

# Ekaterina I Galanzha

## List of Publications by Year in descending order

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81  
papers

5,906  
citations

81900

39  
h-index

74163

75  
g-index

84  
all docs

84  
docs citations

84  
times ranked

6222  
citing authors

#	ARTICLE	IF	CITATIONS
1	Golden carbon nanotubes as multimodal photoacoustic and photothermal high-contrast molecular agents. <i>Nature Nanotechnology</i> , 2009, 4, 688-694.	31.5	656
2	In vivo magnetic enrichment and multiplex photoacoustic detection of circulating tumour cells. <i>Nature Nanotechnology</i> , 2009, 4, 855-860.	31.5	544
3	Complex genetic, photothermal, and photoacoustic analysis of nanoparticle-plant interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1028-1033.	7.1	458
4	In vivo, Noninvasive, Label-Free Detection and Eradication of Circulating Metastatic Melanoma Cells Using Two-Color Photoacoustic Flow Cytometry with a Diode Laser. <i>Cancer Research</i> , 2009, 69, 7926-7934.	0.9	241
5	In vivo photoacoustic flow cytometry for monitoring of circulating single cancer cells and contrast agents. <i>Optics Letters</i> , 2006, 31, 3623.	3.3	211
6	Circulating tumor cell identification by functionalized silver-gold nanorods with multicolor, super-enhanced SERS and photothermal resonances. <i>Scientific Reports</i> , 2014, 4, 4752.	3.3	172
7	Spaser as a biological probe. <i>Nature Communications</i> , 2017, 8, 15528.	12.8	164
8	Photoacoustic flow cytometry: principle and application for real-time detection of circulating single nanoparticles, pathogens, and contrast dyes in vivo. <i>Journal of Biomedical Optics</i> , 2007, 12, 051503.	2.6	151
9	Quantum Dots as Multimodal Photoacoustic and Photothermal Contrast Agents. <i>Nano Letters</i> , 2008, 8, 3953-3958.	9.1	141
10	Synergistic Photothermal and Antibiotic Killing of Biofilm-Associated <i>Staphylococcus aureus</i> Using Targeted Antibiotic-Loaded Gold Nanoconstructs. <i>ACS Infectious Diseases</i> , 2016, 2, 241-250.	3.8	139
11	Photothermal antimicrobial nanotherapy and nanodiagnostics with self-assembling carbon nanotube clusters. <i>Lasers in Surgery and Medicine</i> , 2007, 39, 622-634.	2.1	133
12	Photoacoustic flow cytometry. <i>Methods</i> , 2012, 57, 280-296.	3.8	128
13	Nanotechnology-based molecular photoacoustic and photothermal flow cytometry platform for in vivo detection and killing of circulating cancer stem cells. <i>Journal of Biophotonics</i> , 2009, 2, 725-735.	2.3	126
14	Photothermal nanodrugs: potential of TNF-gold nanospheres for cancer theranostics. <i>Scientific Reports</i> , 2013, 3, 1293.	3.3	121
15	Super-Resolution Nonlinear Photothermal Microscopy. <i>Small</i> , 2014, 10, 135-142.	10.0	114
16	In vivo multispectral, multiparameter, photoacoustic lymph flow cytometry with natural cell focusing, label-free detection and multicolor nanoparticle probes. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2008, 73A, 884-894.	1.5	113
17	Advanced contrast nanoagents for photoacoustic molecular imaging, cytometry, blood test and photothermal theranostics. <i>Contrast Media and Molecular Imaging</i> , 2011, 6, 346-369.	0.8	111
18	Circulating Tumor Cell Detection and Capture by Photoacoustic Flow Cytometry in Vivo and ex Vivo. <i>Cancers</i> , 2013, 5, 1691-1738.	3.7	109

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19	In vivo liquid biopsy using Cytophone platform for photoacoustic detection of circulating tumor cells in patients with melanoma. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	108
20	<i>In vivo</i> fiber-based multicolor photoacoustic detection and photothermal purging of metastasis in sentinel lymph nodes targeted by nanoparticles. <i>Journal of Biophotonics</i> , 2009, 2, 528-539.	2.3	107
21	In Vivo Magnetic Enrichment, Photoacoustic Diagnosis, and Photothermal Purging of Infected Blood Using Multifunctional Gold and Magnetic Nanoparticles. <i>PLoS ONE</i> , 2012, 7, e45557.	2.5	78
22	Real-time monitoring of circulating tumor cell release during tumor manipulation using in vivo photoacoustic and fluorescent flow cytometry. <i>Head and Neck</i> , 2014, 36, 1207-1215.	2.0	77
23	Photothermal image flow cytometry in vivo. <i>Optics Letters</i> , 2005, 30, 628.	3.3	70
24	In vivo photothermal flow cytometry: Imaging and detection of individual cells in blood and lymph flow. <i>Journal of Cellular Biochemistry</i> , 2006, 97, 916-932.	2.6	66
25	Photoacoustic and photothermal detection of circulating tumor cells, bacteria and nanoparticles in cerebrospinal fluid <i>in vivo</i> and <i>ex vivo</i> . <i>Journal of Biophotonics</i> , 2013, 6, 523-533.	2.3	64
26	In vivo ultra-fast photoacoustic flow cytometry of circulating human melanoma cells using near-infrared high-pulse rate lasers. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2011, 79A, 825-833.	1.5	63
27	Synergy of photoacoustic and fluorescence flow cytometry of circulating cells with negative and positive contrasts. <i>Journal of Biophotonics</i> , 2013, 6, 425-434.	2.3	62
28	Photothermal Confocal Spectromicroscopy of Multiple Cellular Chromophores and Fluorophores. <i>Biophysical Journal</i> , 2012, 102, 672-681.	0.5	61
29	In vivo photoacoustic flow cytometry for early malaria diagnosis. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2016, 89, 531-542.	1.5	61
30	Nanotheranostics of Circulating Tumor Cells, Infections and Other Pathological Features <i>in Vivo</i> . <i>Molecular Pharmaceutics</i> , 2013, 10, 813-830.	4.6	59
31	Optical clearing in photoacoustic flow cytometry. <i>Biomedical Optics Express</i> , 2013, 4, 3030.	2.9	57
32	Ultra-fast photoacoustic flow cytometry with a 05 MHz pulse repetition rate nanosecond laser. <i>Optics Express</i> , 2010, 18, 8605.	3.4	52
33	Ultrasensitive label-free photothermal imaging, spectral identification, and quantification of cytochrome <i>c</i> in mitochondria, live cells, and solutions. <i>Journal of Biophotonics</i> , 2010, 3, 791-806.	2.3	51
34	Advances in small animal mesentery models for in vivo flow cytometry, dynamic microscopy, and drug screening. <i>World Journal of Gastroenterology</i> , 2007, 13, 192.	3.3	51
35	In vivo Raman flow cytometry for real-time detection of carbon nanotube kinetics in lymph, blood, and tissues. <i>Journal of Biomedical Optics</i> , 2009, 14, 021006.	2.6	50
36	In Vivo Photoswitchable Flow Cytometry for Direct Tracking of Single Circulating Tumor Cells. <i>Chemistry and Biology</i> , 2014, 21, 792-801.	6.0	45

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37	In vivo flow cytometry of circulating clots using negative photothermal and photoacoustic contrasts. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2011, 79A, 814-824.	1.5	44
38	In vivo acoustic and photoacoustic focusing of circulating cells. <i>Scientific Reports</i> , 2016, 6, 21531.	3.3	42
39	Photothermal multispectral image cytometry for quantitative histology of nanoparticles and micrometastasis in intact, stained and selectively burned tissues. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2010, 77A, 1049-1058.	1.5	41
40	Preclinical photoacoustic models: application for ultrasensitive single cell malaria diagnosis in large vein and artery. <i>Biomedical Optics Express</i> , 2016, 7, 3643.	2.9	40
41	In vivo high-speed imaging of individual cells in fast blood flow. <i>Journal of Biomedical Optics</i> , 2006, 11, 054034.	2.6	39
42	In vivo photoacoustic and photothermal cytometry for monitoring multiple blood rheology parameters. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2011, 79A, 746-757.	1.5	39
43	Dynamic Fluctuation of Circulating Tumor Cells during Cancer Progression. <i>Cancers</i> , 2014, 6, 128-142.	3.7	39
44	Integrated photothermal flow cytometry in vivo. <i>Journal of Biomedical Optics</i> , 2005, 10, 051502.	2.6	34
45	In vivo multispectral photoacoustic and photothermal flow cytometry with multicolor dyes: A potential for real-time assessment of circulation, dye-cell interaction, and blood volume. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2011, 79A, 834-847.	1.5	34
46	In vivo integrated flow image cytometry and lymph/blood vessels dynamic microscopy. <i>Journal of Biomedical Optics</i> , 2005, 10, 054018.	2.6	33
47	Photothermal flow cytometry in vitro for detection and imaging of individual moving cells. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2007, 71A, 191-206.	1.5	32
48	Current status, pitfalls and future directions in the diagnosis and therapy of lymphatic malformation. <i>Journal of Biophotonics</i> , 2018, 11, e201700124.	2.3	31
49	Bioinspired magnetic nanoparticles as multimodal photoacoustic, photothermal and photomechanical contrast agents. <i>Scientific Reports</i> , 2019, 9, 887.	3.3	31
50	Amplification of photoacoustic effect in bimodal polymer particles by self-quenching of indocyanine green. <i>Biomedical Optics Express</i> , 2019, 10, 4775.	2.9	28
51	In Vivo Long-Term Monitoring of Circulating Tumor Cells Fluctuation during Medical Interventions. <i>PLoS ONE</i> , 2015, 10, e0137613.	2.5	28
52	Photothermal imaging of moving cells in lymph and blood flow in vivo. , 2004, , .		27
53	Real-Time Label-Free Embolus Detection Using In Vivo Photoacoustic Flow Cytometry. <i>PLoS ONE</i> , 2016, 11, e0156269.	2.5	25
54	Photoacoustic and photothermal cytometry using photoswitchable proteins and nanoparticles with ultrasharp resonances. <i>Journal of Biophotonics</i> , 2015, 8, 81-93.	2.3	24

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55	Photothermal and photoacoustic Raman cytometry in vitro and in vivo. <i>Optics Express</i> , 2010, 18, 6929.	3.4	23
56	New Frontiers in Diagnosis and Therapy of Circulating Tumor Markers in Cerebrospinal Fluid In Vitro and In Vivo. <i>Cells</i> , 2019, 8, 1195.	4.1	23
57	In VivoFlow Cytometry of Circulating Tumor-Associated Exosomes. <i>Analytical Cellular Pathology</i> , 2016, 2016, 1-12.	1.4	20
58	Blood-flow measurements with a small number of scattering events. <i>Applied Optics</i> , 2000, 39, 2823.	2.1	19
59	Doxorubicin Activates Ryanodine Receptors in Rat Lymphatic Muscle Cells to Attenuate Rhythmic Contractions and Lymph Flow. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 371, 278-289.	2.5	19
60	Detection of Apoptotic Circulating Tumor Cells Using in vivo Fluorescence Flow Cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2019, 95, 664-671.	1.5	19
61	Optical clearing for photoacoustic lympho- and angiography beyond conventional depth limit in vivo. <i>Photoacoustics</i> , 2020, 20, 100186.	7.8	19
62	Noninvasive label-free detection of circulating white and red blood clots in deep vessels with a focused photoacoustic probe. <i>Biomedical Optics Express</i> , 2018, 9, 5667.	2.9	17
63	Photoswitchable non-fluorescent thermochromic dye-nanoparticle hybrid probes. <i>Scientific Reports</i> , 2016, 6, 36417.	3.3	16
64	Photoacoustic and fluorescent effects in multilayer plasmon-dye interfaces. <i>Journal of Biophotonics</i> , 2019, 12, e201800265.	2.3	16
65	Photothermal confocal multicolor microscopy of nanoparticles and nanodrugs in live cells. <i>Drug Metabolism Reviews</i> , 2015, 47, 346-355.	3.6	13
66	Indocyanine green dye based bimodal contrast agent tested by photoacoustic/fluorescence tomography setup. <i>Biomedical Optics Express</i> , 2021, 12, 3181.	2.9	11
67	High-speed microscopy for in vivo monitoring of lymph dynamics. <i>Journal of Biophotonics</i> , 2018, 11, e201700126.	2.3	10
68	Detection of Melanoma Cells in Whole Blood Samples Using Spectral Imaging and Optical Clearing. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-11.	2.9	10
69	Monitoring of nicotine impact in microlymphatics of rat mesentery with time-resolved microscopy. <i>Lymphology</i> , 2005, 38, 181-92.	0.2	8
70	In Vivo Lymphatic Circulating Tumor Cells and Progression of Metastatic Disease. <i>Cancers</i> , 2020, 12, 2866.	3.7	7
71	Blood and lymph circulating cells: well-known systems, well-forgotten interdependence. <i>Journal of Blood &amp; Lymph</i> , 2011, 01, .	0.0	6
72	Lymph Liquid Biopsy for Detection of Cancer Stem Cells. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2021, 99, 496-502.	1.5	4

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73	<i>In vivo</i> detection of circulating tumor cells during tumor manipulation. Proceedings of SPIE, 2013, , .	0.8	3
74	Biophotonics for lymphatic theranostics in animals and humans. Journal of Biophotonics, 2018, 11, e201811001.	2.3	3
75	Photoswitchable Spasers with a Plasmonic Core and Photoswitchable Fluorescent Proteins. Scientific Reports, 2019, 9, 12439.	3.3	3
76	Photoacoustic monitoring of circulating tumor cells released during medical procedures. , 2013, , .		2
77	Circulating Tumor Cells as Predictive Marker in Metastatic Disease. , 2017, , 109-122.		2
78	Synergy of photoacoustic and fluorescence flow cytometry of circulating cells with negative and positive contrasts. , 2013, 6, 425.		1
79	In Vivo Photoacoustic Detection of Circulating Cells and Nanoparticles. Frontiers in Nanobiomedical Research, 2014, , 453-487.	0.1	0
80	Photoswitchable dye-nanoparticle probes with photothermal switching of light-dark states and colors (Withdrawal Notice). , 2017, , .		0
81	Corrections to "Detection of Melanoma Cells in Whole Blood Samples Using Spectral Imaging and Optical Clearing" [Jul/Aug 21 Art. no. 7200711]. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-1.	2.9	0