

# Natascha Sommer

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33  
papers

682  
citations

13  
h-index

25  
g-index

42  
ext. papers

1,010  
ext. citations

7.5  
avg, IF

3.69  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 33 | Endogenous formaldehyde scavenges cellular glutathione resulting in redox disruption and cytotoxicity.. <i>Nature Communications</i> , <b>2022</b> , 13, 745  | 17.4 | 2         |
| 32 | Experimental Setup for Investigation of Acute Mitochondrial Oxygen Sensing in Primary Cells. <i>Methods in Molecular Biology</i> , <b>2022</b> , 301-311  | 1.4  |           |
| 31 | Alternative oxidase encoded by sequence-optimized and chemically-modified RNA transfected into mammalian cells is catalytically active. <i>Gene Therapy</i> , <b>2021</b> ,   | 4    | 4         |
| 30 | Validity of echocardiographic tricuspid regurgitation gradient to screen for new definition of pulmonary hypertension. <i>EClinicalMedicine</i> , <b>2021</b> , 34, 100822  | 11.3 | 3         |
| 29 | 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> , <b>2021</b> , 320, L903-L915                               | 5.8  | 1         |
| 28 | A Microfluidic System for Simultaneous Raman Spectroscopy, Patch-Clamp Electrophysiology, and Live-Cell Imaging to Study Key Cellular Events of Single Living Cells in Response to Acute Hypoxia.. <i>Small Methods</i> , <b>2021</b> , 5, e2100470                         | 12.8 | 1         |
| 27 | Impairment of hypoxic pulmonary vasoconstriction in acute respiratory distress syndrome. <i>European Respiratory Review</i> , <b>2021</b> , 30,   | 9.8  | 6         |
| 26 | Physical Activity and Mental Health of Patients with Pulmonary Hypertension during the COVID-19 Pandemic. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,  | 5.1  | 4         |
| 25 | Lack of Contribution of p66shc to Pressure Overload-Induced Right Heart Hypertrophy. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,   | 6.3  | 2         |
| 24 | Genetic Deletion of p66shc and/or Cyclophilin D Results in Decreased Pulmonary Vascular Tone. <i>Cardiovascular Research</i> , <b>2020</b> ,  | 9.9  | 2         |
| 23 | Evaluation of pulmonary hypertension by right heart catheterisation: does timing matter?. <i>European Respiratory Journal</i> , <b>2020</b> , 56,   | 13.6 | 4         |
| 22 | NADPH oxidase subunit NOXO1 is a target for emphysema treatment in COPD. <i>Nature Metabolism</i> , <b>2020</b> , 2, 532-546  | 14.6 | 4         |
| 21 | Immunomodulation by an Omega-6 Fatty Acid Reduced Mixed Lipid Emulsion in Murine Acute Respiratory Distress Syndrome. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,  | 5.1  | 2         |
| 20 | 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> , <b>2020</b> , 9, | 5.1  | 6         |
| 19 | Association of right atrial conduit phase with right ventricular lusitropic function in pulmonary hypertension. <i>International Journal of Cardiovascular Imaging</i> , <b>2020</b> , 36, 633-642  | 2.5  | 7         |
| 18 | Impact of SARS-CoV-2 pandemic on pulmonary hypertension out-patient clinics in Germany: a multi-centre study. <i>Pulmonary Circulation</i> , <b>2020</b> , 10, 2045894020941682   | 2.7  | 9         |
| 17 | Bypassing mitochondrial complex III using alternative oxidase inhibits acute pulmonary oxygen sensing. <i>Science Advances</i> , <b>2020</b> , 6, eaba0694  | 14.3 | 18        |

|    |  |      |     |
|----|--|------|-----|
| 16 | 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> , <b>2019</b> , 12, e009047 | 3.9  | 77  |
| 15 | Impaired right ventricular lusitropy is associated with ventilatory inefficiency in pulmonary arterial hypertension. <i>European Respiratory Journal</i> , <b>2019</b> , 54,   | 13.6 | 13  |
| 14 | Resolvin E1 Improves Mitochondrial Function in Human Alveolar Epithelial Cells during Severe Inflammation. <i>Lipids</i> , <b>2019</b> , 54, 53-65   | 1.6  | 9   |
| 13 | 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> , <b>2019</b> , 54,   | 13.6 | 13  |
| 12 | Alternative Oxidase Attenuates Cigarette Smoke-induced Lung Dysfunction and Tissue Damage. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2019</b> , 60, 515-522   | 5.7  | 21  |
| 11 | Impact of the mitochondria-targeted antioxidant MitoQ on hypoxia-induced pulmonary hypertension. <i>European Respiratory Journal</i> , <b>2018</b> ,   | 13.6 | 30  |
| 10 | Hypoxic pulmonary vasoconstriction in isolated mouse pulmonary arterial vessels. <i>Experimental Physiology</i> , <b>2018</b> , 103, 1185-1191   | 2.4  | 7   |
| 9  | The Giessen Pulmonary Hypertension Registry: Survival in pulmonary hypertension subgroups. <i>Journal of Heart and Lung Transplantation</i> , <b>2017</b> , 36, 957-967  | 5.8  | 138 |
| 8  | Mitochondrial Complex IV Subunit 4 Isoform 2 Is Essential for Acute Pulmonary Oxygen Sensing. <i>Circulation Research</i> , <b>2017</b> , 121, 424-438   | 15.7 | 58  |
| 7  | Thin Air Resulting in High Pressure: Mountain Sickness and Hypoxia-Induced Pulmonary Hypertension. <i>Canadian Respiratory Journal</i> , <b>2017</b> , 2017, 8381653   | 2.1  | 19  |
| 6  | The prognostic impact of thyroid function in pulmonary hypertension. <i>Journal of Heart and Lung Transplantation</i> , <b>2016</b> , 35, 1427-1434  | 5.8  | 14  |
| 5  | Oxygen sensing and signal transduction in hypoxic pulmonary vasoconstriction. <i>European Respiratory Journal</i> , <b>2016</b> , 47, 288-303  | 13.6 | 84  |
| 4  | The Clinical Significance of HbA1c in Operable Chronic Thromboembolic Pulmonary Hypertension. <i>PLoS ONE</i> , <b>2016</b> , 11, e0152580   | 3.7  | 8   |
| 3  | Circulating Angiotensin II Is Not a Biomarker of Disease Severity or Prognosis in Pulmonary Hypertension. <i>PLoS ONE</i> , <b>2016</b> , 11, e0165982   | 3.7  | 5   |
| 2  | Mitochondrial hyperpolarization in pulmonary vascular remodeling. Mitochondrial uncoupling protein deficiency as disease model. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2013</b> , 49, 358-67   | 5.7  | 50  |
| 1  | Function of NADPH oxidase 1 in pulmonary arterial smooth muscle cells after monocrotaline-induced pulmonary vascular remodeling. <i>Antioxidants and Redox Signaling</i> , <b>2013</b> , 19, 2213-31   | 8.4  | 57  |