Gerhard KrÃ¶nke

List of Publications by Year
in descending order

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91	7,229	53794 45	58581 82
papers	citations	h-index	g-index

93	93	93	12708
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tibia Cortical Bone Segmentation in Micro-CT and X-ray Microscopy Data Using a Single Neural Network. Informatik Aktuell, 2022, , 333-338.	0.6	3
2	Estrogen-mediated downregulation of HIF-1Î± signaling in B lymphocytes influences postmenopausal bone loss. Bone Research, 2022, 10, 15.	11.4	10
3	Advanced neural networks for classification of MRI in psoriatic arthritis, seronegative, and seropositive rheumatoid arthritis. Rheumatology, 2022, 61, 4945-4951.	1.9	14
4	Synovial Macrophage and Fibroblast Heterogeneity in Joint Homeostasis and Inflammation. Frontiers in Medicine, 2022, 9, 862161.	2.6	16
5	An advanced optical clearing protocol allows label-free detection of tissue necrosis via multiphoton microscopy in injured whole muscle. Theranostics, 2021, 11, 2876-2891.	10.0	10
6	Upregulation of CCR4 in activated CD8⁺ T cells indicates enhanced lung homing in patients with severe acute SARSâ€CoVâ€2 infection. European Journal of Immunology, 2021, 51, 1436-1448.	2.9	22
7	The complement system drives local inflammatory tissue priming by metabolic reprogramming of synovial fibroblasts. Immunity, 2021, 54, 1002-1021.e10.	14.3	106
8	IL-33-induced metabolic reprogramming controls the differentiation of alternatively activated macrophages and the resolution of inflammation. Immunity, 2021, 54, 2531-2546.e5.	14.3	67
9	T2 Mapping as a New Method for Quantitative Assessment of Cartilage Damage in Rheumatoid Arthritis. Journal of Rheumatology, 2020, 47, 820-825.	2.0	12
10	Formation of atherosclerotic lesions is independent of eosinophils in male mice. Atherosclerosis, 2020, 311, 67-72.	0.8	3
11	Metabolic reprogramming of osteoclasts represents a therapeutic target during the treatment of osteoporosis. Scientific Reports, 2020, 10, 21020.	3.3	29
12	Identifying â€˜non-progressorsâ€™ among patients with arthralgia. Nature Reviews Rheumatology, 2020, 16, 251-252.	8.0	0
13	JAK inhibition increases bone mass in steady-state conditions and ameliorates pathological bone loss by stimulating osteoblast function. Science Translational Medicine, 2020, 12, .	12.4	80
14	Environmental arginine controls multinuclear giant cell metabolism and formation. Nature Communications, 2020, 11, 431.	12.8	37
15	Targeting zonulin and intestinal epithelial barrier function to prevent onset of arthritis. Nature Communications, 2020, 11, 1995.	12.8	253
16	PPARÎ´-mediated mitochondrial rewiring of osteoblasts determines bone mass. Scientific Reports, 2020, 10, 8428.	3.3	14
17	Osteocyte necrosis triggers osteoclast-mediated bone loss through macrophage-inducible C-type lectin. Journal of Clinical Investigation, 2020, 130, 4811-4830.	8.2	93
18	Locally renewing resident synovial macrophages provide a protective barrier for the joint. Nature, 2019, 572, 670-675.	27.8	345

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19	Origin and function of synovial macrophage subsets during inflammatory joint disease. Advances in Immunology, 2019, 143, 75-98.	2.2	23
20	A network of trans-cortical capillaries as mainstay for blood circulation in long bones. Nature Metabolism, 2019, 1, 236-250.	11.9	221
21	RELMÎ±-expressing macrophages protect against fatal lung damage and reduce parasite burden during helminth infection. Science Immunology, 2019, 4, .	11.9	44
22	Enzymatically oxidized phospholipids assume center stage as essential regulators of innate immunity and cell death. Science Signaling, 2019, 12, .	3.6	55
23	Phospholipid membranes drive abdominal aortic aneurysm development through stimulating coagulation factor activity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8038-8047.	7.1	22
24	OP0076â€…JAK-INHIBITORS TOFACITINIB AND BARICITINIB IMPROVE PATHOLOGICAL BONE LOSS IN VIVO. , 2019, , .		0
25	Structural insights into heme binding to IL-36Î± proinflammatory cytokine. Scientific Reports, 2019, 9, 16893.	3.3	29
26	Modular Lattice Constructs for Biological Joint Resurfacing. Tissue Engineering - Part A, 2019, 25, 1053-1062.	3.1	3
27	Eosinophils are not essential for maintenance of murine plasma cells in the bone marrow. European Journal of Immunology, 2018, 48, 822-828.	2.9	38
28	The B cell response to citrullinated antigens in the development of rheumatoid arthritis. Nature Reviews Rheumatology, 2018, 14, 157-169.	8.0	88
29	Short-chain fatty acids regulate systemic bone mass and protect from pathological bone loss. Nature Communications, 2018, 9, 55.	12.8	393
30	NR4A1 Regulates Motility of Osteoclast Precursors and Serves as Target for the Modulation of Systemic Bone Turnover. Journal of Bone and Mineral Research, 2018, 33, 2035-2047.	2.8	15
31	Group 2 Innate Lymphoid Cells Attenuate Inflammatory Arthritis and Protect from Bone Destruction in Mice. Cell Reports, 2018, 24, 169-180.	6.4	64
32	Autoantibodies Recognizing Secondary NEcrotic Cells Promote Neutrophilic Phagocytosis and Identify Patients With Systemic Lupus Erythematosus. Frontiers in Immunology, 2018, 9, 989.	4.8	9
33	The involvement of Tollâ€like receptor 9 in the pathogenesis of erosive autoimmune arthritis. Journal of Cellular and Molecular Medicine, 2018, 22, 4399-4409.	3.6	17
34	Glucocorticoid receptor in stromal cells is essential for glucocorticoid-mediated suppression of inflammation in arthritis. Annals of the Rheumatic Diseases, 2018, 77, 1610-1618.	0.9	37
35	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. Arthritis Research and Therapy, 2018, 20, 84.	3.5	79
36	Development of three-dimensional prints of arthritic joints for supporting patientsâ€™ awareness to structural damage. Arthritis Research and Therapy, 2017, 19, 34.	3.5	17

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37	The Nuclear Receptor Nr4a1 Acts as a Microglia Rheostat and Serves as a Therapeutic Target in Autoimmune-Driven Central Nervous System Inflammation. Journal of Immunology, 2017, 198, 3878-3885.	0.8	34
38	PPARÎ²/Î´: A master regulator of mesenchymal stem cell functions. Biochimie, 2017, 136, 55-58.	2.6	7
39	Enzymatic lipid oxidation by eosinophils propagates coagulation, hemostasis, and thrombotic disease. Journal of Experimental Medicine, 2017, 214, 2121-2138.	8.5	78
40	Networks of enzymatically oxidized membrane lipids support calcium-dependent coagulation factor binding to maintain hemostasis. Science Signaling, 2017, 10, .	3.6	40
41	Regulation of autoantibody activity by the IL-23â€“TH17 axis determines the onset of autoimmune disease. Nature Immunology, 2017, 18, 104-113.	14.5	274
42	The double-edged role of 12/15-lipoxygenase during inflammation and immunity. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 371-381.	2.4	99
43	Runx2 mediated Induction of Novel Targets ST2 and Runx3 Leads to Cooperative Regulation of Hypertrophic Differentiation in ATDC5 Chondrocytes. Scientific Reports, 2017, 7, 17947.	3.3	19
44	08.27â€¦Impact of toll-like receptor 9 in inflammatory arthritis and osteoclastogenesis. , 2017, , .		0
45	Full Length Interleukin 33 Aggravates Radiation-Induced Skin Reaction. Frontiers in Immunology, 2017, 8, 722.	4.8	9
46	A role for 12/15-lipoxygenase-derived proresolving mediators in postoperative ileus: protectin DX-regulated neutrophil extravasation. Journal of Leukocyte Biology, 2016, 99, 231-239.	3.3	37
47	Orphan nuclear receptor NR4A1 regulates transforming growth factor-Î² signaling and fibrosis. Nature Medicine, 2015, 21, 150-158.	30.7	267
48	Fc-gamma receptors are not involved in cartilage damage during experimental osteoarthritis. Osteoarthritis and Cartilage, 2015, 23, 1221-1225.	1.3	5
49	Glycosylation of immunoglobulin G determines osteoclast differentiation and bone loss. Nature Communications, 2015, 6, 6651.	12.8	212
50	Microbiota from Obese Mice Regulate Hematopoietic Stem Cell Differentiation by Altering the Bone Niche. Cell Metabolism, 2015, 22, 886-894.	16.2	148
51	Loss of Phosphatase and Tensin Homolog in APCs Impedes Th17-Mediated Autoimmune Encephalomyelitis. Journal of Immunology, 2015, 195, 2560-2570.	0.8	10
52	Activation of liver X receptors inhibits experimental fibrosis by interfering with interleukin-6 release from macrophages. Annals of the Rheumatic Diseases, 2015, 74, 1317-1324.	0.9	28
53	12/15-lipoxygenaseâ€“mediated enzymatic lipid oxidation regulates DC maturation and function. Journal of Clinical Investigation, 2015, 125, 1944-1954.	8.2	77
54	Brief Report: Antiâ€“Citrullinated Protein Antibody Positivity Correlates With Cartilage Damage and Proteoglycan Levels in Patients With Rheumatoid Arthritis in the Hand Joints. Arthritis and Rheumatology, 2014, 66, 3283-3288.	5.6	13

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55	Reactive Oxygen Species Deficiency Induces Autoimmunity with Type 1 Interferon Signature. Antioxidants and Redox Signaling, 2014, 21, 2231-2245.	5.4	107
56	The Nuclear Receptor Nr4a1 Mediates Anti-Inflammatory Effects of Apoptotic Cells. Journal of Immunology, 2014, 192, 4852-4858.	0.8	70
57	Adopted orphans as regulators of inflammation, immunity and skeletal homeostasis. Swiss Medical Weekly, 2014, 144, w14055.	1.6	7
58	Milk fat globule-EGF factor 8 mediates the enhancement of apoptotic cell clearance by glucocorticoids. Cell Death and Differentiation, 2013, 20, 1230-1240.	11.2	59
59	PPARÎ²/Î´ governs Wnt signaling and bone turnover. Nature Medicine, 2013, 19, 608-613.	30.7	98
60	Autophagy regulates TNFÎ±-mediated joint destruction in experimental arthritis. Annals of the Rheumatic Diseases, 2013, 72, 761-768.	0.9	249
61	A8.3â€…Deficit of S100A4 Prevents Joint Destruction and Systemic Bone Loss in hTNFtg Mouse Model. Annals of the Rheumatic Diseases, 2013, 72, A58.1-A58.	0.9	0
62	The 12/15-lipoxygenase pathway counteracts fibroblast activation and experimental fibrosis. Annals of the Rheumatic Diseases, 2012, 71, 1081-1087.	0.9	35
63	Liver X receptors orchestrate osteoblast/osteoclast crosstalk and counteract pathologic bone loss. Journal of Bone and Mineral Research, 2012, 27, 2442-2451.	2.8	35
64	12/15-Lipoxygenase during the regulation of inflammation, immunity, and self-tolerance. Journal of Molecular Medicine, 2012, 90, 1247-1256.	3.9	63
65	Development of myeloproliferative disease in 12/15-lipoxygenase deficiency. Blood, 2012, 119, 6173-6174.	1.4	10
66	12/15-Lipoxygenase Orchestrates the Clearance of Apoptotic Cells and Maintains Immunologic Tolerance. Immunity, 2012, 36, 834-846.	14.3	204
67	Inflammation-Associated Changes in Bone Homeostasis. Inflammation and Allergy: Drug Targets, 2012, 11, 188-195.	1.8	16
68	<scp>IVI</scp>â€mediated amelioration of <scp>ITP</scp> in mice is dependent on sialic acid and <scp>SIGNR</scp>1. European Journal of Immunology, 2012, 42, 826-830.	2.9	101
69	Platelet-derived serotonin links vascular disease and tissue fibrosis. Journal of Experimental Medicine, 2011, 208, 961-972.	8.5	222
70	Periarticular bone structure in rheumatoid arthritis patients and healthy individuals assessed by highâ€resolution computed tomography. Arthritis and Rheumatism, 2010, 62, 330-339.	6.7	153
71	Râ€spondin 1 protects against inflammatory bone damage during murine arthritis by modulating the Wnt pathway. Arthritis and Rheumatism, 2010, 62, 2303-2312.	6.7	57
72	Blockade of Dickkopf (DKK)-1 induces fusion of sacroiliac joints. Annals of the Rheumatic Diseases, 2010, 69, 592-597.	0.9	198

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73	The 12/15-lipoxygenase pathway promotes osteoclast development and differentiation. Autoimmunity, 2009, 42, 383-385.	2.6	18
74	The Î±-Isoform of p38 MAPK Specifically Regulates Arthritic Bone Loss. Journal of Immunology, 2009, 183, 5938-5947.	0.8	76
75	Improved Survival and Reduced Vascular Permeability by Eliminating or Blocking 12/15-Lipoxygenase in Mouse Models of Acute Lung Injury (ALI). Journal of Immunology, 2009, 183, 4715-4722.	0.8	50
76	12/15-Lipoxygenase Counteracts Inflammation and Tissue Damage in Arthritis. Journal of Immunology, 2009, 183, 3383-3389.	0.8	138
77	Tumor necrosis factor Î± and RANKL blockade cannot halt bony spur formation in experimental inflammatory arthritis. Arthritis and Rheumatism, 2009, 60, 2644-2654.	6.7	68
78	Inhibition of interleukinâ€6 receptor directly blocks osteoclast formation in vitro and in vivo. Arthritis and Rheumatism, 2009, 60, 2747-2756.	6.7	237
79	Induction of osteoclastâ€associated receptor, a key osteoclast costimulation molecule, in rheumatoid arthritis. Arthritis and Rheumatism, 2008, 58, 3041-3050.	6.7	88
80	Molecular mechanisms of inflammatory bone damage: emerging targets for therapy. Trends in Molecular Medicine, 2008, 14, 245-253.	6.7	91
81	Photooxidation Generates Biologically Active Phospholipids That Induce Heme Oxygenase-1 in Skin Cells. Journal of Biological Chemistry, 2007, 282, 16934-16941.	3.4	52
82	Expression of Heme Oxygenase-1 in Human Vascular Cells Is Regulated by Peroxisome Proliferator-Activated Receptors. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 1276-1282.	2.4	201
83	Selective p38MAPK isoform expression and activation in antineutrophil cytoplasmatic antibody-associated crescentic glomerulonephritis: role of p38MAPKÂ. Annals of the Rheumatic Diseases, 2007, 67, 602-608.	0.9	17
84	TNF-induced structural joint damage is mediated by IL-1. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11742-11747.	7.1	273
85	The dietary soy flavonoid genistein abrogates tissue factor induction in endothelial cells induced by the atherogenic oxidized phospholipid oxPAPC. Thrombosis Research, 2007, 120, 71-79.	1.7	12
86	Oxidized phospholipids at the interface of innate and adaptive immunity. Future Lipidology, 2006, 1, 623-630.	0.5	5
87	Oxidized Phospholipids Alter Vascular Connexin Expression, Phosphorylation, and Heterocellular Communication. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 2216-2221.	2.4	39
88	Oxidized Phospholipids Trigger Atherogenic Inflammation in Murine Arteries. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 633-638.	2.4	138
89	Oxidized Phospholipids Negatively Regulate Dendritic Cell Maturation Induced by TLRs and CD40. Journal of Immunology, 2005, 175, 501-508.	0.8	114
90	Oxidized Phospholipids Induce Expression of Human Heme Oxygenase-1 Involving Activation of cAMP-responsive Element-binding Protein. Journal of Biological Chemistry, 2003, 278, 51006-51014.	3.4	169

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91	Disruption of the protein C inhibitor gene results in impaired spermatogenesis and male infertility. Journal of Clinical Investigation, 2000, 106, 1531-1539.	8.2	132