

Gerhard KrÄnke

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

7,229
citations

53794

45
h-index

58581

82
g-index

93
all docs

93
docs citations

93
times ranked

12708
citing authors

#	ARTICLE	IF	CITATIONS
1	Short-chain fatty acids regulate systemic bone mass and protect from pathological bone loss. <i>Nature Communications</i> , 2018, 9, 55.	12.8	393
2	Locally renewing resident synovial macrophages provide a protective barrier for the joint. <i>Nature</i> , 2019, 572, 670-675.	27.8	345
3	Regulation of autoantibody activity by the IL-23/TH17 axis determines the onset of autoimmune disease. <i>Nature Immunology</i> , 2017, 18, 104-113.	14.5	274
4	TNF-induced structural joint damage is mediated by IL-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11742-11747.	7.1	273
5	Orphan nuclear receptor NR4A1 regulates transforming growth factor- β signaling and fibrosis. <i>Nature Medicine</i> , 2015, 21, 150-158.	30.7	267
6	Targeting zonulin and intestinal epithelial barrier function to prevent onset of arthritis. <i>Nature Communications</i> , 2020, 11, 1995.	12.8	253
7	Autophagy regulates TNF α -mediated joint destruction in experimental arthritis. <i>Annals of the Rheumatic Diseases</i> , 2013, 72, 761-768.	0.9	249
8	Inhibition of interleukin-6 receptor directly blocks osteoclast formation in vitro and in vivo. <i>Arthritis and Rheumatism</i> , 2009, 60, 2747-2756.	6.7	237
9	Platelet-derived serotonin links vascular disease and tissue fibrosis. <i>Journal of Experimental Medicine</i> , 2011, 208, 961-972.	8.5	222
10	A network of trans-cortical capillaries as mainstay for blood circulation in long bones. <i>Nature Metabolism</i> , 2019, 1, 236-250.	11.9	221
11	Glycosylation of immunoglobulin G determines osteoclast differentiation and bone loss. <i>Nature Communications</i> , 2015, 6, 6651.	12.8	212
12	12/15-Lipoxygenase Orchestrates the Clearance of Apoptotic Cells and Maintains Immunologic Tolerance. <i>Immunity</i> , 2012, 36, 834-846.	14.3	204
13	Expression of Heme Oxygenase-1 in Human Vascular Cells Is Regulated by Peroxisome Proliferator-Activated Receptors. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 1276-1282.	2.4	201
14	Blockade of Dickkopf (DKK)-1 induces fusion of sacroiliac joints. <i>Annals of the Rheumatic Diseases</i> , 2010, 69, 592-597.	0.9	198
15	Oxidized Phospholipids Induce Expression of Human Heme Oxygenase-1 Involving Activation of cAMP-responsive Element-binding Protein. <i>Journal of Biological Chemistry</i> , 2003, 278, 51006-51014.	3.4	169
16	Periarticular bone structure in rheumatoid arthritis patients and healthy individuals assessed by high-resolution computed tomography. <i>Arthritis and Rheumatism</i> , 2010, 62, 330-339.	6.7	153
17	Microbiota from Obese Mice Regulate Hematopoietic Stem Cell Differentiation by Altering the Bone Niche. <i>Cell Metabolism</i> , 2015, 22, 886-894.	16.2	148
18	Oxidized Phospholipids Trigger Atherogenic Inflammation in Murine Arteries. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005, 25, 633-638.	2.4	138

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19	12/15-Lipoxygenase Counteracts Inflammation and Tissue Damage in Arthritis. <i>Journal of Immunology</i> , 2009, 183, 3383-3389.	0.8	138
20	Disruption of the protein C inhibitor gene results in impaired spermatogenesis and male infertility. <i>Journal of Clinical Investigation</i> , 2000, 106, 1531-1539.	8.2	132
21	Oxidized Phospholipids Negatively Regulate Dendritic Cell Maturation Induced by TLRs and CD40. <i>Journal of Immunology</i> , 2005, 175, 501-508.	0.8	114
22	Reactive Oxygen Species Deficiency Induces Autoimmunity with Type 1 Interferon Signature. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 2231-2245.	5.4	107
23	The complement system drives local inflammatory tissue priming by metabolic reprogramming of synovial fibroblasts. <i>Immunity</i> , 2021, 54, 1002-1021.e10.	14.3	106
24	MyD88-mediated amelioration of ITP in mice is dependent on sialic acid and SIGNR1. <i>European Journal of Immunology</i> , 2012, 42, 826-830.	2.9	101
25	The double-edged role of 12/15-lipoxygenase during inflammation and immunity. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 371-381.	2.4	99
26	PPAR γ governs Wnt signaling and bone turnover. <i>Nature Medicine</i> , 2013, 19, 608-613.	30.7	98
27	Osteocyte necrosis triggers osteoclast-mediated bone loss through macrophage-inducible C-type lectin. <i>Journal of Clinical Investigation</i> , 2020, 130, 4811-4830.	8.2	93
28	Molecular mechanisms of inflammatory bone damage: emerging targets for therapy. <i>Trends in Molecular Medicine</i> , 2008, 14, 245-253.	6.7	91
29	Induction of osteoclast-associated receptor, a key osteoclast costimulation molecule, in rheumatoid arthritis. <i>Arthritis and Rheumatism</i> , 2008, 58, 3041-3050.	6.7	88
30	The B cell response to citrullinated antigens in the development of rheumatoid arthritis. <i>Nature Reviews Rheumatology</i> , 2018, 14, 157-169.	8.0	88
31	JAK inhibition increases bone mass in steady-state conditions and ameliorates pathological bone loss by stimulating osteoblast function. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	80
32	Estrogen induces St6gal1 expression and increases IgG sialylation in mice and patients with rheumatoid arthritis: a potential explanation for the increased risk of rheumatoid arthritis in postmenopausal women. <i>Arthritis Research and Therapy</i> , 2018, 20, 84.	3.5	79
33	Enzymatic lipid oxidation by eosinophils propagates coagulation, hemostasis, and thrombotic disease. <i>Journal of Experimental Medicine</i> , 2017, 214, 2121-2138.	8.5	78
34	12/15-lipoxygenase-mediated enzymatic lipid oxidation regulates DC maturation and function. <i>Journal of Clinical Investigation</i> , 2015, 125, 1944-1954.	8.2	77
35	The δ -Isoform of p38 MAPK Specifically Regulates Arthritic Bone Loss. <i>Journal of Immunology</i> , 2009, 183, 5938-5947.	0.8	76
36	The Nuclear Receptor Nr4a1 Mediates Anti-Inflammatory Effects of Apoptotic Cells. <i>Journal of Immunology</i> , 2014, 192, 4852-4858.	0.8	70

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37	Tumor necrosis factor $\hat{\pm}$ and RANKL blockade cannot halt bony spur formation in experimental inflammatory arthritis. <i>Arthritis and Rheumatism</i> , 2009, 60, 2644-2654.	6.7	68
38	IL-33-induced metabolic reprogramming controls the differentiation of alternatively activated macrophages and the resolution of inflammation. <i>Immunity</i> , 2021, 54, 2531-2546.e5.	14.3	67
39	Group 2 Innate Lymphoid Cells Attenuate Inflammatory Arthritis and Protect from Bone Destruction in Mice. <i>Cell Reports</i> , 2018, 24, 169-180.	6.4	64
40	12/15-Lipoxygenase during the regulation of inflammation, immunity, and self-tolerance. <i>Journal of Molecular Medicine</i> , 2012, 90, 1247-1256.	3.9	63
41	Milk fat globule-EGF factor 8 mediates the enhancement of apoptotic cell clearance by glucocorticoids. <i>Cell Death and Differentiation</i> , 2013, 20, 1230-1240.	11.2	59
42	R $\hat{\epsilon}$ spondin 1 protects against inflammatory bone damage during murine arthritis by modulating the Wnt pathway. <i>Arthritis and Rheumatism</i> , 2010, 62, 2303-2312.	6.7	57
43	Enzymatically oxidized phospholipids assume center stage as essential regulators of innate immunity and cell death. <i>Science Signaling</i> , 2019, 12, .	3.6	55
44	Photooxidation Generates Biologically Active Phospholipids That Induce Heme Oxygenase-1 in Skin Cells. <i>Journal of Biological Chemistry</i> , 2007, 282, 16934-16941.	3.4	52
45	Improved Survival and Reduced Vascular Permeability by Eliminating or Blocking 12/15-Lipoxygenase in Mouse Models of Acute Lung Injury (ALI). <i>Journal of Immunology</i> , 2009, 183, 4715-4722.	0.8	50
46	RELM $\hat{\pm}$ -expressing macrophages protect against fatal lung damage and reduce parasite burden during helminth infection. <i>Science Immunology</i> , 2019, 4, .	11.9	44
47	Networks of enzymatically oxidized membrane lipids support calcium-dependent coagulation factor binding to maintain hemostasis. <i>Science Signaling</i> , 2017, 10, .	3.6	40
48	Oxidized Phospholipids Alter Vascular Connexin Expression, Phosphorylation, and Heterocellular Communication. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006, 26, 2216-2221.	2.4	39
49	Eosinophils are not essential for maintenance of murine plasma cells in the bone marrow. <i>European Journal of Immunology</i> , 2018, 48, 822-828.	2.9	38
50	A role for 12/15-lipoxygenase-derived proresolving mediators in postoperative ileus: protectin DX-regulated neutrophil extravasation. <i>Journal of Leukocyte Biology</i> , 2016, 99, 231-239.	3.3	37
51	Glucocorticoid receptor in stromal cells is essential for glucocorticoid-mediated suppression of inflammation in arthritis. <i>Annals of the Rheumatic Diseases</i> , 2018, 77, 1610-1618.	0.9	37
52	Environmental arginine controls multinuclear giant cell metabolism and formation. <i>Nature Communications</i> , 2020, 11, 431.	12.8	37
53	The 12/15-lipoxygenase pathway counteracts fibroblast activation and experimental fibrosis. <i>Annals of the Rheumatic Diseases</i> , 2012, 71, 1081-1087.	0.9	35
54	Liver X receptors orchestrate osteoblast/osteoclast crosstalk and counteract pathologic bone loss. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 2442-2451.	2.8	35

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55	The Nuclear Receptor Nr4a1 Acts as a Microglia Rheostat and Serves as a Therapeutic Target in Autoimmune-Driven Central Nervous System Inflammation. <i>Journal of Immunology</i> , 2017, 198, 3878-3885.	0.8	34
56	Structural insights into heme binding to IL-36 \pm proinflammatory cytokine. <i>Scientific Reports</i> , 2019, 9, 16893.	3.3	29
57	Metabolic reprogramming of osteoclasts represents a therapeutic target during the treatment of osteoporosis. <i>Scientific Reports</i> , 2020, 10, 21020.	3.3	29
58	Activation of liver X receptors inhibits experimental fibrosis by interfering with interleukin-6 release from macrophages. <i>Annals of the Rheumatic Diseases</i> , 2015, 74, 1317-1324.	0.9	28
59	Origin and function of synovial macrophage subsets during inflammatory joint disease. <i>Advances in Immunology</i> , 2019, 143, 75-98.	2.2	23
60	Phospholipid membranes drive abdominal aortic aneurysm development through stimulating coagulation factor activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8038-8047.	7.1	22
61	Upregulation of CCR4 in activated CD8 ⁺ T cells indicates enhanced lung homing in patients with severe acute SARS-CoV \pm infection. <i>European Journal of Immunology</i> , 2021, 51, 1436-1448.	2.9	22
62	Runx2 mediated Induction of Novel Targets ST2 and Runx3 Leads to Cooperative Regulation of Hypertrophic Differentiation in ATDC5 Chondrocytes. <i>Scientific Reports</i> , 2017, 7, 17947.	3.3	19
63	The 12/15-lipoxygenase pathway promotes osteoclast development and differentiation. <i>Autoimmunity</i> , 2009, 42, 383-385.	2.6	18
64	Selective p38MAPK isoform expression and activation in antineutrophil cytoplasmatic antibody-associated crescentic glomerulonephritis: role of p38MAPK. <i>Annals of the Rheumatic Diseases</i> , 2007, 67, 602-608.	0.9	17
65	Development of three-dimensional prints of arthritic joints for supporting patients' awareness to structural damage. <i>Arthritis Research and Therapy</i> , 2017, 19, 34.	3.5	17
66	The involvement of Toll-like receptor 9 in the pathogenesis of erosive autoimmune arthritis. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 4399-4409.	3.6	17
67	Inflammation-Associated Changes in Bone Homeostasis. <i>Inflammation and Allergy: Drug Targets</i> , 2012, 11, 188-195.	1.8	16
68	Synovial Macrophage and Fibroblast Heterogeneity in Joint Homeostasis and Inflammation. <i>Frontiers in Medicine</i> , 2022, 9, 862161.	2.6	16
69	NR4A1 Regulates Motility of Osteoclast Precursors and Serves as Target for the Modulation of Systemic Bone Turnover. <i>Journal of Bone and Mineral Research</i> , 2018, 33, 2035-2047.	2.8	15
70	PPAR γ -mediated mitochondrial rewiring of osteoblasts determines bone mass. <i>Scientific Reports</i> , 2020, 10, 8428.	3.3	14
71	Advanced neural networks for classification of MRI in psoriatic arthritis, seronegative, and seropositive rheumatoid arthritis. <i>Rheumatology</i> , 2022, 61, 4945-4951.	1.9	14
72	Brief Report: Anti-Citrullinated Protein Antibody Positivity Correlates With Cartilage Damage and Proteoglycan Levels in Patients With Rheumatoid Arthritis in the Hand Joints. <i>Arthritis and Rheumatology</i> , 2014, 66, 3283-3288.	5.6	13

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73	The dietary soy flavonoid genistein abrogates tissue factor induction in endothelial cells induced by the atherogenic oxidized phospholipid oxPAPC. <i>Thrombosis Research</i> , 2007, 120, 71-79.	1.7	12
74	T2 Mapping as a New Method for Quantitative Assessment of Cartilage Damage in Rheumatoid Arthritis. <i>Journal of Rheumatology</i> , 2020, 47, 820-825.	2.0	12
75	Development of myeloproliferative disease in 12/15-lipoxygenase deficiency. <i>Blood</i> , 2012, 119, 6173-6174.	1.4	10
76	Loss of Phosphatase and Tensin Homolog in APCs Impedes Th17-Mediated Autoimmune Encephalomyelitis. <i>Journal of Immunology</i> , 2015, 195, 2560-2570.	0.8	10
77	An advanced optical clearing protocol allows label-free detection of tissue necrosis via multiphoton microscopy in injured whole muscle. <i>Theranostics</i> , 2021, 11, 2876-2891.	10.0	10
78	Estrogen-mediated downregulation of HIF-1 α signaling in B lymphocytes influences postmenopausal bone loss. <i>Bone Research</i> , 2022, 10, 15.	11.4	10
79	Full Length Interleukin 33 Aggravates Radiation-Induced Skin Reaction. <i>Frontiers in Immunology</i> , 2017, 8, 722.	4.8	9
80	Autoantibodies Recognizing Secondary Necrotic Cells Promote Neutrophilic Phagocytosis and Identify Patients With Systemic Lupus Erythematosus. <i>Frontiers in Immunology</i> , 2018, 9, 989.	4.8	9
81	PPAR δ : A master regulator of mesenchymal stem cell functions. <i>Biochimie</i> , 2017, 136, 55-58.	2.6	7
82	Adopted orphans as regulators of inflammation, immunity and skeletal homeostasis. <i>Swiss Medical Weekly</i> , 2014, 144, w14055.	1.6	7
83	Oxidized phospholipids at the interface of innate and adaptive immunity. <i>Future Lipidology</i> , 2006, 1, 623-630.	0.5	5
84	Fc-gamma receptors are not involved in cartilage damage during experimental osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2015, 23, 1221-1225.	1.3	5
85	Modular Lattice Constructs for Biological Joint Resurfacing. <i>Tissue Engineering - Part A</i> , 2019, 25, 1053-1062.	3.1	3
86	Formation of atherosclerotic lesions is independent of eosinophils in male mice. <i>Atherosclerosis</i> , 2020, 311, 67-72.	0.8	3
87	Tibia Cortical Bone Segmentation in Micro-CT and X-ray Microscopy Data Using a Single Neural Network. <i>Informatik Aktuell</i> , 2022, , 333-338.	0.6	3
88	A8.3...Deficit of S100A4 Prevents Joint Destruction and Systemic Bone Loss in hTNF α Mouse Model. <i>Annals of the Rheumatic Diseases</i> , 2013, 72, A58.1-A58.	0.9	0
89	08.27...Impact of toll-like receptor 9 in inflammatory arthritis and osteoclastogenesis. , 2017, , .		0
90	OP0076...JAK-INHIBITORS TOFACITINIB AND BARICITINIB IMPROVE PATHOLOGICAL BONE LOSS IN VIVO. , 2019, , .		0

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91	Identifying "non-progressors" among patients with arthralgia. Nature Reviews Rheumatology, 2020, 16, 251-252.	8.0	0