

Rajendra Karki

List of Publications by Year in descending order

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62
papers

8,697
citations

76326

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docs citations

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times ranked

10632
citing authors

#	ARTICLE	IF	CITATIONS
1	The Transcription Factor IRF9 Promotes Colorectal Cancer via Modulating the IL-6/STAT3 Signaling Axis. <i>Cancers</i> , 2022, 14, 919.	3.7	6
2	NLR4 Deficiency Leads to Enhanced Phosphorylation of MLKL and Necroptosis. <i>ImmunoHorizons</i> , 2022, 6, 243-252.	1.8	4
3	ZBP1-dependent inflammatory cell death, PANoptosis, and cytokine storm disrupt IFN therapeutic efficacy during coronavirus infection. <i>Science Immunology</i> , 2022, 7, eabo6294.	11.9	82
4	Ets-2 deletion in myeloid cells attenuates IL-1 β -mediated inflammatory disease caused by a Ptpn6 point mutation. <i>Cellular and Molecular Immunology</i> , 2021, 18, 1798-1808.	10.5	7
5	Synergism of TNF- α and IFN- γ Triggers Inflammatory Cell Death, Tissue Damage, and Mortality in SARS-CoV-2 Infection and Cytokine Shock Syndromes. <i>Cell</i> , 2021, 184, 149-168.e17.	28.9	923
6	DDX3X coordinates host defense against influenza virus by activating the NLRP3 inflammasome and type I interferon response. <i>Journal of Biological Chemistry</i> , 2021, 296, 100579.	3.4	35
7	TLR2 senses the SARS-CoV-2 envelope protein to produce inflammatory cytokines. <i>Nature Immunology</i> , 2021, 22, 829-838.	14.5	364
8	Inflammatory Cell Death, PANoptosis, Mediated by Cytokines in Diverse Cancer Lineages Inhibits Tumor Growth. <i>ImmunoHorizons</i> , 2021, 5, 568-580.	1.8	88
9	The "cytokine storm": molecular mechanisms and therapeutic prospects. <i>Trends in Immunology</i> , 2021, 42, 681-705.	6.8	156
10	AIM2 forms a complex with pyrin and ZBP1 to drive PANoptosis and host defence. <i>Nature</i> , 2021, 597, 415-419.	27.8	221
11	ADAR1 restricts ZBP1-mediated immune response and PANoptosis to promote tumorigenesis. <i>Cell Reports</i> , 2021, 37, 109858.	6.4	157
12	Cutting Edge: Caspase-8 Is a Linchpin in Caspase-3 and Gasdermin D Activation to Control Cell Death, Cytokine Release, and Host Defense during Influenza A Virus Infection. <i>Journal of Immunology</i> , 2021, 207, 2411-2416.	0.8	14
13	Caspase-6 promotes activation of the caspase-11-NLRP3 inflammasome during gram-negative bacterial infections. <i>Journal of Biological Chemistry</i> , 2021, 297, 101379.	3.4	8
14	The nonreceptor tyrosine kinase SYK drives caspase-8/NLRP3 inflammasome-mediated autoinflammatory osteomyelitis. <i>Journal of Biological Chemistry</i> , 2020, 295, 3394-3400.	3.4	14
15	Galactosaminogalactan activates the inflammasome to provide host protection. <i>Nature</i> , 2020, 588, 688-692.	27.8	78
16	Impaired NLRP3 inflammasome activation/pyroptosis leads to robust inflammatory cell death via caspase-8/RIPK3 during coronavirus infection. <i>Journal of Biological Chemistry</i> , 2020, 295, 14040-14052.	3.4	144
17	ZBP1 promotes fungi-induced inflammasome activation and pyroptosis, apoptosis, and necroptosis (PANoptosis). <i>Journal of Biological Chemistry</i> , 2020, 295, 18276-18283.	3.4	94
18	Interferon inducible GBPs restrict <i>Burkholderia thailandensis</i> motility induced cell-cell fusion. <i>PLoS Pathogens</i> , 2020, 16, e1008364.	4.7	15

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19	IRF8 Regulates Gram-Negative Bacteria-Mediated NLRP3 Inflammasome Activation and Cell Death. <i>Journal of Immunology</i> , 2020, 204, 2514-2522.	0.8	19
20	Identification of the PANoptosome: A Molecular Platform Triggering Pyroptosis, Apoptosis, and Necroptosis (PANoptosis). <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 237.	3.9	235
21	Caspase-6 Is a Key Regulator of Innate Immunity, Inflammasome Activation, and Host Defense. <i>Cell</i> , 2020, 181, 674-687.e13.	28.9	252
22	Interferon regulatory factor 1 regulates PANoptosis to prevent colorectal cancer. <i>JCI Insight</i> , 2020, 5, .	5.0	125
23	RIPK1 Distinctly Regulates <i>Yersinia</i> -Induced Inflammatory Cell Death, PANoptosis. <i>ImmunoHorizons</i> , 2020, 4, 789-796.	1.8	69
24	Innate immune adaptor MyD88 deficiency prevents skin inflammation in SHARPIN-deficient mice. <i>Cell Death and Differentiation</i> , 2019, 26, 741-750.	11.2	29
25	Role of AIM2 inflammasome in inflammatory diseases, cancer and infection. <i>European Journal of Immunology</i> , 2019, 49, 1998-2011.	2.9	162
26	DDX3X acts as a live-or-die checkpoint in stressed cells by regulating NLRP3 inflammasome. <i>Nature</i> , 2019, 573, 590-594.	27.8	262
27	Mitochondrial Stress-Initiated Aberrant Activation of the NLRP3 Inflammasome Regulates the Functional Deterioration of Hematopoietic Stem Cell Aging. <i>Cell Reports</i> , 2019, 26, 945-954.e4.	6.4	98
28	Diverging inflammasome signals in tumorigenesis and potential targeting. <i>Nature Reviews Cancer</i> , 2019, 19, 197-214.	28.4	426
29	Fungal ligands released by innate immune effectors promote inflammasome activation during <i>Aspergillus fumigatus</i> infection. <i>Nature Microbiology</i> , 2019, 4, 316-327.	13.3	53
30	ASK Family Kinases Are Required for Optimal NLRP3 Inflammasome Priming. <i>American Journal of Pathology</i> , 2018, 188, 1021-1030.	3.8	17
31	Pyrin Inflammasome Regulates Tight Junction Integrity to Restrict Colitis and Tumorigenesis. <i>Gastroenterology</i> , 2018, 154, 948-964.e8.	1.3	112
32	IRF8 Regulates Transcription of Naips for NLRC4 Inflammasome Activation. <i>Cell</i> , 2018, 173, 920-933.e13.	28.9	142
33	Detrimental Type I Interferon Signaling Dominates Protective AIM2 Inflammasome Responses during <i>Francisella novicida</i> Infection. <i>Cell Reports</i> , 2018, 22, 3168-3174.	6.4	32
34	Gasdermin D Promotes AIM2 Inflammasome Activation and Is Required for Host Protection against <i>Francisella novicida</i> . <i>Journal of Immunology</i> , 2018, 201, 3662-3668.	0.8	48
35	Guanylate binding proteins facilitate caspase-11-dependent pyroptosis in response to type 3 secretion system-negative <i>Pseudomonas aeruginosa</i> . <i>Cell Death Discovery</i> , 2018, 4, 3.	4.7	51
36	The NLRC4 inflammasome requires IRF8-dependent production of NAIPs. <i>Cell Stress</i> , 2018, 2, 144-146.	3.2	0

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37	Inflammasomes and Cancer. <i>Cancer Immunology Research</i> , 2017, 5, 94-99.	3.4	290
38	Molecular mechanisms and functions of pyroptosis, inflammatory caspases and inflammasomes in infectious diseases. <i>Immunological Reviews</i> , 2017, 277, 61-75.	6.0	1,104
39	NLRC3 regulates cellular proliferation and apoptosis to attenuate the development of colorectal cancer. <i>Cell Cycle</i> , 2017, 16, 1243-1251.	2.6	60
40	Differential roles of caspase-1 and caspase-11 in infection and inflammation. <i>Scientific Reports</i> , 2017, 7, 45126.	3.3	109
41	NLRC3 is an inhibitory sensor of PI3K-mTOR pathways in cancer. <i>Nature</i> , 2016, 540, 583-587.	27.8	160
42	Cepharanthine inhibits in vitro VSMC proliferation and migration and vascular inflammatory responses mediated by RAW264.7. <i>Toxicology in Vitro</i> , 2016, 34, 16-25.	2.4	74
43	DNA-sensing inflammasomes: regulation of bacterial host defense and the gut microbiota. <i>Pathogens and Disease</i> , 2016, 74, ftw028.	2.0	37
44	Alkaloid rich fraction from <i>Nelumbo nucifera</i> targets VSMC proliferation and migration to suppress restenosis in balloon-injured rat carotid artery. <i>Atherosclerosis</i> , 2016, 248, 179-189.	0.8	59
45	IRGB10 Liberates Bacterial Ligands for Sensing by the AIM2 and Caspase-11-NLRP3 Inflammasomes. <i>Cell</i> , 2016, 167, 382-396.e17.	28.9	237
46	AIM2 inflammasome in infection, cancer, and autoimmunity: Role in DNA sensing, inflammation, and innate immunity. <i>European Journal of Immunology</i> , 2016, 46, 269-280.	2.9	253
47	Cathepsin B modulates lysosomal biogenesis and host defense against <i>Francisella novicida</i> infection. <i>Journal of Experimental Medicine</i> , 2016, 213, 2081-2097.	8.5	72
48	ZBP1/DAI is an innate sensor of influenza virus triggering the NLRP3 inflammasome and programmed cell death pathways. <i>Science Immunology</i> , 2016, 1, .	11.9	464
49	Concerted Activation of the AIM2 and NLRP3 Inflammasomes Orchestrates Host Protection against <i>Aspergillus</i> Infection. <i>Cell Host and Microbe</i> , 2015, 17, 357-368.	11.0	227
50	Critical Role for the DNA Sensor AIM2 in Stem Cell Proliferation and Cancer. <i>Cell</i> , 2015, 162, 45-58.	28.9	266
51	An NLRP3 inflammasome-triggered Th2-biased adaptive immune response promotes leishmaniasis. <i>Journal of Clinical Investigation</i> , 2015, 125, 1329-1338.	8.2	113
52	The transcription factor IRF1 and guanylate-binding proteins target activation of the AIM2 inflammasome by <i>Francisella</i> infection. <i>Nature Immunology</i> , 2015, 16, 467-475.	14.5	291
53	Toll-like receptor 4 signaling: A common pathway for interactions between prooxidants and extracellular disulfide high mobility group box 1 (HMGB1) protein-coupled activation. <i>Biochemical Pharmacology</i> , 2015, 98, 132-143.	4.4	31
54	Activation of c-Src: A hub for exogenous pro-oxidant-mediated activation of Toll-like receptor 4 signaling. <i>Free Radical Biology and Medicine</i> , 2014, 71, 256-269.	2.9	15

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55	Magnolol attenuates neointima formation by inducing cell cycle arrest via inhibition of ERK1/2 and NF- κ B activation in vascular smooth muscle cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 2619-2628.	2.4	39
56	Nelumbo nucifera leaf extract inhibits neointimal hyperplasia through modulation of smooth muscle cell proliferation and migration. <i>Nutrition</i> , 2013, 29, 268-275.	2.4	29
57	Magnolol inhibits migration of vascular smooth muscle cells via cytoskeletal remodeling pathway to attenuate neointima formation. <i>Experimental Cell Research</i> , 2013, 319, 3238-3250.	2.6	28
58	Extract of buckwheat sprouts scavenges oxidation and inhibits pro-inflammatory mediators in lipopolysaccharide-stimulated macrophages (RAW264.7). <i>Journal of Integrative Medicine</i> , 2013, 11, 246-252.	3.1	68
59	Toll-Like Receptor 4-Mediated Nuclear Factor Kappa B Activation Is Essential for Sensing Exogenous Oxidants to Propagate and Maintain Oxidative/Nitrosative Cellular Stress. <i>PLoS ONE</i> , 2013, 8, e73840.	2.5	40
60	Inhibitory Effect of Nelumbo nucifera (Gaertn.) on the Development of Atopic Dermatitis-Like Skin Lesions in NC/Nga Mice. <i>Evidence-based Complementary and Alternative Medicine</i> , 2012, 2012, 1-7.	1.2	22
61	Magnoliae Cortex inhibits intimal thickening of carotid artery through modulation of proliferation and migration of vascular smooth muscle cells. <i>Food and Chemical Toxicology</i> , 2012, 50, 634-640.	3.6	22
62	Chungtaejeon, a Korean Fermented Tea, Scavenges Oxidation and Inhibits Cytokine Induced Proliferation and Migration of Human Aortic Smooth Muscle Cells. <i>Plant Foods for Human Nutrition</i> , 2011, 66, 27-33.	3.2	18