Andrew G Bowie

List of Publications by Year
in descending order

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	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
2	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
3	SARM1 Promotes Photoreceptor Degeneration in an Oxidative Stress Model of Retinal Degeneration. Frontiers in Neuroscience, 2022, 16, 852114.	2.8	2
4	Detection of Viral Infections by Innate Immunity. Biochemical Pharmacology, 2021, 183, 114316.	4.4	216
5	Malaria parasites both repress host CXCL10 and use it as a cue for growth acceleration. Nature Communications, 2021, 12, 4851.	12.8	22
6	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
7	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
8	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
9	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
10	SARM1 deficiency promotes rod and cone photoreceptor cell survival in a model of retinal degeneration. Life Science Alliance, 2020, 3, e201900618.	2.8	42
11	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
12	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
13	Harnessing poxviral know-how for anti-cytokine therapies. Journal of Biological Chemistry, 2019, 294, 5228-5229.	3.4	0
14	SARM: From immune regulator to cell executioner. Biochemical Pharmacology, 2019, 161, 52-62.	4.4	33
15	Self-RNA sentinels signal viral invasion. Nature Immunology, 2018, 19, 4-5.	14.5	4
16	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
17	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
18	IFI16 and cGAS cooperate in the activation of STING during DNA sensing in human keratinocytes. Nature Communications, 2017, 8, 14392.	12.8	251

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19	Molluscum Contagiosum Virus Protein MC005 Inhibits NF-Î^oB Activation by Targeting NEMO-Regulated IÎºB Kinase Activation. Journal of Virology, 2017, 91, .	3.4	31
20	A novel anti-viral role for STAT3 in IFN-Î± signalling responses. Cellular and Molecular Life Sciences, 2017, 74, 1755-1764.	5.4	36
21	Malaria parasite DNA-harbouring vesicles activate cytosolic immune sensors. Nature Communications, 2017, 8, 1985.	12.8	160
22	Alum Activates the Bovine NLRP3 Inflammasome. Frontiers in Immunology, 2017, 8, 1494.	4.8	27
23	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
24	A frequent hypofunctional IRAK2 variant is associated with reduced spontaneous hepatitis C virus clearance. Hepatology, 2015, 62, 1375-1387.	7.3	25
25	<scp>DNA</scp> sensors are expressed in astrocytes and microglia <i>in vitro</i> and are upregulated during gliosis in neurodegenerative disease. Glia, 2015, 63, 812-825.	4.9	62
26	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
27	Innate immune recognition of DNA: A recent history. Virology, 2015, 479-480, 146-152.	2.4	197
28	Rad50 and CARD9, missing links in cytosolic DNAâ€"stimulated inflammation. Nature Immunology, 2014, 15, 534-536.	14.5	8
29	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
30	SARM Regulates CCL5 Production in Macrophages by Promoting the Recruitment of Transcription Factors and RNA Polymerase II to the <i>Ccl5</i> Promoter. Journal of Immunology, 2014, 192, 4821-4832.	0.8	23
31	Innate antiviral signalling in the central nervous system. Trends in Immunology, 2014, 35, 79-87.	6.8	59
32	TRAM Is Required for TLR2 Endosomal Signaling to Type I IFN Induction. Journal of Immunology, 2014, 193, 6090-6102.	0.8	92
33	Innate immune activation of NFÎºB and its antagonism by poxviruses. Cytokine and Growth Factor Reviews, 2014, 25, 611-620.	7.2	40
34	Viral Infections and the DNA Sensing Pathway: Lessons from Herpesviruses and Beyond. , 2014, , 171-203.		0
35	The emerging role of human PYHIN proteins in innate immunity: Implications for health and disease. Biochemical Pharmacology, 2014, 92, 405-414.	4.4	71
36	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

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37	Removing the TREX1 Safety Net: Oxidized DNA Overcomes Immune Silencing by Exonuclease TREX1. Immunity, 2013, 39, 423-425.	14.3	1
38	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
39	The history of Toll-like receptors â€" redefining innate immunity. Nature Reviews Immunology, 2013, 13, 453-460.	22.7	1,338
40	Immune Sensing of DNA. Immunity, 2013, 38, 870-880.	14.3	672
41	Innate immune detection of microbial nucleic acids. Trends in Microbiology, 2013, 21, 413-420.	7.7	230
42	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
43	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
44	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
45	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
46	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
47	Neuronal toll-like receptor 4 signaling induces brain endothelial activation and neutrophil transmigration in vitro. Journal of Neuroinflammation, 2012, 9, 230.	7.2	113
48	The STING in the Tail for Cytosolic DNAâ€"Dependent Activation of IRF3. Science Signaling, 2012, 5, pe9.	3.6	35
49	Innate sensing of bacterial cyclic dinucleotides: more than just STING. Nature Immunology, 2012, 13, 1137-1139.	14.5	30
50	Viral immune modulators perturb the human molecular network by common and unique strategies. Nature, 2012, 487, 486-490.	27.8	249
51	Innate DNA Sensing Moves to the Nucleus. Cell Host and Microbe, 2011, 9, 351-353.	11.0	22
52	Cytosolic DNA sensors regulating type I interferon induction. Trends in Immunology, 2011, 32, 574-581.	6.8	182
53	Recognition of herpesviruses by the innate immune system. Nature Reviews Immunology, 2011, 11, 143-154.	22.7	293
54	Evaluating the role of Toll-like receptors in diseases of the central nervous system. Biochemical Pharmacology, 2011, 81, 825-837.	4.4	135

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55	The Powerstroke and Camshaft of the RIG-I Antiviral RNA Detection Machine. Cell, 2011, 147, 259-261.	28.9	22
56	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
57	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
58	Toll-like receptor 3. Progress in Respiratory Research, 2010, , 73-79.	0.1	2
59	Sensing and Signaling in Antiviral Innate Immunity. Current Biology, 2010, 20, R328-R333.	3.9	168
60	The interleukin-1 receptor-associated kinases: Critical regulators of innate immune signalling. Biochemical Pharmacology, 2010, 80, 1981-1991.	4.4	251
61	Unexpected roles for DEADâ€box protein 3 in viral RNA sensing pathways. European Journal of Immunology, 2010, 40, 933-935.	2.9	24
62	TRAF3: Uncovering the Real but Restricted Role in Human. Immunity, 2010, 33, 293-295.	14.3	6
63	IFI16 is an innate immune sensor for intracellular DNA. Nature Immunology, 2010, 11, 997-1004.	14.5	1,369
64	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
65	Activation of host pattern recognition receptors by viruses. Current Opinion in Microbiology, 2010, 13, 503-507.	5.1	148
66	Role of Non-degradative Ubiquitination in Interleukin-1 and Toll-like Receptor Signaling. Journal of Biological Chemistry, 2009, 284, 8211-8215.	3.4	16
67	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
68	Modulation of Innate Immune Signalling Pathways by Viral Proteins. Advances in Experimental Medicine and Biology, 2009, 666, 49-63.	1.6	17
69	Characterisation of Viral Proteins that Inhibit Toll-Like Receptor Signal Transduction. Methods in Molecular Biology, 2009, 517, 217-235.	0.9	1
70	Uncovering Novel Gene Function in Toll-Like Receptor Signalling Using siRNA. Methods in Molecular Biology, 2009, 517, 277-295.	0.9	0
71	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
72	TRIM-ing down Tolls. Nature Immunology, 2008, 9, 348-350.	14.5	17

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73	Viral evasion and subversion of pattern-recognition receptor signalling. Nature Reviews Immunology, 2008, 8, 911-922.	22.7	616
74	The interplay between viruses and innate immune signaling: Recent insights and therapeutic opportunities. Biochemical Pharmacology, 2008, 75, 589-602.	4.4	109
75	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
76	Innate immune signaling pathways: lessons from vaccinia virus. Future Virology, 2008, 3, 147-156.	1.8	1
77	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
78	Polyinosinic Acid Is a Ligand for Toll-like Receptor 3. Journal of Biological Chemistry, 2007, 282, 24759-24766.	3.4	94
79	RIG-I: tri-ing to discriminate between self and non-self RNA. Trends in Immunology, 2007, 28, 147-150.	6.8	53
80	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
81	The family of five: TIR-domain-containing adaptors in Toll-like receptor signalling. Nature Reviews Immunology, 2007, 7, 353-364.	22.7	2,285
82	Toll-like receptors as key sensors of viral infection. , 2006, , 143-171.		1
83	The human adaptor SARM negatively regulates adaptor protein TRIFâ€“dependent Toll-like receptor signaling. Nature Immunology, 2006, 7, 1074-1081.	14.5	453
84	Nucleotide-binding Oligomerization Domain-1 and Epidermal Growth Factor Receptor. Journal of Biological Chemistry, 2006, 281, 11637-11648.	3.4	158
85	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
86	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
87	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
88	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
89	Schlafen-1 Causes a Cell Cycle Arrest by Inhibiting Induction of Cyclin D1. Journal of Biological Chemistry, 2005, 280, 30723-30734.	3.4	69
90	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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91	The role of Toll-like receptors in the host response to viruses. Molecular Immunology, 2005, 42, 859-867.	2.2	221
92	TLR3 in antiviral immunity: key player or bystander?. Trends in Immunology, 2005, 26, 462-468.	6.8	199
93	Poxvirus Protein N1L Targets the I-Î°B Kinase Complex, Inhibits Signaling to NF-Î°B by the Tumor Necrosis Factor Superfamily of Receptors, and Inhibits NF-Î°B and IRF3 Signaling by Toll-like Receptors. Journal of Biological Chemistry, 2004, 279, 36570-36578.	3.4	205
94	Viral Activation of Macrophages through TLR-Dependent and -Independent Pathways. Journal of Immunology, 2004, 173, 6890-6898.	0.8	109
95	Viral appropriation of apoptotic and NF-?B signaling pathways. Journal of Cellular Biochemistry, 2004, 91, 1099-1108.	2.6	40
96	The Tollâ€"IL-1 receptor adaptor family grows to five members. Trends in Immunology, 2003, 24, 286-289.	6.8	457
97	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
98	Mal (MyD88-adapter-like) is required for Toll-like receptor-4 signal transduction. Nature, 2001, 413, 78-83.	27.8	1,122
99	Transactivation by the p65 Subunit of NF-Î°B 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
100	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
101	Oxidative stress and nuclear factor-Î°B activation. Biochemical Pharmacology, 2000, 59, 13-23.	4.4	850
102	Vitamin C Inhibits NF-Î°B Activation by TNF Via the Activation of p38 Mitogen-Activated Protein Kinase. Journal of Immunology, 2000, 165, 7180-7188.	0.8	284
103	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
104	Ras, Protein Kinase CÎ¶, and IÎ°B Kinases 1 and 2 Are Downstream Effectors of CD44 During the Activation of NF-Î°B by Hyaluronic Acid Fragments in T-24 Carcinoma Cells. Journal of Immunology, 2000, 164, 2053-2063.	0.8	135
105	Lipid Peroxidation Is Involved in the Activation of NF-Î°B 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
106	STUDIES INTO THE MECHANISM OF NFÎ°B ACTIVATION BY IL1, TNF AND H2O2 IN PRIMARY AND TRANSFORMED ENDOTHELIAL CELLS. Biochemical Society Transactions, 1997, 25, 125S-125S.	3.4	3
107	VITAMIN C INHIBITS NFÎ°B ACTIVATION IN ENDOTHELIAL CELLS. Biochemical Society Transactions, 1997, 25, 131S-131S.	3.4	11
108	Mechanism of NFÎ°B activation by interleukin-1 and tumour necrosis factor in endothelial cells. Biochemical Society Transactions, 1996, 24, 2S-2S.	3.4	8

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109	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
110	Glycosylated low density lipoprotein is more sensitive to oxidation: implications for the diabetic patient?. Atherosclerosis, 1993, 102, 63-67.	0.8	171
111	The effects of thiol modifiers on the activation of NFÎºB by interleukin-1. Biochemical Society Transactions, 1993, 21, 390S-390S.	3.4	3
112	Role of Toll-Like Receptors in the Innate Immune Response to RNA Viruses. , 0, , 7-27.		0