

Susumu Sato

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

1,514
citations

331670

21
h-index

377865

34
g-index

105
all docs

105
docs citations

105
times ranked

2038
citing authors

#	ARTICLE	IF	CITATIONS
1	Subtyping emphysematous COPD by respiratory volume change distributions on CT. <i>Thorax</i> , 2023, 78, 344-353.	5.6	9
2	Erector spinae muscle radiographic density is associated with survival after lung transplantation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2022, 164, 300-311.e3.	0.8	13
3	Parenchymal destruction in asthma: Fixed airflow obstruction and lung function trajectory. <i>Journal of Allergy and Clinical Immunology</i> , 2022, 149, 934-942.e8.	2.9	18
4	Changes in the health-related quality of life and social reintegration status after lung transplantation following hematopoietic stem cell transplantation. <i>Supportive Care in Cancer</i> , 2022, 30, 1831-1839.	2.2	1
5	Deep learning-based reconstruction of chest ultra-high-resolution computed tomography and quantitative evaluations of smaller airways. <i>Respiratory Investigation</i> , 2022, 60, 167-170.	1.8	4
6	Comparison of machine learning and non-machine learning methods for the sleep apnea detection using millimeter-wave radar. <i>IEICE Communications Express</i> , 2022, 11, 355-360.	0.4	1
7	Further evidence for association of YKL-40 with severe asthma airway remodeling. <i>Annals of Allergy, Asthma and Immunology</i> , 2022, 128, 682-688.e5.	1.0	12
8	Associations of pulmonary and extrapulmonary computed tomographic manifestations with impaired physical activity in symptomatic patients with chronic obstructive pulmonary disease. <i>Scientific Reports</i> , 2022, 12, 5608.	3.3	7
9	Impact of inspiratory muscle strength on exercise capacity after lung transplantation. <i>Physiotherapy Research International</i> , 2022, 27, e1951.	1.5	4
10	Physiological Impairments on Respiratory Oscillometry and Future Exacerbations in Chronic Obstructive Pulmonary Disease Patients without a History of Frequent Exacerbations. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2022, 19, 149-157.	1.6	1
11	Evaluation of respiratory rate monitoring performance using a home oxygen monitoring device among patients with interstitial lung disease and chronic obstructive pulmonary disease.. <i>Sarcoidosis Vasculitis and Diffuse Lung Diseases</i> , 2022, 39, e2022007.	0.2	0
12	Quantitative computed tomography-based evaluation of skeletal muscle and presence of sarcopenia in patients with chronic obstructive pulmonary disease. <i>Respiratory Investigation</i> , 2022, , .	1.8	0
13	The prevalence and physiological impacts of centrilobular and paraseptal emphysema on computed tomography in smokers with preserved ratio impaired spirometry. <i>ERJ Open Research</i> , 2022, 8, 00063-2022.	2.6	8
14	Non-respiratory symptom dominance is associated with depression in patients with chronic obstructive pulmonary disease. <i>Respiratory Medicine</i> , 2022, , 106895.	2.9	1
15	Home High-Flow Nasal Cannula Oxygen Therapy for Stable Hypercapnic COPD: A Randomized Clinical Trial. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 206, 1326-1335.	5.6	32
16	Exacerbation of ventricular arrhythmias by continuous positive airway pressure treatment in idiopathic dilated cardiomyopathy. <i>Respiratory Investigation</i> , 2022, 60, 729-733.	1.8	1
17	Gastroesophageal reflux-like symptoms are associated with hyposalivation and oropharyngeal problems in patients with asthma. <i>Respiratory Investigation</i> , 2021, 59, 114-119.	1.8	1
18	Associations of CT evaluations of antigravity muscles, emphysema and airway disease with longitudinal outcomes in patients with COPD. <i>Thorax</i> , 2021, 76, 295-297.	5.6	16

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19	Central airway and peripheral lung structures in airway disease-dominant COPD. ERJ Open Research, 2021, 7, 00672-2020.	2.6	15
20	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
21	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
22	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
23	Narrative review of current COPD status in Japan. Journal of Thoracic Disease, 2021, 13, 3878-3887.	1.4	6
24	The importance of central airway dilatation in patients with bronchiolitis obliterans. ERJ Open Research, 2021, 7, 00123-2021.	2.6	3
25	Expiratory central airway collapse and symptoms in smokers. Respiratory Investigation, 2021, 59, 522-529.	1.8	4
26	Reply to: What is "functional small airway disease" in inspiratory and expiratory CT images?. Respiratory Investigation, 2021, 59, 564-565.	1.8	0
27	Exertional multidimensional dyspnoea predicts exacerbation in stable outpatients with COPD. ERJ Open Research, 2021, 7, 00150-2021.	2.6	4
28	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
29	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
30	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
31	Influence of Asthma Onset on Airway Dimensions on Ultra"high-resolution Computed Tomography in Chronic Obstructive Pulmonary Disease. Journal of Thoracic Imaging, 2021, 36, 224-230.	1.5	8
32	Late Breaking Abstract - Prognostic impact of decreased erector spinae muscle radiographic density after lung transplantation. , 2021, , .		0
33	Improved spirometric index to discriminate the severity of centrilobular emphysema. , 2021, , .		0
34	Annual Body Weight Change and Prognosis in Chronic Obstructive Pulmonary Disease. International Journal of COPD, 2021, Volume 16, 3243-3253.	2.3	2
35	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
36	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

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37	Per cent low attenuation volume and fractal dimension of low attenuation clusters on CT predict different long-term outcomes in COPD. <i>Thorax</i> , 2020, 75, 116-122.	5.6	21
38	Disproportionally Impaired Diffusion Capacity Relative to Airflow Limitation in COPD. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2020, 17, 627-634.	1.6	3
39	Quantity and quality of antigravity muscles in patients undergoing living-donor lobar lung transplantation: 1-year longitudinal analysis using chest computed tomography images. <i>ERJ Open Research</i> , 2020, 6, 00205-2019.	2.6	8
40	Fractal Analysis of Lung Structure in Chronic Obstructive Pulmonary Disease. <i>Frontiers in Physiology</i> , 2020, 11, 603197.	2.8	19
41	Low serum free light chain is associated with risk of COPD exacerbation. <i>ERJ Open Research</i> , 2020, 6, 00288-2019.	2.6	4
42	Serine Protease Imbalance in the Small Airways and Development of Centrilobular Emphysema in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 67-78.	2.9	20
43	Lobar distribution of non-emphysematous gas trapping and lung hyperinflation in chronic obstructive pulmonary disease. <i>Respiratory Investigation</i> , 2020, 58, 246-254.	1.8	7
44	Accelerated Loss of Antigravity Muscles Is Associated with Mortality in Patients with COPD. <i>Respiration</i> , 2020, 99, 298-306.	2.6	20
45	CT evaluations of erector spinae muscle, emphysema, and airway disease for predicting mortality in COPD. , 2020, , .		1
46	Therapeutic Outcome of Inhalation-support Team Collaboration with Hospital and Community Pharmacists. <i>Iryo Yakugaku (Japanese Journal of Pharmaceutical Health Care and Sciences)</i> , 2020, 46, 405-413.	0.1	1
47	Roles of sensitization to Staphylococcal enterotoxin in patients with bronchiectasis. , 2020, , .		0
48	Radiological Evaluation of Lower Airway Dimensions Deciding Ventilatory Dynamics: Can Radiologically Determined, Static Airway Structures Precisely Predict Ventilatory Dysfunction?. <i>Respiratory Disease Series</i> , 2020, , 117-135.	0.0	0
49	Pathology of small airways in non-COPD smokers with low diffusion capacity and patients with COPD. , 2020, , .		0
50	Regional ventilation distribution in emphysema and non-emphysema regions affects diffusion capacity in COPD. , 2020, , .		0
51	The association between airflow limitation and dyspnea and comorbidity related to COPD in the Nagahama study. , 2020, , .		0
52	Impacts of bronchiectasis in asthma patients with airflow limitation. , 2020, , .		0
53	Impact of inspiratory muscle strength on exercise capacity after lung transplantation.-a longitudinal study in early stage-. , 2020, , .		0
54	The Concavity of the Maximal Expiratory Flow“Volume Curve Reflects the Extent of Emphysema in Obstructive Lung Diseases. <i>Scientific Reports</i> , 2019, 9, 13159.	3.3	4

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55	Direct evaluation of peripheral airways using ultra-high-resolution CT in chronic obstructive pulmonary disease. <i>European Journal of Radiology</i> , 2019, 120, 108687.	2.6	23
56	Associations of airway tree to lung volume ratio on computed tomography with lung function and symptoms in chronic obstructive pulmonary disease. <i>Respiratory Research</i> , 2019, 20, 77.	3.6	30
57	Nutrition-related factors associated with waiting list mortality in patients with interstitial lung disease: A retrospective cohort study. <i>Clinical Transplantation</i> , 2019, 33, e13566.	1.6	6
58	Perspectives on End-of-Life Treatment among Patients with COPD: A Multicenter, Cross-sectional Study in Japan. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2019, 16, 75-81.	1.6	7
59	Regional lung deflation with increased airway volume underlies the functional response to bronchodilators in chronic obstructive pulmonary disease. <i>Physiological Reports</i> , 2019, 7, e14330.	1.7	4
60	Annual decline in arterial blood oxygen predicts development of chronic respiratory failure in COPD with mild hypoxaemia: A 6-year follow-up study. <i>Respirology</i> , 2019, 24, 262-269.	2.3	8
61	CT Imaging-Based Low-Attenuation Super Clusters in Three Dimensions and the Progression of Emphysema. <i>Chest</i> , 2019, 155, 79-87.	0.8	14
62	The characteristics of changes in skeletal muscle cross-sectional area after allogeneic hematopoietic stem cell transplantation. <i>Journal of Hematopoietic Cell Transplantation</i> , 2019, 8, 70-77.	0.1	1
63	Nutrition-related factors associated with waiting list mortality in patients with interstitial lung disease: a retrospective cohort study. , 2019, , .		1
64	Roles of sensitization to staphylococcus enterotoxin in patients with obstructive lung diseases. , 2019, , .		0
65	Impact of skeletal muscle quality on two-year trajectory of exercise capacity after lung transplantation. , 2019, , .		0
66	Domiciliary High-Flow Nasal Cannula Oxygen Therapy for Patients with Stable Hypercapnic Chronic Obstructive Pulmonary Disease. A Multicenter Randomized Crossover Trial. <i>Annals of the American Thoracic Society</i> , 2018, 15, 432-439.	3.2	82
67	The clinical practice of high-flow nasal cannula oxygen therapy in adults: A Japanese cross-sectional multicenter survey. <i>Respiratory Investigation</i> , 2018, 56, 249-257.	1.8	9
68	Gastroesophageal reflux symptoms and nasal symptoms affect the severity of bronchitis symptoms in patients with chronic obstructive pulmonary disease. <i>Respiratory Investigation</i> , 2018, 56, 230-237.	1.8	14
69	Interdependence of physical inactivity, loss of muscle mass and low dietary intake: Extrapulmonary manifestations in older chronic obstructive pulmonary disease patients. <i>Geriatrics and Gerontology International</i> , 2018, 18, 88-94.	1.5	9
70	Fractal analysis of low attenuation clusters on computed tomography in chronic obstructive pulmonary disease. <i>BMC Pulmonary Medicine</i> , 2018, 18, 144.	2.0	15
71	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. <i>BMC Complementary and Alternative Medicine</i> , 2018, 18, 287.	3.7	21
72	Quantitative measurement of airway dimensions using ultra-high resolution computed tomography. <i>Respiratory Investigation</i> , 2018, 56, 489-496.	1.8	31

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73	Complementary regional heterogeneity information from COPD patients obtained using oxygen-enhanced MRI and chest CT. PLoS ONE, 2018, 13, e0203273.	2.5	14
74	Improvement of physical activity in chronic obstructive pulmonary disease by pulmonary rehabilitation and pharmacological treatment. Respiratory Investigation, 2018, 56, 292-306.	1.8	14
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	Chronic Kidney Disease Predicts Survival in Patients with Idiopathic Pulmonary Fibrosis. Respiration, 2017, 94, 346-354.	2.6	10
78	Breathing-swallowing discoordination is associated with frequent exacerbations of COPD. BMJ Open Respiratory Research, 2017, 4, e000202.	3.0	38
79	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
80	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
81	Comparison between high-flow nasal cannula oxygen therapy and non-invasive ventilation for respiratory care: a Japanese cross-sectional multicenter survey. , 2017, , .		1
82	Domiciliary high-flow nasal cannula oxygen therapy for stable hypercapnic chronic obstructive pulmonary disease: a prospective, multicentre, randomised crossover trial. , 2017, , .		0
83	Breathing-swallowing discoordination associated with frequent exacerbation of COPD. , 2017, , .		0
84	Mechanical Forces Accelerate Collagen Digestion by Bacterial Collagenase in Lung Tissue Strips. Frontiers in Physiology, 2016, 7, 287.	2.8	29
85	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
86	Quantitative Assessment of Erector Spinae Muscles in Patients with Chronic Obstructive Pulmonary Disease. Novel Chest Computed Tomography-derived Index for Prognosis. Annals of the American Thoracic Society, 2016, 13, 334-341.	3.2	142
87	Emphysema and airway disease affect within-breath changes in respiratory resistance in COPD patients. Respirology, 2015, 20, 775-781.	2.3	12
88	Scale dependence of structure-function relationship in the emphysematous mouse lung. Frontiers in Physiology, 2015, 6, 146.	2.8	20
89	Longitudinal shape irregularity of airway lumen assessed by CT in patients with bronchial asthma and COPD. Thorax, 2015, 70, 719-724.	5.6	27
90	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

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91	Emphysema and Mechanical Stress-Induced Lung Remodeling. <i>Physiology</i> , 2013, 28, 404-413.	3.1	60
92	Thioredoxin-1 Protects against Neutrophilic Inflammation and Emphysema Progression in a Mouse Model of Chronic Obstructive Pulmonary Disease Exacerbation. <i>PLoS ONE</i> , 2013, 8, e79016.	2.5	26
93	Impact of COPD Exacerbations on Osteoporosis Assessed by Chest CT Scan. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2012, 9, 235-242.	1.6	58
94	Computed tomography assessment of pharmacological lung volume reduction induced by bronchodilators in COPD. <i>COPD: Journal of Chronic Obstructive Pulmonary Disease</i> , 2012, 9, 401-408.	1.6	17
95	Peri-diaphragmatic lung volume assessed by computed tomography correlates with quality of life in patients with chronic obstructive pulmonary disease. <i>Respirology</i> , 2012, 17, 1137-1143.	2.3	3
96	Emphysema distribution and annual changes in pulmonary function in male patients with chronic obstructive pulmonary disease. <i>Respiratory Research</i> , 2012, 13, 31.	3.6	35
97	Relationship between Periodontitis-Related Antibody and Frequent Exacerbations in Chronic Obstructive Pulmonary Disease. <i>PLoS ONE</i> , 2012, 7, e40570.	2.5	25
98	Longitudinal Study of Spatially Heterogeneous Emphysema Progression in Current Smokers with Chronic Obstructive Pulmonary Disease. <i>PLoS ONE</i> , 2012, 7, e44993.	2.5	23
99	Comparison of airway dimensions in different anatomic locations on chest CT in patients with COPD. <i>Respirology</i> , 2006, 11, 579-585.	2.3	25
100	Possible Maximal Change in the SF ₆ of Outpatients with Chronic Obstructive Pulmonary Disease and Asthma. <i>Journal of Asthma</i> , 2004, 41, 355-365.	1.7	15
101	Optimal Cutoff Level of Breath Carbon Monoxide for Assessing Smoking Status in Patients With Asthma and COPD *. <i>Chest</i> , 2003, 124, 1749-1754.	0.8	71
102	Comparison of the Responsiveness of Different Disease-Specific Health Status Measures in Patients with Asthma. <i>Chest</i> , 2002, 122, 1228-1233.	0.8	49