Vladimir P Zharov

List of Publications by Citations

176 papers	8,265 citations	46 h-index	87 g-index
200 ext. papers	9,123 ext. citations	5 avg, IF	6 L-index

#	Paper	IF	Citations
176	Golden carbon nanotubes as multimodal photoacoustic and photothermal high-contrast molecular agents. *Nature Nanotechnology*, **2009**, 4, 688-94	28.7	592
175	In vivo magnetic enrichment and multiplex photoacoustic detection of circulating tumour cells. *Nature Nanotechnology*, **2009**, 4, 855-60	28.7	484
174	Photothermal nanotherapeutics and nanodiagnostics for selective killing of bacteria targeted with gold nanoparticles. *Biophysical Journal*, **2006**, 90, 619-27	2.9	453
173	Complex genetic, photothermal, and photoacoustic analysis of nanoparticle-plant interactions. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 1028-33	11.5	369
172	Optical amplification of photothermal therapy with gold nanoparticles and nanoclusters. *Nanotechnology*, **2006**, 17, 5167-5179	3.4	314
171	Synergistic enhancement of selective nanophotothermolysis with gold nanoclusters: potential for cancer therapy. *Lasers in Surgery and Medicine*, **2005**, 37, 219-26	3.6	268
170	Covalently linked Au nanoparticles to a viral vector: potential for combined photothermal and gene cancer therapy. *Nano Letters*, **2006**, 6, 587-91	11.5	227
169	In vivo, noninvasive, label-free detection and eradication of circulating metastatic melanoma cells using two-color photoacoustic flow cytometry with a diode laser. *Cancer Research*, **2009**, 69, 7926-34	10.1	201
168	Self-assembling nanoclusters in living systems: application for integrated photothermal nanodiagnostics and nanotherapy. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2005**, 1, 326-45	6	182
167	Photothermal detection of local thermal effects during selective nanophotothermolysis. *Applied Physics Letters*, **2003**, 83, 4897-4899	3.4	177
166	In vivo photoacoustic flow cytometry for monitoring of circulating single cancer cells and contrast agents. *Optics Letters*, **2006**, 31, 3623-5	3	172
165	Circulating tumor cell identification by functionalized silver-gold nanorods with multicolor, super-enhanced SERS and photothermal resonances. *Scientific Reports*, **2014**, 4, 4752	4.9	151
164	Laser-induced explosion of gold nanoparticles: potential role for nanophotothermolysis of cancer. *Nanomedicine*, **2006**, 1, 473-80	5.6	145
163	Ultrasharp nonlinear photothermal and photoacoustic resonances and holes beyond the spectral limit. *Nature Photonics*, **2011**, 5, 110-116	33.9	131
162	Quantum dots as multimodal photoacoustic and photothermal contrast agents. *Nano Letters*, **2008**, 8, 3953-8	11.5	126
161	Spaser as a biological probe. *Nature Communications*, **2017**, 8, 15528	17.4	121
160	Photoacoustic flow cytometry: principle and application for real-time detection of circulating single nanoparticles, pathogens, and contrast dyes in vivo. *Journal of Biomedical Optics*, **2007**, 12, 051503	3.5	120

159	Photothermal antimicrobial nanotherapy and nanodiagnostics with self-assembling carbon nanotube clusters. *Lasers in Surgery and Medicine*, **2007**, 39, 622-34	3.6	114
158	Laser Optoacoustic Spectroscopy. *Springer Series in Optical Sciences*, **1986**,	0.5	113
157	Nanotechnology-based molecular photoacoustic and photothermal flow cytometry platform for in-vivo detection and killing of circulating cancer stem cells. *Journal of Biophotonics*, **2009**, 2, 725-35	3.1	107
156	Synergistic Photothermal and Antibiotic Killing of Biofilm-Associated Using Targeted Antibiotic-Loaded Gold Nanoconstructs. *ACS Infectious Diseases*, **2016**, 2, 241-250	5.5	106
155	Photothermal nanodrugs: potential of TNF-gold nanospheres for cancer theranostics. *Scientific Reports*, **2013**, 3, 1293	4.9	104
154	Photoacoustic flow cytometry. *Methods*, **2012**, 57, 280-96	4.6	98
153	In vivo multispectral, multiparameter, photoacoustic lymph flow cytometry with natural cell focusing, label-free detection and multicolor nanoparticle probes. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2008**, 73, 884-94	4.6	95
152	Absorption and scattering of light by a dimer of metal nanospheres: comparison of dipole and multipole approaches. *Nanotechnology*, **2006**, 17, 1437-1445	3.4	95
151	In vivo flow cytometry: a horizon of opportunities. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2011**, 79, 737-45	4.6	94
150	Infrared imaging of subcutaneous veins. *Lasers in Surgery and Medicine*, **2004**, 34, 56-61	3.6	93
149	Super-resolution nonlinear photothermal microscopy. *Small*, **2014**, 10, 135-42	11	92
148	In vivo fiber-based multicolor photoacoustic detection and photothermal purging of metastasis in sentinel lymph nodes targeted by nanoparticles. *Journal of Biophotonics*, **2009**, 2, 528-39	3.1	92
147	Advanced contrast nanoagents for photoacoustic molecular imaging, cytometry, blood test and photothermal theranostics. *Contrast Media and Molecular Imaging*, **2011**, 6, 346-69	3.2	91
146	Circulating Tumor Cell Detection and Capture by Photoacoustic Flow Cytometry in Vivo and ex Vivo. *Cancers*, **2013**, 5, 1691-738	6.6	83
145	Cobalt nanoparticles coated with graphitic shells as localized radio frequency absorbers for cancer therapy. *Nanotechnology*, **2008**, 19, 435102	3.4	81
144	In vivo liquid biopsy using Cytophone platform for photoacoustic detection of circulating tumor cells in patients with melanoma. *Science Translational Medicine*, **2019**, 11,	17.5	69
143	In vivo magnetic enrichment, photoacoustic diagnosis, and photothermal purging of infected blood using multifunctional gold and magnetic nanoparticles. *PLoS ONE*, **2012**, 7, e45557	3.7	64
142	Spectral evaluation of laser-induced cell damage with photothermal microscopy. *Lasers in Surgery and Medicine*, **2005**, 36, 22-30	3.6	63

141	Synergistic enhancement of cancer therapy using a combination of carbon nanotubes and anti-tumor drug. *Nanomedicine*, **2009**, 4, 883-93	5.6	62
140	Photothermal image flow cytometry in vivo. *Optics Letters*, **2005**, 30, 628-30	3	61
139	Gold nanoshell photomodification under a single-nanosecond laser pulse accompanied by color-shifting and bubble formation phenomena. *Nanotechnology*, **2008**, 19, 015701	3.4	58
138	Real-time monitoring of circulating tumor cell release during tumor manipulation using in vivo photoacoustic and fluorescent flow cytometry. *Head and Neck*, **2014**, 36, 1207-15	4.2	57
137	In vivo photothermal flow cytometry: imaging and detection of individual cells in blood and lymph flow. *Journal of Cellular Biochemistry*, **2006**, 97, 916-32	4.7	51
136	Optical clearing in photoacoustic flow cytometry. *Biomedical Optics Express*, **2013**, 4, 3030-41	3.5	50
135	In vivo Raman flow cytometry for real-time detection of carbon nanotube kinetics in lymph, blood, and tissues. *Journal of Biomedical Optics*, **2009**, 14, 021006	3.5	48
134	Photothermal confocal spectromicroscopy of multiple cellular chromophores and fluorophores. *Biophysical Journal*, **2012**, 102, 672-81	2.9	47
133	Nanotheranostics of circulating tumor cells, infections and other pathological features in vivo. *Molecular Pharmaceutics*, **2013**, 10, 813-30	5.6	47
132	Synergy of photoacoustic and fluorescence flow cytometry of circulating cells with negative and positive contrasts. *Journal of Biophotonics*, **2013**, 6, 425-34	3.1	47
131	In vivo ultra-fast photoacoustic flow cytometry of circulating human melanoma cells using near-infrared high-pulse rate lasers. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2011**, 79, 825-33	4.6	46
130	In vivo photoacoustic flow cytometry for early malaria diagnosis. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2016**, 89, 531-42	4.6	43
129	Ultra-fast photoacoustic flow cytometry with a 0.5 MHz pulse repetition rate nanosecond laser. *Optics Express*, **2010**, 18, 8605-20	3.3	42
128	Photothermal time-resolved imaging of living cells. *Lasers in Surgery and Medicine*, **2002**, 31, 53-63	3.6	42
127	Advances in small animal mesentery models for in vivo flow cytometry, dynamic microscopy, and drug screening. *World Journal of Gastroenterology*, **2007**, 13, 192-218	5.6	42
126	Nanophotothermolysis of multiple scattered cancer cells with carbon nanotubes guided by time-resolved infrared thermal imaging. *Journal of Biomedical Optics*, **2009**, 14, 021007	3.5	40
125	Ultrasensitive label-free photothermal imaging, spectral identification, and quantification of cytochrome c in mitochondria, live cells, and solutions. *Journal of Biophotonics*, **2010**, 3, 791-806	3.1	40
124	Nonlinear photoacoustic signal amplification from single targets in absorption background. *Photoacoustics*, **2014**, 2, 1-11	9	39

123	Photothermal sensing of nanoscale targets. *Review of Scientific Instruments*, **2003**, 74, 785-788	1.7	37
122	In vivo acoustic and photoacoustic focusing of circulating cells. *Scientific Reports*, **2016**, 6, 21531	4.9	36
121	In vivo photoswitchable flow cytometry for direct tracking of single circulating tumor cells. *Chemistry and Biology*, **2014**, 21, 792-801		35
120	Photothermal multispectral image cytometry for quantitative histology of nanoparticles and micrometastasis in intact, stained and selectively burned tissues. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2010**, 77, 1049-58	4.6	35
119	Photothermal lens detection of gold nanoparticles: theory and experiments. *Applied Spectroscopy*, **2007**, 61, 1191-201	3.1	33
118	Dynamic Fluctuation of Circulating Tumor Cells during Cancer Progression. *Cancers*, **2014**, 6, 128-42	6.6	32
117	In vivo high-speed imaging of individual cells in fast blood flow. *Journal of Biomedical Optics*, **2006**, 11, 054034	3.5	32
116	Photothermal images of live cells in presence of drug. *Journal of Biomedical Optics*, **2002**, 7, 425-34	3.5	32
115	Integrated photothermal flow cytometry in vivo. *Journal of Biomedical Optics*, **2005**, 10, 051502	3.5	31
114	Flow cytometry with gold nanoparticles and their clusters as scattering contrast agents: FDTD simulation of light-cell interaction. *Journal of Biophotonics*, **2009**, 2, 505-20	3.1	30
113	In vivo flow cytometry of circulating clots using negative photothermal and photoacoustic contrasts. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2011**, 79, 814-24	4.6	29
112	Preclinical photoacoustic models: application for ultrasensitive single cell malaria diagnosis in large vein and artery. *Biomedical Optics Express*, **2016**, 7, 3643-3658	3.5	28
111	In vivo photoacoustic and photothermal cytometry for monitoring multiple blood rheology parameters. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2011**, 79, 746-57	4.6	28
110	Photothermal flow cytometry in vitro for detection and imaging of individual moving cells. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2007**, 71, 191-206	4.6	28
109	In vivo integrated flow image cytometry and lymph/blood vessels dynamic microscopy. *Journal of Biomedical Optics*, **2005**, 10, 054018	3.5	28
108	Far-field photothermal microscopy beyond the diffraction limit. *Optics Letters*, **2003**, 28, 1314-6	3	27
107	Versatility of targeted antibiotic-loaded gold nanoconstructs for the treatment of biofilm-associated bacterial infections. *International Journal of Hyperthermia*, **2018**, 34, 209-219	3.7	26
106	Photothermal guidance for selective photothermolysis with nanoparticles **2004**,		26

105	Targeting nano drug delivery to cancer cells using tunable, multi-layer, silver-decorated gold nanorods. *Journal of Applied Toxicology*, **2017**, 37, 1370-1378	4.1	25
104	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. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2011**, 79, 834-47	4.6	25
103	In vivo plant flow cytometry: a first proof-of-concept. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2011**, 79, 855-65	4.6	25
102	Cellulose Nanocrystals as Advanced "Green" Materials for Biological and Biomedical Engineering. *Journal of Biosystems Engineering*, **2015**, 40, 373-393	1.1	25
101	Triple-negative breast cancer targeting and killing by EpCAM-directed, plasmonically active nanodrug systems. *Npj Precision Oncology*, **2017**, 1, 27	9.8	24
100	In Vivo Long-Term Monitoring of Circulating Tumor Cells Fluctuation during Medical Interventions. *PLoS ONE*, **2015**, 10, e0137613	3.7	24
99	Photoacoustic and photothermal cytometry using photoswitchable proteins and nanoparticles with ultrasharp resonances. *Journal of Biophotonics*, **2015**, 8, 81-93	3.1	22
98	Photothermal and photoacoustic Raman cytometry in vitro and in vivo. *Optics Express*, **2010**, 18, 6929-44	3.3	22
97	Bioinspired magnetic nanoparticles as multimodal photoacoustic, photothermal and photomechanical contrast agents. *Scientific Reports*, **2019**, 9, 887	4.9	21
96	A solid-phase dot assay using silica/gold nanoshells. *Nanoscale Research Letters*, **2007**, 2, 6-11	5	21
95	Combination of viral biology and nanotechnology: new applications in nanomedicine. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2006**, 2, 200-6	6	21
94	In vivo dynamic light scattering imaging of blood coagulation. *Journal of Biomedical Optics*, **2007**, 12, 052002	3.5	20
93	Nanocluster model of photothermal assay: application for high-sensitive monitoring of nicotine-induced changes in metabolism, apoptosis, and necrosis at a cellular level. *Journal of Biomedical Optics*, **2005**, 10, 44011	3.5	20
92	Detection of thermal acoustic radiation from laser-heated deep tissue. *Applied Physics Letters*, **2002**, 81, 3918-3920	3.4	20
91	Superhigh-sensitivity photothermal monitoring of individual cell response to antitumor drug. *Journal of Biomedical Optics*, **2006**, 11, 064034	3.5	19
90	Photoacoustic flow cytometry for nanomaterial research. *Photoacoustics*, **2017**, 6, 16-25	9	18
89	Current status, pitfalls and future directions in the diagnosis and therapy of lymphatic malformation. *Journal of Biophotonics*, **2018**, 11, e201700124	3.1	18
88	Photothermal detection of nicotine-induced apoptotic effects in pancreatic cancer cells. *Life Sciences*, **2004**, 75, 2677-87	6.8	17

87	Modifying Dendritic Cell Activation with Plasmonic Nano Vectors. *Scientific Reports*, **2017**, 7, 5513	4.9	16
86	Photothermal studies of modulating effect of photoactivated chlorin on interaction of blood cells with bacteria. *Cytometry*, **1999**, 37, 320-326		16
85	Amplification of photoacoustic effect in bimodal polymer particles by self-quenching of indocyanine green. *Biomedical Optics Express*, **2019**, 10, 4775-4789	3.5	16
84	Real-Time Label-Free Embolus Detection Using In Vivo Photoacoustic Flow Cytometry. *PLoS ONE*, **2016**, 11, e0156269	3.7	16
83	Feasibility of percutaneous excision followed by ablation for local control in breast cancer. *Annals of Surgical Oncology*, **2011**, 18, 3079-87	3.1	15
82	Photothermal imaging of moving cells in lymph and blood flow in vivo **2004**,		15
81	New Frontiers in Diagnosis and Therapy of Circulating Tumor Markers in Cerebrospinal Fluid In Vitro and In Vivo. *Cells*, **2019**, 8,	7.9	14
80	Galectin-1-based tumour-targeting for gold nanostructure-mediated photothermal therapy. *International Journal of Hyperthermia*, **2018**, 34, 19-29	3.7	14
79	Real-time monitoring of circulating tumor cell (CTC) release after nanodrug or tumor radiotherapy using in□vivo flow cytometry. *Biochemical and Biophysical Research Communications*, **2017**, 492, 507-512	3.4	14
78	Photoacoustic and fluorescent effects in multilayer plasmon-dye interfaces. *Journal of Biophotonics* , **2019**, 12, e201800265	3.1	14
77	Multi-wavelength thermal-lens spectrometry for high-accuracy measurements of absorptivities and quantum yields of photodegradation of a hemoprotein□lipid complex. *Arabian Journal of Chemistry*, **2017**, 10, 781-791	5.9	13
76	Raman spectroscopy using plasmonic and carbon-based nanoparticles for cancer detection, diagnosis, and treatment guidance.Part 1: Diagnosis. *Drug Metabolism Reviews*, **2017**, 49, 212-252	7	13
75	Tracking Gold Nanorods' Interaction with Large 3D Pancreatic-Stromal Tumor Spheroids by Multimodal Imaging: Fluorescence, Photoacoustic, and Photothermal Microscopies. *Scientific Reports*, **2020**, 10, 3362	4.9	13
74	Flow Cytometry of Circulating Tumor-Associated Exosomes. *Analytical Cellular Pathology*, **2016**, 2016, 1628057	3.4	13
73	Photoacoustic Flow Cytometry for Single Sickle Cell Detection and. *Analytical Cellular Pathology*, **2016**, 2016, 2642361	3.4	13
72	Photoswitchable non-fluorescent thermochromic dye-nanoparticle hybrid probes. *Scientific Reports* , **2016**, 6, 36417	4.9	12
71	Noninvasive label-free detection of circulating white and red blood clots in deep vessels with a focused photoacoustic probe. *Biomedical Optics Express*, **2018**, 9, 5667-5677	3.5	11
70	Optical clearing for photoacoustic lympho- and angiography beyond conventional depth limit. *Photoacoustics*, **2020**, 20, 100186	9	10

69	Detection of Apoptotic Circulating Tumor Cells Using in vivo Fluorescence Flow Cytometry. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2019**, 95, 664-671	4.6	10
68	Quantification of cellular associated graphene and induced surface receptor responses. *Nanoscale*, **2019**, 11, 932-944	7.7	9
67	Photothermal confocal multicolor microscopy of nanoparticles and nanodrugs in live cells. *Drug Metabolism Reviews*, **2015**, 47, 346-55	7	9
66	Aqueous-phase synthesis of monodisperse plasmonic gold nanocrystals using shortened single-walled carbon nanotubes. *Chemical Communications*, **2010**, 46, 7142-4	5.8	9
65	Gold nanoparticle-carbon nanotube multilayers on silica microspheres: Optoacoustic-Raman enhancement and potential biomedical applications. *Materials Science and Engineering C*, **2021**, 120, 111736	8.3	9
64	Laser ultrasonic transport of drugs in living tissues. *Annals of the New York Academy of Sciences*, **1998**, 858, 66-73	6.5	8
63	Dynamic blood flow phantom with negative and positive photoacoustic contrasts. *Biomedical Optics Express*, **2018**, 9, 4702-4713	3.5	8
62	In vivo noninvasive analysis of graphene nanomaterial pharmacokinetics using photoacoustic flow cytometry. *Journal of Applied Toxicology*, **2017**, 37, 1297-1304	4.1	7
61	High-speed microscopy for in vivo monitoring of lymph dynamics. *Journal of Biophotonics*, **2018**, 11, e201700126	3.1	7
60	Doxorubicin Activates Ryanodine Receptors in Rat Lymphatic Muscle Cells to Attenuate Rhythmic Contractions and Lymph Flow. *Journal of Pharmacology and Experimental Therapeutics*, **2019**, 371, 278-289	4.7	7
59	Photoacoustically-guided photothermal killing of mosquitoes targeted by nanoparticles. *Journal of Biophotonics*, **2014**, 7, 465-73	3.1	7
58	Plasma Control of Forebody Nose Vortex Symmetry Breaking **2003**,		7
57	Biological detection of low radiation doses with integrated photothermal assay **2005**, 5697, 271		7
56	Advanced Cellulosic Materials for Treatment and Detection of Industrial Contaminants in Wastewater. *ChemistrySelect*, **2016**, 1, 4472-4488	1.8	7
55	Photothermal modification of optical microscope for noninvasive living cell monitoring **2001**,		6
54	Laser combined medical technologies from Russia. *Journal of Laser Applications*, **1999**, 11, 80-90	2.1	6
53	Early dynamic changes in circulating tumor cells and prognostic relevance following interventional radiological treatments in patients with hepatocellular carcinoma. *PLoS ONE*, **2021**, 16, e0246527	3.7	6
52	Rapid Ultrasound Optical Clearing of Human Light and Dark Skin. *IEEE Transactions on Medical Imaging*, **2020**, 39, 3198-3206	11.7	5

51	Photoacoustic manipulation of particles and cells. *Review of Scientific Instruments*, **2003**, 74, 779-781	1.7	5
50	Monitoring of small lymphatics function under different impact on animal model by integrated optical imaging **2004**,		5
49	Laser-induced synergistic effects around absorbing nanoclusters in live cells **2005**,		5
48	Confocal photothermal flow cytometry in vivo **2005**, 5697, 15		5
47	Laser Optoacoustic Analytical Spectroscopy. *Springer Series in Optical Sciences*, **1986**, 229-264	0.5	5
46	Detection of Melanoma Cells in Whole Blood Samples Using Spectral Imaging and Optical Clearing. *IEEE Journal of Selected Topics in Quantum Electronics*, **2021**, 27, 1-11	3.8	5
45	Photothermal microscopy of nano-objects **2003**, 4960, 86		4
44	Deep penetration of light into biotissue **2001**, 4257, 417		4
43	Combined interstitial laser therapy for cancer using microwave radiometric sensor and RODEO MRI feedback: I. Radio microwave **2001**,		4
42	Photothermal lifetime imaging of cell-drug interactions **2002**,		4
41	Indocyanine green dye based bimodal contrast agent tested by photoacoustic/fluorescence tomography setup. *Biomedical Optics Express*, **2021**, 12, 3181-3195	3.5	4
40	Fluorescent ampicillin analogues as multifunctional disguising agents against opsonization. *Nanoscale*, **2016**, 8, 12658-67	7.7	3
39	In vivodetection of circulating tumor cells during tumor manipulation **2013**,		3
38	In vivo Image Flow Cytometry **2011**, 387-431		3
37	Threshold parameters of the mechanisms of selective nanophotothermolysis with gold nanoparticles **2008**,		3
36	Advances in intravital microscopy for monitoring cell flow dynamics in vivo **2007**,		3
35	Photoacoustics of individual live cells and particles **2006**,		3
34	Fluctuation of probe beam in thermolens schematics as potential indicator of cell metabolism, apoptosis, necrosis and laser impact **2006**,		3

33	Photoacoustic tweezers **2002**,		3
32	Photothermal and Heat-Transfer Properties of Aqueous Detonation Nanodiamonds by Photothermal Microscopy and Transient Spectroscopy. *Journal of Physical Chemistry C*, **2021**, 125, 7808-7823	3.8	3
31	Photoswitchable Spasers with a Plasmonic Core and Photoswitchable Fluorescent Proteins. *Scientific Reports*, **2019**, 9, 12439	4.9	2
30	Rapid multi-wavelength optical assessment of circulating blood volume without a priori data. *Photonic Sensors*, **2016**, 6, 42-57	2.3	2
29	Photoacoustic monitoring of circulating tumor cells released during medical procedures **2013**,		2
28	Optical Imaging of Cells with Gold Nanoparticle Clusters as Light Scattering Contrast Agents: A Finite-Difference Time-Domain Approach to the Modeling of Flow Cytometry Configurations **2011**, 35-62		2
27	In-vivo real-time monitoring of nanoparticle clearance rate from blood circulation using high speed flow cytometry **2012**,		2
26	The diagnosis of lymph microcirculation in experimental studies on rat mesentery in vivo **2003**, 4965, 55		2
25	Photothermal tweezers **2003**,		2
24	Photothermal evaluation of the influence of nicotine, antitumor drugs, and radiation on cellular absorbing structures **2004**, 5320, 196		2
23	Photothermal/microwave radiometry for imaging and temperature feedback **2002**,		2
22	Photothermal microscopy study of photodynamic inactivation of bacteria in the presence of living blood cells **1999**, 3592, 101		2
21	Circulating Tumor Cells as Predictive Marker in Metastatic Disease **2017**, 109-122		2
20	Real-Time Monitoring of Bacteria Clearance From Blood in a Murine Model. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2020**, 97, 706-712	4.6	2
19	In Vivo Lymphatic Circulating Tumor Cells and Progression of Metastatic Disease. *Cancers*, **2020**, 12,	6.6	2
18	Lymph Liquid Biopsy for Detection of Cancer Stem Cells. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2021**, 99, 496-502	4.6	2
17	Photoacoustic monitoring of clot formation during surgery and tumor surgery **2013**,		1
16	In vivo Photothermal and Photoacoustic Flow Cytometry **2011**, 501-571		1

List of Publications

15	Optimization of gold nanostructers for laser killing of cancer cells **2006**,		1
14	Combination of photodynamic and ultrasonic therapy for treatment of infected wounds in animal model **2006**,		1
13	Combined photovacuum therapy of copulative dysfunction **2006**,		1
12	Comparative analysis of laser-based drug injection models. *Review of Scientific Instruments*, **2003**, 74, 397-399	1.7	1
11	Development imaging and experimental model for studying pathogenesis and treatment efficacy of postmastectomy lymphedema **2002**,		1
10	Nanoscale Particles and Multifunctional Hybrid Soft Nanomaterials in Bio/Nanomedicine **2020**, 1-58		1
9	Synergy of photoacoustic and fluorescence flow cytometry of circulating cells with negative and positive contrasts **2013**, 6, 425		1
8	Dynamic blood flow phantom for in vivo liquid biopsy standardization. *Scientific Reports*, **2021**, 11, 1185	4.9	0
7	In Vivo Photoacoustic Detection of Circulating Cells and Nanoparticles. *Frontiers in Nanobiomedical Research*, **2014**, 453-487		
6	Advanced Functional Graphite-Coated Magnetic Nanoparticles as RF Thermal Ablation Agents for Cancer Therapies. *Materials Research Society Symposia Proceedings*, **2008**, 1138, 1		
5	In vivo flow cytometry and time-resolved near-IR angiography and lymphography **2007**, 6535, 196		
4	Photo-pharmaceutical therapy: features and prospects **2001**, 4257, 29		
3	Application of acoustical thermometry to noninvasive monitoring of internal temperature during laser hyperthermia **2002**, 4618, 38		
2	Label-free photothermal disruption of cytotoxic aggregates rescues pathology in a C. elegans model of Huntington's disease. *Scientific Reports*, **2021**, 11, 19732	4.9	
1	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	3.8	