Daniel A Muruve

List of Publications by Year
in descending order

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61 papers	7,478 citations	159585 30 h-index	133252 59 g-index
62 all docs	62 docs citations	62 times ranked	10205 citing authors

#	Article	IF	Citations
1	The inflammasome recognizes cytosolic microbial and host DNA and triggers an innate immune response. Nature, 2008, 452, 103-107.	27.8	838
2	The inflammasome: a danger sensing complex triggering innate immunity. Current Opinion in Immunology, 2007, 19, 615-622.	5.5	640
3	Inflammasomes in the CNS. Nature Reviews Neuroscience, 2014, 15, 84-97.	10.2	537
4	The NLRP3 Inflammasome Promotes Renal Inflammation and Contributes to CKD. Journal of the American Society of Nephrology: JASN, 2010, 21, 1732-1744.	6.1	456
5	Adenoviral Gene Therapy Leads to Rapid Induction of Multiple Chemokines and Acute Neutrophil-Dependent Hepatic Injury in Vivo. Human Gene Therapy, 1999, 10, 965-976.	2.7	440
6	The Innate Immune Response to Adenovirus Vectors. Human Gene Therapy, 2004, 15, 1157-1166.	2.7	371
7	NLRP3 inflammasome plays a key role in the regulation of intestinal homeostasis. Inflammatory Bowel Diseases, 2011, 17, 1359-1372.	1.9	366
8	Calcium oxalate crystals induce renal inflammation by NLRP3-mediated IL-1Î² secretion. Journal of Clinical Investigation, 2013, 123, 236-246.	8.2	364
9	Differential Activation of Innate Immune Responses by Adenovirus and Adeno-Associated Virus Vectors. Journal of Virology, 2002, 76, 4580-4590.	3.4	361
10	The Inflammasomes in Kidney Disease. Journal of the American Society of Nephrology: JASN, 2011, 22, 1007-1018.	6.1	307
11	NOD-like receptors and inflammasomes: A review of their canonical and non-canonical signaling pathways. Archives of Biochemistry and Biophysics, 2019, 670, 4-14.	3.0	250
12	Inflammasome-Independent NLRP3 Augments TGF-Î² Signaling in Kidney Epithelium. Journal of Immunology, 2013, 190, 1239-1249.	0.8	202
13	Clostridium difficile Toxinâ€“Induced Inflammation and Intestinal Injury Are Mediated by the Inflammasome. Gastroenterology, 2010, 139, 542-552.e3.	1.3	198
14	The role of inflammasomes in kidney disease. Nature Reviews Nephrology, 2019, 15, 501-520.	9.6	196
15	Helper-Dependent Adenovirus Vectors Elicit Intact Innate but Attenuated Adaptive Host Immune Responses In Vivo. Journal of Virology, 2004, 78, 5966-5972.	3.4	192
16	The Role of Capsidâ€“Endothelial Interactions in the Innate Immune Response to Adenovirus Vectors. Human Gene Therapy, 2003, 14, 627-643.	2.7	141
17	Adenovirus Vector-Induced Expression of the C-X-C Chemokine IP-10 Is Mediated through Capsid-Dependent Activation of NF-ÎºB. Journal of Virology, 2000, 74, 3941-3947.	3.4	134
18	Activation of p38 and ERK Signaling during Adenovirus Vector Cell Entry Lead to Expression of the C-X-C Chemokine IP-10. Journal of Virology, 2002, 76, 1559-1568.	3.4	123

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19	Mitochondrial NLRP3 Protein Induces Reactive Oxygen Species to Promote Smad Protein Signaling and Fibrosis Independent from the Inflammasome. Journal of Biological Chemistry, 2014, 289, 19571-19584.	3.4	120
20	Shiga Toxin/Lipopolysaccharide Activates Caspase-4 and Gasdermin D to Trigger Mitochondrial Reactive Oxygen Species Upstream of the NLRP3 Inflammasome. Cell Reports, 2018, 25, 1525-1536.e7.	6.4	117
21	Macrophage Uptake of Necrotic Cell DNA Activates the AIM2 Inflammasome to Regulate a Proinflammatory Phenotype in CKD. Journal of the American Society of Nephrology: JASN, 2018, 29, 1165-1181.	6.1	107
22	Adenovirus Vector-Induced Inflammation: Capsid-Dependent Induction of the C-C Chemokine RANTES Requires NF-ÎºB. Human Gene Therapy, 2002, 13, 367-379.	2.7	92
23	Dipeptidase-1 Is an Adhesion Receptor for Neutrophil Recruitment in Lungs and Liver. Cell, 2019, 178, 1205-1221.e17.	28.9	80
24	The NLR Protein NLRP6 Does Not Impact Gut Microbiota Composition. Cell Reports, 2017, 21, 3653-3661.	6.4	79
25	Renal immune surveillance and dipeptidase-1 contribute to contrast-induced acute kidney injury. Journal of Clinical Investigation, 2018, 128, 2894-2913.	8.2	74
26	The innate immune response to DNA. Seminars in Immunology, 2009, 21, 208-214.	5.6	68
27	Biochemical and structural aspects of the ATPâ€binding domain in inflammasomeâ€forming human NLRP proteins. IUBMB Life, 2013, 65, 851-862.	3.4	67
28	NLRP3 Localizes to the Tubular Epithelium in Human Kidney and Correlates With Outcome in IgA Nephropathy. Scientific Reports, 2016, 6, 24667.	3.3	55
29	The characterization of Î±5-integrin expression on tubular epithelium during renal injury. American Journal of Physiology - Renal Physiology, 2007, 292, F567-F576.	2.7	41
30	Dexamethasone sensitizes to ferroptosis by glucocorticoid receptorâ€“induced dipeptidase-1 expression and glutathione depletion. Science Advances, 2022, 8, eabl8920.	10.3	39
31	The role of selectins and integrins in adenovirus vector-induced neutrophil recruitment to the liver. European Journal of Immunology, 2002, 32, 3443-3452.	2.9	36
32	Akt/Protein Kinase B Activation by Adenovirus Vectors Contributes to NFÎºB-Dependent CXCL10 Expression. Journal of Virology, 2005, 79, 14507-14515.	3.4	30
33	A survey of patient perspectives on the research use of health information and biospecimens. BMC Medical Ethics, 2016, 17, 48.	2.4	29
34	Hyperactivity of Innate Immunity Triggers Pain via TLR2-IL-33-Mediated Neuroimmune Crosstalk. Cell Reports, 2020, 33, 108233.	6.4	29
35	Dipeptidase-1 governs renal inflammation during ischemia reperfusion injury. Science Advances, 2022, 8, eabm0142.	10.3	28
36	Trends in Biopsy-Based Diagnosis of Kidney Disease: A Population Study. Canadian Journal of Kidney Health and Disease, 2018, 5, 205435811879969.	1.1	25

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37	The Pore-Lipid Interface: Role of Amino-Acid Determinants of Lipophilic Access by Ivabradine to the hERG1 Pore Domain. Molecular Pharmacology, 2019, 96, 259-271.	2.3	24
38	Use of a murine secreted alkaline phosphatase as a non-immunogenic reporter gene in mice. Journal of Gene Medicine, 2005, 7, 307-315.	2.8	23
39	A Putative ABC Transporter Permease Is Necessary for Resistance to Acidified Nitrite and EDTA in Pseudomonas aeruginosa under Aerobic and Anaerobic Planktonic and Biofilm Conditions. Frontiers in Microbiology, 2016, 7, 291.	3.5	21
40	The biobank for the molecular classification of kidney disease: research translation and precision medicine in nephrology. BMC Nephrology, 2017, 18, 252.	1.8	20
41	Isolation of neutrophils from mouse liver: A novel method to study effector leukocytes during inflammation. Journal of Immunological Methods, 2006, 312, 68-78.	1.4	19
42	Pregnane X Receptor Activation Triggers Rapid ATP Release in Primed Macrophages That Mediates NLRP3 Inflammasome Activation. Journal of Pharmacology and Experimental Therapeutics, 2019, 370, 44-53.	2.5	18
43	Peptide-based biocoatings for corrosion protection of stainless steel biomaterial in a chloride solution. Materials Science and Engineering C, 2016, 68, 695-700.	7.3	13
44	Application of immobilized ATP to the study of NLRP inflammasomes. Archives of Biochemistry and Biophysics, 2019, 670, 104-115.	3.0	13
45	Detecting Proteomic Indicators to Distinguish Diabetic Nephropathy from Hypertensive Nephrosclerosis by Integrating Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging with High-Mass Accuracy Mass Spectrometry. Kidney and Blood Pressure Research, 2020, 45, 233-248.	2.0	12
46	Anticoagulant Related Nephropathy Induced by Dabigatran. Case Reports in Nephrology, 2018, 2018, 1-7.	0.4	10
47	The anti-sigma factor MucA of Pseudomonas aeruginosa: Dramatic differences of a mucA22 vs. a Î”mucA mutant in anaerobic acidified nitrite sensitivity of planktonic and biofilm bacteria in vitro and during chronic murine lung infection. PLoS ONE, 2019, 14, e0216401.	2.5	10
48	A case of aggressive atypical anti-GBM disease complicated by CMV pneumonitis. BMC Nephrology, 2019, 20, 29.	1.8	10
49	AIM2 Suppresses Inflammation and Epithelial Cell Proliferation during Glomerulonephritis. Journal of Immunology, 2021, 207, 2799-2812.	0.8	10
50	Cyclooxygenase-2 Inhibition Limits Angiotensin II-Induced DNA Oxidation and Protein Nitration in Humans. Frontiers in Physiology, 2017, 8, 138.	2.8	9
51	Sociodemographic associations with abnormal estimated glomerular filtration rate (eGFR) in a large Canadian city: a cross-sectional observation study. BMC Nephrology, 2018, 19, 198.	1.8	8
52	AB569, a nontoxic chemical tandem that kills major human pathogenic bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4921-4930.	7.1	6
53	Renal Effects of Peptic Ulcer Therapy. Drug Safety, 1992, 7, 282-291.	3.2	5
54	Quantification of Inflammasome Adaptor Protein ASC in Biological Samples by Multiple-Reaction Monitoring Mass Spectrometry. Inflammation, 2018, 41, 1396-1408.	3.8	5

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55	Postâ€mortem molecular investigations of SARSâ€CoVâ€2 in an unexpected death of a recent kidney transplant recipient. American Journal of Transplantation, 2021, 21, 2590-2595.	4.7	4
56	SARS-CoV-2 Shedding in Dialysis Patients With COVID-19. Kidney International Reports, 2021, 6, 2897-2899.	0.8	3
57	Exaggerated IL-15 and Altered Expression of foxp3+ Cell-Derived Cytokines Contribute to Enhanced Colitis in Nlrp3â^'/â^' Mice. Mediators of Inflammation, 2016, 2016, 1-12.	3.0	1
58	Tissue-selective alternate promoters guide NLRP6 expression. Life Science Alliance, 2021, 4, e202000897.	2.8	1
59	Renal Aspects of Peptic Ulcer Pharmacology. Canadian Journal of Gastroenterology & Hepatology, 1992, 6, 29-34.	1.7	0
60	Regulation of pain signaling by the innate immune system. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2020, 93, 2-S24-1.	0.0	0
61	How Semantics Connotations May Influence Concerns About Donation of Biospecimens. Biopreservation and Biobanking, 2021, 19, 156-162.	1.0	0