

Irving C Allen

List of Publications by Year in descending order

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99
papers

7,356
citations

87723

38
h-index

56606

83
g-index

100
all docs

100
docs citations

100
times ranked

10070
citing authors

#	ARTICLE	IF	CITATIONS
1	Histotripsy Ablation in Preclinical Animal Models of Cancer and Spontaneous Tumors in Veterinary Patients: A Review. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 5-26.	1.7	17
2	Histotripsy for the Treatment of Cholangiocarcinoma in a Patient-Derived Xenograft Mouse Model. Ultrasound in Medicine and Biology, 2022, 48, 293-303.	0.7	3
3	Employing Novel Porcine Models of Subcutaneous Pancreatic Cancer to Evaluate Oncological Therapies. Methods in Molecular Biology, 2022, 2394, 883-895.	0.4	5
4	Methods to evaluate virus-mediated acute lung inflammation. Methods in Cell Biology, 2022, 168, 329-341.	0.5	0
5	Experimental and Numerical Investigation of Parameters Affecting High-Frequency Irreversible Electroporation for Prostate Cancer Ablation. Journal of Biomechanical Engineering, 2022, 144, .	0.6	8
6	Type I Interferon Response Is Mediated by NLRX1-cGAS-STING Signaling in Brain Injury. Frontiers in Molecular Neuroscience, 2022, 15, 852243.	1.4	11
7	Exploration of Novel Pathways Underlying Irreversible Electroporation Induced Anti-Tumor Immunity in Pancreatic Cancer. Frontiers in Oncology, 2022, 12, 853779.	1.3	6
8	Alginate microencapsulation of an attenuated O-antigen mutant of Francisella tularensis LVS as a model for a vaccine delivery vehicle. PLoS ONE, 2022, 17, e0259807.	1.1	2
9	NLRX1 Deficiency Alters the Gut Microbiome and Is Further Exacerbated by Adherence to a Gluten-Free Diet. Frontiers in Immunology, 2022, 13, 882521.	2.2	4
10	Cold sensor, hot topic: TRPM8 plays a role in monocyte function and differentiation. Journal of Leukocyte Biology, 2022, , .	1.5	3
11	Detecting DNA: An Overview of DNA Recognition by Inflammasomes and Protection against Bacterial Respiratory Infections. Cells, 2022, 11, 1681.	1.8	3
12	High intensity focused ultrasound for the treatment of solid tumors: a pilot study in canine cancer patients. International Journal of Hyperthermia, 2022, 39, 855-864.	1.1	6
13	Multi-Tissue Analysis on the Impact of Electroporation on Electrical and Thermal Properties. IEEE Transactions on Biomedical Engineering, 2021, 68, 771-782.	2.5	18
14	Targeted Delivery of Persulfides to the Gut: Effects on the Microbiome. Angewandte Chemie - International Edition, 2021, 60, 6061-6067.	7.2	22
15	Targeted Delivery of Persulfides to the Gut: Effects on the Microbiome. Angewandte Chemie, 2021, 133, 6126-6132.	1.6	5
16	Regulation of neonatal IgA production by the maternal microbiota. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	23
17	Establishing an immunocompromised porcine model of human cancer for novel therapy development with pancreatic adenocarcinoma and irreversible electroporation. Scientific Reports, 2021, 11, 7584.	1.6	16
18	Cardiovascular function, pulmonary gas exchange and tissue oxygenation in isoflurane-anesthetized, mechanically ventilated Beagle dogs with four levels of positive end-expiratory pressure. Veterinary Anaesthesia and Analgesia, 2021, 48, 324-333.	0.3	7

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19	Immunological Effects of Histotripsy for Cancer Therapy. <i>Frontiers in Oncology</i> , 2021, 11, 681629.	1.3	32
20	Noncanonical NF- κ B Signaling Upregulation in Inflammatory Bowel Disease Patients is Associated With Loss of Response to Anti-TNF Agents. <i>Frontiers in Pharmacology</i> , 2021, 12, 655887.	1.6	16
21	Focused ultrasound tumour ablation in small animal oncology. <i>Veterinary and Comparative Oncology</i> , 2021, 19, 411-419.	0.8	5
22	The Pro-Inflammatory Chemokines CXCL9, CXCL10 and CXCL11 Are Upregulated Following SARS-CoV-2 Infection in an AKT-Dependent Manner. <i>Viruses</i> , 2021, 13, 1062.	1.5	88
23	Histotripsy Ablation of Bone Tumors: Feasibility Study in Excised Canine Osteosarcoma Tumors. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 3435-3446.	0.7	15
24	Histotripsy Ablation Alters the Tumor Microenvironment and Promotes Immune System Activation in a Subcutaneous Model of Pancreatic Cancer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2987-3000.	1.7	31
25	Histotripsy for the Treatment of Cholangiocarcinoma Liver Tumors: <i>In Vivo</i> Feasibility and <i>Ex Vivo</i> Dosimetry Study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2953-2964.	1.7	17
26	Isolation of a novel insect-specific flavivirus with immunomodulatory effects in vertebrate systems. <i>Virology</i> , 2021, 562, 50-62.	1.1	14
27	Generation of Tumor-activated T cells Using Electroporation. <i>Bioelectrochemistry</i> , 2021, 142, 107886.	2.4	5
28	Enemy of My Enemy: A Novel Insect-Specific Flavivirus Offers a Promising Platform for a Zika Virus Vaccine. <i>Vaccines</i> , 2021, 9, 1142.	2.1	9
29	Understanding the role of calcium-mediated cell death in high-frequency irreversible electroporation. <i>Bioelectrochemistry</i> , 2020, 131, 107369.	2.4	36
30	ASC-Mediated Inflammation and Pyroptosis Attenuates <i>Brucella abortus</i> Pathogenesis Following the Recognition of gDNA. <i>Pathogens</i> , 2020, 9, 1008.	1.2	8
31	Starting a Fire Without Flame: The Induction of Cell Death and Inflammation in Electroporation-Based Tumor Ablation Strategies. <i>Frontiers in Oncology</i> , 2020, 10, 1235.	1.3	52
32	To protect or adversely affect? The dichotomous role of the NLRP1 inflammasome in human disease. <i>Molecular Aspects of Medicine</i> , 2020, 76, 100858.	2.7	25
33	Patient Derived Xenografts Expand Human Primary Pancreatic Tumor Tissue Availability for <i>ex vivo</i> Irreversible Electroporation Testing. <i>Frontiers in Oncology</i> , 2020, 10, 843.	1.3	15
34	Fabrication and characterization of PLGA nanoparticles encapsulating large CRISPR-Cas9 plasmid. <i>Journal of Nanobiotechnology</i> , 2020, 18, 16.	4.2	47
35	High-Frequency Irreversible Electroporation for Treatment of Primary Liver Cancer: A Proof-of-Principle Study in Canine Hepatocellular Carcinoma. <i>Journal of Vascular and Interventional Radiology</i> , 2020, 31, 482-491.e4.	0.2	40
36	Using Computer-based Image Analysis to Improve Quantification of Lung Metastasis in the 4T1 Breast Cancer Model. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	2

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37	Peripheral loss of EphA4 ameliorates TBI-induced neuroinflammation and tissue damage. <i>Journal of Neuroinflammation</i> , 2019, 16, 210.	3.1	23
38	NLRX1 Is a Multifaceted and Enigmatic Regulator of Immune System Function. <i>Frontiers in Immunology</i> , 2019, 10, 2419.	2.2	52
39	High-frequency irreversible electroporation is an effective tumor ablation strategy that induces immunologic cell death and promotes systemic anti-tumor immunity. <i>EBioMedicine</i> , 2019, 44, 112-125.	2.7	116
40	Natural, incidental, and engineered nanomaterials and their impacts on the Earth system. <i>Science</i> , 2019, 363, .	6.0	479
41	Maternal Influence and Murine Housing Confound Impact of NLRP1 Inflammasome on Microbiome Composition. <i>Journal of Innate Immunity</i> , 2019, 11, 416-431.	1.8	15
42	Precision Implementation of Minimal Erythema Dose (MED) Testing to Assess Individual Variation in Human Inflammatory Response. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	1
43	Pulmonary Exposure to MagnÃ©li Phase Titanium Suboxides Results in Significant Macrophage Abnormalities and Decreased Lung Function. <i>Frontiers in Immunology</i> , 2019, 10, 2714.	2.2	12
44	Nanoscale Bacteriaâ€Enabled Autonomous Drug Delivery System (NanoBEADS) Enhances Intratumoral Transport of Nanomedicine. <i>Advanced Science</i> , 2019, 6, 1801309.	5.6	104
45	Modulating inflammation through the negative regulation of NF-Î³B signaling. <i>Journal of Leukocyte Biology</i> , 2018, 103, 1131-1150.	1.5	71
46	Design and Fabrication of Streptavidin-Functionalized, Fluorescently Labeled Polymeric Nanocarriers. <i>Langmuir</i> , 2018, 34, 15783-15794.	1.6	6
47	Utilizing the Lung as a Model to Study Nanoparticle-Based Drug Delivery Systems. <i>Methods in Molecular Biology</i> , 2018, 1831, 179-190.	0.4	4
48	Emerging Developments in Microbiome and Microglia Research: Implications for Neurodevelopmental Disorders. <i>Frontiers in Immunology</i> , 2018, 9, 1993.	2.2	16
49	Photo-triggered release of 5-fluorouracil from a MOF drug delivery vehicle. <i>Chemical Communications</i> , 2018, 54, 7617-7620.	2.2	92
50	Enhanced Mucosal Defense and Reduced Tumor Burden in Mice with the Compromised Negative Regulator IRAK-M. <i>EBioMedicine</i> , 2017, 15, 36-47.	2.7	20
51	NLRX1 Regulates Effector and Metabolic Functions of CD4+ T Cells. <i>Journal of Immunology</i> , 2017, 198, 2260-2268.	0.4	47
52	TIPS pentacene loaded PEO-PDLLA core-shell nanoparticles have similar cellular uptake dynamics in M1 and M2 macrophages and in corresponding in vivo microenvironments. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1255-1266.	1.7	13
53	Loss of NLRX1 Exacerbates Neural Tissue Damage and NF-Î³B Signaling following Brain Injury. <i>Journal of Immunology</i> , 2017, 199, 3547-3558.	0.4	46
54	Antibiotics ameliorate lupus-like symptoms in mice. <i>Scientific Reports</i> , 2017, 7, 13675.	1.6	93

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55	Integrated STAT3 and Ikaros Zinc Finger Transcription Factor Activities Regulate Bcl-6 Expression in CD4+ Th Cells. <i>Journal of Immunology</i> , 2017, 199, 2377-2387.	0.4	39
56	Irreversible electroporation inhibits pro-cancer inflammatory signaling in triple negative breast cancer cells. <i>Bioelectrochemistry</i> , 2017, 113, 42-50.	2.4	23
57	Noncanonical NF- κ B signaling and the essential kinase NIK modulate crucial features associated with eosinophilic esophagitis pathogenesis. <i>DMM Disease Models and Mechanisms</i> , 2017, 10, 1517-1527.	1.2	24
58	Effect of <i>Salmonella enterica</i> serovar Typhimurium VNP20009 and VNP20009 with restored chemotaxis on 4T1 mouse mammary carcinoma progression. <i>Oncotarget</i> , 2017, 8, 33601-33613.	0.8	21
59	Beyond the inflammasome: regulatory NOD-like receptor modulation of the host immune response following virus exposure. <i>Journal of General Virology</i> , 2016, 97, 825-838.	1.3	96
60	Holding the Inflammatory System in Check: TLRs and NLRs. <i>Mediators of Inflammation</i> , 2016, 2016, 1-2.	1.4	0
61	Caspase-11 Modulates Inflammation and Attenuates <i>Toxoplasma gondii</i> Pathogenesis. <i>Mediators of Inflammation</i> , 2016, 2016, 1-14.	1.4	25
62	Nonessential Role for the NLRP1 Inflammasome Complex in a Murine Model of Traumatic Brain Injury. <i>Mediators of Inflammation</i> , 2016, 2016, 1-11.	1.4	51
63	The Goldilocks Conundrum: NLR Inflammasome Modulation of Gastrointestinal Inflammation during Inflammatory Bowel Disease. <i>Critical Reviews in Immunology</i> , 2016, 36, 283-314.	1.0	22
64	Emerging Roles for Noncanonical NF- κ B Signaling in the Modulation of Inflammatory Bowel Disease Pathobiology. <i>Inflammatory Bowel Diseases</i> , 2016, 22, 2265-2279.	0.9	122
65	The Ex Vivo&/em> Culture and Pattern Recognition Receptor Stimulation of Mouse Intestinal Organoids. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	4
66	<i>Lactobacillus rhamnosus</i> GG modulates innate signaling pathway and cytokine responses to rotavirus vaccine in intestinal mononuclear cells of gnotobiotic pigs transplanted with human gut microbiota. <i>BMC Microbiology</i> , 2016, 16, 109.	1.3	35
67	An orphaned <i>Mycobacterium tuberculosis</i> associated membrane protein of <i>Mycobacterium tuberculosis</i> is a virulence factor that stabilizes <i>Mycobacterium tuberculosis</i> transporters. <i>Molecular Microbiology</i> , 2016, 100, 90-107.	1.2	34
68	NLRX1 suppresses tumorigenesis and attenuates histiocytic sarcoma through the negative regulation of NF- κ B signaling. <i>Oncotarget</i> , 2016, 7, 33096-33110.	0.8	37
69	The NLRP1 Inflammasome Attenuates Colitis and Colitis-Associated Tumorigenesis. <i>Journal of Immunology</i> , 2015, 194, 3369-3380.	0.4	121
70	Caspase-11 attenuates gastrointestinal inflammation and experimental colitis pathogenesis. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 308, G139-G150.	1.6	45
71	Non-Inflammasome Forming NLRs in Inflammation and Tumorigenesis. <i>Frontiers in Immunology</i> , 2014, 5, 169.	2.2	67
72	The Utilization of Oropharyngeal Intratracheal PAMP Administration and Bronchoalveolar Lavage to Evaluate the Host Immune Response in Mice. <i>Journal of Visualized Experiments</i> , 2014, , .	0.2	15

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73	Emerging Significance of NLRs in Inflammatory Bowel Disease. <i>Inflammatory Bowel Diseases</i> , 2014, 20, 2412-2432.	0.9	49
74	Cyclicâ€”GMP and cyclicâ€”AMP activate the NLRP3 inflammasome. <i>EMBO Reports</i> , 2013, 14, 900-906.	2.0	75
75	Delayed-Type Hypersensitivity Models in Mice. <i>Methods in Molecular Biology</i> , 2013, 1031, 101-107.	0.4	22
76	Bacteria-Mediated Acute Lung Inflammation. <i>Methods in Molecular Biology</i> , 2013, 1031, 163-175.	0.4	11
77	Characterization of NLRP12 during the In Vivo Host Immune Response to <i>Klebsiella pneumoniae</i> and <i>Mycobacterium tuberculosis</i> . <i>PLoS ONE</i> , 2013, 8, e60842.	1.1	50
78	Analysis of the Murine Immune Response to Pulmonary Delivery of Precisely Fabricated Nano- and Microscale Particles. <i>PLoS ONE</i> , 2013, 8, e62115.	1.1	53
79	Contact Hypersensitivity Models in Mice. <i>Methods in Molecular Biology</i> , 2013, 1032, 139-144.	0.4	9
80	Induction of Allergic Airway Disease Using House Dust Mite Allergen. <i>Methods in Molecular Biology</i> , 2013, 1032, 159-172.	0.4	1
81	<i>Staphylococcus aureus</i> α -Hemolysin Mediates Virulence in a Murine Model of Severe Pneumonia Through Activation of the NLRP3 Inflammasome. <i>Journal of Infectious Diseases</i> , 2012, 205, 807-817.	1.9	209
82	The innate immune sensor NLRC3 attenuates Toll-like receptor signaling via modification of the signaling adaptor TRAF6 and transcription factor NF- κ B. <i>Nature Immunology</i> , 2012, 13, 823-831.	7.0	279
83	NLRP12 Suppresses Colon Inflammation and Tumorigenesis through the Negative Regulation of Noncanonical NF- κ B Signaling. <i>Immunity</i> , 2012, 36, 742-754.	6.6	421
84	Analysis of NLRP3 in the Development of Allergic Airway Disease in Mice. <i>Journal of Immunology</i> , 2012, 188, 2884-2893.	0.4	90
85	TLR2/MyD88/NF- κ B Pathway, Reactive Oxygen Species, Potassium Efflux Activates NLRP3/ASC Inflammasome during Respiratory Syncytial Virus Infection. <i>PLoS ONE</i> , 2012, 7, e29695.	1.1	202
86	Characterization of NLRP12 during the Development of Allergic Airway Disease in Mice. <i>PLoS ONE</i> , 2012, 7, e30612.	1.1	35
87	NLRX1 Protein Attenuates Inflammatory Responses to Infection by Interfering with the RIG-I-MAVS and TRAF6-NF- κ B Signaling Pathways. <i>Immunity</i> , 2011, 34, 854-865.	6.6	323
88	A NOD to zebrafish models of inflammatory bowel disease pathogenesis. <i>DMM Disease Models and Mechanisms</i> , 2011, 4, 711-712.	1.2	9
89	The NLR Adaptor ASC/PYCARD Regulates DUSP10, Mitogen-activated Protein Kinase (MAPK), and Chemokine Induction Independent of the Inflammasome. <i>Journal of Biological Chemistry</i> , 2011, 286, 19605-19616.	1.6	78
90	The NLRP3 inflammasome functions as a negative regulator of tumorigenesis during colitis-associated cancer. <i>Journal of Experimental Medicine</i> , 2010, 207, 1045-1056.	4.2	689

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91	Deletion of <i>ripA</i> Alleviates Suppression of the Inflammasome and MAPK by <i>Francisella tularensis</i> . <i>Journal of Immunology</i> , 2010, 185, 5476-5485.	0.4	66
92	Cutting Edge: NLRP12 Controls Dendritic and Myeloid Cell Migration To Affect Contact Hypersensitivity. <i>Journal of Immunology</i> , 2010, 185, 4515-4519.	0.4	134
93	The Inflammasome Component Nlrp3 Impairs Antitumor Vaccine by Enhancing the Accumulation of Tumor-Associated Myeloid-Derived Suppressor Cells. <i>Cancer Research</i> , 2010, 70, 10161-10169.	0.4	139
94	Granuloma Formation and Host Defense in Chronic Mycobacterium tuberculosis Infection Requires PYCARD/ASC but Not NLRP3 or Caspase-1. <i>PLoS ONE</i> , 2010, 5, e12320.	1.1	136
95	<i>Staphylococcus aureus</i> α -Hemolysin Activates the NLRP3-Inflammasome in Human and Mouse Monocytic Cells. <i>PLoS ONE</i> , 2009, 4, e7446.	1.1	354
96	Cooperation between Mast Cells and Neurons Is Essential for Antigen-Mediated Bronchoconstriction. <i>Journal of Immunology</i> , 2009, 182, 7430-7439.	0.4	57
97	NLRP3 (NALP3, Cryopyrin) Facilitates In Vivo Caspase-1 Activation, Necrosis, and HMGB1 Release via Inflammasome-Dependent and -Independent Pathways. <i>Journal of Immunology</i> , 2009, 183, 2008-2015.	0.4	308
98	Searching for an improved mouse model of allergic airway disease using dual allergen exposures. <i>DMM Disease Models and Mechanisms</i> , 2009, 2, 519-520.	1.2	5
99	The NLRP3 Inflammasome Mediates In Vivo Innate Immunity to Influenza A Virus through Recognition of Viral RNA. <i>Immunity</i> , 2009, 30, 556-565.	6.6	943