

# Natascha Sommer

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

1,343  
citations

516215

16  
h-index

360668

35  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1904  
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation of the Tricuspid Annular Plane Systolic Excursion/Systolic Pulmonary Artery Pressure Ratio for the Assessment of Right Ventricular-Arterial Coupling in Severe Pulmonary Hypertension. <i>Circulation: Cardiovascular Imaging</i> , 2019, 12, e009047.	1.3	222
2	The Giessen Pulmonary Hypertension Registry: Survival in pulmonary hypertension subgroups. <i>Journal of Heart and Lung Transplantation</i> , 2017, 36, 957-967.	0.3	221
3	Oxygen sensing and signal transduction in hypoxic pulmonary vasoconstriction. <i>European Respiratory Journal</i> , 2016, 47, 288-303.	3.1	120
4	Mitochondrial Complex IV Subunit 4 Isoform 2 Is Essential for Acute Pulmonary Oxygen Sensing. <i>Circulation Research</i> , 2017, 121, 424-438.	2.0	90
5	Mitochondrial Hyperpolarization in Pulmonary Vascular Remodeling. Mitochondrial Uncoupling Protein Deficiency as Disease Model. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 49, 358-367.	1.4	66
6	Impact of the mitochondria-targeted antioxidant MitoQ on hypoxia-induced pulmonary hypertension. <i>European Respiratory Journal</i> , 2018, 51, 1701024.	3.1	64
7	Function of NADPH Oxidase 1 in Pulmonary Arterial Smooth Muscle Cells After Monocrotaline-Induced Pulmonary Vascular Remodeling. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 2213-2231.	2.5	62
8	Endogenous formaldehyde scavenges cellular glutathione resulting in redox disruption and cytotoxicity. <i>Nature Communications</i> , 2022, 13, 745.	5.8	45
9	Bypassing mitochondrial complex III using alternative oxidase inhibits acute pulmonary oxygen sensing. <i>Science Advances</i> , 2020, 6, eaba0694.	4.7	39
10	Alternative Oxidase Attenuates Cigarette Smoke-induced Lung Dysfunction and Tissue Damage. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 60, 515-522.	1.4	37
11	Thin Air Resulting in High Pressure: Mountain Sickness and Hypoxia-Induced Pulmonary Hypertension. <i>Canadian Respiratory Journal</i> , 2017, 2017, 1-17.	0.8	32
12	A simple echocardiographic estimate of right ventricular-arterial coupling to assess severity and outcome in pulmonary hypertension on chronic lung disease. <i>European Respiratory Journal</i> , 2019, 54, 1802435.	3.1	30
13	The prognostic impact of thyroid function in pulmonary hypertension. <i>Journal of Heart and Lung Transplantation</i> , 2016, 35, 1427-1434.	0.3	25
14	NADPH oxidase subunit NOXO1 is a target for emphysema treatment in COPD. <i>Nature Metabolism</i> , 2020, 2, 532-546.	5.1	23
15	Validity of echocardiographic tricuspid regurgitation gradient to screen for new definition of pulmonary hypertension. <i>EClinicalMedicine</i> , 2021, 34, 100822.	3.2	22
16	Impaired right ventricular lusitropy is associated with ventilatory inefficiency in pulmonary arterial hypertension. <i>European Respiratory Journal</i> , 2019, 54, 1900342.	3.1	21
17	SPARC, a Novel Regulator of Vascular Cell Function in Pulmonary Hypertension. <i>Circulation</i> , 2022, 145, 916-933.	1.6	21
18	Association of right atrial conduit phase with right ventricular lusitropic function in pulmonary hypertension. <i>International Journal of Cardiovascular Imaging</i> , 2020, 36, 633-642.	0.7	16

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19	Impairment of hypoxic pulmonary vasoconstriction in acute respiratory distress syndrome. <i>European Respiratory Review</i> , 2021, 30, 210059.	3.0	16
20	Resolvin E1 Improves Mitochondrial Function in Human Alveolar Epithelial Cells during Severe Inflammation. <i>Lipids</i> , 2019, 54, 53-65.	0.7	15
21	Impact of SARS-CoV-2 pandemic on pulmonary hypertension out-patient clinics in Germany: a multi-centre study. <i>Pulmonary Circulation</i> , 2020, 10, 1-3.	0.8	15
22	Hypoxic pulmonary vasoconstriction in isolated mouse pulmonary arterial vessels. <i>Experimental Physiology</i> , 2018, 103, 1185-1191.	0.9	14
23	Physical Activity and Mental Health of Patients with Pulmonary Hypertension during the COVID-19 Pandemic. <i>Journal of Clinical Medicine</i> , 2020, 9, 4023.	1.0	14
24	Flow Cytometry-Based Quantification of Neutrophil Extracellular Traps Shows an Association with Hypercoagulation in Septic Shock and Hypocoagulation in Postsurgical Systemic Inflammation—A Proof-of-Concept Study. <i>Journal of Clinical Medicine</i> , 2020, 9, 174.	1.0	13
25	Myeloid-cell-specific deletion of inducible nitric oxide synthase protects against smoke-induced pulmonary hypertension in mice. <i>European Respiratory Journal</i> , 2022, 59, 2101153.	3.1	13
26	Risk assessment in pulmonary hypertension based on routinely measured laboratory parameters. <i>Journal of Heart and Lung Transplantation</i> , 2022, 41, 400-410.	0.3	12
27	Adenylate Kinase 4—A Key Regulator of Proliferation and Metabolic Shift in Human Pulmonary Arterial Smooth Muscle Cells via Akt and HIF-1 $\alpha$ Signaling Pathways. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10371.	1.8	11
28	Circulating Angiotensin-1 Is Not a Biomarker of Disease Severity or Prognosis in Pulmonary Hypertension. <i>PLoS ONE</i> , 2016, 11, e0165982.	1.1	10
29	Evaluation of pulmonary hypertension by right heart catheterisation: does timing matter?. <i>European Respiratory Journal</i> , 2020, 56, 1901892.	3.1	9
30	The effect of long-term doxycycline treatment in a mouse model of cigarette smoke-induced emphysema and pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 320, L903-L915.	1.3	9
31	Genetic deletion of p66shc and/or cyclophilin D results in decreased pulmonary vascular tone. <i>Cardiovascular Research</i> , 2022, 118, 305-315.	1.8	8
32	The Clinical Significance of HbA1c in Operable Chronic Thromboembolic Pulmonary Hypertension. <i>PLoS ONE</i> , 2016, 11, e0152580.	1.1	8
33	Alternative oxidase encoded by sequence-optimized and chemically-modified RNA transfected into mammalian cells is catalytically active. <i>Gene Therapy</i> , 2022, 29, 655-664.	2.3	5
34	Lack of Contribution of p66shc to Pressure Overload-Induced Right Heart Hypertrophy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9339.	1.8	4
35	Immunomodulation by an Omega-6 Fatty Acid Reduced Mixed Lipid Emulsion in Murine Acute Respiratory Distress Syndrome. <i>Journal of Clinical Medicine</i> , 2020, 9, 2048.	1.0	4
36	Systemic Effects of mitoTEMPO upon Lipopolysaccharide Challenge Are Due to Its Antioxidant Part, While Local Effects in the Lung Are Due to Triphenylphosphonium. <i>Antioxidants</i> , 2022, 11, 323.	2.2	4

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37	A Microfluidic System for Simultaneous Raman Spectroscopy, Patchâ€Clamp Electrophysiology, and Liveâ€Cell Imaging to Study Key Cellular Events of Single Living Cells in Response to Acute Hypoxia. <i>Small Methods</i> , 2021, 5, e2100470.	4.6	3
38	Anoctamin-1: A Novel Mitochondrial Ion Channel Regulating Cellular Apoptosis and Proliferation?. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 58, 558-559.	1.4	0
39	Endoplasmic Reticulum-Mitochondrial Crosstalk in the Development of Idiopathic Pulmonary Fibrosis. <i>Am J Physiol Lung Cell Mol Physiol</i> , 2019, 73, .		0