

# Maria M Lukina

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

673  
citations

516710

16  
h-index

580821

25  
g-index

44  
all docs

44  
docs citations

44  
times ranked

970  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intracellular pH imaging in cancer cells in vitro and tumors in vivo using the new genetically encoded sensor SypHer2. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 1905-1911.	2.4	92
2	Chemotherapy with cisplatin: insights into intracellular pH and metabolic landscape of cancer cells in vitro and in vivo. <i>Scientific Reports</i> , 2017, 7, 8911.	3.3	72
3	Relationship between intracellular pH, metabolic co-factors and caspase-3 activation in cancer cells during apoptosis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 604-611.	4.1	66
4	Metabolic cofactors NAD(P)H and FAD as potential indicators of cancer cell response to chemotherapy with paclitaxel. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1693-1700.	2.4	42
5	The metabolic interaction of cancer cells and fibroblasts – coupling between NAD(P)H and FAD, intracellular pH and hydrogen peroxide. <i>Cell Cycle</i> , 2016, 15, 1257-1266.	2.6	35
6	Label-free sensing of cells with fluorescence lifetime imaging: The quest for metabolic heterogeneity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	35
7	Water-soluble cyclometalated platinum(II) and iridium(III) complexes: synthesis, tuning of the photophysical properties, and <i>in vitro</i> and <i>in vivo</i> phosphorescence lifetime imaging. <i>RSC Advances</i> , 2018, 8, 17224-17236.	3.6	28
8	Interrogation of metabolic and oxygen states of tumors with fiber-based luminescence lifetime spectroscopy. <i>Optics Letters</i> , 2017, 42, 731.	3.3	26
9	In vivo metabolic and SHG imaging for monitoring of tumor response to chemotherapy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2019, 95, 47-55.	1.5	26
10	Interrogation of tumor metabolism in tissue samples <i>ex vivo</i> using fluorescence lifetime imaging of NAD(P)H. <i>Methods and Applications in Fluorescence</i> , 2020, 8, 014002.	2.3	25
11	Label-Free Macroscopic Fluorescence Lifetime Imaging of Brain Tumors. <i>Frontiers in Oncology</i> , 2021, 11, 666059.	2.8	23
12	A biocompatible phosphorescent Ir(III) oxygen sensor functionalized with oligo(ethylene) Tj ETQqO O O rgBT /Overlock 10 T Chemistry, 2020, 44, 10459-10471.	2.8	22
13	Mapping cisplatin-induced viscosity alterations in cancer cells using molecular rotor and fluorescence lifetime imaging microscopy. <i>Journal of Biomedical Optics</i> , 2020, 25, .	2.6	22
14	Metabolic Imaging in the Study of Oncological Processes (Review). <i>Sovremennyye Tehnologii V Medicine</i> , 2016, 8, 113-126.	1.1	20
15	Biocompatible Ir(III) Complexes as Oxygen Sensors for Phosphorescence Lifetime Imaging. <i>Molecules</i> , 2021, 26, 2898.	3.8	18
16	The Role of Plasma Membrane Viscosity in the Response and Resistance of Cancer Cells to Oxaliplatin. <i>Cancers</i> , 2021, 13, 6165.	3.7	18
17	Multimodal label-free imaging of living dermal equivalents including dermal papilla cells. <i>Stem Cell Research and Therapy</i> , 2018, 9, 84.	5.5	16
18	Expression of EMT-Related Genes in Hybrid E/M Colorectal Cancer Cells Determines Fibroblast Activation and Collagen Remodeling. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8119.	4.1	15

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19	Examination of Collagen Structure and State by the Second Harmonic Generation Microscopy. <i>Biochemistry (Moscow)</i> , 2019, 84, 89-107.	1.5	14
20	Live Cell Imaging of Viscosity in 3D Tumour Cell Models. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1035, 143-153.	1.6	10
21	Effects of Irinotecan on Tumor Vasculature and Oxygenation: An <i>in vivo</i> Study on Colorectal Cancer Model. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-8.	2.9	9
22	Fluorescence lifetime-based pH mapping of tumors <i>in vivo</i> using genetically encoded sensor SypHerRed. <i>Biophysical Journal</i> , 2022, 121, 1156-1165.	0.5	7
23	Tracing of intracellular pH in cancer cells in response to Taxol treatment. <i>Cell Cycle</i> , 2021, 20, 1540-1551.	2.6	5
24	Red Light-Emitting Water-Soluble Luminescent Iridium-Containing Polynorbornenes: Synthesis, Characterization and Oxygen Sensing Properties in Biological Tissues <i>In Vivo</i> . <i>Molecules</i> , 2021, 26, 6349.	3.8	4
25	Probing Metabolism and Viscosity of Cancer Cells using Fluorescence Lifetime Imaging Microscopy. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	3
26	PDT with genetically encoded photosensitizer miniSOG on a tumor spheroid model: A comparative study of continuous-wave and pulsed irradiation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129978.	2.4	3
27	Interrogation of glioma metabolism on macroscale by FLIM. , 2019, , .		3
28	Exploring Tumor Metabolism with Time-Resolved Fluorescence Methods: from Single Cells to a Whole Tumor. , 2020, , 133-155.		3
29	<i>In vivo</i> metabolic imaging of mouse tumor models in response to chemotherapy. , 2017, , .		2
30	10 Metabolic shifts in cell proliferation and differentiation. , 2018, , 189-208.		2
31	Probing energy metabolism and microviscosity in cancer using FLIM. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
32	Characterization of Collagen Structure by SHG in Tumor Models <i>In-vitro</i> . , 2018, , .		1
33	Metabolic imaging of tumor for diagnosis and response for therapy. , 2018, , .		1
34	Insight into microenvironment of tumor on the microscopic level with a focus on cancer-associated fibroblasts. , 2018, , .		1
35	Registration of intracellular pH in cancer cells with genetically encoded ratiometric sensor. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
36	Analysis of energy metabolism of HeLa cancer cells <i>in vitro</i> and <i>in vivo</i> using fluorescence lifetime microscopy. , 2016, , .		0

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37	Genetically encoded sensors and fluorescence microscopy for anticancer research. , 2017, , .		0
38	Fiber-based time-resolved fluorescence and phosphorescence spectroscopy of tumors. , 2017, , .		0
39	Abstract B01: The metabolic adaptations during cancer-stroma co-evolution: The intracellular pH, NAD(P)H changes and hydrogen peroxide production in cancer cells. , 2016, , .		0
40	Time Resolved Imaging for Tumor Diagnosis and Detection of Chemotherapy Response. , 2018, , .		0
41	Functional Imaging and Treatment of Tumors with New Fluorescent Proteins. , 2019, , .		0
42	Probing chemosensitivity and energy metabolism in patients-derived colorectal cancer cells. , 2019, , .		0
43	Molecular oxygen mapping in biological samples by time-correlated single photon counting technique and Ir(III)-based complexes. , 2020, , .		0