	Fluorescing the Electron. <i>Methods in Cell Biology</i> , 2014, 124, 23-54.	0.5	12
77	The RabGAP Proteins Gyp5p and Gyl1p Recruit the BAR Domain Protein Rvs167p for Polarized Exocytosis. <i>Traffic</i> , 2011, 12, 1084-1097.	1.3	9
78	Trans-cellular tunnels induced by the fungal pathogen <i>Candida albicans</i> facilitate invasion through successive epithelial cells without host damage. <i>Nature Communications</i> , 2022, 13, .	5.8	7
79	Transmission Electron Microscopy to Follow Ultrastructural Modifications of Erythroblasts Upon ex vivo Human Erythropoiesis. <i>Frontiers in Physiology</i> , 2021, 12, 791691.	1.3	5
80	Isotopic labelling of photosystem II in <i>Thermosynechococcus elongatus</i> . <i>Photosynthesis Research</i> , 2008, 98, 285-292.	1.6	3
81	Interdependence of the Ypt/RabGAP Gyp5p and Gyl1p for Recruitment to the Sites of Polarized Growth. <i>Traffic</i> , 2008, 9, 608-622.	1.3	3
82	Expression and Regulation of Aquaporin-1 and Endothelial Nitric Oxide Synthase in Relationship with Water Permeability Across the Peritoneum. , 2000, , 69-75.		2
83	Functional Expression of AQP3 in Human Epidermis and Keratinocyte Cell Cultures. , 2000, , 179-183.		2
84	Giant yeast cells with nonrecyclable ribonucleotide reductase. <i>Molecular Genetics and Genomics</i> , 2011, 285, 415-425.	1.0	1
85	Morphodynamics of the yeast Golgi apparatus. , 2008, , 630-646.		0