Andrew G Bowie

List of Publications by Year
in descending order

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112 papers	19,377 citations	28274 55 h-index	24982 109 g-index
117 all docs	117 docs citations	117 times ranked	22334 citing authors

#	Article	IF	Citations
1	The family of five: TIR-domain-containing adaptors in Toll-like receptor signalling. Nature Reviews Immunology, 2007, 7, 353-364.	22.7	2,285
2	IFI16 is an innate immune sensor for intracellular DNA. Nature Immunology, 2010, 11, 997-1004.	14.5	1,369
3	The history of Toll-like receptors â€" redefining innate immunity. Nature Reviews Immunology, 2013, 13, 453-460.	22.7	1,338
4	Mal (MyD88-adapter-like) is required for Toll-like receptor-4 signal transduction. Nature, 2001, 413, 78-83.	27.8	1,122
5	Oxidative stress and nuclear factor-Î°B activation. Biochemical Pharmacology, 2000, 59, 13-23.	4.4	850
6	Immune Sensing of DNA. Immunity, 2013, 38, 870-880.	14.3	672
7	Viral evasion and subversion of pattern-recognition receptor signalling. Nature Reviews Immunology, 2008, 8, 911-922.	22.7	616
8	The Tollâ€"IL-1 receptor adaptor family grows to five members. Trends in Immunology, 2003, 24, 286-289.	6.8	457
9	Structures of the HIN Domain:DNA Complexes Reveal Ligand Binding and Activation Mechanisms of the AIM2 Inflammasome and IFI16 Receptor. Immunity, 2012, 36, 561-571.	14.3	456
10	The human adaptor SARM negatively regulates adaptor protein TRIFâ€"dependent Toll-like receptor signaling. Nature Immunology, 2006, 7, 1074-1081.	14.5	453
11	The Vaccine Adjuvant Chitosan Promotes Cellular Immunity via DNA Sensor cGAS-STING-Dependent Induction of Type I Interferons. Immunity, 2016, 44, 597-608.	14.3	429
12	A46R and A52R from vaccinia virus are antagonists of host IL-1 and toll-like receptor signaling. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 10162-10167.	7.1	422
13	Non-canonical Activation of the DNA Sensing Adaptor STING by ATM and IFI16 Mediates NF-Î°B Signaling after Nuclear DNA Damage. Molecular Cell, 2018, 71, 745-760.e5.	9.7	417
14	The interleukin-1 receptor/Toll-like receptor superfamily: signal generators for pro-inflammatory interleukins and microbial products. Journal of Leukocyte Biology, 2000, 67, 508-514.	3.3	408
15	Viral targeting of DEAD box protein 3 reveals its role in TBK1/IKKÉ›-mediated IRF activation. EMBO Journal, 2008, 27, 2147-2157.	7.8	339
16	Vaccinia virus protein A46R targets multiple Toll-likeâ€"interleukin-1 receptor adaptors and contributes to virulence. Journal of Experimental Medicine, 2005, 201, 1007-1018.	8.5	335
17	The Poxvirus Protein A52R Targets Toll-like Receptor Signaling Complexes to Suppress Host Defense. Journal of Experimental Medicine, 2003, 197, 343-351.	8.5	334
18	Recognition of herpesviruses by the innate immune system. Nature Reviews Immunology, 2011, 11, 143-154.	22.7	293

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19	Vitamin C Inhibits NF-ÎºB Activation by TNF Via the Activation of p38 Mitogen-Activated Protein Kinase. Journal of Immunology, 2000, 165, 7180-7188.	0.8	284
20	The interleukin-1 receptor-associated kinases: Critical regulators of innate immune signalling. Biochemical Pharmacology, 2010, 80, 1981-1991.	4.4	251
21	IFI16 and cGAS cooperate in the activation of STING during DNA sensing in human keratinocytes. Nature Communications, 2017, 8, 14392.	12.8	251
22	Viral immune modulators perturb the human molecular network by common and unique strategies. Nature, 2012, 487, 486-490.	27.8	249
23	Innate immune detection of microbial nucleic acids. Trends in Microbiology, 2013, 21, 413-420.	7.7	230
24	The role of Toll-like receptors in the host response to viruses. Molecular Immunology, 2005, 42, 859-867.	2.2	221
25	Detection of Viral Infections by Innate Immunity. Biochemical Pharmacology, 2021, 183, 114316.	4.4	216
26	Poxvirus Protein N1L Targets the I-ÎºB Kinase Complex, Inhibits Signaling to NF-ÎºB by the Tumor Necrosis Factor Superfamily of Receptors, and Inhibits NF-ÎºB and IRF3 Signaling by Toll-like Receptors. Journal of Biological Chemistry, 2004, 279, 36570-36578.	3.4	205
27	TLR3 in antiviral immunity: key player or bystander?. Trends in Immunology, 2005, 26, 462-468.	6.8	199
28	Innate immune recognition of DNA: A recent history. Virology, 2015, 479-480, 146-152.	2.4	197
29	Cytosolic DNA sensors regulating type I interferon induction. Trends in Immunology, 2011, 32, 574-581.	6.8	182
30	IRAK-2 Participates in Multiple Toll-like Receptor Signaling Pathways to NFÎºB via Activation of TRAF6 Ubiquitination. Journal of Biological Chemistry, 2007, 282, 33435-33443.	3.4	181
31	Lipid Peroxidation Is Involved in the Activation of NF-ÎºB by Tumor Necrosis Factor but Not Interleukin-1 in the Human Endothelial Cell Line ECV304. Journal of Biological Chemistry, 1997, 272, 25941-25950.	3.4	175
32	Glycosylated low density lipoprotein is more sensitive to oxidation: implications for the diabetic patient?. Atherosclerosis, 1993, 102, 63-67.	0.8	171
33	Proteasomal Degradation of Herpes Simplex Virus Capsids in Macrophages Releases DNA to the Cytosol for Recognition by DNA Sensors. Journal of Immunology, 2013, 190, 2311-2319.	0.8	171
34	Sensing and Signaling in Antiviral Innate Immunity. Current Biology, 2010, 20, R328-R333.	3.9	168
35	Activation of Innate Defense against a Paramyxovirus Is Mediated by RIG-I and TLR7 and TLR8 in a Cell-Type-Specific Manner. Journal of Virology, 2005, 79, 12944-12951.	3.4	162
36	Malaria parasite DNA-harbouring vesicles activate cytosolic immune sensors. Nature Communications, 2017, 8, 1985.	12.8	160

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37	Nucleotide-binding Oligomerization Domain-1 and Epidermal Growth Factor Receptor. Journal of Biological Chemistry, 2006, 281, 11637-11648.	3.4	158
38	Activation of host pattern recognition receptors by viruses. Current Opinion in Microbiology, 2010, 13, 503-507.	5.1	148
39	Vaccinia Virus Protein C6 Is a Virulence Factor that Binds TBK-1 Adaptor Proteins and Inhibits Activation of IRF3 and IRF7. PLoS Pathogens, 2011, 7, e1002247.	4.7	146
40	Ras, Protein Kinase CÎ¶, and IÎºB Kinases 1 and 2 Are Downstream Effectors of CD44 During the Activation of NF-ÎºB by Hyaluronic Acid Fragments in T-24 Carcinoma Cells. Journal of Immunology, 2000, 164, 2053-2063.	0.8	135
41	Evaluating the role of Toll-like receptors in diseases of the central nervous system. Biochemical Pharmacology, 2011, 81, 825-837.	4.4	135
42	Viral Inhibitory Peptide of TLR4, a Peptide Derived from Vaccinia Protein A46, Specifically Inhibits TLR4 by Directly Targeting MyD88 Adaptor-Like and TRIF-Related Adaptor Molecule. Journal of Immunology, 2010, 185, 4261-4271.	0.8	125
43	Neuronal toll-like receptor 4 signaling induces brain endothelial activation and neutrophil transmigration in vitro. Journal of Neuroinflammation, 2012, 9, 230.	7.2	113
44	Viral Activation of Macrophages through TLR-Dependent and -Independent Pathways. Journal of Immunology, 2004, 173, 6890-6898.	0.8	109
45	The interplay between viruses and innate immune signaling: Recent insights and therapeutic opportunities. Biochemical Pharmacology, 2008, 75, 589-602.	4.4	109
46	Cell Survival and Cytokine Release after Inflammasome Activation Is Regulated by the Toll-IL-1R Protein SARM. Immunity, 2019, 50, 1412-1424.e6.	14.3	97
47	Poxvirus Targeting of E3 Ligase Î²-TrCP by Molecular Mimicry: A Mechanism to Inhibit NF-ÎºB Activation and Promote Immune Evasion and Virulence. PLoS Pathogens, 2013, 9, e1003183.	4.7	95
48	Polyinosinic Acid Is a Ligand for Toll-like Receptor 3. Journal of Biological Chemistry, 2007, 282, 24759-24766.	3.4	94
49	Poxvirus K7 Protein Adopts a Bcl-2 Fold: Biochemical Mapping of Its Interactions with Human DEAD Box RNA Helicase DDX3. Journal of Molecular Biology, 2009, 385, 843-853.	4.2	92
50	TRAM Is Required for TLR2 Endosomal Signaling to Type I IFN Induction. Journal of Immunology, 2014, 193, 6090-6102.	0.8	92
51	Transactivation by the p65 Subunit of NF-ÎºB in Response to Interleukin-1 (IL-1) Involves MyD88, IL-1 Receptor-Associated Kinase 1, TRAF-6, and Rac1. Molecular and Cellular Biology, 2001, 21, 4544-4552.	2.3	81
52	The emerging role of human PYHIN proteins in innate immunity: Implications for health and disease. Biochemical Pharmacology, 2014, 92, 405-414.	4.4	71
53	Schlafen-1 Causes a Cell Cycle Arrest by Inhibiting Induction of Cyclin D1. Journal of Biological Chemistry, 2005, 280, 30723-30734.	3.4	69
54	Vaccinia Virus Protein A52R Activates p38 Mitogen-activated Protein Kinase and Potentiates Lipopolysaccharide-induced Interleukin-10. Journal of Biological Chemistry, 2005, 280, 30838-30844.	3.4	67

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55	<scp>DNA</scp> sensors are expressed in astrocytes and microglia in vitro and are upregulated during gliosis in neurodegenerative disease. Glia, 2015, 63, 812-825.	4.9	62
56	Innate antiviral signalling in the central nervous system. Trends in Immunology, 2014, 35, 79-87.	6.8	59
57	RIG-I: tri-ing to discriminate between self and non-self RNA. Trends in Immunology, 2007, 28, 147-150.	6.8	53
58	The Endocannabinoid, Anandamide, Augments Notch-1 Signaling in Cultured Cortical Neurons Exposed to Amyloid-Î² and in the Cortex of Aged Rats. Journal of Biological Chemistry, 2012, 287, 34709-34721.	3.4	46
59	SARM1 deficiency promotes rod and cone photoreceptor cell survival in a model of retinal degeneration. Life Science Alliance, 2020, 3, e201900618.	2.8	42
60	Viral appropriation of apoptotic and NF-?B signaling pathways. Journal of Cellular Biochemistry, 2004, 91, 1099-1108.	2.6	40
61	Innate immune activation of NFÎºB and its antagonism by poxviruses. Cytokine and Growth Factor Reviews, 2014, 25, 611-620.	7.2	40
62	Translational Mini-Review Series on Toll-like Receptors:â€¨Recent advances in understanding the role of Toll-like receptors in anti-viral immunity. Clinical and Experimental Immunology, 2007, 147, 217-226.	2.6	38
63	The TLR signaling adaptor TRAM interacts with TRAF6 to mediate activation of the inflammatory response by TLR4. Journal of Leukocyte Biology, 2014, 96, 427-436.	3.3	38
64	A novel anti-viral role for STAT3 in IFN-Î± signalling responses. Cellular and Molecular Life Sciences, 2017, 74, 1755-1764.	5.4	36
65	Toll-like receptor 2â€“dependent endosomal signaling by Staphylococcus aureus in monocytes induces type I interferon and promotes intracellular survival. Journal of Biological Chemistry, 2019, 294, 17031-17042.	3.4	36
66	The STING in the Tail for Cytosolic DNAâ€“Dependent Activation of IRF3. Science Signaling, 2012, 5, pe9.	3.6	35
67	Poxviral Protein A46 Antagonizes Toll-like Receptor 4 Signaling by Targeting BB Loop Motifs in Toll-IL-1 Receptor Adaptor Proteins to Disrupt Receptor:Adaptor Interactions. Journal of Biological Chemistry, 2012, 287, 22672-22682.	3.4	33
68	SARM: From immune regulator to cell executioner. Biochemical Pharmacology, 2019, 161, 52-62.	4.4	33
69	Human Interleukin-1 Receptor-associated Kinase-2 Is Essential for Toll-like Receptor-mediated Transcriptional and Post-transcriptional Regulation of Tumor Necrosis Factor Î±. Journal of Biological Chemistry, 2011, 286, 23688-23697.	3.4	31
70	Poxvirus Protein MC132 from Molluscum Contagiosum Virus Inhibits NF-ÎºB Activation by Targeting p65 for Degradation. Journal of Virology, 2015, 89, 8406-8415.	3.4	31
71	Molluscum Contagiosum Virus Protein MC005 Inhibits NF-ÎºB Activation by Targeting NEMO-Regulated IÎºB Kinase Activation. Journal of Virology, 2017, 91, .	3.4	31
72	Innate sensing of bacterial cyclic dinucleotides: more than just STING. Nature Immunology, 2012, 13, 1137-1139.	14.5	30

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73	Viral Inhibition of IL-1- and Neutrophil Elastase-Induced Inflammatory Responses in Bronchial Epithelial Cells. Journal of Immunology, 2005, 175, 7594-7601.	0.8	29
74	Dual NADPH oxidases DUOX1 and DUOX2 synthesize NAADP and are necessary for Ca ²⁺ signaling during T cell activation. Science Signaling, 2021, 14, eabe3800.	3.6	28
75	Alum Activates the Bovine NLRP3 Inflammasome. Frontiers in Immunology, 2017, 8, 1494.	4.8	27
76	A frequent hypofunctional IRAK2 variant is associated with reduced spontaneous hepatitis C virus clearance. Hepatology, 2015, 62, 1375-1387.	7.3	25
77	Unexpected roles for DEADâ€box protein 3 in viral RNA sensing pathways. European Journal of Immunology, 2010, 40, 933-935.	2.9	24
78	SARM Regulates CCL5 Production in Macrophages by Promoting the Recruitment of Transcription Factors and RNA Polymerase II to the Ccl5 Promoter. Journal of Immunology, 2014, 192, 4821-4832.	0.8	23
79	Innate DNA Sensing Moves to the Nucleus. Cell Host and Microbe, 2011, 9, 351-353.	11.0	22
80	The Powerstroke and Camshaft of the RIG-I Antiviral RNA Detection Machine. Cell, 2011, 147, 259-261.	28.9	22
81	Malaria parasites both repress host CXCL10 and use it as a cue for growth acceleration. Nature Communications, 2021, 12, 4851.	12.8	22
82	A Coding IRAK2 Protein Variant Compromises Toll-like receptor (TLR) Signaling and Is Associated with Colorectal Cancer Survival. Journal of Biological Chemistry, 2014, 289, 23123-23131.	3.4	18
83	Poxviral protein E3â€“altered cytokine production reveals that DExD/H-box helicase 9 controls Toll-like receptorâ€–stimulated immune responses. Journal of Biological Chemistry, 2018, 293, 14989-15001.	3.4	18
84	Myeloid cell nuclear differentiation antigen controls the pathogen-stimulated type I interferon cascade in human monocytes by transcriptional regulation of IRF7. Nature Communications, 2022, 13, 14.	12.8	18
85	TRIM-ing down Tolls. Nature Immunology, 2008, 9, 348-350.	14.5	17
86	Modulation of Innate Immune Signalling Pathways by Viral Proteins. Advances in Experimental Medicine and Biology, 2009, 666, 49-63.	1.6	17
87	Role of Non-degradative Ubiquitination in Interleukin-1 and Toll-like Receptor Signaling. Journal of Biological Chemistry, 2009, 284, 8211-8215.	3.4	16
88	Low pH andHelicobacter pylori increase nuclear factor kappa B binding in gastric epithelial cells: A common pathway for epithelial cell injury?. Journal of Cellular Biochemistry, 2005, 96, 589-598.	2.6	15
89	PYHIN1 regulates pro-inflammatory cytokine induction rather than innate immune DNA sensing in airway epithelial cells. Journal of Biological Chemistry, 2020, 295, 4438-4450.	3.4	15
90	Poxviral Protein A52 Stimulates p38 Mitogen-activated Protein Kinase (MAPK) Activation by Causing Tumor Necrosis Factor Receptor-associated Factor 6 (TRAF6) Self-association Leading to Transforming Growth Factor Î²-activated Kinase 1 (TAK1) Recruitment. Journal of Biological Chemistry, 2013, 288, 33642-33653.	3.4	14

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91	SARM1 Ablation Is Protective and Preserves Spatial Vision in an In Vivo Mouse Model of Retinal Ganglion Cell Degeneration. International Journal of Molecular Sciences, 2022, 23, 1606.	4.1	12
92	VITAMIN C INHIBITS NFÎºB ACTIVATION IN ENDOTHELIAL CELLS. Biochemical Society Transactions, 1997, 25, 131S-131S.	3.4	11
93	Insights from vaccinia virus into Toll-like receptor signalling proteins and their regulation by ubiquitin: role of IRAK-2. Biochemical Society Transactions, 2008, 36, 449-452.	3.4	9
94	Mechanism of NFÎºB activation by interleukin-1 and tumour necrosis factor in endothelial cells. Biochemical Society Transactions, 1996, 24, 2S-2S.	3.4	8
95	Rad50 and CARD9, missing links in cytosolic DNAâ€“stimulated inflammation. Nature Immunology, 2014, 15, 534-536.	14.5	8
96	CRISPR/Cas9-mediated SARM1 knockout and epitope-tagged mice reveal that SARM1 does not regulate nuclear transcription, but is expressed in macrophages. Journal of Biological Chemistry, 2021, 297, 101417.	3.4	8
97	TRAF3: Uncovering the Real but Restricted Role in Human. Immunity, 2010, 33, 293-295.	14.3	6
98	Self-RNA sentinels signal viral invasion. Nature Immunology, 2018, 19, 4-5.	14.5	4
99	The effects of thiol modifiers on the activation of NFÎºB by interleukin-1. Biochemical Society Transactions, 1993, 21, 390S-390S.	3.4	3
100	STUDIES INTO THE MECHANISM OF NFÎºB ACTIVATION BY IL1, TNF AND H2O2 IN PRIMARY AND TRANSFORMED ENDOTHELIAL CELLS. Biochemical Society Transactions, 1997, 25, 125S-125S.	3.4	3
101	The human endothelial cell line ECV304 as a model of endothelial cell activation by interleukin-1. Biochemical Society Transactions, 1995, 23, 109S-109S.	3.4	2
102	Toll-like receptor 3. Progress in Respiratory Research, 2010, , 73-79.	0.1	2
103	Immunometabolism pathways as the basis for innovative anti-viral strategies (INITIATE): A Marie Sklodowska-Curie innovative training network. Virus Research, 2020, 287, 198094.	2.2	2
104	SARM1 Promotes Photoreceptor Degeneration in an Oxidative Stress Model of Retinal Degeneration. Frontiers in Neuroscience, 2022, 16, 852114.	2.8	2
105	Toll-like receptors as key sensors of viral infection. , 2006, , 143-171.		1
106	Innate immune signaling pathways: lessons from vaccinia virus. Future Virology, 2008, 3, 147-156.	1.8	1
107	Removing the TREX1 Safety Net: Oxidized DNA Overcomes Immune Silencing by Exonuclease TREX1. Immunity, 2013, 39, 423-425.	14.3	1
108	Characterisation of Viral Proteins that Inhibit Toll-Like Receptor Signal Transduction. Methods in Molecular Biology, 2009, 517, 217-235.	0.9	1

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109	Viral Infections and the DNA Sensing Pathway: Lessons from Herpesviruses and Beyond. , 2014, , 171-203.		0
110	Harnessing poxviral know-how for anti-cytokine therapies. Journal of Biological Chemistry, 2019, 294, 5228-5229.	3.4	0
111	Uncovering Novel Gene Function in Toll-Like Receptor Signalling Using siRNA. Methods in Molecular Biology, 2009, 517, 277-295.	0.9	0
112	Role of Toll-Like Receptors in the Innate Immune Response to RNA Viruses. , 0, , 7-27.		0