

# Olaf GroÃ

## List of Publications by Year in descending order

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64  
papers

10,984  
citations

87888

38  
h-index

123424

61  
g-index

67  
all docs

67  
docs citations

67  
times ranked

15082  
citing authors

#	ARTICLE	IF	CITATIONS
1	Syk- and CARD9-dependent coupling of innate immunity to the induction of T helper cells that produce interleukin 17. <i>Nature Immunology</i> , 2007, 8, 630-638.	14.5	1,070
2	Syk kinase signalling couples to the Nlrp3 inflammasome for anti-fungal host defence. <i>Nature</i> , 2009, 459, 433-436.	27.8	799
3	Card9 controls a non-TLR signalling pathway for innate anti-fungal immunity. <i>Nature</i> , 2006, 442, 651-656.	27.8	780
4	A Homozygous <i>CARD9</i> Mutation in a Family with Susceptibility to Fungal Infections. <i>New England Journal of Medicine</i> , 2009, 361, 1727-1735.	27.0	733
5	The inflammasome: an integrated view. <i>Immunological Reviews</i> , 2011, 243, 136-151.	6.0	683
6	Single-cell profiling identifies myeloid cell subsets with distinct fates during neuroinflammation. <i>Science</i> , 2019, 363, .	12.6	583
7	Recognition of RNA virus by RIG-I results in activation of CARD9 and inflammasome signaling for interleukin 1 $\beta$ production. <i>Nature Immunology</i> , 2010, 11, 63-69.	14.5	477
8	Inhibitor of Apoptosis Proteins Limit RIP3 Kinase-Dependent Interleukin-1 Activation. <i>Immunity</i> , 2012, 36, 215-227.	14.3	430
9	Inflammasome Activators Induce Interleukin-1 $\beta$ Secretion via Distinct Pathways with Differential Requirement for the Protease Function of Caspase-1. <i>Immunity</i> , 2012, 36, 388-400.	14.3	427
10	Dectin-2 is a Syk-coupled pattern recognition receptor crucial for Th17 responses to fungal infection. <i>Journal of Experimental Medicine</i> , 2009, 206, 2037-2051.	8.5	411
11	K <sup>+</sup> Efflux-Independent NLRP3 Inflammasome Activation by Small Molecules Targeting Mitochondria. <i>Immunity</i> , 2016, 45, 761-773.	14.3	364
12	Malarial Hemozoin Is a Nalp3 Inflammasome Activating Danger Signal. <i>PLoS ONE</i> , 2009, 4, e6510.	2.5	334
13	Nlrp3-inflammasome activation in non-myeloid-derived cells aggravates diabetic nephropathy. <i>Kidney International</i> , 2015, 87, 74-84.	5.2	327
14	Adjuvanticity of a synthetic cord factor analogue for subunit <i>Mycobacterium tuberculosis</i> vaccination requires FcR $\gamma$ -Syk-Card9-dependent innate immune activation. <i>Journal of Experimental Medicine</i> , 2009, 206, 89-97.	8.5	290
15	<i>Schistosoma mansoni</i> triggers Dectin-2, which activates the Nlrp3 inflammasome and alters adaptive immune responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 20459-20464.	7.1	233
16	XIAP Restricts TNF- and RIP3-Dependent Cell Death and Inflammasome Activation. <i>Cell Reports</i> , 2014, 7, 1796-1808.	6.4	210
17	The Inflammasome Drives GSDMD-Independent Secondary Pyroptosis and IL-1 Release in the Absence of Caspase-1 Protease Activity. <i>Cell Reports</i> , 2017, 21, 3846-3859.	6.4	202
18	<i>Clostridium difficile</i> Toxin-Induced Inflammation and Intestinal Injury Are Mediated by the Inflammasome. <i>Gastroenterology</i> , 2010, 139, 542-552.e3.	1.3	198

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19	The adaptor molecule CARD9 is essential for tuberculosis control. <i>Journal of Experimental Medicine</i> , 2010, 207, 777-792.	8.5	193
20	Immune modulatory effects of oncogenic KRAS in cancer. <i>Nature Communications</i> , 2020, 11, 5439.	12.8	188
21	The fungal peptide toxin Candidalysin activates the NLRP3 inflammasome and causes cytolysis in mononuclear phagocytes. <i>Nature Communications</i> , 2018, 9, 4260.	12.8	181
22	Clec12a Is an Inhibitory Receptor for Uric Acid Crystals that Regulates Inflammation in Response to Cell Death. <i>Immunity</i> , 2014, 40, 389-399.	14.3	158
23	Activation of the NLRP3 inflammasome by <i>Mycobacterium tuberculosis</i> is uncoupled from susceptibility to active tuberculosis. <i>European Journal of Immunology</i> , 2012, 42, 374-384.	2.9	150
24	RIPK3 Restricts Myeloid Leukemogenesis by Promoting Cell Death and Differentiation of Leukemia Initiating Cells. <i>Cancer Cell</i> , 2016, 30, 75-91.	16.8	144
25	Tissue-specific opposing functions of the inflammasome adaptor ASC in the regulation of epithelial skin carcinogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18384-18389.	7.1	120
26	<i>Helicobacter pylori</i> -Induced IL-1 $\beta$ Secretion in Innate Immune Cells Is Regulated by the NLRP3 Inflammasome and Requires the Cag Pathogenicity Island. <i>Journal of Immunology</i> , 2014, 193, 3566-3576.	0.8	113
27	Multiple ITAM-coupled NK-cell receptors engage the Bcl10/Malt1 complex via Carma1 for NF- $\kappa$ B and MAPK activation to selectively control cytokine production. <i>Blood</i> , 2008, 112, 2421-2428.	1.4	95
28	Intestinal Inflammation and Dysregulated Immunity in Patients With Inherited Caspase-8 Deficiency. <i>Gastroenterology</i> , 2019, 156, 275-278.	1.3	92
29	Oncogenic KrasG12D causes myeloproliferation via NLRP3 inflammasome activation. <i>Nature Communications</i> , 2020, 11, 1659.	12.8	92
30	The Role of Potassium in Inflammasome Activation by Bacteria. <i>Journal of Biological Chemistry</i> , 2010, 285, 10508-10518.	3.4	87
31	Metabolic reprogramming of donor T cells enhances graft-versus-leukemia effects in mice and humans. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	70
32	The mycobacterial cord factor adjuvant analogue trehalose-6,6'-dibehenate (TDB) activates the Nlrp3 inflammasome. <i>Immunobiology</i> , 2013, 218, 664-673.	1.9	62
33	Measuring the Inflammasome. <i>Methods in Molecular Biology</i> , 2012, 844, 199-222.	0.9	61
34	Uropathogenic <i>Escherichia coli</i> strain CFT073 disrupts NLRP3 inflammasome activation. <i>Journal of Clinical Investigation</i> , 2016, 126, 2425-2436.	8.2	60
35	Post-injury immunosuppression and secondary infections are caused by an AIM2 inflammasome-driven signaling cascade. <i>Immunity</i> , 2021, 54, 648-659.e8.	14.3	57
36	Interleukin-1 $\beta$ suppression dampens inflammatory leucocyte production and uptake in atherosclerosis. <i>Cardiovascular Research</i> , 2022, 118, 2778-2791.	3.8	47

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37	Single cell polarity in liquid phase facilitates tumour metastasis. <i>Nature Communications</i> , 2018, 9, 887.	12.8	45
38	Toll-like receptor 7/8 agonists stimulate plasmacytoid dendritic cells to initiate TH17-deviated acute contact dermatitis in human subjects. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 1320-1333.e11.	2.9	44
39	Piezo1 Channels Contribute to the Regulation of Human Atrial Fibroblast Mechanical Properties and Matrix Stiffness Sensing. <i>Cells</i> , 2021, 10, 663.	4.1	43
40	The Glucocorticoid-Induced Leucine Zipper (Gilz/Tsc22d3-2) Gene Locus Plays a Crucial Role in Male Fertility. <i>Molecular Endocrinology</i> , 2012, 26, 1000-1013.	3.7	42
41	The IFN regulatory factor 7â€dependent type I IFN response is not essential for early resistance against murine cytomegalovirus infection. <i>European Journal of Immunology</i> , 2009, 39, 1007-1018.	2.9	37
42	Select hyperactivating NLRP3 ligands enhance the T <sub>H</sub> 1- and T <sub>H</sub> 17-inducing potential of human type 2 conventional dendritic cells. <i>Science Signaling</i> , 2021, 14, .	3.6	36
43	The death domain-containing protein Unc5CL is a novel MyD88-independent activator of the pro-inflammatory IRAK signaling cascade. <i>Cell Death and Differentiation</i> , 2012, 19, 722-731.	11.2	25
44	Bcl10/Malt1 Signaling Is Essential for TCR-Induced NF-ÎB Activation in Thymocytes but Dispensable for Positive or Negative Selection. <i>Journal of Immunology</i> , 2007, 178, 953-960.	0.8	24
45	MCC950 blocks enhanced interleukin-1Î² production in patients with NLRP3 low penetrance variants. <i>Clinical Immunology</i> , 2019, 203, 45-52.	3.2	22
46	Muscle function and homeostasis require cytokine inhibition of AKT activity in Drosophila. <i>ELife</i> , 2020, 9, .	6.0	17
47	Specific Surface Modifications of Silica Nanoparticles Diminish Inflammasome Activation and In Vivo Expression of Selected Inflammatory Genes. <i>Nanomaterials</i> , 2017, 7, 355.	4.1	16
48	Pro- and anti-inflammatory macrophages express a sub-type specific purinergic receptor profile. <i>Purinergic Signalling</i> , 2021, 17, 481-492.	2.2	16
49	Prdm6 Is Essential for Cardiovascular Development In Vivo. <i>PLoS ONE</i> , 2013, 8, e81833.	2.5	15
50	Inflammasome Activation and Inhibition in Primary Murine Bone Marrow-Derived Cells, and Assays for IL-1Î±, IL-1Î², and Caspase-1. <i>Methods in Molecular Biology</i> , 2013, 1040, 117-135.	0.9	14
51	The Nlrp3 inflammasome admits defeat. <i>Trends in Immunology</i> , 2015, 36, 323-324.	6.8	10
52	Experimental Cerebral Malaria Develops Independently of Caspase Recruitment Domain-Containing Protein 9 Signaling. <i>Infection and Immunity</i> , 2012, 80, 1274-1279.	2.2	9
53	Pollen and <sc>UV</sc> â€B radiation strongly affect the inflammasome response in human primary keratinocytes. <i>Experimental Dermatology</i> , 2016, 25, 991-993.	2.9	9
54	Detection and Characterization of a Mycobacterial L-Arabinofuranose ABC Transporter Identified with a Rapid Lipoproteomics Protocol. <i>Cell Chemical Biology</i> , 2019, 26, 852-862.e6.	5.2	8

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55	NLRP3 as a sensor of metabolism gone awry. <i>Current Opinion in Biotechnology</i> , 2021, 68, 300-309.	6.6	8
56	Cardiomyocyte-specific miR-100 overexpression preserves heart function under pressure overload in mice and diminishes fatty acid uptake as well as ROS production by direct suppression of Nox4 and CD36. <i>FASEB Journal</i> , 2021, 35, e21956.	0.5	8
57	PKA Has the Gall to Oppose NLRP3. <i>Immunity</i> , 2016, 45, 707-709.	14.3	5
58	Walking over the inflammasome. <i>Nature Chemical Biology</i> , 2019, 15, 552-553.	8.0	4
59	Paradoxical immunodeficiencies: When failures of innate immunity cause immunopathology. <i>European Journal of Immunology</i> , 2022, 52, 1419-1430.	2.9	3
60	Lack of Electron Acceptors Contributes to Redox Stress and Growth Arrest in Asparagine-Starved Sarcoma Cells. <i>Cancers</i> , 2021, 13, 412.	3.7	1
61	Enolase represents a metabolic checkpoint controlling the differential exhaustion of virus-specific CD8+ T cells in viral hepatitis. <i>Zeitschrift Fur Gastroenterologie</i> , 2022, 60, .	0.5	1
62	489 TLR7/8 agonists stimulate plasmacytoid dendritic cells to initiate a Th17-deviated acute contact dermatitis in humans. <i>Journal of Investigative Dermatology</i> , 2017, 137, S275.	0.7	0
63	Dectin-2 is a Syk-coupled pattern recognition receptor crucial for Th17 responses to fungal infection. <i>Journal of Cell Biology</i> , 2009, 186, i9-i9.	5.2	0
64	A Mouse Model for XLP-2 Disease Uncovers a Critical Function for IL-1beta and TNF in Driving Hyper-Inflammation. <i>Blood</i> , 2014, 124, 1403-1403.	1.4	0