Maria M Lukina

List of Publications by Year
in descending order

43	673	516710 16	580821 25
papers	citations	h-index	g-index

44	44	44	970
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Label-free sensing of cells with fluorescence lifetime imaging: The quest for metabolic heterogeneity. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	35
2	Fluorescence lifetime-based pH mapping of tumors inÂvivo using genetically encoded sensor SypHerRed. Biophysical Journal, 2022, 121, 1156-1165.	0.5	7
3	Biocompatible Ir(III) Complexes as Oxygen Sensors for Phosphorescence Lifetime Imaging. Molecules, 2021, 26, 2898.	3.8	18
4	Label-Free Macroscopic Fluorescence Lifetime Imaging of Brain Tumors. Frontiers in Oncology, 2021, 11, 666059.	2.8	23
5	Effects of Irinotecan on Tumor Vasculature and Oxygenation: An in vivo Study on Colorectal Cancer Model. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	2.9	9
6	Probing Metabolism and Viscosity of Cancer Cells using Fluorescence Lifetime Imaging Microscopy. Journal of Visualized Experiments, 2021, , .	0.3	3
7	Tracing of intracellular pH in cancer cells in response to Taxol treatment. Cell Cycle, 2021, 20, 1540-1551.	2.6	5
8	PDT with genetically encoded photosensitizer miniSOG on a tumor spheroid model: A comparative study of continuous-wave and pulsed irradiation. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129978.	2.4	3
9	Red Light-Emitting Water-Soluble Luminescent Iridium-Containing Polynorbornenes: Synthesis, Characterization and Oxygen Sensing Properties in Biological Tissues In Vivo. Molecules, 2021, 26, 6349.	3.8	4
10	The Role of Plasma Membrane Viscosity in the Response and Resistance of Cancer Cells to Oxaliplatin. Cancers, 2021, 13, 6165.	3.7	18
11	Interrogation of tumor metabolism in tissue samplesex vivousing fluorescence lifetime imaging of NAD(P)H. Methods and Applications in Fluorescence, 2020, 8, 014002.	2.3	25
12	Expression of EMT-Related Genes in Hybrid E/M Colorectal Cancer Cells Determines Fibroblast Activation and Collagen Remodeling. International Journal of Molecular Sciences, 2020, 21, 8119.	4.1	15
13	A biocompatible phosphorescent Ir(<scp>iii</scp>) oxygen sensor functionalized with oligo(ethylene) Tj ETQq1 1 0.784314 rgBT /Ove Chemistry, 2020, 44, 10459-10471.	2.8	22
14	Mapping cisplatin-induced viscosity alterations in cancer cells using molecular rotor and fluorescence lifetime imaging microscopy. Journal of Biomedical Optics, 2020, 25, .	2.6	22
15	Exploring Tumor Metabolism with Time-Resolved Fluorescence Methods: from Single Cells to a Whole Tumor. , 2020, , 133-155.		3
16	Molecular oxygen mapping in biological samples by time-correlated single photon counting technique and Ir(III)-based complexes. , 2020, , .		0
17	Examination of Collagen Structure and State by the Second Harmonic Generation Microscopy. Biochemistry (Moscow), 2019, 84, 89-107.	1.5	14
18	In vivo metabolic and SHG imaging for monitoring of tumor response to chemotherapy. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2019, 95, 47-55.	1.5	26

#	Article	IF	Citations
19	Interrogation of glioma metabolism on macroscale by FLIM. , 2019, , .		3
20	Functional Imaging and Treatment of Tumors with New Fluorescent Proteins. , 2019, , .		0
21	Probing chemosensitivity and energy metabolism in patients-derived colorectal cancer cells. , 2019, , .		0
22	10 Metabolic shifts in cell proliferation and differentiation. , 2018, , 189-208.		2
23	Multimodal label-free imaging of living dermal equivalents including dermal papilla cells. Stem Cell Research and Therapy, 2018, 9, 84.	5.5	16
24	Metabolic cofactors NAD(P)H and FAD as potential indicators of cancer cell response to chemotherapy with paclitaxel. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1693-1700.	2.4	42
25	Water-soluble cyclometalated platinum(<scp>ii</scp>) and iridium(<scp>iii</scp>) complexes: synthesis, tuning of the photophysical properties, and in vitro and in vivo phosphorescence lifetime imaging. RSC Advances, 2018, 8, 17224-17236.	3.6	28
26	Characterization of Collagen Structure by SHG in Tumor Models In-vitro. , 2018, , .		1
27	Time Resolved Imaging for Tumor Diagnosis and Detection of Chemotherapy Response. , 2018, , .		0
28	Metabolic imaging of tumor for diagnosis and response for therapy. , 2018, , .		1
29	Insight into microenvironment of tumor on the microscopic level with a focus on cancer-associated fibroblasts. , 2018, , .		1
30	Relationship between intracellular pH, metabolic co-factors and caspase-3 activation in cancer cells during apoptosis. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 604-611.	4.1	66
31	In vivo metabolic imaging of mouse tumor models in response to chemotherapy. , 2017, , .		2
32	Genetically encoded sensors and fluorescence microscopy for anticancer research. , 2017, , .		0
33	Live Cell Imaging of Viscosity in 3D Tumour Cell Models. Advances in Experimental Medicine and Biology, 2017, 1035, 143-153.	1.6	10
34	Chemotherapy with cisplatin: insights into intracellular pH and metabolic landscape of cancer cells in vitro and in vivo. Scientific Reports, 2017, 7, 8911.	3.3	72
35	Probing energy metabolism and microviscosity in cancer using FLIM. Proceedings of SPIE, 2017, , .	0.8	1
36	Fiber-based time-resolved fluorescence and phosphorescence spectroscopy of tumors. , 2017, , .		0

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37	Interrogation of metabolic and oxygen states of tumors with fiber-based luminescence lifetime spectroscopy. Optics Letters, 2017, 42, 731.	3.3	26
38	Analysis of energy metabolism of HeLa cancer cells in vitro and in vivo using fluorescence lifetime microscopy. , 2016, , .		0
39	The metabolic interaction of cancer cells and fibroblasts â€“ coupling between NAD(P)H and FAD, intracellular pH and hydrogen peroxide. Cell Cycle, 2016, 15, 1257-1266.	2.6	35
40	Metabolic Imaging in the Study of Oncological Processes (Review). Sovremennye Tehnologii V Medicine, 2016, 8, 113-126.	1.1	20
41	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
42	Registration of intracellular pH in cancer cells with genetically encoded ratiometric sensor. Proceedings of SPIE, 2015, , .	0.8	0
43	Intracellular pH imaging in cancer cells in vitro and tumors in vivo using the new genetically encoded sensor SypHer2. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 1905-1911.	2.4	92