Susumu Sato

List of Publications by Year
in descending order

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102	1,514	331670	377865
papers	citations	21 h-index	34 g-index

105	105	105	2038
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantitative Assessment of Erector Spinae Muscles in Patients with Chronic Obstructive Pulmonary Disease. Novel Chest Computed Tomographyâ€“derived Index for Prognosis. Annals of the American Thoracic Society, 2016, 13, 334-341.	3.2	142
2	Epithelial Notch signaling regulates lung alveolar morphogenesis and airway epithelial integrity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8242-8247.	7.1	93
3	Domiciliary High-Flow Nasal Cannula Oxygen Therapy for Patients with Stable Hypercapnic Chronic Obstructive Pulmonary Disease. A Multicenter Randomized Crossover Trial. Annals of the American Thoracic Society, 2018, 15, 432-439.	3.2	82
4	Optimal Cutoff Level of Breath Carbon Monoxide for Assessing Smoking Status in Patients With Asthma and COPD *. Chest, 2003, 124, 1749-1754.	0.8	71
5	Fraction of MHCII and EpCAM expression characterizes distal lung epithelial cells for alveolar type 2 cell isolation. Respiratory Research, 2017, 18, 150.	3.6	68
6	Emphysema and Mechanical Stress-Induced Lung Remodeling. Physiology, 2013, 28, 404-413.	3.1	60
7	Impact of COPD Exacerbations on Osteoporosis Assessed by Chest CT Scan. COPD: Journal of Chronic Obstructive Pulmonary Disease, 2012, 9, 235-242.	1.6	58
8	Comparison of the Responsiveness of Different Disease-Specific Health Status Measures in Patients with Asthma. Chest, 2002, 122, 1228-1233.	0.8	49
9	Breathingâ€“swallowing discoordination is associated with frequent exacerbations of COPD. BMJ Open Respiratory Research, 2017, 4, e000202.	3.0	38
10	Emphysema distribution and annual changes in pulmonary function in male patients with chronic obstructive pulmonary disease. Respiratory Research, 2012, 13, 31.	3.6	35
11	Home High-Flow Nasal Cannula Oxygen Therapy for Stable Hypercapnic COPD: A Randomized Clinical Trial. American Journal of Respiratory and Critical Care Medicine, 2022, 206, 1326-1335.	5.6	32
12	Comparison of two devices for respiratory impedance measurement using a forced oscillation technique: basic study using phantom models. Journal of Physiological Sciences, 2014, 64, 377-382.	2.1	31
13	Quantitative measurement of airway dimensions using ultra-high resolution computed tomography. Respiratory Investigation, 2018, 56, 489-496.	1.8	31
14	Associations of airway tree to lung volume ratio on computed tomography with lung function and symptoms in chronic obstructive pulmonary disease. Respiratory Research, 2019, 20, 77.	3.6	30
15	Mechanical Forces Accelerate Collagen Digestion by Bacterial Collagenase in Lung Tissue Strips. Frontiers in Physiology, 2016, 7, 287.	2.8	29
16	Longitudinal shape irregularity of airway lumen assessed by CT in patients with bronchial asthma and COPD. Thorax, 2015, 70, 719-724.	5.6	27
17	Thioredoxin-1 Protects against Neutrophilic Inflammation and Emphysema Progression in a Mouse Model of Chronic Obstructive Pulmonary Disease Exacerbation. PLoS ONE, 2013, 8, e79016.	2.5	26
18	Comparison of airway dimensions in different anatomic locations on chest CT in patients with COPD. Respirology, 2006, 11, 579-585.	2.3	25

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19	Relationship between Periodontitis-Related Antibody and Frequent Exacerbations in Chronic Obstructive Pulmonary Disease. PLoS ONE, 2012, 7, e40570.	2.5	25
20	Direct evaluation of peripheral airways using ultra-high-resolution CT in chronic obstructive pulmonary disease. European Journal of Radiology, 2019, 120, 108687.	2.6	23
21	Longitudinal Study of Spatially Heterogeneous Emphysema Progression in Current Smokers with Chronic Obstructive Pulmonary Disease. PLoS ONE, 2012, 7, e44993.	2.5	23
22	Effects of acupuncture on nutritional state of patients with stable chronic obstructive pulmonary disease (COPD): re-analysis of COPD acupuncture trial, a randomized controlled trial. BMC Complementary and Alternative Medicine, 2018, 18, 287.	3.7	21
23	Per cent low attenuation volume and fractal dimension of low attenuation clusters on CT predict different long-term outcomes in COPD. Thorax, 2020, 75, 116-122.	5.6	21
24	Scale dependence of structure-function relationship in the emphysematous mouse lung. Frontiers in Physiology, 2015, 6, 146.	2.8	20
25	Serine Protease Imbalance in the Small Airways and Development of Centrilobular Emphysema in Chronic Obstructive Pulmonary Disease. American Journal of Respiratory Cell and Molecular Biology, 2020, 63, 67-78.	2.9	20
26	Accelerated Loss of Antigravity Muscles Is Associated with Mortality in Patients with COPD. Respiration, 2020, 99, 298-306.	2.6	20
27	Fractal Analysis of Lung Structure in Chronic Obstructive Pulmonary Disease. Frontiers in Physiology, 2020, 11, 603197.	2.8	19
28	Parenchymal destruction in asthma: Fixed airflow obstruction and lung function trajectory. Journal of Allergy and Clinical Immunology, 2022, 149, 934-942.e8.	2.9	18
29	Computed tomography assessment of pharmacological lung volume reduction induced by bronchodilators in COPD. COPD: Journal of Chronic Obstructive Pulmonary Disease, 2012, 9, 401-408.	1.6	17
30	Associations of CT evaluations of antigravity muscles, emphysema and airway disease with longitudinal outcomes in patients with COPD. Thorax, 2021, 76, 295-297.	5.6	16
31	Possible Maximal Change in the SFâ€36 of Outpatients with Chronic Obstructive Pulmonary Disease and Asthma. Journal of Asthma, 2004, 41, 355-365.	1.7	15
32	Fractal analysis of low attenuation clusters on computed tomography in chronic obstructive pulmonary disease. BMC Pulmonary Medicine, 2018, 18, 144.	2.0	15
33	Central airway and peripheral lung structures in airway disease-dominant COPD. ERJ Open Research, 2021, 7, 00672-2020.	2.6	15
34	Gastroesophageal reflux symptoms and nasal symptoms affect the severity of bronchitis symptoms in patients with chronic obstructive pulmonary disease. Respiratory Investigation, 2018, 56, 230-237.	1.8	14
35	Complementary regional heterogeneity information from COPD patients obtained using oxygen-enhanced MRI and chest CT. PLoS ONE, 2018, 13, e0203273.	2.5	14
36	Improvement of physical activity in chronic obstructive pulmonary disease by pulmonary rehabilitation and pharmacological treatment. Respiratory Investigation, 2018, 56, 292-306.	1.8	14

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37	CT Imaging-Based Low-Attenuation Super Clusters in Three Dimensions and the Progression of Emphysema. Chest, 2019, 155, 79-87.	0.8	14
38	Erector spinae muscle radiographic density is associated with survival after lung transplantation. Journal of Thoracic and Cardiovascular Surgery, 2022, 164, 300-311.e3.	0.8	13
39	Emphysema and airway disease affect withinâ€breath changes in respiratory resistance in <scp>COPD</scp> patients. Respirology, 2015, 20, 775-781.	2.3	12
40	Further evidence for association of YKL-40 with severe asthma airway remodeling. Annals of Allergy, Asthma and Immunology, 2022, 128, 682-688.e5.	1.0	12
41	Survival impact of treatment for chronic obstructive pulmonary disease in patients with advanced non-small-cell lung cancer. Scientific Reports, 2021, 11, 23677.	3.3	12
42	Effects of Sarcopenia on Ventilatory Behavior and the Multidimensional Nature of Dyspnea in Patients With Chronic Obstructive Pulmonary Disease. Journal of the American Medical Directors Association, 2021, 22, 827-833.	2.5	11
43	Chronic Kidney Disease Predicts Survival in Patients with Idiopathic Pulmonary Fibrosis. Respiration, 2017, 94, 346-354.	2.6	10
44	The clinical practice of high-flow nasal cannula oxygen therapy in adults: A Japanese cross-sectional multicenter survey. Respiratory Investigation, 2018, 56, 249-257.	1.8	9
45	Interdependence of physical inactivity, loss of muscle mass and low dietary intake: Extrapulmonary manifestations in older chronic obstructive pulmonary disease patients. Geriatrics and Gerontology International, 2018, 18, 88-94.	1.5	9
46	Kernel Conversion for Robust Quantitative Measurements of Archived Chest Computed Tomography Using Deep Learning-Based Image-to-Image Translation. Frontiers in Artificial Intelligence, 2021, 4, 769557.	3.4	9
47	Subtyping emphysematous COPD by respiratory volume change distributions on CT. Thorax, 2023, 78, 344-353.	5.6	9
48	Annual decline in arterial blood oxygen predicts development of chronic respiratory failure in COPD with mild hypoxaemia: A 6â€year followâ€up study. Respirology, 2019, 24, 262-269.	2.3	8
49	Quantity and quality of antigravity muscles in patients undergoing living-donor lobar lung transplantation: 1-year longitudinal analysis using chest computed tomography images. ERJ Open Research, 2020, 6, 00205-2019.	2.6	8
50	Influence of Asthma Onset on Airway Dimensions on Ultraâ€“high-resolution Computed Tomography in Chronic Obstructive Pulmonary Disease. Journal of Thoracic Imaging, 2021, 36, 224-230.	1.5	8
51	The prevalence and physiological impacts of centrilobular and paraseptal emphysema on computed tomography in smokers with preserved ratio impaired spirometry. ERJ Open Research, 2022, 8, 00063-2022.	2.6	8
52	Perspectives on End-of-Life Treatment among Patients with COPD: A Multicenter, Cross-sectional Study in Japan. COPD: Journal of Chronic Obstructive Pulmonary Disease, 2019, 16, 75-81.	1.6	7
53	Lobar distribution of non-emphysematous gas trapping and lung hyperinflation in chronic obstructive pulmonary disease. Respiratory Investigation, 2020, 58, 246-254.	1.8	7
54	Associations of pulmonary and extrapulmonary computed tomographic manifestations with impaired physical activity in symptomatic patients with chronic obstructive pulmonary disease. Scientific Reports, 2022, 12, 5608.	3.3	7

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55	Nutritionâ€related factors associated with waiting list mortality in patients with interstitial lung disease: A retrospective cohort study. Clinical Transplantation, 2019, 33, e13566.	1.6	6
56	Similar distribution of peripheral blood eosinophil counts in European and East Asian populations from investigations of large-scale general population studies: the Nagahama Study. European Respiratory Journal, 2021, 57, 2004101.	6.7	6
57	Narrative review of current COPD status in Japan. Journal of Thoracic Disease, 2021, 13, 3878-3887.	1.4	6
58	Physical function after lung transplantation for late-onset noninfectious pulmonary complications after allogeneic hematopoietic stem cell transplantation. Supportive Care in Cancer, 2021, 29, 5447-5454.	2.2	5
59	The Concavity of the Maximal Expiratory Flowâ€"Volume Curve Reflects the Extent of Emphysema in Obstructive Lung Diseases. Scientific Reports, 2019, 9, 13159.	3.3	4
60	Regional lung deflation with increased airway volume underlies the functional response to bronchodilators in chronic obstructive pulmonary disease. Physiological Reports, 2019, 7, e14330.	1.7	4
61	Low serum free light chain is associated with risk of COPD exacerbation. ERJ Open Research, 2020, 6, 00288-2019.	2.6	4
62	Expiratory central airway collapse and symptoms in smokers. Respiratory Investigation, 2021, 59, 522-529.	1.8	4
63	Exertional multidimensional dyspnoea predicts exacerbation in stable outpatients with COPD. ERJ Open Research, 2021, 7, 00150-2021.	2.6	4
64	Combined assessment of pulmonary arterial enlargement and coronary calcification predicts the prognosis of patients with chronic obstructive pulmonary disease. Respiratory Medicine, 2021, 185, 106520.	2.9	4
65	Deep learning-based reconstruction of chest ultra-high-resolution computed tomography and quantitative evaluations of smaller airways. Respiratory Investigation, 2022, 60, 167-170.	1.8	4
66	Impact of inspiratory muscle strength on exercise capacity after lung transplantation. Physiotherapy Research International, 2022, 27, e1951.	1.5	4
67	Periâ€diaphragmatic lung volume assessed by computed tomography correlates with quality of life in patients with chronic obstructive pulmonary disease. Respirology, 2012, 17, 1137-1143.	2.3	3
68	Three-dimensional imaging forced oscillation technique to assess position-dependent airway obstruction in relapsing polychondritis: A case report. Respiratory Investigation, 2017, 55, 69-73.	1.8	3
69	Disproportionally Impaired Diffusion Capacity Relative to Airflow Limitation in COPD. COPD: Journal of Chronic Obstructive Pulmonary Disease, 2020, 17, 627-634.	1.6	3
70	The importance of central airway dilatation in patients with bronchiolitis obliterans. ERJ Open Research, 2021, 7, 00123-2021.	2.6	3
71	A homological approach to a mathematical definition of pulmonary fibrosis and emphysema on computed tomography. Journal of Applied Physiology, 2021, 131, 601-612.	2.5	2
72	Annual Body Weight Change and Prognosis in Chronic Obstructive Pulmonary Disease. International Journal of COPD, 2021, Volume 16, 3243-3253.	2.3	2

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73	Gastroesophageal reflux-like symptoms are associated with hyposalivation and oropharyngeal problems in patients with asthma. Respiratory Investigation, 2021, 59, 114-119.	1.8	1
74	Comparison between high-flow nasal cannula oxygen therapy and non-invasive ventilation for respiratory care: a Japanese cross-sectional multicenter survey. , 2017, , .		1
75	Association of airways visibility on computed tomography with symptoms and lung function in COPD. , 2018, , .		1
76	Protease anti-protease imbalance and small airways disease in COPD. , 2018, , .		1
77	CT evaluations of erector spinae muscle, emphysema, and airway disease for predicting mortality in COPD. , 2020, , .		1
78	Changes in the health-related quality of life and social reintegration status after lung transplantation following hematopoietic stem cell transplantation. Supportive Care in Cancer, 2022, 30, 1831-1839.	2.2	1
79	The characteristics of changes in skeletal muscle cross-sectional area after allogeneic hematopoietic stem cell transplantation. Journal of Hematopoietic Cell Transplantation, 2019, 8, 70-77.	0.1	1
80	Nutrition-related factors associated with waiting list mortality in patients with interstitial lung disease: a retrospective cohort study. , 2019, , .		1
81	Therapeutic Outcome of Inhalation-support Team Collaboration with Hospital and Community Pharmacists. Iryo Yakugaku (Japanese Journal of Pharmaceutical Health Care and Sciences), 2020, 46, 405-413.	0.1	1
82	Comparison of machine learning and non-machine learning methods for the sleep apnea detection using millimeter-wave radar. IEICE Communications Express, 2022, 11, 355-360.	0.4	1
83	Physiological Impairments on Respiratory Oscillometry and Future Exacerbations in Chronic Obstructive Pulmonary Disease Patients without a History of Frequent Exacerbations. COPD: Journal of Chronic Obstructive Pulmonary Disease, 2022, 19, 149-157.	1.6	1
84	Non-respiratory symptom dominance is associated with depression in patients with chronic obstructive pulmonary disease. Respiratory Medicine, 2022, , 106895.	2.9	1
85	Exacerbation of ventricular arrhythmias by continuous positive airway pressure treatment in idiopathic dilated cardiomyopathy. Respiratory Investigation, 2022, 60, 729-733.	1.8	1
86	Reply to: What is â€œfunctional small airway diseaseâ€•in inspiratory and expiratory CT images?. Respiratory Investigation, 2021, 59, 564-565.	1.8	0
87	Fractal dimension in CT low attenuation areas is predictive of long-term oxygen therapy initiation in COPD patients: Results from two observational cohort studies. Respiratory Investigation, 2021, 60, 137-137.	1.8	0
88	Domiciliary high-flow nasal cannula oxygen therapy for stable hypercapnic chronic obstructive pulmonary disease: a prospective, multicentre, randomised crossover trial. , 2017, , .		0
89	Breathing-swallowing discoordination associated with frequent exacerbation of COPD. , 2017, , .		0
90	Roles of sensitization to staphylococcus enterotoxin in patients with obstructive lung diseases. , 2019, , .		0

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91	Impact of skeletal muscle quality on two-year trajectory of exercise capacity after lung transplantation. , 2019, , .		0
92	Roles of sensitization to Staphylococcal enterotoxin in patients with bronchiectasis. , 2020, , .		0
93	Radiological Evaluation of Lower Airway Dimensions Deciding Ventilatory Dynamics: Can Radiologically Determined, Static Airway Structures Precisely Predict Ventilatory Dysfunction?. Respiratory Disease Series, 2020, , 117-135.	0.0	0
94	Late Breaking Abstract - Prognostic impact of decreased erector spinae muscle radiographic density after lung transplantation. , 2021, , .		0
95	Improved spirometric index to discriminate the severity of centrilobular emphysema. , 2021, , .		0
96	Pathology of small airways in non-COPD smokers with low diffusion capacity and patients with COPD. , 2020, , .		0
97	Regional ventilation distribution in emphysema and non-emphysema regions affects diffusion capacity in COPD. , 2020, , .		0
98	The association between airflow limitation and dyspnea and comorbidity related to COPD in the Nagahama study. , 2020, , .		0
99	Impacts of bronchiectasis in asthma patients with airflow limitation. , 2020, , .		0
100	Impact of inspiratory muscle strength on exercise capacity after lung transplantation.-a longitudinal study in early stage-. , 2020, , .		0
101	Evaluation of respiratory rate monitoring performance using a home oxygen monitoring device among patients with interstitial lung disease and chronic obstructive pulmonary disease.. Sarcoidosis Vasculitis and Diffuse Lung Diseases, 2022, 39, e2022007.	0.2	0
102	Quantitative computed tomography-based evaluation of skeletal muscle and presence of sarcopenia in patients with chronic obstructive pulmonary disease. Respiratory Investigation, 2022, , .	1.8	0