

Erik Martens

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

2,191
citations

257450

24
h-index

243625

44
g-index

69
all docs

69
docs citations

69
times ranked

3160
citing authors

#	ARTICLE	IF	CITATIONS
1	Diagnosis of carmine allergy using carminic acid solves interference of house dust mite and crustacean cross-reactivity. <i>Clinical and Experimental Allergy</i> , 2022, 52, 1225-1229.	2.9	2
2	Citrullination as a novel posttranslational modification of matrix metalloproteinases. <i>Matrix Biology</i> , 2021, 95, 68-83.	3.6	21
3	From ELISA to Immunosorbent Tandem Mass Spectrometry Proteoform Analysis: The Example of CXCL8/Interleukin-8. <i>Frontiers in Immunology</i> , 2021, 12, 644725.	4.8	8
4	Kinetics of peripheral blood neutrophils in severe coronavirus disease 2019. <i>Clinical and Translational Immunology</i> , 2021, 10, e1271.	3.8	36
5	Proteoform Analysis of Matrix Metalloproteinase-9/Gelatinase B and Discovery of Its Citrullination in Rheumatoid Arthritis Synovial Fluids. <i>Frontiers in Immunology</i> , 2021, 12, 763832.	4.8	7
6	The Ulcerative Colitis Response Index for Detection of Mucosal Healing in Patients Treated With Anti-tumour Necrosis Factor. <i>Journal of Crohn's and Colitis</i> , 2020, 14, 176-184.	1.3	7
7	Recombinant Protein-Based Nanoparticles: Elucidating Their Inflammatory Effects In Vivo and Their Potential as a New Therapeutic Format. <i>Pharmaceutics</i> , 2020, 12, 450.	4.5	9
8	The Biological Potential Hidden in Inclusion Bodies. <i>Pharmaceutics</i> , 2020, 12, 157.	4.5	19
9	Bivalent Inhibitor with Selectivity for Trimeric MMP-9 Amplifies Neutrophil Chemotaxis and Enables Functional Studies on MMP-9 Proteoforms. <i>Cells</i> , 2020, 9, 1634.	4.1	11
10	MMP-9/Gelatinase B Degrades Immune Complexes in Systemic Lupus Erythematosus. <i>Frontiers in Immunology</i> , 2019, 10, 538.	4.8	19
11	EDTA/gelatin zymography method to identify C1s versus activated MMP-9 in plasma and immune complexes of patients with systemic lupus erythematosus. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 576-585.	3.6	7
12	Propeptide glycosylation and galectin-3 binding decrease proteolytic activation of human pro-MMP-9/progelatinase B. <i>FEBS Journal</i> , 2019, 286, 930-945.	4.7	7
13	Gelatinase B/Matrix Metalloproteinase-9 as Innate Immune Effector Molecule in Achalasia. <i>Clinical and Translational Gastroenterology</i> , 2018, 9, e208.	2.5	16
14	Gelatinase B/matrix metalloproteinase-9 is a phase-specific effector molecule, independent from Fas, in experimental autoimmune encephalomyelitis. <i>PLoS ONE</i> , 2018, 13, e0197944.	2.5	11
15	Highly Selective and Tunable Protein Hydrolysis by a Polyoxometalate Complex in Surfactant Solutions: A Step toward the Development of Artificial Metalloproteases for Membrane Proteins. <i>ACS Omega</i> , 2017, 2, 2026-2033.	3.5	23
16	Suramin protects against osteoarthritis by increasing tissue inhibitor of matrix metalloproteinase-3 and glycosaminoglycans in the articular cartilage. <i>Osteoarthritis and Cartilage</i> , 2017, 25, S145-S146.	1.3	0
17	Endotoxemia shifts neutrophils with TIMP-free gelatinase B/MMP-9 from bone marrow to the periphery and induces systematic upregulation of TIMP-1. <i>Haematologica</i> , 2017, 102, 1671-1682.	3.5	13
18	04.04...Suramin protects against osteoarthritis by increasing tissue inhibitor of matrix metalloproteinase-3 and glycosaminoglycans in the articular cartilage. , 2017, , .		0

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19	Differential inhibition of activity, activation and gene expression of MMP-9 in THP-1 cells by azithromycin and minocycline versus bortezomib: A comparative study. PLoS ONE, 2017, 12, e0174853.	2.5	35
20	Thymocyte development in the absence of matrix metalloproteinase-9/gelatinase B. Scientific Reports, 2016, 6, 29852.	3.3	3
21	Genetic Deletion of Tissue Inhibitor of Metalloproteinase-1/TIMP-1 Alters Inflammation and Attenuates Fibrosis in Dextran Sodium Sulphate-induced Murine Models of Colitis. Journal of Crohn's and Colitis, 2016, 10, 1336-1350.	1.3	34
22	Differential Diagnosis of Autoimmune Pancreatitis From Pancreatic Cancer by Analysis of Serum Gelatinase Levels. Pancreas, 2016, 45, 1048-1055.	1.1	6
23	Circular trimers of gelatinase B/matrix metalloproteinase-9 constitute a distinct population of functional enzyme molecules differentially regulated by tissue inhibitor of metalloproteinases-1. Biochemical Journal, 2015, 465, 259-270.	3.7	39
24	Side-by-side secretion of Late Palaeozoic diverged courtship pheromones in an aquatic salamander. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142960.	2.6	19
25	Citrullination and Proteolytic Processing of Chemokines by Porphyromonas gingivalis. Infection and Immunity, 2014, 82, 2511-2519.	2.2	22
26	Functional links between gelatinase B/matrix metalloproteinase-9 and prominin-1/CD133 in diabetic retinal vasculopathy and neuropathy. Progress in Retinal and Eye Research, 2014, 43, 76-91.	15.5	19
27	Interference with Glycosaminoglycan-Chemokine Interactions with a Probe to Alter Leukocyte Recruitment and Inflammation In Vivo. PLoS ONE, 2014, 9, e104107.	2.5	15
28	Zymography methods for visualizing hydrolytic enzymes. Nature Methods, 2013, 10, 211-220.	19.0	271
29	Meprins process matrix metalloproteinase-9 (MMP-9)/gelatinase B and enhance the activation kinetics by MMP-3. FEBS Letters, 2012, 586, 4264-4269.	2.8	22
30	Rescue from acute neuroinflammation by pharmacological chemokine-mediated deviation of leukocytes. Journal of Neuroinflammation, 2012, 9, 243.	7.2	18
31	Improved methods for haemozoin quantification in tissues yield organ-and parasite-specific information in malaria-infected mice. Malaria Journal, 2012, 11, 166.	2.3	26
32	Glycosaminoglycan mimicry by COAM reduces melanoma growth through chemokine induction and function. International Journal of Cancer, 2012, 131, E425-36.	5.1	8
33	Deficiency of gelatinase B/MMP-9 aggravates lpr-induced lymphoproliferation and lupus-like systemic autoimmune disease. Journal of Autoimmunity, 2011, 36, 239-252.	6.5	46
34	Insufficiently Defined Genetic Background Confounds Phenotypes in Transgenic Studies As Exemplified by Malaria Infection in Tlr9 Knockout Mice. PLoS ONE, 2011, 6, e27131.	2.5	16
35	Gelatin degradation assay reveals MMP-9 inhibitors and function of O-glycosylated domain. World Journal of Biological Chemistry, 2011, 2, 14.	4.3	56
36	Myeloid cells are tunable by a polyanionic polysaccharide derivative and co-determine host rescue from lethal virus infection. Journal of Leukocyte Biology, 2010, 88, 1017-1029.	3.3	10

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37	Reverse degradomics, monitoring of proteolytic trimming by multi-CE and confocal detection of fluorescent substrates and reaction products. Electrophoresis, 2009, 30, 2366-2377.	2.4	13
38	Multidimensional degradomics identifies systemic autoantigens and intracellular matrix proteins as novel gelatinase B/MMP-9 substrates. Integrative Biology (United Kingdom), 2009, 1, 404.	1.3	95
39	CXCR3 determines strain susceptibility to murine cerebral malaria by mediating T γ lymphocyte migration toward IFN γ -induced chemokines. European Journal of Immunology, 2008, 38, 1082-1095.	2.9	97
40	Adenylyl cyclase-associated protein-1/CAP1 as a biological target substrate of gelatinase B/MMP-9. Experimental Cell Research, 2008, 314, 2739-2749.	2.6	19
41	Virus entry inhibition by chlorite-oxidized oxyamylose versus induction of antiviral interferon by poly(I:C). Biochemical Pharmacology, 2008, 76, 831-840.	4.4	10
42	Interphotoreceptor retinoid-binding protein as biomarker in systemic autoimmunity with eye inflections. Journal of Cellular and Molecular Medicine, 2008, 12, 2449-2456.	3.6	13
43	\hat{I}^2 -Hematin Interaction with the Hemopexin Domain of Gelatinase B/MMP-9 Provokes Autocatalytic Processing of the Propeptide, Thereby Priming Activation by MMP-3. Biochemistry, 2008, 47, 2689-2699.	2.5	54
44	A monoclonal antibody inhibits gelatinase B/MMP-9 by selective binding to part of the catalytic domain and not to the fibronectin or zinc binding domains. Biochimica Et Biophysica Acta - General Subjects, 2007, 1770, 178-186.	2.4	81
45	The activated form of gelatinase B/matrix metalloproteinase-9 is associated with diabetic vitreous hemorrhage. Experimental Eye Research, 2006, 83, 401-407.	2.6	46
46	Remnant epitopes, autoimmunity and glycosylation. Biochimica Et Biophysica Acta - General Subjects, 2006, 1760, 610-615.	2.4	38
47	Multi-chaperone complexes regulate the folding of interferon- \hat{I}^3 in the endoplasmic reticulum. Cytokine, 2006, 33, 264-273.	3.2	25
48	Gelatinase B/matrix metalloproteinase-9 provokes cataract by cleaving lens \hat{I}^2 B1 crystallin. FASEB Journal, 2005, 19, 29-35.	0.5	30
49	Cross-linking approach to affinity capture of protein complexes from chaotrope-solubilized cell lysates. Analytical Biochemistry, 2004, 324, 137-142.	2.4	18
50	<i>In vivo</i> activation of gelatinase B/MMP-9 by trypsin in acute pancreatitis is a permissive factor in streptozotocin-induced diabetes. Journal of Pathology, 2004, 204, 555-561.	4.5	35
51	Gelatinase B/matrix metalloproteinase-9 cleaves interferon- \hat{I}^2 and is a target for immunotherapy. Brain, 2003, 126, 1371-1381.	7.6	93
52	Gelatinase B is diabetogenic in acute and chronic pancreatitis by cleaving insulin. FASEB Journal, 2003, 17, 1-13.	0.5	61
53	Analysis of Gelatinases in Complex Biological Fluids and Tissue Extracts. Laboratory Investigation, 2002, 82, 1607-1608.	3.7	54
54	Protein disulfide isomerase-mediated cell-free assembly of recombinant interleukin-12 p40 homodimers. FEBS Journal, 2000, 267, 6679-6683.	0.2	15

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55	GroEL/ES chaperonins protect interferon-gamma against physicochemical stress. Study of tertiary structure formation by alpha-casein quenching and ELISA. FEBS Journal, 1998, 251, 181-188.	0.2	9
56	Oligosaccharides of recombinant mouse gelatinase B variants. Biochimica Et Biophysica Acta - General Subjects, 1998, 1425, 587-598.	2.4	24
57	STRUCTURAL IMMUNO-ANALYSIS OF HUMAN AND PORCINE INTERFERON GAMMA: IDENTIFICATION OF SHARED ANTIGENIC DOMAIN. Cytokine, 1997, 9, 550-555.	3.2	11
58	Opposing effects of cyclosporin a and anti-interferon- \hat{I}^3 antibodies on immune tolerance mechanisms. Transplantation Proceedings, 1997, 29, 1156-1157.	0.6	0
59	The gelatinase inhibitory activity of tetracyclines and chemically modified tetracycline analogues as measured by a novel microtiter assay for inhibitors. Biochemical Pharmacology, 1996, 52, 105-111.	4.4	109
60	Chronic relapsing experimental autoimmune encephalomyelitis (CREAE) in mice: enhancement by monoclonal antibodies against interferon- \hat{I}^3 . European Journal of Immunology, 1996, 26, 2393-2398.	2.9	126
61	Monoclonal Antibodies Specific for Natural Human Neutrophil Gelatinase B Used for Affinity Purification, Quantitation by Two-Site ELISA and Inhibition of Enzymatic Activity. FEBS Journal, 1995, 234, 759-765.	0.2	90
62	Effect of VH and VL consensus sequence-specific primers on the binding and neutralizing potential of a single-chain FV directed towards H \hat{I}^3 FN- \hat{I}^3 . Molecular Immunology, 1995, 32, 515-521.	2.2	8
63	Increased circulating interleukin-6 (IL-6) activity in endotoxin-challenged mice pretreated with anti-IL-6 antibody is due to IL-6 accumulated in antigen-antibody complexes. European Journal of Immunology, 1993, 23, 2026-2029.	2.9	42
64	Refolding and single-step purification of porcine interferon-gamma from Escherichia coli inclusion bodies. Conditions for reconstitution of dimeric IFN-gamma. FEBS Journal, 1993, 215, 481-486.	0.2	30
65	Gene sequence, cDNA construction, expression in Escherichia coli and genetically approached purification of porcine interleukin-1beta. FEBS Journal, 1993, 217, 45-52.	0.2	17
66	Murine interferon- \hat{I}^3 /interleukin-1 fusion proteins used as antigens for the generation of hybridomas producing monoclonal anti-interleukin-1 antibodies. Cytokine, 1991, 3, 134-140.	3.2	12