

# Tatiana V Esipova

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

1,920  
citations

567281

15  
h-index

794594

19  
g-index

20  
all docs

20  
docs citations

20  
times ranked

3444  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical measurement of microvascular oxygenation and blood flow responses in awake mouse cortex during functional activation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 510-525.	4.3	24
2	Quantification of Oxygen Depletion During FLASH Irradiation In Vitro and In Vivo. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 111, 240-248.	0.8	93
3	Three-Photon Spectroscopy of Porphyrins. <i>Journal of Physical Chemistry A</i> , 2020, 124, 11038-11050.	2.5	9
4	Live-animal imaging of native haematopoietic stem and progenitor cells. <i>Nature</i> , 2020, 578, 278-283.	27.8	171
5	Oxyphor 2P: A High-Performance Probe for Deep-Tissue Longitudinal Oxygen Imaging. <i>Cell Metabolism</i> , 2019, 29, 736-744.e7.	16.2	105
6	Optimized synthesis of luminescent silica nanoparticles by a direct micelle-assisted method. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 2142-2149.	2.9	7
7	More homogeneous capillary flow and oxygenation in deeper cortical layers correlate with increased oxygen extraction. <i>ELife</i> , 2019, 8, .	6.0	68
8	Microbes vs. chemistry in the origin of the anaerobic gut lumen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4170-4175.	7.1	176
9	Two-photon phosphorescence lifetime microscopy of retinal capillary plexus oxygenation in mice. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	6
10	Imaging of cortical oxygen tension and blood flow following targeted photothrombotic stroke. <i>Neurophotonics</i> , 2018, 5, 1.	3.3	24
11	An innovative biologic system for photon-powered myocardium in the ischemic heart. <i>Science Advances</i> , 2017, 3, e1603078.	10.3	88
12	Maquette Strategy for Creation of Light- and Redox-Active Proteins. , 2017, , 1-33.		3
13	Design and engineering of water-soluble light-harvesting protein maquettes. <i>Chemical Science</i> , 2017, 8, 316-324.	7.4	38
14	The PI3K/Akt Pathway Regulates Oxygen Metabolism via Pyruvate Dehydrogenase (PDH)-E1 $\alpha$ Phosphorylation. <i>Molecular Cancer Therapeutics</i> , 2015, 14, 1928-1938.	4.1	54
15	Cherenkov excited phosphorescence-based pO <sub>2</sub> estimation during multi-beam radiation therapy: phantom and simulation studies. <i>Physics in Medicine and Biology</i> , 2014, 59, 5317-5328.	3.0	27
16	Correlation Between Intraluminal Oxygen Gradient and Radial Partitioning of Intestinal Microbiota. <i>Gastroenterology</i> , 2014, 147, 1055-1063.e8.	1.3	658
17	Synthesis of Phosphorescent Asymmetrically $\beta$ -Extended Porphyrins for Two-Photon Applications. <i>Journal of Organic Chemistry</i> , 2014, 79, 8812-8825.	3.2	46
18	Oxygen tomography by $\beta$ -Cherenkov-excited phosphorescence during external beam irradiation. <i>Journal of Biomedical Optics</i> , 2013, 18, 050503.	2.6	34

#	ARTICLE	IF	CITATIONS
19	Dendritic upconverting nanoparticles enable in vivo multiphoton microscopy with low-power continuous wave sources. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20826-20831.	7.1	88
20	Two New "Protected" Oxyphors for Biological Oximetry: Properties and Application in Tumor Imaging. <i>Analytical Chemistry</i> , 2011, 83, 8756-8765.	6.5	201