

Didier D Cataldo

List of Publications by Year in descending order

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96
papers

6,200
citations

61857

43
h-index

74018

75
g-index

96
all docs

96
docs citations

96
times ranked

9671
citing authors

#	ARTICLE	IF	CITATIONS
1	EMT and inflammation: inseparable actors of cancer progression. <i>Molecular Oncology</i> , 2017, 11, 805-823.	2.1	426
2	Lung interstitial macrophages alter dendritic cell functions to prevent airway allergy in mice. <i>Journal of Clinical Investigation</i> , 2009, 119, 3723-3738.	3.9	332
3	Neutrophil extracellular traps infiltrate the lung airway, interstitial, and vascular compartments in severe COVID-19. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	274
4	Matrix metalloproteinases (MMPs) and tissue inhibitors of MMPs in the respiratory tract: Potential implications in asthma and other lung diseases. <i>European Journal of Pharmacology</i> , 2006, 533, 133-144.	1.7	254
5	Emerging roles of ADAM and ADAMTS metalloproteinases in cancer. <i>Biochimie</i> , 2008, 90, 369-379.	1.3	234
6	Elevated MMP-12 protein levels in induced sputum from patients with COPD. <i>Thorax</i> , 2006, 61, 196-201.	2.7	193
7	Exposure to Bacterial CpG DNA Protects from Airway Allergic Inflammation by Expanding Regulatory Lung Interstitial Macrophages. <i>Immunity</i> , 2017, 46, 457-473.	6.6	171
8	Mouse models of asthma: a comparison between C57BL/6 and BALB/c strains regarding bronchial responsiveness, inflammation, and cytokine production. <i>Inflammation Research</i> , 2009, 58, 845-854.	1.6	161
9	Matrix Metalloproteinase-9 Deficiency Impairs Cellular Infiltration and Bronchial Hyperresponsiveness during Allergen-Induced Airway Inflammation. <i>American Journal of Pathology</i> , 2002, 161, 491-498.	1.9	160
10	Evaluation of Pleural Disease With 18-Fluorodeoxyglucose Positron Emission Tomography Imaging. <i>Chest</i> , 2004, 125, 489-493.	0.4	154
11	Matrix Metalloproteinase-9-Mediated Dendritic Cell Recruitment into the Airways Is a Critical Step in a Mouse Model of Asthma. <i>Journal of Immunology</i> , 2003, 171, 1016-1022.	0.4	148
12	Selective Blockade of NF- κ B Activity in Airway Immune Cells Inhibits the Effector Phase of Experimental Asthma. <i>Journal of Immunology</i> , 2004, 173, 5766-5775.	0.4	139
13	Matrix Metalloproteinase-8 Deficiency Promotes Granulocytic Allergen-Induced Airway Inflammation. <i>Journal of Immunology</i> , 2005, 175, 2589-2597.	0.4	132
14	MicroRNAs Profiling in Murine Models of Acute and Chronic Asthma: A Relationship with mRNAs Targets. <i>PLoS ONE</i> , 2011, 6, e16509.	1.1	128
15	Locally instructed CXCR4hi neutrophils trigger environment-driven allergic asthma through the release of neutrophil extracellular traps. <i>Nature Immunology</i> , 2019, 20, 1444-1455.	7.0	106
16	Matrix Metalloproteinase-9, but not Tissue Inhibitor of Matrix Metalloproteinase-1, Increases in the Sputum from Allergic Asthmatic Patients After Allergen Challenge. <i>Chest</i> , 2002, 122, 1553-1559.	0.4	102
17	Stromal integrin α 11 regulates PDGFR β signaling and promotes breast cancer progression. <i>Journal of Clinical Investigation</i> , 2019, 129, 4609-4628.	3.9	102
18	New asthma biomarkers: lessons from murine models of acute and chronic asthma. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009, 296, L185-L197.	1.3	95

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19	Matrix Metalloproteinase-12 and Cathepsin D Expression in Pulmonary Macrophages and Dendritic Cells of Cigarette Smoke-Exposed Mice. <i>International Archives of Allergy and Immunology</i> , 2005, 138, 169-179.	0.9	88
20	Matrix metalloproteinase-2 governs lymphatic vessel formation as an interstitial collagenase. <i>Blood</i> , 2012, 119, 5048-5056.	0.6	86
21	Increased IL-6 and TGF- β 1 concentrations in bronchoalveolar lavage fluid associated with thoracic radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 58, 758-767.	0.4	84
22	Expression of a disintegrin and metalloprotease (ADAM and ADAMTS) enzymes in human non-small-cell lung carcinomas (NSCLC). <i>British Journal of Cancer</i> , 2006, 94, 724-730.	2.9	82
23	Sputum eosinophil count in a large population of patients with mild to moderate steroid-naive asthma: distribution and relationship with methacholine bronchial hyperresponsiveness. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2002, 57, 907-912.	2.7	78
24	Mouse models to unravel the role of inhaled pollutants on allergic sensitization and airway inflammation. <i>Respiratory Research</i> , 2010, 11, 7.	1.4	77
25	ADAMTS3 activity is mandatory for embryonic lymphangiogenesis and regulates placental angiogenesis. <i>Angiogenesis</i> , 2016, 19, 53-65.	3.7	77
26	Sirtuin 1 Promotes Th2 Responses and Airway Allergy by Repressing Peroxisome Proliferator-Activated Receptor- β Activity in Dendritic Cells. <i>Journal of Immunology</i> , 2011, 187, 4517-4529.	0.4	74
27	PEGylation of antibody fragments greatly increases their local residence time following delivery to the respiratory tract. <i>Journal of Controlled Release</i> , 2014, 187, 91-100.	4.8	72
28	Proinflammatory Cytokines Induce Bronchial Hyperplasia and Squamous Metaplasia in Smokers. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2012, 47, 67-79.	1.4	71
29	Cyclodextrins as a potential carrier in drug nebulization. <i>Journal of Controlled Release</i> , 2004, 96, 403-410.	4.8	70
30	Curcumin-cyclodextrin complexes potentiate gemcitabine effects in an orthotopic mouse model of lung cancer. <i>British Journal of Cancer</i> , 2012, 107, 1083-1092.	2.9	70
31	Matrix metalloproteinases and tissue inhibitors of matrix metalloproteinases mRNA transcripts in the bronchial secretions of asthmatics. <i>Laboratory Investigation</i> , 2004, 84, 418-424.	1.7	66
32	Plasma membrane-dependent activation of gelatinase A in human vascular endothelial cells. <i>Journal of Cellular Physiology</i> , 1995, 165, 475-483.	2.0	65
33	Earlier Onset of Tumoral Angiogenesis in Matrix Metalloproteinase-19-Deficient Mice. <i>Cancer Research</i> , 2006, 66, 5234-5241.	0.4	65
34	ADAMTS-1 Metalloproteinase Promotes Tumor Development through the Induction of a Stromal Reaction <i>in vivo</i> . <i>Cancer Research</i> , 2008, 68, 9541-9550.	0.4	65
35	Comparison of Acute Inflammatory and Chronic Structural Asthma-Like Responses between C57BL/6 and BALB/c Mice. <i>International Archives of Allergy and Immunology</i> , 2009, 149, 195-207.	0.9	65
36	Repeated cadmium nebulizations induce pulmonary MMP-2 and MMP-9 production and emphysema in rats. <i>Toxicology</i> , 2005, 211, 36-48.	2.0	60

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37	Matrix metalloproteinases and TIMP-1 production by peripheral blood granulocytes from COPD patients and asthmatics. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2001, 56, 145-151.	2.7	57
38	A novel formulation of inhaled doxycycline reduces allergen-induced inflammation, hyperresponsiveness and remodeling by matrix metalloproteinases and cytokines modulation in a mouse model of asthma. <i>Biochemical Pharmacology</i> , 2008, 75, 514-526.	2.0	57
39	Resident CD11b+Ly6C ^{hi} Lung Dendritic Cells Are Responsible for Allergic Airway Sensitization to House Dust Mite in Mice. <i>PLoS ONE</i> , 2012, 7, e53242.	1.1	55
40	Sunitinib Inhibits Inflammatory Corneal Lymphangiogenesis. , 2013, 54, 3082.		55
41	Stimulated release and functional activity of surface expressed metalloproteinase ADAM17 in exosomes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2795-2808.	1.9	53
42	Protean proteases: at the cutting edge of lung diseases. <i>European Respiratory Journal</i> , 2017, 49, 1501200.	3.1	49
43	Nebulized Anti-IL-13 Monoclonal Antibody Fab Fragment Reduces Allergen-Induced Asthma. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2012, 47, 709-717.	1.4	48
44	Expression of ADAMs and Their Inhibitors in Sputum from Patients with Asthma. <i>Molecular Medicine</i> , 2006, 12, 171-179.	1.9	47
45	Interferon response factor 3 is essential for house dust mite-induced airway allergy. <i>Journal of Allergy and Clinical Immunology</i> , 2010, 126, 836-844.e13.	1.5	45
46	Evidence of mast-cell activation in a subset of patients with eosinophilic chronic obstructive pulmonary disease. <i>European Respiratory Journal</i> , 2002, 20, 325-331.	3.1	44
47	Role of ADAM and ADAMTS metalloproteinases in airway diseases. <i>Respiratory Research</i> , 2009, 10, 127.	1.4	43
48	Oxidative stress-mediated iNKT-cell activation is involved in COPD pathogenesis. <i>Mucosal Immunology</i> , 2014, 7, 568-578.	2.7	42
49	Matrix metalloproteinase 12 silencing: A therapeutic approach to treat pathological lung tissue remodeling?. <i>Pulmonary Pharmacology and Therapeutics</i> , 2009, 22, 267-278.	1.1	41
50	Interest of cyclodextrins in spray-dried microparticles formulation for sustained pulmonary delivery of budesonide. <i>International Journal of Pharmaceutics</i> , 2015, 495, 869-878.	2.6	41
51	Inflammatory signatures for eosinophilic vs. neutrophilic allergic pulmonary inflammation reveal critical regulatory checkpoints. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2011, 300, L679-L690.	1.3	39
52	Endothelial cell intracellular Ca ²⁺ concentration is increased upon breast tumor cell contact and mediates tumor cell transendothelial migration. <i>Clinical and Experimental Metastasis</i> , 1997, 16, 21-29.	1.7	36
53	Induced Sputum. <i>Chest</i> , 2001, 120, 1815-1821.	0.4	33
54	EGFR Activation and Signaling in Cancer Cells Are Enhanced by the Membrane-Bound Metalloprotease MT4-MMP. <i>Cancer Research</i> , 2014, 74, 6758-6770.	0.4	33

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55	A Belgian survey on the diagnosis of asthma–COPD overlap syndrome. International Journal of COPD, 2017, Volume 12, 601-613.	0.9	32
56	¹⁸ F-FPRGD2 PET/CT Imaging of Integrin α _v β ₃ in Renal Carcinomas: Correlation with Histopathology. Journal of Nuclear Medicine, 2015, 56, 361-364.	2.8	31
57	Biomarker discovery in asthmaérelated inflammation and remodeling. Proteomics, 2009, 9, 2163-2170.	1.3	30
58	Bone Marrow-Derived Mesenchymal Stem Cells Drive Lymphangiogenesis. PLoS ONE, 2014, 9, e106976.	1.1	30
59	Overuse of inhaled corticosteroids in COPD: five questions for withdrawal in daily practice. International Journal of COPD, 2018, Volume 13, 2089-2099.	0.9	30
60	Severe asthma: oral corticosteroid alternatives and the need for optimal referral pathways. Journal of Asthma, 2021, 58, 448-458.	0.9	30
61	The metalloproteinase ADAMé12 regulates bronchial epithelial cell proliferation and apoptosis. Cell Proliferation, 2008, 41, 988-1001.	2.4	29
62	Matrix Metalloproteinase-19 Deficiency Promotes Tenascin-C Accumulation and Allergen-Induced Airway Inflammation. American Journal of Respiratory Cell and Molecular Biology, 2010, 43, 286-295.	1.4	29
63	ADAMé8, a metalloproteinase, drives acute allergenéinduced airway inflammation. European Journal of Immunology, 2011, 41, 380-391.	1.6	29
64	Neutrophil-Derived Interleukin 16 in Premetastatic Lungs Promotes Breast Tumor Cell Seeding. Cancer Growth and Metastasis, 2017, 10, 117906441773851.	3.5	29
65	Evaluation of oral corticosteroids and phosphodiesterase-4 inhibitor on the acute inflammation induced by inhaled lipopolysaccharide in human. Pulmonary Pharmacology and Therapeutics, 2007, 20, 676-683.	1.1	27
66	Whole-body tumor imaging using PET and 2-18F-fluoro-L-tyrosine: preliminary evaluation and comparison with 18F-FDG. Journal of Nuclear Medicine, 2003, 44, 533-9.	2.8	27
67	Biological aspects of angiogenesis in multiple myeloma. International Journal of Hematology, 2011, 94, 505-518.	0.7	26
68	Myeloid hypoxia-inducible factor α prevents airway allergy in mice through macrophage-mediated immunoregulation. Mucosal Immunology, 2013, 6, 485-497.	2.7	24
69	Role of A Disintegrin And Metalloprotease-12 in Neutrophil Recruitment Induced by Airway Epithelium. American Journal of Respiratory Cell and Molecular Biology, 2009, 41, 449-458.	1.4	22
70	Control of Allergen-Induced Inflammation and Hyperresponsiveness by the Metalloproteinase ADAMTS-12. Journal of Immunology, 2012, 189, 4135-4143.	0.4	20
71	New developments in inhaler devices within pharmaceutical companies: A systematic review of the impact on clinical outcomes and patient preferences. Respiratory Medicine, 2015, 109, 1430-1438.	1.3	20
72	Ozone-primed neutrophils promote early steps of tumour cell metastasis to lungs by enhancing their NET production. Thorax, 2019, 74, 768-779.	2.7	20

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73	ADAM10 mediates malignant pleural mesothelioma invasiveness. <i>Oncogene</i> , 2019, 38, 3521-3534.	2.6	19
74	Heparin-binding domain, type 1 and type 2 repeats of thrombospondin mediate its interaction with human breast cancer cells. , 1996, 62, 431-442.		18
75	Airway mast-cell activation in asthmatics is associated with selective sputum eosinophilia. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 1999, 54, 1188-1193.	2.7	17
76	Mithramycin Exerts an Anti-Myeloma Effect and Displays Anti-Angiogenic Effects through Up-Regulation of Anti-Angiogenic Factors. <i>PLoS ONE</i> , 2013, 8, e62818.	1.1	17
77	Changes in membrane biophysical properties induced by the Budesonide/Hydroxypropyl- β -cyclodextrin complex. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 1930-1940.	1.4	17
78	Potential Therapeutic Target Discovery by 2D-DIGE Proteomic Analysis in Mouse Models of Asthma. <i>Journal of Proteome Research</i> , 2011, 10, 4291-4301.	1.8	16
79	[¹⁸ F]FPRGD2 PET/CT imaging of integrin α _v β ₃ levels in patients with locally advanced rectal carcinoma. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016, 43, 654-662.	3.3	16
80	Dusp3 deletion in mice promotes experimental lung tumour metastasis in a macrophage dependent manner. <i>PLoS ONE</i> , 2017, 12, e0185786.	1.1	14
81	Inflammation-Generated Extracellular Matrix Fragments Drive Lung Metastasis. <i>Cancer Growth and Metastasis</i> , 2017, 10, 117906441774553.	3.5	13
82	Asthma-related inflammation promotes lung metastasis of breast cancer cells through CCL11-CCR3 pathway. <i>Respiratory Research</i> , 2021, 22, 61.	1.4	13
83	Lymph/angiogenesis contributes to sex differences in lung cancer through oestrogen receptor alpha signalling. <i>Endocrine-Related Cancer</i> , 2019, 26, 201-216.	1.6	13
84	Mesenchymal Stem Cells Shed Amphiregulin at the Surface of Lung Carcinoma Cells in a Juxtacrine Manner. <i>Neoplasia</i> , 2015, 17, 552-563.	2.3	12
85	Relationship between peak expiratory flow and incidence of frailty, deaths and falls among nursing home residents: Results of the SENIOR cohort. <i>Archives of Gerontology and Geriatrics</i> , 2019, 85, 103913.	1.4	12
86	Automated method for the determination of a new matrix metalloproteinase inhibitor in ovine plasma and serum by coupling of restricted access material for on-line sample clean-up to liquid chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 817, 109-117.	1.2	11
87	ADAM28: Another ambivalent protease in cancer. <i>Cancer Letters</i> , 2020, 494, 18-26.	3.2	10
88	Maternal asthma is associated with persistent changes in allergic offspring antibody glycosylation. <i>Clinical and Experimental Allergy</i> , 2020, 50, 520-531.	1.4	9
89	Microenvironment-derived ADAM28 prevents cancer dissemination. <i>Oncotarget</i> , 2018, 9, 37185-37199.	0.8	8
90	How to Choose the Right Inhaler Using a Patient-Centric Approach?. <i>Advances in Therapy</i> , 2022, 39, 1149-1163.	1.3	8

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91	Local nebulization of 1 β ,25(OH) ₂ D ₃ attenuates LPS-induced acute lung inflammation. <i>Respiratory Research</i> , 2022, 23, 76.	1.4	8
92	Ly6C ^{hi} monocytes balance regulatory and cytotoxic CD4 T cell responses to control virus-induced immunopathology. <i>Science Immunology</i> , 2022, 7, .	5.6	7
93	The Budesonide-Hydroxypropyl- β -Cyclodextrin Complex Attenuates ROS Generation, IL-8 Release and Cell Death Induced by Oxidant and Inflammatory Stress. Study on A549 and A-THP-1 Cells. <i>Molecules</i> , 2020, 25, 4882.	1.7	5
94	Multiple pulmonary arteriovenous malformations. <i>Lancet</i> , The, 2002, 359, 1998.	6.3	4
95	Pathophysiology of a Fall in Arterial Oxygen Saturation During Sputum Induction. <i>Chest</i> , 2000, 117, 1818.	0.4	2
96	Preclinical evaluation of topically-administered PEGylated Fab [®] ™ lung toxicity. <i>International Journal of Pharmaceutics</i> : X, 2019, 1, 100019.	1.2	2