

# Erik Martens

## List of Publications by Year in descending order

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66  
papers

2,191  
citations

257101

24  
h-index

243296

44  
g-index

69  
all docs

69  
docs citations

69  
times ranked

3160  
citing authors

#	ARTICLE	IF	CITATIONS
1	Zymography methods for visualizing hydrolytic enzymes. <i>Nature Methods</i> , 2013, 10, 211-220.	9.0	271
2	Chronic relapsing experimental autoimmune encephalomyelitis (CREAE) in mice: enhancement by monoclonal antibodies against interferon- $\beta$ . <i>European Journal of Immunology</i> , 1996, 26, 2393-2398.	1.6	126
3	The gelatinase inhibitory activity of tetracyclines and chemically modified tetracycline analogues as measured by a novel microtiter assay for inhibitors. <i>Biochemical Pharmacology</i> , 1996, 52, 105-111.	2.0	109
4	CXCR3 determines strain susceptibility to murine cerebral malaria by mediating $\alpha$ , lymphocyte migration toward IFN $\alpha$ -induced chemokines. <i>European Journal of Immunology</i> , 2008, 38, 1082-1095.	1.6	97
5	Multidimensional degradomics identifies systemic autoantigens and intracellular matrix proteins as novel gelatinase B/MMP-9 substrates. <i>Integrative Biology (United Kingdom)</i> , 2009, 1, 404.	0.6	95
6	Gelatinase B/matrix metalloproteinase-9 cleaves interferon $\gamma$ and is a target for immunotherapy. <i>Brain</i> , 2003, 126, 1371-1381.	3.7	93
7	Monoclonal Antibodies Specific for Natural Human Neutrophil Gelatinase B Used for Affinity Purification, Quantitation by Two-Site ELISA and Inhibition of Enzymatic Activity. <i>FEBS Journal</i> , 1995, 234, 759-765.	0.2	90
8	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. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 178-186.	1.1	81
9	Gelatinase B is diabetogenic in acute and chronic pancreatitis by cleaving insulin. <i>FASEB Journal</i> , 2003, 17, 1-13.	0.2	61
10	Gelatin degradation assay reveals MMP-9 inhibitors and function of O-glycosylated domain. <i>World Journal of Biological Chemistry</i> , 2011, 2, 14.	1.7	56
11	Analysis of Gelatinases in Complex Biological Fluids and Tissue Extracts. <i>Laboratory Investigation</i> , 2002, 82, 1607-1608.	1.7	54
12	$\gamma$ -Hematin Interaction with the Hemopexin Domain of Gelatinase B/MMP-9 Provokes Autocatalytic Processing of the Propeptide, Thereby Priming Activation by MMP-3. <i>Biochemistry</i> , 2008, 47, 2689-2699.	1.2	54
13	The activated form of gelatinase B/matrix metalloproteinase-9 is associated with diabetic vitreous hemorrhage. <i>Experimental Eye Research</i> , 2006, 83, 401-407.	1.2	46
14	Deficiency of gelatinase B/MMP-9 aggravates lpr-induced lymphoproliferation and lupus-like systemic autoimmune disease. <i>Journal of Autoimmunity</i> , 2011, 36, 239-252.	3.0	46
15	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. <i>European Journal of Immunology</i> , 1993, 23, 2026-2029.	1.6	42
16	Circular trimers of gelatinase B/matrix metalloproteinase-9 constitute a distinct population of functional enzyme molecules differentially regulated by tissue inhibitor of metalloproteinases-1. <i>Biochemical Journal</i> , 2015, 465, 259-270.	1.7	39
17	Remnant epitopes, autoimmunity and glycosylation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 610-615.	1.1	38
18	Kinetics of peripheral blood neutrophils in severe coronavirus disease 2019. <i>Clinical and Translational Immunology</i> , 2021, 10, e1271.	1.7	36

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19	In vivo activation of gelatinase B/MMP-9 by trypsin in acute pancreatitis is a permissive factor in streptozotocin-induced diabetes. <i>Journal of Pathology</i> , 2004, 204, 555-561.	2.1	35
20	Differential inhibition of activity, activation and gene expression of MMP-9 in THP-1 cells by azithromycin and minocycline versus bortezomib: A comparative study. <i>PLoS ONE</i> , 2017, 12, e0174853.	1.1	35
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. <i>Journal of Crohn's and Colitis</i> , 2016, 10, 1336-1350.	0.6	34
22	Refolding and single-step purification of porcine interferon-gamma from Escherichia coli inclusion bodies. Conditions for reconstitution of dimeric IFN-gamma. <i>FEBS Journal</i> , 1993, 215, 481-486.	0.2	30
23	Gelatinase B/matrix metalloproteinase-9 provokes cataract by cleaving lens $\beta$ B1 crystallin. <i>FASEB Journal</i> , 2005, 19, 29-35.	0.2	30
24	Improved methods for haemozoin quantification in tissues yield organ-and parasite-specific information in malaria-infected mice. <i>Malaria Journal</i> , 2012, 11, 166.	0.8	26
25	Multi-chaperone complexes regulate the folding of interferon- $\beta$ in the endoplasmic reticulum. <i>Cytokine</i> , 2006, 33, 264-273.	1.4	25
26	Oligosaccharides of recombinant mouse gelatinase B variants. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1998, 1425, 587-598.	1.1	24
27	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.	1.6	23
28	Meprens process matrix metalloproteinase-9 (MMP-9)/gelatinase B and enhance the activation kinetics by MMP-9. <i>FEBS Letters</i> , 2012, 586, 4264-4269.	1.3	22
29	Citrullination and Proteolytic Processing of Chemokines by Porphyromonas gingivalis. <i>Infection and Immunity</i> , 2014, 82, 2511-2519.	1.0	22
30	Citrullination as a novel posttranslational modification of matrix metalloproteinases. <i>Matrix Biology</i> , 2021, 95, 68-83.	1.5	21
31	Adenylyl cyclase-associated protein-1/CAP1 as a biological target substrate of gelatinase B/MMP-9. <i>Experimental Cell Research</i> , 2008, 314, 2739-2749.	1.2	19
32	Functional links between gelatinase B/matrix metalloproteinase-9 and prominin-1/CD133 in diabetic retinal vasculopathy and neuropathy. <i>Progress in Retinal and Eye Research</i> , 2014, 43, 76-91.	7.3	19
33	Side-by-side secretion of Late Palaeozoic diverged courtship pheromones in an aquatic salamander. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142960.	1.2	19
34	MMP-9/Gelatinase B Degrades Immune Complexes in Systemic Lupus Erythematosus. <i>Frontiers in Immunology</i> , 2019, 10, 538.	2.2	19
35	The Biological Potential Hidden in Inclusion Bodies. <i>Pharmaceutics</i> , 2020, 12, 157.	2.0	19
36	Cross-linking approach to affinity capture of protein complexes from chaotrope-solubilized cell lysates. <i>Analytical Biochemistry</i> , 2004, 324, 137-142.	1.1	18

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37	Rescue from acute neuroinflammation by pharmacological chemokine-mediated deviation of leukocytes. <i>Journal of Neuroinflammation</i> , 2012, 9, 243.	3.1	18
38	Gene sequence, cDNA construction, expression in <i>Escherichia coli</i> and genetically approached purification of porcine interleukin-1beta. <i>FEBS Journal</i> , 1993, 217, 45-52.	0.2	17
39	Gelatinase B/Matrix Metalloproteinase-9 as Innate Immune Effector Molecule in Achalasia. <i>Clinical and Translational Gastroenterology</i> , 2018, 9, e208.	1.3	16
40	Insufficiently Defined Genetic Background Confounds Phenotypes in Transgenic Studies As Exemplified by Malaria Infection in Tlr9 Knockout Mice. <i>PLoS ONE</i> , 2011, 6, e27131.	1.1	16
41	Protein disulfide isomerase-mediated cell-free assembly of recombinant interleukin-12 p40 homodimers. <i>FEBS Journal</i> , 2000, 267, 6679-6683.	0.2	15
42	Interference with Glycosaminoglycan-Chemokine Interactions with a Probe to Alter Leukocyte Recruitment and Inflammation In Vivo. <i>PLoS ONE</i> , 2014, 9, e104107.	1.1	15
43	Interphotoreceptor retinoid-binding protein as biomarker in systemic autoimmunity with eye inflections. <i>Journal of Cellular and Molecular Medicine</i> , 2008, 12, 2449-2456.	1.6	13
44	Reverse degradation, monitoring of proteolytic trimming by multi-angle and confocal detection of fluorescent substrates and reaction products. <i>Electrophoresis</i> , 2009, 30, 2366-2377.	1.3	13
45	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.	1.7	13
46	Murine interferon- $\gamma$ /interleukin-1 fusion proteins used as antigens for the generation of hybridomas producing monoclonal anti-interleukin-1 antibodies. <i>Cytokine</i> , 1991, 3, 134-140.	1.4	12
47	STRUCTURAL IMMUNO-ANALYSIS OF HUMAN AND PORCINE INTERFERON GAMMA: IDENTIFICATION OF SHARED ANTIGENIC DOMAIN. <i>Cytokine</i> , 1997, 9, 550-555.	1.4	11
48	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.	1.1	11
49	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.	1.8	11
50	Virus entry inhibition by chlorite-oxidized oxyamylose versus induction of antiviral interferon by poly(I:C). <i>Biochemical Pharmacology</i> , 2008, 76, 831-840.	2.0	10
51	Myeloid cells are tunable by a polyanionic polysaccharide derivative and co-determine host rescue from lethal virus infection. <i>Journal of Leukocyte Biology</i> , 2010, 88, 1017-1029.	1.5	10
52	GroEL/ES chaperonins protect interferon-gamma against physicochemical stress. Study of tertiary structure formation by alpha-casein quenching and ELISA. <i>FEBS Journal</i> , 1998, 251, 181-188.	0.2	9
53	Recombinant Protein-Based Nanoparticles: Elucidating Their Inflammatory Effects In Vivo and Their Potential as a New Therapeutic Format. <i>Pharmaceutics</i> , 2020, 12, 450.	2.0	9
54	Effect of VH and VL consensus sequence-specific primers on the binding and neutralizing potential of a single-chain FV directed towards H1FN- $\gamma$ . <i>Molecular Immunology</i> , 1995, 32, 515-521.	1.0	8

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55	Glycosaminoglycan mimicry by COAM reduces melanoma growth through chemokine induction and function. <i>International Journal of Cancer</i> , 2012, 131, E425-36.	2.3	8
56	From ELISA to Immunosorbent Tandem Mass Spectrometry Proteoform Analysis: The Example of CXCL8/Interleukin-8. <i>Frontiers in Immunology</i> , 2021, 12, 644725.	2.2	8
57	EDTA/gelatin zymography method to identify C1s versus activated MMPs in plasma and immune complexes of patients with systemic lupus erythematosus. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 576-585.	1.6	7
58	Propeptide glycosylation and galectin-3 binding decrease proteolytic activation of human pro-MMP-9/progelatinase B. <i>FEBS Journal</i> , 2019, 286, 930-945.	2.2	7
59	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.	0.6	7
60	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.	2.2	7
61	Differential Diagnosis of Autoimmune Pancreatitis From Pancreatic Cancer by Analysis of Serum Gelatinase Levels. <i>Pancreas</i> , 2016, 45, 1048-1055.	0.5	6
62	Thymocyte development in the absence of matrix metalloproteinase-9/gelatinase B. <i>Scientific Reports</i> , 2016, 6, 29852.	1.6	3
63	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.	1.4	2
64	Opposing effects of cyclosporin a and anti-interferon- $\beta$ antibodies on immune tolerance mechanisms. <i>Transplantation Proceedings</i> , 1997, 29, 1156-1157.	0.3	0
65	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.	0.6	0
66	04.04...Suramin protects against osteoarthritis by increasing tissue inhibitor of matrix metalloproteinase-3 and glycosaminoglycans in the articular cartilage. , 2017, , .		0