David Brough

List of Publications by Year
in descending order

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84	7,215	76326	60623
papers	citations	40 h-index	81 g-index

92	92	92	12507
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Understanding the mechanism of IL-1Î² secretion. Cytokine and Growth Factor Reviews, 2011, 22, 189-195.	7.2	970
2	Consensus guidelines for the detection of immunogenic cell death. OncoImmunology, 2014, 3, e955691.	4.6	686
3	The NLRP3 inflammasome is released as a particulate danger signal that amplifies the inflammatory response. Nature Immunology, 2014, 15, 738-748.	14.5	668
4	Fenamate NSAIDs inhibit the NLRP3 inflammasome and protect against Alzheimerâ€™s disease in rodent models. Nature Communications, 2016, 7, 12504.	12.8	328
5	Molecular and Translational Classifications of DAMPs in Immunogenic Cell Death. Frontiers in Immunology, 2015, 6, 588.	4.8	317
6	AIM2 and NLRC4 inflammasomes contribute with ASC to acute brain injury independently of NLRP3. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4050-4055.	7.1	211
7	Caspase-1-dependent processing of pro-interleukin-1Î² is cytosolic and precedes cell death. Journal of Cell Science, 2007, 120, 772-781.	2.0	210
8	NLRP3-Inflammasome Activating DAMPs Stimulate an Inflammatory Response in Glia in the Absence of Priming Which Contributes to Brain Inflammation after Injury. Frontiers in Immunology, 2012, 3, 288.	4.8	161
9	Deubiquitinases Regulate the Activity of Caspase-1 and Interleukin-1Î² Secretion via Assembly of the Inflammasome. Journal of Biological Chemistry, 2013, 288, 2721-2733.	3.4	154
10	Microglia and macrophages differentially modulate cell death after brain injury caused by oxygenâ€glucose deprivation in organotypic brain slices. Glia, 2013, 61, 813-824.	4.9	143
11	Ca2+ Stores and Ca2+ Entry Differentially Contribute to the Release of IL-1Î² and IL-1Î± from Murine Macrophages. Journal of Immunology, 2003, 170, 3029-3036.	0.8	139
12	Release of Interleukin-1Î± or Interleukin-1Î² Depends on Mechanism of Cell Death. Journal of Biological Chemistry, 2014, 289, 15942-15950.	3.4	133
13	Chloride regulates dynamic NLRP3-dependent ASC oligomerization and inflammasome priming. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9371-E9380.	7.1	131
14	USP7 and USP47 deubiquitinases regulate NLRP3 inflammasome activation. EMBO Reports, 2018, 19, .	4.5	131
15	Inflammasomes link vascular disease with neuroinflammation and brain disorders. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1668-1685.	4.3	129
16	Purinergic (P2X7) Receptor Activation of Microglia Induces Cell Death via an Interleukin-1-Independent Mechanism. Molecular and Cellular Neurosciences, 2002, 19, 272-280.	2.2	122
17	Inhibiting the Inflammasome: A Chemical Perspective. Journal of Medicinal Chemistry, 2016, 59, 1691-1710.	6.4	113
18	Inflammasomes as therapeutic targets for <scp>A</scp>lzheimer's disease. Brain Pathology, 2017, 27, 223-234.	4.1	110

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19	Priming Is Dispensable for NLRP3 Inflammasome Activation in Human Monocytes In Vitro. Frontiers in Immunology, 2020, 11, 565924.	4.8	92
20	Interleukin-1 receptor antagonist is beneficial after subarachnoid haemorrhage in rat by blocking haem-driven inflammatory pathology. DMM Disease Models and Mechanisms, 2012, 5, 823-33.	2.4	89
21	Apoptosis-Associated Speck-like Protein Containing a CARD Forms Specks but Does Not Activate Caspase-1 in the Absence of NLRP3 during Macrophage Swelling. Journal of Immunology, 2015, 194, 1261-1273.	0.8	83
22	Sphingosine regulates the NLRP3â€inflammasome and ILâ€1Î² release from macrophages. European Journal of Immunology, 2012, 42, 716-725.	2.9	79
23	The NLRP3â€“inflammasome as a sensor of organelle dysfunction. Journal of Cell Biology, 2020, 219, .	5.2	79
24	Boron-Based Inhibitors of the NLRP3 Inflammasome. Cell Chemical Biology, 2017, 24, 1321-1335.e5.	5.2	77
25	Regulation of interleukin-1 in acute brain injury. Trends in Pharmacological Sciences, 2011, 32, 617-622.	8.7	71
26	Reproducibility of CRISPR-Cas9 methods for generation of conditional mouse alleles: a multi-center evaluation. Genome Biology, 2019, 20, 171.	8.8	69
27	Microglial Priming as Trained Immunity in the Brain. Neuroscience, 2019, 405, 47-54.	2.3	68
28	Mechanisms of NLRP3 priming in inflammaging and age related diseases. Cytokine and Growth Factor Reviews, 2020, 55, 15-25.	7.2	66
29	Inhibiting the NLRP3 Inflammasome. Molecules, 2020, 25, 5533.	3.8	66
30	Redefining the ancestral origins of the interleukin-1 superfamily. Nature Communications, 2018, 9, 1156.	12.8	60
31	A selective, non-peptide caspase-1 inhibitor, VRT-018858, markedly reduces brain damage induced by transient ischemia in the rat. Neuropharmacology, 2007, 53, 638-642.	4.1	57
32	Dendritic Cell IL-1Îł and IL-1Î² Are Polyubiquitinated and Degraded by the Proteasome. Journal of Biological Chemistry, 2014, 289, 35582-35592.	3.4	54
33	Pannexinâ€1â€dependent caspaseâ€1 activation and secretion of ILâ€1Î² is regulated by zinc. European Journal of Immunology, 2009, 39, 352-358.	2.9	52
34	The three cytokines IL-1Î², IL-18, and IL-1Îł share related but distinct secretory routes. Journal of Biological Chemistry, 2019, 294, 8325-8335.	3.4	52
35	Anti-inflammatories in Alzheimerâ€™s diseaseâ€”potential therapy or spurious correlate?. Brain Communications, 2020, 2, fcaa109.	3.3	52
36	Acidosis Drives Damage-associated Molecular Pattern (DAMP)-induced Interleukin-1 Secretion via a Caspase-1-independent Pathway. Journal of Biological Chemistry, 2013, 288, 30485-30494.	3.4	50

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37	Anakinra in COVID-19: important considerations for clinical trials. Lancet Rheumatology, The, 2020, 2, e379-e381.	3.9	47
38	Potassium efflux fires the canon: Potassium efflux as a common trigger for canonical and noncanonical NLRP3 pathways. European Journal of Immunology, 2015, 45, 2758-2761.	2.9	46
39	Nuclear retention of ILâ€1Î± by necrotic cells: A mechanism to dampen sterile inflammation. European Journal of Immunology, 2009, 39, 2973-2980.	2.9	45
40	Unconventional Pathways of Secretion Contribute to Inflammation. International Journal of Molecular Sciences, 2017, 18, 102.	4.1	43
41	Small, Thin Graphene Oxide Is Anti-inflammatory Activating Nuclear Factor Erythroid 2-Related Factor 2 via Metabolic Reprogramming. ACS Nano, 2018, 12, 11949-11962.	14.6	43
42	Zinc Status Alters Alzheimer's Disease Progression through NLRP3-Dependent Inflammation. Journal of Neuroscience, 2021, 41, 3025-3038.	3.6	41
43	Novel perspectives on non-canonical inflammasome activation. ImmunoTargets and Therapy, 2015, 4, 131.	5.8	39
44	An emerging case for membrane pore formation as a common mechanism for the unconventional secretion of FGF2 and IL-1Î². Journal of Cell Science, 2017, 130, 3197-3202.	2.0	39
45	The Dynamics and Mechanisms of Interleukinâ€1Î± and Î² Nuclear Import. Traffic, 2009, 10, 16-25.	2.7	38
46	Extent of Ischemic Brain Injury After Thrombotic Stroke Is Independent of the NLRP3 (NACHT, LRR and) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.0	38
47	Targeting the IL33â€"NLRP3 axis improves therapy for experimental cerebral malaria. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7404-7409.	7.1	37
48	Interleukinâ€1Î± and brain inflammation. IUBMB Life, 2015, 67, 323-330.	3.4	36
49	Inhibition of the NLRP3 inflammasome by HSP90 inhibitors. Immunology, 2021, 162, 84-91.	4.4	36
50	P2X7 receptorâ€dependent tuning of gut epithelial responses to infection. Immunology and Cell Biology, 2017, 95, 178-188.	2.3	35
51	Cathelicidin is a â€œfire alarmâ€ generating protective NLRP3-dependent airway epithelial cell inflammatory responses during infection with Pseudomonas aeruginosa. PLoS Pathogens, 2019, 15, e1007694.	4.7	35
52	The inflammatory microenvironment in vestibular schwannoma. Neuro-Oncology Advances, 2020, 2, vdaa023.	0.7	35
53	Itaconate and fumarate derivatives inhibit priming and activation of the canonical NLRP3 inflammasome in macrophages. Immunology, 2022, 165, 460-480.	4.4	33
54	Haematopoietic stem cell gene therapy with <scp>IL</scp> â€1Ra rescues cognitive loss in mucopolysaccharidosis <scp>IIIA</scp>. EMBO Molecular Medicine, 2020, 12, e11185.	6.9	31

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55	Salmonella typhimurium-induced IL-1 release from primary human monocytes requires NLRP3 and can occur in the absence of pyroptosis. Scientific Reports, 2017, 7, 6861.	3.3	30
56	Loss of hepatocyte cell division leads to liver inflammation and fibrosis. PLoS Genetics, 2020, 16, e1009084.	3.5	29
57	LRRC8A is essential for hypotonicity-, but not for DAMP-induced NLRP3 inflammasome activation. ELife, 2020, 9, .	6.0	29
58	P2X7R activation drives distinct IL-1 responses in dendritic cells compared to macrophages. Cytokine, 2015, 74, 293-304.	3.2	28
59	Development of a characterised tool kit for the interrogation of NLRP3 inflammasome-dependent responses. Scientific Reports, 2018, 8, 5667.	3.3	27
60	Interleukinâ€1 as a pharmacological target in acute brain injury. Experimental Physiology, 2015, 100, 1488-1494.	2.0	26
61	Co-design of a Smartphone App for People Living With Dementia by Applying Agile, Iterative Co-design Principles: Development and Usability Study. JMIR MHealth and UHealth, 2022, 10, e24483.	3.7	26
62	Design, Synthesis and Evaluation of Oxazaborine Inhibitors of the NLRP3 Inflammasome. ChemMedChem, 2018, 13, 312-320.	3.2	23
63	Inflammasome-Independent Role for NLRP3 in Controlling Innate Antihelminth Immunity and Tissue Repair in the Lung. Journal of Immunology, 2019, 203, 2724-2734.	0.8	20
64	The two pore potassium channel <scp>THIK</scp>â€1 regulates <scp>NLRP3</scp> inflammasome activation. Glia, 2022, 70, 1301-1316.	4.9	19
65	Gene Ontology Curation of Neuroinflammation Biology Improves the Interpretation of Alzheimerâ€™s Disease Gene Expression Data. Journal of Alzheimer's Disease, 2020, 75, 1417-1435.	2.6	18
66	Is Targeting the Inflammasome a Way Forward for Neuroscience Drug Discovery?. SLAS Discovery, 2018, 23, 991-1017.	2.7	17
67	Assessing Inflammation in Acute Intracerebral Hemorrhage with PK11195 PET and Dynamic Contrast-Enhanced MRI. , 2018, 28, 158-161.		15
68	Improving the Gene Ontology Resource to Facilitate More Informative Analysis and Interpretation of Alzheimerâ€™s Disease Data. Genes, 2018, 9, 593.	2.4	15
69	Value of dynamic clinical and biomarker data for mortality risk prediction in COVID-19: a multicentre retrospective cohort study. BMJ Open, 2020, 10, e041983.	1.9	14
70	Acid-dependent Interleukin-1 (IL-1) Cleavage Limits Available Pro-IL-1Î² for Caspase-1 Cleavage. Journal of Biological Chemistry, 2015, 290, 25374-25381.	3.4	13
71	Synthesis and antibacterial activities of enamine derivatives of dehydroacetic acid. Medicinal Chemistry Research, 2018, 27, 884-889.	2.4	13
72	Hallmarks of NLRP3 inflammasome activation are observed in organotypic hippocampal slice culture. Immunology, 2020, 161, 39-52.	4.4	12

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73	Bafilomycin A1 enhances NLRP3 inflammasome activation in human monocytes independent of lysosomal acidification. FEBS Journal, 2021, 288, 3186-3196.	4.7	10
74	A phenotypic high-content, high-throughput screen identifies inhibitors of NLRP3 inflammasome activation. Scientific Reports, 2021, 11, 15319.	3.3	10
75	Selective inhibition of the K⁺ efflux sensitive NLRP3 pathway by Cl^{â^'} channel modulation. Chemical Science, 2020, 11, 11720-11728.	7.4	9
76	Pro-IL-1Î² Is an Early Prognostic Indicator of Severe Donor Lung Injury During Ex Vivo Lung Perfusion. Transplantation, 2021, 105, 768-774.	1.0	7
77	<scp>LRRC8A</scp> is dispensable for a variety of microglial functions and response to acute stroke. Glia, 2022, 70, 1068-1083.	4.9	7
78	Beyond Antoni: A Surgeon's Guide to the Vestibular Schwannoma Microenvironment. Journal of Neurological Surgery, Part B: Skull Base, 2022, 83, 001-010.	0.8	4
79	Response to correspondence on â€œReproducibility of CRISPR-Cas9 methods for generation of conditional mouse alleles: a multi-center evaluationâ€. Genome Biology, 2021, 22, 99.	8.8	4
80	Renal hemofiltration prevents metabolic acidosis and reduces inflammation during normothermic machine perfusion of the vascularized composite allograft: A preclinical study. Artificial Organs, 2022, 46, 259-272.	1.9	4
81	Fabrication of Amyloid-β-Secreting Alginate Microbeads for Use in Modelling Alzheimer's Disease. Journal of Visualized Experiments, 2019, , .	0.3	3
82	CRISPR/Cas9 mediated mutation of mouse IL-1Î± nuclear localisation sequence abolishes expression. Scientific Reports, 2017, 7, 17077.	3.3	2
83	Evidence That a TRPA1-Mediated Murine Model of Temporomandibular Joint Pain Involves NLRP3 Inflammasome Activation. Pharmaceuticals, 2021, 14, 1073.	3.8	1
84	Investigating IL-1Î² Secretion Using Real-Time Single-Cell Imaging. Methods in Molecular Biology, 2016, 1417, 75-88.	0.9	0