

Michael L Merchant

List of Publications by Year in descending order

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88
papers

3,563
citations

172207

29
h-index

143772

57
g-index

89
all docs

89
docs citations

89
times ranked

5580
citing authors

#	ARTICLE	IF	CITATIONS
1	In vivo deep network tracing reveals phosphofructokinase-mediated coordination of biosynthetic pathway activity in the myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 162, 32-42.	0.9	6
2	Antitumor activity of a lectibody targeting cancer-associated high-mannose glycans. <i>Molecular Therapy</i> , 2022, 30, 1523-1535.	3.7	14
3	Advances in proteomic profiling of pediatric kidney diseases. <i>Pediatric Nephrology</i> , 2022, 37, 2255-2265.	0.9	10
4	Separation of U87 glioblastoma cell-derived small and medium extracellular vesicles using elasto-inertial flow focusing (a spiral channel). <i>Scientific Reports</i> , 2022, 12, 6146.	1.6	8
5	Neutrophils produce proinflammatory or anti-inflammatory extracellular vesicles depending on the environmental conditions. <i>Journal of Leukocyte Biology</i> , 2021, 109, 793-806.	1.5	37
6	Patients with Proliferative Lupus Nephritis Have Autoantibodies That React to Moesin and Demonstrate Increased Glomerular Moesin Expression. <i>Journal of Clinical Medicine</i> , 2021, 10, 793.	1.0	3
7	The Alphaviral Capsid Protein Inhibits IRAK1-Dependent TLR Signaling. <i>Viruses</i> , 2021, 13, 377.	1.5	5
8	Establishing a Case for Anti-complement Therapy in Membranous Nephropathy. <i>Kidney International Reports</i> , 2021, 6, 484-492.	0.4	11
9	Serine Protease HTRA1 as a Novel Target Antigen in Primary Membranous Nephropathy. <i>Journal of the American Society of Nephrology: JASN</i> , 2021, 32, 1666-1681.	3.0	61
10	The Inhibitory Receptor CLEC12A Regulates PI3K-Akt Signaling to Inhibit Neutrophil Activation and Cytokine Release. <i>Frontiers in Immunology</i> , 2021, 12, 650808.	2.2	16
11	Identification and characterization of a UbK family kinase in <i>Porphyromonas gingivalis</i> that phosphorylates the RprY response regulator. <i>Molecular Oral Microbiology</i> , 2021, 36, 258-266.	1.3	4
12	Nuclear Pyruvate Kinase M2 (PKM2) Contributes to Phosphoserine Aminotransferase 1 (PSAT1)-Mediated Cell Migration in EGFR-Activated Lung Cancer Cells. <i>Cancers</i> , 2021, 13, 3938.	1.7	12
13	Collagen Remodeling Biomarkers in Lupus Nephritis. <i>Kidney360</i> , 2021, 2, 1395-1398.	0.9	0
14	Proteomics and metabolic phenotyping define principal roles for the aryl hydrocarbon receptor in mouse liver. <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 3806-3819.	5.7	17
15	The Utility of Differential Scanning Calorimetry Curves of Blood Plasma for Diagnosis, Subtype Differentiation and Predicted Survival in Lung Cancer. <i>Cancers</i> , 2021, 13, 5326.	1.7	9
16	A Comprehensive Survey of Statistical Approaches for Differential Expression Analysis in Single-Cell RNA Sequencing Studies. <i>Genes</i> , 2021, 12, 1947.	1.0	14
17	Predicting and Defining Steroid Resistance in Pediatric Nephrotic Syndrome Using Plasma Proteomics. <i>Kidney International Reports</i> , 2020, 5, 66-80.	0.4	34
18	Differentiating Staphylococcus infection-associated glomerulonephritis and primary IgA nephropathy: a mass spectrometry-based exploratory study. <i>Scientific Reports</i> , 2020, 10, 17179.	1.6	10

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19	Serum trace metal association with response to erythropoiesis stimulating agents in incident and prevalent hemodialysis patients. <i>Scientific Reports</i> , 2020, 10, 20202.	1.6	2
20	NHERF1 Loss Upregulates Enzymes of the Pentose Phosphate Pathway in Kidney Cortex. <i>Antioxidants</i> , 2020, 9, 862.	2.2	3
21	Proteomic Analysis Identifies Distinct Glomerular Extracellular Matrix in Collapsing Focal Segmental Glomerulosclerosis. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 1883-1904.	3.0	37
22	Redox States of Protein Cysteines in Pathways of Protein Turnover and Cytoskeleton Dynamics Are Changed with Aging and Reversed by Slc7a11 Restoration in Mouse Lung Fibroblasts. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-17.	1.9	10
23	Ewing sarcoma family of tumors-derived small extracellular vesicle proteomics identify potential clinical biomarkers. <i>Oncotarget</i> , 2020, 11, 2995-3012.	0.8	25
24	Evaluating the Effects of Fibrinogen $\hat{\pm}$ C Mutations on the Ability of Factor XIII to Crosslink the Reactive $\hat{\pm}$ C Glutamines (Q237, Q328, Q366). <i>Thrombosis and Haemostasis</i> , 2019, 119, 1048-1057.	1.8	4
25	Circular RNAs as diagnostic tool for renal transplant patients with acute rejection. <i>Annals of Translational Medicine</i> , 2019, 7, S302-S302.	0.7	0
26	Hepatic signalling disruption by pollutant Polychlorinated biphenyls in steatohepatitis. <i>Cellular Signalling</i> , 2019, 53, 132-139.	1.7	15
27	Standardizing Proteomics Workflow for Liquid Chromatography-Mass Spectrometry: Technical and Statistical Considerations. , 2019, 12, 48-55.		14
28	NHERF1 loss results in metabolic stress and increased susceptibility to cisplatin-induced acute kidney injury. <i>FASEB Journal</i> , 2019, 33, 566.4.	0.2	1
29	Proteomic and Phosphoproteomic Analyses Identify Novel Targets Involved in Beneficial Effect of Rolipram on Liver Fibrosis in Mice. <i>FASEB Journal</i> , 2019, 33, 369.12.	0.2	0
30	Interactive Web Tool for Standardizing Proteomics Workflow for Liquid Chromatography-Mass Spectrometry Data. <i>Journal of Proteomics and Bioinformatics</i> , 2019, 12, 85-88.	0.4	2
31	Deficiency of aldose reductase exacerbates early pressure overload-induced cardiac dysfunction and autophagy in mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 118, 183-192.	0.9	23
32	LDL Receptor-Related Protein 2 (Megalin) as a Target Antigen in Human Kidney Anti-Brush Border Antibody Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 644-653.	3.0	57
33	Insights into the Proteome of Gastrointestinal Stromal Tumors-Derived Exosomes Reveals New Potential Diagnostic Biomarkers. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 495-515.	2.5	47
34	Biomarker enhanced risk prediction for development of AKI after cardiac surgery. <i>BMC Nephrology</i> , 2018, 19, 102.	0.8	14
35	Urine inositol pentakisphosphate 2-kinase and changes in kidney structure in early diabetic kidney disease in type 1 diabetes. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, F1484-F1492.	1.3	1
36	Precision medicine in lupus nephritis: can biomarkers get us there?. <i>Translational Research</i> , 2018, 201, 26-39.	2.2	8

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37	Frontline Science: Tumor necrosis factor- α stimulation and priming of human neutrophil granule exocytosis. <i>Journal of Leukocyte Biology</i> , 2017, 102, 19-29.	1.5	28
38	Biomarkers of lupus nephritis histology and flare: deciphering the relevant amidst the noise. <i>Nephrology Dialysis Transplantation</i> , 2017, 32, i71-i79.	0.4	46
39	Loss of NHERF-1 expression prevents dopamine-mediated Na-K-ATPase regulation in renal proximal tubule cells from rat models of hypertension: aged F344 rats and spontaneously hypertensive rats. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 313, C197-C206.	2.1	8
40	Select human cancer mutants of NRMT1 alter its catalytic activity and decrease N ⁶ -terminal trimethylation. <i>Protein Science</i> , 2017, 26, 1639-1652.	3.1	25
41	Characterization of glomerular extracellular matrix by proteomic analysis of laser-captured microdissected glomeruli. <i>Kidney International</i> , 2017, 91, 501-511.	2.6	49
42	Isolation and characterization of urinary extracellular vesicles: implications for biomarker discovery. <i>Nature Reviews Nephrology</i> , 2017, 13, 731-749.	4.1	341
43	Over-expression of insulin-response element binding protein-1 (IRE-BP1) in mouse pancreatic islets increases expression of RACK1 and TCTP: Beta cell markers of high glucose sensitivity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 186-194.	1.1	7
44	Host FIH-Mediated Asparaginyl Hydroxylation of Translocated Legionella pneumophila Effectors. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 54.	1.8	11
45	Plasma bradykinin and early diabetic nephropathy lesions in type 1 diabetes mellitus. <i>PLoS ONE</i> , 2017, 12, e0180964.	1.1	11
46	Evidence that vitronectin is a potent migration-enhancing factor for cancer cells chaperoned by fibrinogen: a novel view of the metastasis of cancer cells to low-fibrinogen lymphatics and body cavities. <i>Oncotarget</i> , 2016, 7, 69829-69843.	0.8	21
47	Influence of Acute High Glucose on Protein Abundance Changes in Murine Glomerular Mesangial Cells. <i>Journal of Diabetes Research</i> , 2016, 2016, 1-11.	1.0	3
48	Identification of an RNA-binding protein that is phosphorylated by PTH and potentially mediates PTH-induced destabilization of Npt2a mRNA. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 310, C205-C215.	2.1	11
49	Low dose ouabain stimulates Na K ATPase α 1 subunit association with angiotensin II type 1 receptor in renal proximal tubule cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2624-2636.	1.9	16
50	Autoantibodies targeting glomerular annexin A2 identify patients with proliferative lupus nephritis. <i>Proteomics - Clinical Applications</i> , 2015, 9, 1012-1020.	0.8	37
51	Increased expression of lysosome membrane protein 2 in glomeruli of patients with idiopathic membranous nephropathy. <i>Proteomics</i> , 2015, 15, 3722-3730.	1.3	28
52	Baclofen, a GABABR Agonist, Ameliorates Immune-Complex Mediated Acute Lung Injury by Modulating Pro-Inflammatory Mediators. <i>PLoS ONE</i> , 2015, 10, e0121637.	1.1	14
53	Functionally and morphologically distinct populations of extracellular vesicles produced by human neutrophilic granulocytes. <i>Journal of Leukocyte Biology</i> , 2015, 98, 583-589.	1.5	45
54	Glutathione S-transferase P protects against cyclophosphamide-induced cardiotoxicity in mice. <i>Toxicology and Applied Pharmacology</i> , 2015, 285, 136-148.	1.3	36

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55	Can the Urinary Peptidome Outperform Creatinine and Albumin to Predict Renal Function Decline?. Journal of the American Society of Nephrology: JASN, 2015, 26, 1760-1761.	3.0	3
56	Comparison of protein expression in kidney tubular apical and basolateral membranes in young and old rats. FASEB Journal, 2015, 29, 969.9.	0.2	0
57	Thrombospondin Type-1 Domain-Containing 7A in Idiopathic Membranous Nephropathy. New England Journal of Medicine, 2014, 371, 2277-2287.	13.9	729
58	Detection of Cervical Cancer Biomarker Patterns in Blood Plasma and Urine by Differential Scanning Calorimetry and Mass Spectrometry. PLoS ONE, 2014, 9, e84710.	1.1	59
59	Calorimetric analysis of the plasma proteome: Identification of type 1 diabetes patients with early renal function decline. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4675-4680.	1.1	20
60	Plasma kininogen and kininogen fragments are biomarkers of progressive renal decline in type 1 diabetes. Kidney International, 2013, 83, 1177-1184.	2.6	36
61	Technical note: proteomic approaches to fundamental questions about neutrophil biology. Journal of Leukocyte Biology, 2013, 94, 683-692.	1.5	18
62	NRMT2 is an N-terminal monomethylase that primes for its homologue NRMT1. Biochemical Journal, 2013, 456, 453-462.	1.7	42
63	Role of Aldose Reductase in the Metabolism and Detoxification of Carnosine-Acrolein Conjugates. Journal of Biological Chemistry, 2013, 288, 28163-28179.	1.6	77
64	Inhibition of Neutrophil Exocytosis Ameliorates Acute Lung Injury in Rats. Shock, 2013, 39, 286-292.	1.0	33
65	Nicotine regulates FasL, activates Mst1, promotes Histone H2B phosphorylation and accelerates neutrophil apoptosis. FASEB Journal, 2013, 27, 1b109.	0.2	0
66	Lipid Peroxidation Product 4-Hydroxy-trans-2-nonenal Causes Endothelial Activation by Inducing Endoplasmic Reticulum Stress. Journal of Biological Chemistry, 2012, 287, 11398-11409.	1.6	105
67	Urinary Proteomics and Candidate Biomarker Discovery for Diabetic Nephropathy. , 2011, , 351-366.		2
68	Oncostatin M receptor β 2 and cysteine/histidine-rich 1 are biomarkers of the response to erythropoietin in hemodialysis patients. Kidney International, 2011, 79, 546-554.	2.6	9
69	Identification of Phosphoproteins Associated with Human Neutrophil Granules Following Chemotactic Peptide Stimulation. Molecular and Cellular Proteomics, 2011, 10, M110.001552.	2.5	16
70	Microfiltration isolation of human urinary exosomes for characterization by MS. Proteomics - Clinical Applications, 2010, 4, 84-96.	0.8	170
71	Ouabain stimulates Na-K-ATPase through a sodium/hydrogen exchanger-1 (NHE-1)-dependent mechanism in human kidney proximal tubule cells. American Journal of Physiology - Renal Physiology, 2010, 299, F77-F90.	1.3	60
72	Proteomic Discovery of Diabetic Nephropathy Biomarkers. Advances in Chronic Kidney Disease, 2010, 17, 480-486.	0.6	18

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73	Mass Spectrometry in Chronic Kidney Disease Research. <i>Advances in Chronic Kidney Disease</i> , 2010, 17, 455-468.	0.6	9
74	Comparison of three methods for isolation of urinary microvesicles to identify biomarkers of nephrotic syndrome. <i>Kidney International</i> , 2010, 78, 810-816.	2.6	228
75	Urinary Peptidome May Predict Renal Function Decline in Type 1 Diabetes and Microalbuminuria. <i>Journal of the American Society of Nephrology: JASN</i> , 2009, 20, 2065-2074.	3.0	136
76	Urine collected from diapers can be used for 2D-PAGE in infants and young children. <i>Proteomics - Clinical Applications</i> , 2009, 3, 989-999.	0.8	4
77	Proteomics and Diabetic Retinopathy. <i>Clinics in Laboratory Medicine</i> , 2009, 29, 139-149.	0.7	11
78	Comparison of Proteins Expressed on Secretory Vesicle Membranes and Plasma Membranes of Human Neutrophils. <i>Journal of Immunology</i> , 2008, 180, 5575-5581.	0.4	88
79	Proteomic analysis of renal calculi indicates an important role for inflammatory processes in calcium stone formation. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 295, F1254-F1258.	1.3	64
80	Proteomic analysis defines altered cellular redox pathways and advanced glycation end-product metabolism in glomeruli of db/db diabetic mice. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 293, F1157-F1165.	1.3	68
81	Hsp27 Regulates Akt Activation and Polymorphonuclear Leukocyte Apoptosis by Scaffolding MK2 to Akt Signal Complex. <i>Journal of Biological Chemistry</i> , 2007, 282, 21598-21608.	1.6	120
82	Proteomics and Diabetic Nephropathy. <i>Seminars in Nephrology</i> , 2007, 27, 627-636.	0.6	27
83	Proteomic Methods for Biomarker Discovery in Urine. <i>Seminars in Nephrology</i> , 2007, 27, 584-596.	0.6	9
84	The Sodium-Hydrogen Exchanger Regulatory Factor NHERF1 is required for apical membrane protein trafficking in renal epithelial cells. <i>FASEB Journal</i> , 2007, 21, A544.	0.2	0
85	Urinary protein expression patterns in children with sleep-disordered breathing: Preliminary findings. <i>Sleep Medicine</i> , 2006, 7, 221-227.	0.8	49
86	Utilization of Human Expert Techniques for Detection of Low-Abundant Peaks in High-Resolution Mass Spectra. , 2006, 2006, 5798-801.		1
87	Discovery of regulatory molecular events and biomarkers using 2D capillary chromatography and mass spectrometry. <i>Expert Review of Proteomics</i> , 2006, 3, 63-74.	1.3	19
88	Myeloid-Related Protein-14 Is a p38 MAPK Substrate in Human Neutrophils. <i>Journal of Immunology</i> , 2005, 174, 7257-7267.	0.4	61