

Jennifer Vandooren

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,429
citations

279798

23
h-index

206112

48
g-index

51
all docs

51
docs citations

51
times ranked

4206
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochemistry and molecular biology of gelatinase B or matrix metalloproteinase-9 (MMP-9): The next decade. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2013, 48, 222-272.	5.2	622
2	VEGF-A recruits a proangiogenic MMP-9 ⁺ delivering neutrophil subset that induces angiogenesis in transplanted hypoxic tissue. <i>Blood</i> , 2012, 120, 4653-4662.	1.4	275
3	Zymography methods for visualizing hydrolytic enzymes. <i>Nature Methods</i> , 2013, 10, 211-220.	19.0	271
4	Proteases in cancer drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2016, 97, 144-155.	13.7	93
5	Alpha-2-Macroglobulin in Inflammation, Immunity and Infections. <i>Frontiers in Immunology</i> , 2021, 12, 803244.	4.8	86
6	The molecular biology of matrix metalloproteinases and tissue inhibitors of metalloproteinases in inflammatory bowel diseases. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2016, 51, 295-358.	5.2	62
7	Gelatin degradation assay reveals MMP-9 inhibitors and function of O-glycosylated domain. <i>World Journal of Biological Chemistry</i> , 2011, 2, 14.	4.3	56
8	On the Structure and functions of gelatinase B/Matrix metalloproteinase-9 in neuroinflammation. <i>Progress in Brain Research</i> , 2014, 214, 193-206.	1.4	54
9	The <i>Sputum Colour Chart</i> as a predictor of lung inflammation, proteolysis and damage in non ⁺ cystic fibrosis bronchiectasis: A case ⁺ control analysis. <i>Respirology</i> , 2014, 19, 203-210.	2.3	49
10	Glycosylation of matrix metalloproteases and tissue inhibitors: present state, challenges and opportunities. <i>Biochemical Journal</i> , 2016, 473, 1471-1482.	3.7	49
11	Systemic Ablation of MMP-9 Triggers Invasive Growth and Metastasis of Pancreatic Cancer via Deregulation of IL6 Expression in the Bone Marrow. <i>Molecular Cancer Research</i> , 2016, 14, 1147-1158.	3.4	44
12	Intradermal air pouch leukocytosis as an in vivo test for nanoparticles. <i>International Journal of Nanomedicine</i> , 2013, 8, 4745.	6.7	42
13	Matrix metalloproteinase-9 (MMP-9) as an activator of nanosystems for targeted drug delivery in pancreatic cancer. <i>Journal of Controlled Release</i> , 2016, 239, 39-48.	9.9	42
14	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.	3.7	39
15	Atypical response to bacterial coinfection and persistent neutrophilic bronchoalveolar inflammation distinguish critical COVID-19 from influenza. <i>JCI Insight</i> , 2022, 7, .	5.0	38
16	Protease propeptide structures, mechanisms of activation, and functions. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2020, 55, 111-165.	5.2	37
17	Infliximab Restores the Dysfunctional Matrix Remodeling Protein and Growth Factor Gene Expression in Patients with Inflammatory Bowel Disease. <i>Inflammatory Bowel Diseases</i> , 2014, 20, 339-352.	1.9	36
18	Humoral immunity in phenotypes of chronic lung allograft dysfunction: A broncho-alveolar lavage fluid analysis. <i>Transplant Immunology</i> , 2016, 38, 27-32.	1.2	36

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19	Kinetics of peripheral blood neutrophils in severe coronavirus disease 2019. <i>Clinical and Translational Immunology</i> , 2021, 10, e1271.	3.8	36
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.	2.5	35
21	Azithromycin decreases MMP-9 expression in the airways of lung transplant recipients. <i>Transplant Immunology</i> , 2011, 25, 159-162.	1.2	31
22	Oncostatin M-induced astrocytic tissue inhibitor of metalloproteinases-1 drives remyelination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5028-5038.	7.1	29
23	Heterogeneity of serum gelatinases <scp>MMP</scp>â€² and <scp>MMP</scp>â€³ isoforms and charge variants. <i>Journal of Cellular and Molecular Medicine</i> , 2014, 18, 242-252.	3.6	28
24	Natural Marine and Terrestrial Compounds as Modulators of Matrix Metalloproteinases-2 (MMP-2) and MMP-9 in Alzheimerâ€™s Disease. <i>Pharmaceuticals</i> , 2021, 14, 86.	3.8	26
25	Homotrimeric MMP-9 is an active hitchhiker on alpha-2-macroglobulin partially escaping protease inhibition and internalization through LRP-1. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 3013-3026.	5.4	24
26	Inhibition of MMP-9-dependent Degradation of Gelatin, but Not Other MMP-9 Substrates, by the MMP-9 Hemopexin Domain Blades 1 and 4. <i>Journal of Biological Chemistry</i> , 2016, 291, 11751-11760.	3.4	22
27	Neutrophils and Activated Macrophages Control Mucosal Immunity by Proteolytic Cleavage of Antileukoproteinase. <i>Frontiers in Immunology</i> , 2018, 9, 1154.	4.8	21
28	Citrullination as a novel posttranslational modification of matrix metalloproteinases. <i>Matrix Biology</i> , 2021, 95, 68-83.	3.6	21
29	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.	15.5	19
30	MMP-9/Gelatinase B Degrades Immune Complexes in Systemic Lupus Erythematosus. <i>Frontiers in Immunology</i> , 2019, 10, 538.	4.8	19
31	Physico-chemical and toxicological characterization of iron-containing albumin nanoparticles as platforms for medical imaging. <i>Journal of Controlled Release</i> , 2014, 194, 130-137.	9.9	18
32	Zincâ€“Calciumâ€“Fluoride Bioglass-Based Innovative Multifunctional Dental Adhesive with Thick Adhesive Resin Film Thickness. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30120-30135.	8.0	18
33	Synthesis and functionalization of protease-activated nanoparticles with tissue plasminogen activator peptides as targeting moiety and diagnostic tool for pancreatic cancer. <i>Journal of Nanobiotechnology</i> , 2016, 14, 81.	9.1	17
34	Gelatinase B/Matrix Metalloproteinase-9 as Innate Immune Effector Molecule in Achalasia. <i>Clinical and Translational Gastroenterology</i> , 2018, 9, e208.	2.5	16
35	Matrix Metalloproteinase-9-Generated COOH-, but Not NH2-Terminal Fragments of Serum Amyloid A1 Retain Potentiating Activity in Neutrophil Migration to CXCL8, With Loss of Direct Chemotactic and Cytokine-Inducing Capacity. <i>Frontiers in Immunology</i> , 2018, 9, 1081.	4.8	15
36	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

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37	Suramin increases cartilage proteoglycan accumulation in vitro and protects against joint damage triggered by papain injection in mouse knees in vivo. <i>RMD Open</i> , 2017, 3, e000604.	3.8	11
38	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
39	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
40	Gelatinase B/matrix metalloproteinase-9 and other neutrophil proteases switch off interleukin-2 activity. <i>Biochemical Journal</i> , 2019, 476, 2191-2208.	3.7	8
41	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
42	HIV protease inhibitors Nelfinavir and Lopinavir/Ritonavir markedly improve lung pathology in SARS-CoV-2-infected Syrian hamsters despite lack of an antiviral effect. <i>Antiviral Research</i> , 2022, 202, 105311.	4.1	8
43	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
44	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
45	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
46	Differential Diagnosis of Autoimmune Pancreatitis From Pancreatic Cancer by Analysis of Serum Gelatinase Levels. <i>Pancreas</i> , 2016, 45, 1048-1055.	1.1	6
47	Internal Disulfide Bonding and Glycosylation of Interleukin-7 Protect Against Proteolytic Inactivation by Neutrophil Metalloproteinases and Serine Proteases. <i>Frontiers in Immunology</i> , 2021, 12, 701739.	4.8	4
48	04.04...Suramin protects against osteoarthritis by increasing tissue inhibitor of matrix metalloproteinase-3 and glycosaminoglycans in the articular cartilage. , 2017, , .		0
49	Author's reply: To PMID 24379662. <i>International Journal of Nanomedicine</i> , 2014, 9, 1108-9.	6.7	0