

# He N Xu

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

770  
citations

516710

16  
h-index

552781

26  
g-index

51  
all docs

51  
docs citations

51  
times ranked

847  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Quantitative magnetic resonance and optical imaging biomarkers of melanoma metastatic potential. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6608-6613.              | 7.1 | 86        |
| 2  | Quantitative mitochondrial redox imaging of breast cancer metastatic potential. Journal of Biomedical Optics, 2010, 15, 036010.  | 2.6 | 80        |
| 3  | MITOCHONDRIAL REDOX IMAGING FOR CANCER DIAGNOSTIC AND THERAPEUTIC STUDIES. Journal of Innovative Optical Health Sciences, 2009, 02, 325-341.   | 1.0 | 53        |
| 4  | Monitoring response to chemotherapy of non-Hodgkin's lymphoma xenografts by T <sub>2</sub> -weighted and diffusion-weighted MRI. NMR in Biomedicine, 2008, 21, 1021-1029.  | 2.8 | 48        |
| 5  | Is Higher Lactate an Indicator of Tumor Metastatic Risk? A Pilot MRS Study Using Hyperpolarized <sup>13</sup> C-Pyruvate. Academic Radiology, 2014, 21, 223-231.   | 2.5 | 35        |
| 6  | Potential Indexing of the Invasiveness of Breast Cancer Cells by Mitochondrial Redox Ratios. Advances in Experimental Medicine and Biology, 2016, 923, 121-127.  | 1.6 | 31        |
| 7  | Breast Cancer Redox Heterogeneity Detectable with Chemical Exchange Saturation Transfer (CEST) MRI. Molecular Imaging and Biology, 2014, 16, 670-679.  | 2.6 | 27        |
| 8  | Characterizing the metabolic heterogeneity in human breast cancer xenografts by 3D high resolution fluorescence imaging. SpringerPlus, 2013, 2, 73.  | 1.2 | 26        |
| 9  | Optical redox imaging indices discriminate human breast cancer from normal tissues. Journal of Biomedical Optics, 2016, 21, 114003.  | 2.6 | 25        |
| 10 | Quantitative redox imaging biomarkers for studying tissue metabolic state and its heterogeneity. Journal of Innovative Optical Health Sciences, 2014, 07, 1430002.   | 1.0 | 23        |
| 11 | Imaging heterogeneity in the mitochondrial redox state of premalignant pancreas in the pancreas-specific PTEN-null transgenic mouse model. Biomarker Research, 2013, 1, 6.   | 6.8 | 22        |
| 12 | QUANTITATIVE REDOX SCANNING OF TISSUE SAMPLES USING A CALIBRATION PROCEDURE. Journal of Innovative Optical Health Sciences, 2009, 02, 375-385.   | 1.0 | 21        |
| 13 | Heterogeneity of Mitochondrial Redox State in Premalignant Pancreas in a PTEN Null Transgenic Mouse Model. Advances in Experimental Medicine and Biology, 2011, 701, 207-213.  | 1.6 | 19        |
| 14 | Rapamycin maintains NAD <sup>+</sup> /NADH redox homeostasis in muscle cells. Aging, 2020, 12, 17786-17799.  | 3.1 | 19        |
| 15 | Ratiometric analysis in hyperpolarized NMR (I): test of the two-site exchange model and the quantification of reaction rate constants. NMR in Biomedicine, 2013, 26, 1308-1320.                                      | 2.8 | 18        |
| 16 | Dimethyl Fumarate, an Approved Multiple Sclerosis Treatment, Reduces Brain Oxidative Stress in SIV-Infected Rhesus Macaques: Potential Therapeutic Repurposing for HIV Neuroprotection. Antioxidants, 2021, 10, 416. | 5.1 | 17        |
| 17 | Histological Basis Of Mr/Optical Imaging Of Human Melanoma Mouse Xenografts Spanning A Range Of Metastatic Potentials. Advances in Experimental Medicine and Biology, 2009, 645, 247-253.                            | 1.6 | 17        |
| 18 | Optical Redox Imaging of Lonidamine Treatment Response of Melanoma Cells and Xenografts. Molecular Imaging and Biology, 2019, 21, 426-435.   | 2.6 | 16        |

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|----|--|-----|-----------|
| 19 | Redox Imaging of Human Breast Cancer Core Biopsies. <i>Academic Radiology</i> , 2013, 20, 764-768.   | 2.5 | 15        |
| 20 | REDOX IMAGING OF THE p53-DEPENDENT MITOCHONDRIAL REDOX STATE IN COLON CANCER <i>EX VIVO</i> . <i>Journal of Innovative Optical Health Sciences</i> , 2013, 06, 1350016.  | 1.0 | 15        |
| 21 | FLUORESCENT IMAGES OF MITOCHONDRIAL REDOX STATES <i>IN SITU</i> MOUSE HYPOXIC ISCHEMIC INTESTINES. <i>Journal of Innovative Optical Health Sciences</i> , 2009, 02, 365-374.   | 1.0 | 14        |
| 22 | Optical Redox Imaging of Fixed Unstained Muscle Slides Reveals Useful Biological Information. <i>Molecular Imaging and Biology</i> , 2019, 21, 417-425.  | 2.6 | 14        |
| 23 | Optical Redox Imaging Detects the Effects of DEK Oncogene Knockdown on the Redox State of MDA-MB-231 Breast Cancer Cells. <i>Molecular Imaging and Biology</i> , 2019, 21, 410-416.  | 2.6 | 12        |
| 24 | Characterizing Prostate Tumor Mouse Xenografts with CEST and MT-MRI and Redox Scanning. <i>Advances in Experimental Medicine and Biology</i> , 2013, 765, 39-45.   | 1.6 | 12        |
| 25 | 3D imaging of the mitochondrial redox state of rat hearts under normal and fasting conditions. <i>Journal of Innovative Optical Health Sciences</i> , 2014, 07, 1350045.   | 1.0 | 10        |
| 26 | Sex and SP-A2 Dependent NAD(H) Redox Alterations in Mouse Alveolar Macrophages in Response to Ozone Exposure: Potential Implications for COVID-19. <i>Antioxidants</i> , 2020, 9, 915.   | 5.1 | 10        |
| 27 | Optical Redox Imaging of Treatment Responses to Nampt Inhibition and Combination Therapy in Triple-Negative Breast Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5563.  | 4.1 | 10        |
| 28 | Relationship between Optical Redox Status and Reactive Oxygen Species in Cancer Cells. <i>Reactive Oxygen Species (Apex, N C)</i> , 2020, 9, 95-108.   | 5.4 | 9         |
| 29 | Association of the haem oxygenase-1 gene with inflammatory bowel disease. <i>Swiss Medical Weekly</i> , 2017, 147, w14456.   | 1.6 | 8         |
| 30 | Calibration of redox scanning for tissue samples. , 2009, , .  |     | 7         |
| 31 | Differentiating inflamed and normal lungs by the apparent reaction rate constants of lactate dehydrogenase probed by hyperpolarized ( <sup>13</sup> C) labeled pyruvate. <i>Quantitative Imaging in Medicine and Surgery</i> , 2016, 6, 57-66. | 2.0 | 7         |
| 32 | Mapping the Redox State of CHOP-Treated Non-Hodgkinâ€™s Lymphoma Xenografts in Mice. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 243-249.  | 1.6 | 6         |
| 33 | Optical Redox Imaging Differentiates Triple-Negative Breast Cancer Subtypes. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1269, 253-258.   | 1.6 | 5         |
| 34 | IMAGING REDOX STATE HETEROGENEITY WITHIN INDIVIDUAL EMBRYONIC STEM CELL COLONIES. <i>Journal of Innovative Optical Health Sciences</i> , 2011, 04, 279-288.  | 1.0 | 4         |
| 35 | Two-Photon Autofluorescence Imaging of Fixed Tissues: Feasibility and Potential Values for Biomedical Applications. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1232, 375-381.  | 1.6 | 4         |
| 36 | Magnetization Transfer MRI Contrast May Correlate with Tissue Redox State in Prostate Cancer. <i>Advances in Experimental Medicine and Biology</i> , 2016, 923, 401-406.   | 1.6 | 3         |

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|----|--|-----|-----------|
| 37 | An Observation on Enhanced Extracellular Acidification and Lactate Production Induced by Inhibition of Lactate Dehydrogenase A. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1269, 163-167.                    | 1.6 | 3         |
| 38 | Potential Biomarker for Triple-Negative Breast Cancer Invasiveness by Optical Redox Imaging. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1269, 247-251.   | 1.6 | 3         |
| 39 | Characterizing Breast Cancer Mouse Xenografts with T1 $\rho$ -MRI. <i>Advances in Experimental Medicine and Biology</i> , 2011, 701, 137-142.  | 1.6 | 3         |
| 40 | In Vivo Metabolic Evaluation of Breast Tumor Mouse Xenografts for Predicting Aggressiveness Using the Hyperpolarized <sup>13</sup> C-NMR Technique. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 237-242. | 1.6 | 3         |
| 41 | Calibration of CCD-based redox imaging for biological tissues. , 2009, , .   |     | 2         |
| 42 | Imaging NAD(H) Redox Alterations in Cryopreserved Alveolar Macrophages from Ozone-Exposed Mice and the Impact of Nutrient Starvation during Long Lag Times. <i>Antioxidants</i> , 2021, 10, 767.                               | 5.1 | 2         |
| 43 | Differential Expression of PGC1 $\alpha$ in Intratumor Redox Subpopulations of Breast Cancer. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1072, 177-181.  | 1.6 | 2         |
| 44 | Differentiating cancerous from normal breast tissue by redox imaging. , 2015, , .  |     | 1         |
| 45 | Commemorating Britton Chance. <i>Molecular Imaging and Biology</i> , 2019, 21, 399-400.  | 2.6 | 1         |
| 46 | optical redox imaging of fixed unstained tissue slides to identify biomarkers for breast cancer diagnosis/prognosis: feasibility study. , 2018, 10472, .   |     | 1         |
| 47 | Novel needle redox endoscopy imager for cancer diagnosis. , 2018, 10489, .   |     | 1         |
| 48 | Redox subpopulations and the risk of cancer progression: a new method for characterizing redox heterogeneity. <i>Proceedings of SPIE</i> , 2016, , .   | 0.8 | 0         |
| 49 | Abstract 5293: Redox imaging biomarkers for breast cancer diagnosis/prognosis: a pilot study. , 2015, , .  |     | 0         |
| 50 | Abstract 1501A: Detecting lung metastases by hyperpolarized NMR technique: A pilot study. , 2015, , .  |     | 0         |