

Andrew G Bowie

List of Publications by Year in descending order

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112
papers

19,377
citations

28190

55
h-index

24915

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. <i>Nature Reviews Immunology</i> , 2007, 7, 353-364.	10.6	2,285
2	IFI16 is an innate immune sensor for intracellular DNA. <i>Nature Immunology</i> , 2010, 11, 997-1004.	7.0	1,369
3	The history of Toll-like receptors â€” redefining innate immunity. <i>Nature Reviews Immunology</i> , 2013, 13, 453-460.	10.6	1,338
4	Mal (MyD88-adaptor-like) is required for Toll-like receptor-4 signal transduction. <i>Nature</i> , 2001, 413, 78-83.	13.7	1,122
5	Oxidative stress and nuclear factor- κ B activation. <i>Biochemical Pharmacology</i> , 2000, 59, 13-23.	2.0	850
6	Immune Sensing of DNA. <i>Immunity</i> , 2013, 38, 870-880.	6.6	672
7	Viral evasion and subversion of pattern-recognition receptor signalling. <i>Nature Reviews Immunology</i> , 2008, 8, 911-922.	10.6	616
8	The Tollâ€™IL-1 receptor adaptor family grows to five members. <i>Trends in Immunology</i> , 2003, 24, 286-289.	2.9	457
9	Structures of the HIN Domain:DNA Complexes Reveal Ligand Binding and Activation Mechanisms of the AIM2 Inflammasome and IFI16 Receptor. <i>Immunity</i> , 2012, 36, 561-571.	6.6	456
10	The human adaptor SARM negatively regulates adaptor protein TRIFâ€™dependent Toll-like receptor signaling. <i>Nature Immunology</i> , 2006, 7, 1074-1081.	7.0	453
11	The Vaccine Adjuvant Chitosan Promotes Cellular Immunity via DNA Sensor cGAS-STING-Dependent Induction of Type I Interferons. <i>Immunity</i> , 2016, 44, 597-608.	6.6	429
12	A46R and A52R from vaccinia virus are antagonists of host IL-1 and toll-like receptor signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 10162-10167.	3.3	422
13	Non-canonical Activation of the DNA Sensing Adaptor STING by ATM and IFI16 Mediates NF- κ B Signaling after Nuclear DNA Damage. <i>Molecular Cell</i> , 2018, 71, 745-760.e5.	4.5	417
14	The interleukin-1 receptor/Toll-like receptor superfamily: signal generators for pro-inflammatory interleukins and microbial products. <i>Journal of Leukocyte Biology</i> , 2000, 67, 508-514.	1.5	408
15	Viral targeting of DEAD box protein 3 reveals its role in TBK1/IKK ϵ -mediated IRF activation. <i>EMBO Journal</i> , 2008, 27, 2147-2157.	3.5	339
16	Vaccinia virus protein A46R targets multiple Toll-likeâ€™interleukin-1 receptor adaptors and contributes to virulence. <i>Journal of Experimental Medicine</i> , 2005, 201, 1007-1018.	4.2	335
17	The Poxvirus Protein A52R Targets Toll-like Receptor Signaling Complexes to Suppress Host Defense. <i>Journal of Experimental Medicine</i> , 2003, 197, 343-351.	4.2	334
18	Recognition of herpesviruses by the innate immune system. <i>Nature Reviews Immunology</i> , 2011, 11, 143-154.	10.6	293

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19	Vitamin C Inhibits NF- κ B Activation by TNF Via the Activation of p38 Mitogen-Activated Protein Kinase. <i>Journal of Immunology</i> , 2000, 165, 7180-7188.	0.4	284
20	The interleukin-1 receptor-associated kinases: Critical regulators of innate immune signalling. <i>Biochemical Pharmacology</i> , 2010, 80, 1981-1991.	2.0	251
21	IFI16 and cGAS cooperate in the activation of STING during DNA sensing in human keratinocytes. <i>Nature Communications</i> , 2017, 8, 14392.	5.8	251
22	Viral immune modulators perturb the human molecular network by common and unique strategies. <i>Nature</i> , 2012, 487, 486-490.	13.7	249
23	Innate immune detection of microbial nucleic acids. <i>Trends in Microbiology</i> , 2013, 21, 413-420.	3.5	230
24	The role of Toll-like receptors in the host response to viruses. <i>Molecular Immunology</i> , 2005, 42, 859-867.	1.0	221
25	Detection of Viral Infections by Innate Immunity. <i>Biochemical Pharmacology</i> , 2021, 183, 114316.	2.0	216
26	Poxvirus Protein N1L Targets the I- κ B Kinase Complex, Inhibits Signaling to NF- κ B by the Tumor Necrosis Factor Superfamily of Receptors, and Inhibits NF- κ B and IRF3 Signaling by Toll-like Receptors. <i>Journal of Biological Chemistry</i> , 2004, 279, 36570-36578.	1.6	205
27	TLR3 in antiviral immunity: key player or bystander?. <i>Trends in Immunology</i> , 2005, 26, 462-468.	2.9	199
28	Innate immune recognition of DNA: A recent history. <i>Virology</i> , 2015, 479-480, 146-152.	1.1	197
29	Cytosolic DNA sensors regulating type I interferon induction. <i>Trends in Immunology</i> , 2011, 32, 574-581.	2.9	182
30	IRAK-2 Participates in Multiple Toll-like Receptor Signaling Pathways to NF- κ B via Activation of TRAF6 Ubiquitination. <i>Journal of Biological Chemistry</i> , 2007, 282, 33435-33443.	1.6	181
31	Lipid Peroxidation Is Involved in the Activation of NF- κ B by Tumor Necrosis Factor but Not Interleukin-1 in the Human Endothelial Cell Line ECV304. <i>Journal of Biological Chemistry</i> , 1997, 272, 25941-25950.	1.6	175
32	Glycosylated low density lipoprotein is more sensitive to oxidation: implications for the diabetic patient?. <i>Atherosclerosis</i> , 1993, 102, 63-67.	0.4	171
33	Proteasomal Degradation of Herpes Simplex Virus Capsids in Macrophages Releases DNA to the Cytosol for Recognition by DNA Sensors. <i>Journal of Immunology</i> , 2013, 190, 2311-2319.	0.4	171
34	Sensing and Signaling in Antiviral Innate Immunity. <i>Current Biology</i> , 2010, 20, R328-R333.	1.8	168
35	Activation of Innate Defense against a Paramyxovirus Is Mediated by RIG-I and TLR7 and TLR8 in a Cell-Type-Specific Manner. <i>Journal of Virology</i> , 2005, 79, 12944-12951.	1.5	162
36	Malaria parasite DNA-harboring vesicles activate cytosolic immune sensors. <i>Nature Communications</i> , 2017, 8, 1985.	5.8	160

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37	Nucleotide-binding Oligomerization Domain-1 and Epidermal Growth Factor Receptor. <i>Journal of Biological Chemistry</i> , 2006, 281, 11637-11648.	1.6	158
38	Activation of host pattern recognition receptors by viruses. <i>Current Opinion in Microbiology</i> , 2010, 13, 503-507.	2.3	148
39	Vaccinia Virus Protein C6 Is a Virulence Factor that Binds TBK-1 Adaptor Proteins and Inhibits Activation of IRF3 and IRF7. <i>PLoS Pathogens</i> , 2011, 7, e1002247.	2.1	146
40	Ras, Protein Kinase C α , and I κ B Kinases 1 and 2 Are Downstream Effectors of CD44 During the Activation of NF- κ B by Hyaluronic Acid Fragments in T-24 Carcinoma Cells. <i>Journal of Immunology</i> , 2000, 164, 2053-2063.	0.4	135
41	Evaluating the role of Toll-like receptors in diseases of the central nervous system. <i>Biochemical Pharmacology</i> , 2011, 81, 825-837.	2.0	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. <i>Journal of Immunology</i> , 2010, 185, 4261-4271.	0.4	125
43	Neuronal toll-like receptor 4 signaling induces brain endothelial activation and neutrophil transmigration in vitro. <i>Journal of Neuroinflammation</i> , 2012, 9, 230.	3.1	113
44	Viral Activation of Macrophages through TLR-Dependent and -Independent Pathways. <i>Journal of Immunology</i> , 2004, 173, 6890-6898.	0.4	109
45	The interplay between viruses and innate immune signaling: Recent insights and therapeutic opportunities. <i>Biochemical Pharmacology</i> , 2008, 75, 589-602.	2.0	109
46	Cell Survival and Cytokine Release after Inflammasome Activation Is Regulated by the Toll-IL-1R Protein SARM. <i>Immunity</i> , 2019, 50, 1412-1424.e6.	6.6	97
47	Poxvirus Targeting of E3 Ligase I κ B-TrCP by Molecular Mimicry: A Mechanism to Inhibit NF- κ B Activation and Promote Immune Evasion and Virulence. <i>PLoS Pathogens</i> , 2013, 9, e1003183.	2.1	95
48	Polyinosinic Acid Is a Ligand for Toll-like Receptor 3. <i>Journal of Biological Chemistry</i> , 2007, 282, 24759-24766.	1.6	94
49	Poxvirus K7 Protein Adopts a Bcl-2 Fold: Biochemical Mapping of Its Interactions with Human DEAD Box RNA Helicase DDX3. <i>Journal of Molecular Biology</i> , 2009, 385, 843-853.	2.0	92
50	TRAM Is Required for TLR2 Endosomal Signaling to Type I IFN Induction. <i>Journal of Immunology</i> , 2014, 193, 6090-6102.	0.4	92
51	Transactivation by the p65 Subunit of NF- κ B in Response to Interleukin-1 (IL-1) Involves MyD88, IL-1 Receptor-Associated Kinase 1, TRAF-6, and Rac1. <i>Molecular and Cellular Biology</i> , 2001, 21, 4544-4552.	1.1	81
52	The emerging role of human PYHIN proteins in innate immunity: Implications for health and disease. <i>Biochemical Pharmacology</i> , 2014, 92, 405-414.	2.0	71
53	Schlafen-1 Causes a Cell Cycle Arrest by Inhibiting Induction of Cyclin D1. <i>Journal of Biological Chemistry</i> , 2005, 280, 30723-30734.	1.6	69
54	Vaccinia Virus Protein A52R Activates p38 Mitogen-activated Protein Kinase and Potentiates Lipopolysaccharide-induced Interleukin-10. <i>Journal of Biological Chemistry</i> , 2005, 280, 30838-30844.	1.6	67

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55	<sc>DNA</sc> sensors are expressed in astrocytes and microglia <i>in vitro</i> and are upregulated during gliosis in neurodegenerative disease. <i>Glia</i> , 2015, 63, 812-825.	2.5	62
56	Innate antiviral signalling in the central nervous system. <i>Trends in Immunology</i> , 2014, 35, 79-87.	2.9	59
57	RIG-I: tri- to discriminate between self and non-self RNA. <i>Trends in Immunology</i> , 2007, 28, 147-150.	2.9	53
58	The Endocannabinoid, Anandamide, Augments Notch-1 Signaling in Cultured Cortical Neurons Exposed to Amyloid- β^2 and in the Cortex of Aged Rats. <i>Journal of Biological Chemistry</i> , 2012, 287, 34709-34721.	1.6	46
59	SARM1 deficiency promotes rod and cone photoreceptor cell survival in a model of retinal degeneration. <i>Life Science Alliance</i> , 2020, 3, e201900618.	1.3	42
60	Viral appropriation of apoptotic and NF- κ B signaling pathways. <i>Journal of Cellular Biochemistry</i> , 2004, 91, 1099-1108.	1.2	40
61	Innate immune activation of NF κ B and its antagonism by poxviruses. <i>Cytokine and Growth Factor Reviews</i> , 2014, 25, 611-620.	3.2	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. <i>Clinical and Experimental Immunology</i> , 2007, 147, 217-226.	1.1	38
63	The TLR signaling adaptor TRAM interacts with TRAF6 to mediate activation of the inflammatory response by TLR4. <i>Journal of Leukocyte Biology</i> , 2014, 96, 427-436.	1.5	38
64	A novel anti-viral role for STAT3 in IFN- λ signalling responses. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 1755-1764.	2.4	36
65	Toll-like receptor 2â€dependent endosomal signaling by <i>Staphylococcus aureus</i> in monocytes induces type I interferon and promotes intracellular survival. <i>Journal of Biological Chemistry</i> , 2019, 294, 17031-17042.	1.6	36
66	The STING in the Tail for Cytosolic DNAâ€Dependent Activation of IRF3. <i>Science Signaling</i> , 2012, 5, pe9.	1.6	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. <i>Journal of Biological Chemistry</i> , 2012, 287, 22672-22682.	1.6	33
68	SARM: From immune regulator to cell executioner. <i>Biochemical Pharmacology</i> , 2019, 161, 52-62.	2.0	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 λ . <i>Journal of Biological Chemistry</i> , 2011, 286, 23688-23697.	1.6	31
70	Poxvirus Protein MC132 from <i>Molluscum Contagiosum Virus</i> Inhibits NF- κ B Activation by Targeting p65 for Degradation. <i>Journal of Virology</i> , 2015, 89, 8406-8415.	1.5	31
71	<i>Molluscum Contagiosum Virus</i> Protein MC005 Inhibits NF- κ B Activation by Targeting NEMO-Regulated κ B Kinase Activation. <i>Journal of Virology</i> , 2017, 91, .	1.5	31
72	Innate sensing of bacterial cyclic dinucleotides: more than just STING. <i>Nature Immunology</i> , 2012, 13, 1137-1139.	7.0	30

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73	Viral Inhibition of IL-1- and Neutrophil Elastase-Induced Inflammatory Responses in Bronchial Epithelial Cells. <i>Journal of Immunology</i> , 2005, 175, 7594-7601.	0.4	29
74	Dual NADPH oxidases DUOX1 and DUOX2 synthesize NAADP and are necessary for Ca ²⁺ signaling during T cell activation. <i>Science Signaling</i> , 2021, 14, eabe3800.	1.6	28
75	Alum Activates the Bovine NLRP3 Inflammasome. <i>Frontiers in Immunology</i> , 2017, 8, 1494.	2.2	27
76	A frequent hypofunctional IRAK2 variant is associated with reduced spontaneous hepatitis C virus clearance. <i>Hepatology</i> , 2015, 62, 1375-1387.	3.6	25
77	Unexpected roles for DEAD-box protein 3 in viral RNA sensing pathways. <i>European Journal of Immunology</i> , 2010, 40, 933-935.	1.6	24
78	SARM Regulates CCL5 Production in Macrophages by Promoting the Recruitment of Transcription Factors and RNA Polymerase II to the <i>Ccl5</i> Promoter. <i>Journal of Immunology</i> , 2014, 192, 4821-4832.	0.4	23
79	Innate DNA Sensing Moves to the Nucleus. <i>Cell Host and Microbe</i> , 2011, 9, 351-353.	5.1	22
80	The Powerstroke and Camshaft of the RIG-I Antiviral RNA Detection Machine. <i>Cell</i> , 2011, 147, 259-261.	13.5	22
81	Malaria parasites both repress host CXCL10 and use it as a cue for growth acceleration. <i>Nature Communications</i> , 2021, 12, 4851.	5.8	22
82	A Coding IRAK2 Protein Variant Compromises Toll-like receptor (TLR) Signaling and Is Associated with Colorectal Cancer Survival. <i>Journal of Biological Chemistry</i> , 2014, 289, 23123-23131.	1.6	18
83	Poxviral protein E3 altered cytokine production reveals that DExD/H-box helicase 9 controls Toll-like receptor stimulated immune responses. <i>Journal of Biological Chemistry</i> , 2018, 293, 14989-15001.	1.6	18
84	Myeloid cell nuclear differentiation antigen controls the pathogen-stimulated type I interferon cascade in human monocytes by transcriptional regulation of IRF7. <i>Nature Communications</i> , 2022, 13, 14.	5.8	18
85	TRIM-ing down Tolls. <i>Nature Immunology</i> , 2008, 9, 348-350.	7.0	17
86	Modulation of Innate Immune Signalling Pathways by Viral Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2009, 666, 49-63.	0.8	17
87	Role of Non-degradative Ubiquitination in Interleukin-1 and Toll-like Receptor Signaling. <i>Journal of Biological Chemistry</i> , 2009, 284, 8211-8215.	1.6	16
88	Low pH and <i>Helicobacter pylori</i> increase nuclear factor kappa B binding in gastric epithelial cells: A common pathway for epithelial cell injury?. <i>Journal of Cellular Biochemistry</i> , 2005, 96, 589-598.	1.2	15
89	PYHIN1 regulates pro-inflammatory cytokine induction rather than innate immune DNA sensing in airway epithelial cells. <i>Journal of Biological Chemistry</i> , 2020, 295, 4438-4450.	1.6	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 β -activated Kinase 1 (TAK1) Recruitment. <i>Journal of Biological Chemistry</i> , 2013, 288, 33642-33653.	1.6	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. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1606.	1.8	12
92	VITAMIN C INHIBITS NF κ B ACTIVATION IN ENDOTHELIAL CELLS. <i>Biochemical Society Transactions</i> , 1997, 25, 131S-131S.	1.6	11
93	Insights from vaccinia virus into Toll-like receptor signalling proteins and their regulation by ubiquitin: role of IRAK-2. <i>Biochemical Society Transactions</i> , 2008, 36, 449-452.	1.6	9
94	Mechanism of NF κ B activation by interleukin-1 and tumour necrosis factor in endothelial cells. <i>Biochemical Society Transactions</i> , 1996, 24, 2S-2S.	1.6	8
95	Rad50 and CARD9, missing links in cytosolic DNA \rightarrow stimulated inflammation. <i>Nature Immunology</i> , 2014, 15, 534-536.	7.0	8
96	CRISPR/Cas9-mediated SARM1 knockout and epitope-tagged mice reveal that SARM1 does not regulate nuclear transcription, but is expressed in macrophages. <i>Journal of Biological Chemistry</i> , 2021, 297, 101417.	1.6	8
97	TRAF3: Uncovering the Real but Restricted Role in Human. <i>Immunity</i> , 2010, 33, 293-295.	6.6	6
98	Self-RNA sentinels signal viral invasion. <i>Nature Immunology</i> , 2018, 19, 4-5.	7.0	4
99	The effects of thiol modifiers on the activation of NF κ B by interleukin-1. <i>Biochemical Society Transactions</i> , 1993, 21, 390S-390S.	1.6	3
100	STUDIES INTO THE MECHANISM OF NF κ B ACTIVATION BY IL1, TNF AND H2O2 IN PRIMARY AND TRANSFORMED ENDOTHELIAL CELLS. <i>Biochemical Society Transactions</i> , 1997, 25, 125S-125S.	1.6	3
101	The human endothelial cell line ECV304 as a model of endothelial cell activation by interleukin-1. <i>Biochemical Society Transactions</i> , 1995, 23, 109S-109S.	1.6	2
102	Toll-like receptor 3. <i>Progress in Respiratory Research</i> , 2010, , 73-79.	0.1	2
103	Immunometabolism pathways as the basis for innovative anti-viral strategies (INITIATE): A Marie Skłodowska-Curie innovative training network. <i>Virus Research</i> , 2020, 287, 198094.	1.1	2
104	SARM1 Promotes Photoreceptor Degeneration in an Oxidative Stress Model of Retinal Degeneration. <i>Frontiers in Neuroscience</i> , 2022, 16, 852114.	1.4	2
105	Toll-like receptors as key sensors of viral infection. , 2006, , 143-171.		1
106	Innate immune signaling pathways: lessons from vaccinia virus. <i>Future Virology</i> , 2008, 3, 147-156.	0.9	1
107	Removing the TREX1 Safety Net: Oxidized DNA Overcomes Immune Silencing by Exonuclease TREX1. <i>Immunity</i> , 2013, 39, 423-425.	6.6	1
108	Characterisation of Viral Proteins that Inhibit Toll-Like Receptor Signal Transduction. <i>Methods in Molecular Biology</i> , 2009, 517, 217-235.	0.4	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.	1.6	0
111	Uncovering Novel Gene Function in Toll-Like Receptor Signalling Using siRNA. Methods in Molecular Biology, 2009, 517, 277-295.	0.4	0
112	Role of Toll-Like Receptors in the Innate Immune Response to RNA Viruses. , 0, , 7-27.		0