Vladimir P Zharov

List of Publications by Year
in descending order

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195 papers	10,004 citations	41258 49 h-index	37111 96 g-index
200 all docs	200 docs citations	200 times ranked	9846 citing authors

#	Article	IF	Citations
1	Golden carbon nanotubes as multimodal photoacoustic and photothermal high-contrast molecular agents. Nature Nanotechnology, 2009, 4, 688-694.	15.6	656
2	In vivo magnetic enrichment and multiplex photoacoustic detection of circulating tumour cells. Nature Nanotechnology, 2009, 4, 855-860.	15.6	544
3	Photothermal Nanotherapeutics and Nanodiagnostics for Selective Killing of Bacteria Targeted with Gold Nanoparticles. Biophysical Journal, 2006, 90, 619-627.	0.2	513
4	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, 1028-1033.	3.3	458
5	Optical amplification of photothermal therapy with gold nanoparticles and nanoclusters. Nanotechnology, 2006, 17, 5167-5179.	1.3	368
6	Synergistic enhancement of selective nanophotothermolysis with gold nanoclusters: Potential for cancer therapy. Lasers in Surgery and Medicine, 2005, 37, 219-226.	1.1	300
7	Covalently Linked Au Nanoparticles to a Viral Vector:â€‰ Potential for Combined Photothermal and Gene Cancer Therapy. Nano Letters, 2006, 6, 587-591.	4.5	250
8	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, 7926-7934.	0.4	241
9	Self-assembling nanoclusters in living systems: application for integrated photothermal nanodiagnostics and nanotherapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2005, 1, 326-345.	1.7	213
10	In vivo photoacoustic flow cytometry for monitoring of circulating single cancer cells and contrast agents. Optics Letters, 2006, 31, 3623.	1.7	211
11	Photothermal detection of local thermal effects during selective nanophotothermolysis. Applied Physics Letters, 2003, 83, 4897-4899.	1.5	201
12	Circulating tumor cell identification by functionalized silver-gold nanorods with multicolor, super-enhanced SERS and photothermal resonances. Scientific Reports, 2014, 4, 4752.	1.6	172
13	Laser-induced explosion of gold nanoparticles: potential role for nanophotothermolysis of cancer. Nanomedicine, 2006, 1, 473-480.	1.7	167
14	Spaser as a biological probe. Nature Communications, 2017, 8, 15528.	5.8	164
15	Laser Optoacoustic Spectroscopy. Springer Series in Optical Sciences, 1986, , .	0.5	155
16	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.	1.4	151
17	Ultrasharp nonlinear photothermal and photoacoustic resonances and holes beyond the spectral limit. Nature Photonics, 2011, 5, 110-116.	15.6	149
18	Quantum Dots as Multimodal Photoacoustic and Photothermal Contrast Agents. Nano Letters, 2008, 8, 3953-3958.	4.5	141

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19	Synergistic Photothermal and Antibiotic Killing of Biofilm-Associated Staphylococcus aureus Using Targeted Antibiotic-Loaded Gold Nanoconstructs. ACS Infectious Diseases, 2016, 2, 241-250.	1.8	139
20	Photothermal antimicrobial nanotherapy and nanodiagnostics with selfâ€assembling carbon nanotube clusters. Lasers in Surgery and Medicine, 2007, 39, 622-634.	1.1	133
21	Photoacoustic flow cytometry. Methods, 2012, 57, 280-296.	1.9	128
22	Nanotechnologyâ€based molecular photoacoustic and photothermal flow cytometry platform for inâ€vivo detection and killing of circulating cancer stem cells. Journal of Biophotonics, 2009, 2, 725-735.	1.1	126
23	In vivo flow cytometry: A horizon of opportunities. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2011, 79A, 737-745.	1.1	124
24	Infrared imaging of subcutaneous veins. Lasers in Surgery and Medicine, 2004, 34, 56-61.	1.1	122
25	Photothermal nanodrugs: potential of TNF-gold nanospheres for cancer theranostics. Scientific Reports, 2013, 3, 1293.	1.6	121
26	Superâ€Resolution Nonlinear Photothermal Microscopy. Small, 2014, 10, 135-142.	5.2	114
27	In vivo multispectral, multiparameter, photoacoustic lymph flow cytometry with natural cell focusing, labelâ€free detection and multicolor nanoparticle probes. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 884-894.	1.1	113
28	Advanced contrast nanoagents for photoacoustic molecular imaging, cytometry, blood test and photothermal theranostics. Contrast Media and Molecular Imaging, 2011, 6, 346-369.	0.4	111
29	Circulating Tumor Cell Detection and Capture by Photoacoustic Flow Cytometry in Vivo and ex Vivo. Cancers, 2013, 5, 1691-1738.	1.7	109
30	In vivo liquid biopsy using Cytophone platform for photoacoustic detection of circulating tumor cells in patients with melanoma. Science Translational Medicine, 2019, 11, .	5.8	108
31	In vivo fiberâ€based multicolor photoacoustic detection and photothermal purging of metastasis in sentinel lymph nodes targeted by nanoparticles. Journal of Biophotonics, 2009, 2, 528-539.	1.1	107
32	Absorption and scattering of light by a dimer of metal nanospheres: comparison of dipole and multipole approaches. Nanotechnology, 2006, 17, 1437-1445.	1.3	99
33	Cobalt nanoparticles coated with graphitic shells as localized radio frequency absorbers for cancer therapy. Nanotechnology, 2008, 19, 435102.	1.3	90
34	In Vivo Magnetic Enrichment, Photoacoustic Diagnosis, and Photothermal Purging of Infected Blood Using Multifunctional Gold and Magnetic Nanoparticles. PLoS ONE, 2012, 7, e45557.	1.1	78
35	Realâ€time monitoring of circulating tumor cell release during tumor manipulation using in vivo photoacoustic and fluorescent flow cytometry. Head and Neck, 2014, 36, 1207-1215.	0.9	77
36	Spectral evaluation of laser-induced cell damage with photothermal microscopy. Lasers in Surgery and Medicine, 2005, 36, 22-30.	1.1	73

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37	Synergistic enhancement of cancer therapy using a combination of carbon nanotubes and anti-tumor drug. Nanomedicine, 2009, 4, 883-893.	1.7	71
38	Photothermal image flow cytometry in vivo. Optics Letters, 2005, 30, 628.	1.7	70
39	In vivo photothermal flow cytometry: Imaging and detection of individual cells in blood and lymph flow. Journal of Cellular Biochemistry, 2006, 97, 916-932.	1.2	66
40	Photoacoustic and photothermal detection of circulating tumor cells, bacteria and nanoparticles in cerebrospinal fluid in vivo and ex vivo. Journal of Biophotonics, 2013, 6, 523-533.	1.1	64
41	In vivo ultraâ€fast photoacoustic flow cytometry of circulating human melanoma cells using nearâ€infrared highâ€pulse rate lasers. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2011, 79A, 825-833.	1.1	63
42	Gold nanoshell photomodification under a single-nanosecond laser pulse accompanied by color-shifting and bubble formation phenomena. Nanotechnology, 2008, 19, 015701.	1.3	62
43	Synergy of photoacoustic and fluorescence flow cytometry of circulating cells with negative and positive contrasts. Journal of Biophotonics, 2013, 6, 425-434.	1.1	62
44	Photothermal Confocal Spectromicroscopy of Multiple Cellular Chromophores and Fluorophores. Biophysical Journal, 2012, 102, 672-681.	0.2	61
45	In vivo photoacoustic flow cytometry for early malaria diagnosis. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2016, 89, 531-542.	1.1	61
46	Nanotheranostics of Circulating Tumor Cells, Infections and Other Pathological Features in Vivo. Molecular Pharmaceutics, 2013, 10, 813-830.	2.3	59
47	Optical clearing in photoacoustic flow cytometry. Biomedical Optics Express, 2013, 4, 3030.	1.5	57
48	Ultra-fast photoacoustic flow cytometry with a 05 MHz pulse repetition rate nanosecond laser. Optics Express, 2010, 18, 8605.	1.7	52
49	Ultrasensitive labelâ€free photothermal imaging, spectral identification, and quantification of cytochrome c in mitochondria, live cells, and solutions. Journal of Biophotonics, 2010, 3, 791-806.	1.1	51
50	Advances in small animal mesentery models for in vivo flow cytometry, dynamic microscopy, and drug screening. World Journal of Gastroenterology, 2007, 13, 192.	1.4	51
51	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.	1.4	50
52	Photothermal time-resolved imaging of living cells. Lasers in Surgery and Medicine, 2002, 31, 53-63.	1.1	49
53	Nonlinear photoacoustic signal amplification from single targets in absorption background. Photoacoustics, 2014, 2, 1-11.	4.4	48
54	Nanophotothermolysis of multiple scattered cancer cells with carbon nanotubes guided by time-resolved infrared thermal imaging. Journal of Biomedical Optics, 2009, 14, 021007.	1.4	46

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55	InÂVivo Photoswitchable Flow Cytometry for Direct Tracking of Single Circulating Tumor Cells. Chemistry and Biology, 2014, 21, 792-801.	6.2	45
56	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, 79A, 814-824.	1.1	44
57	In vivo acoustic and photoacoustic focusing of circulating cells. Scientific Reports, 2016, 6, 21531.	1.6	42
58	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, 77A, 1049-1058.	1.1	41
59	Photothermal sensing of nanoscale targets. Review of Scientific Instruments, 2003, 74, 785-788.	0.6	40
60	Photothermal Lens Detection of Gold Nanoparticles: Theory and Experiments. Applied Spectroscopy, 2007, 61, 1191-1201.	1.2	40
61	Preclinical photoacoustic models: application for ultrasensitive single cell malaria diagnosis in large vein and artery. Biomedical Optics Express, 2016, 7, 3643.	1.5	40
62	Versatility of targeted antibiotic-loaded gold nanoconstructs for the treatment of biofilm-associated bacterial infections. International Journal of Hyperthermia, 2018, 34, 209-219.	1.1	40
63	In vivo high-speed imaging of individual cells in fast blood flow. Journal of Biomedical Optics, 2006, 11, 054034.	1.4	39
64	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, 79A, 746-757.	1.1	39
65	Dynamic Fluctuation of Circulating Tumor Cells during Cancer Progression. Cancers, 2014, 6, 128-142.	1.7	39
66	Flow cytometry with gold nanoparticles and their clusters as scattering contrast agents: FDTD simulation of lightâ€“cell interaction. Journal of Biophotonics, 2009, 2, 505-520.	1.1	37
67	Cellulose Nanocrystals as Advanced "Green" Materials for Biological and Biomedical Engineering. Journal of Biosystems Engineering, 2015, 40, 373-393.	1.2	35
68	Integrated photothermal flow cytometry in vivo. Journal of Biomedical Optics, 2005, 10, 051502.	1.4	34
69	In vivo multispectral photoacoustic and photothermal flow cytometry with multicolor dyes: A potential for realâ€time assessment of circulation, dyeâ€cell interaction, and blood volume. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2011, 79A, 834-847.	1.1	34
70	Triple-negative breast cancer targeting and killing by EpCAM-directed, plasmonically active nanodrug systems. Npj Precision Oncology, 2017, 1, 27.	2.3	34
71	Photothermal images of live cells in presence of drug. Journal of Biomedical Optics, 2002, 7, 425.	1.4	33
72	In vivo integrated flow image cytometry and lymph/blood vessels dynamic microscopy. Journal of Biomedical Optics, 2005, 10, 054018.	1.4	33

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73	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, 71A, 191-206.	1.1	32
74	Current status, pitfalls and future directions in the diagnosis and therapy of lymphatic malformation. Journal of Biophotonics, 2018, 11, e201700124.	1.1	31
75	Bioinspired magnetic nanoparticles as multimodal photoacoustic, photothermal and photomechanical contrast agents. Scientific Reports, 2019, 9, 887.	1.6	31
76	Targeting nano drug delivery to cancer cells using tunable, multiâ€layer, silverâ€decorated gold nanorods. Journal of Applied Toxicology, 2017, 37, 1370-1378.	1.4	29
77	Far-field photothermal microscopy beyond the diffraction limit. Optics Letters, 2003, 28, 1314.	1.7	28
78	Photothermal guidance for selective photothermolysis with nanoparticles. , 2004, , .		28
79	In vivo plant flow cytometry: A first proofâ€ofâ€concept. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2011, 79A, 855-865.	1.1	28
80	Amplification of photoacoustic effect in bimodal polymer particles by self-quenching of indocyanine green. Biomedical Optics Express, 2019, 10, 4775.	1.5	28
81	In Vivo Long-Term Monitoring of Circulating Tumor Cells Fluctuation during Medical Interventions. PLoS ONE, 2015, 10, e0137613.	1.1	28
82	Photothermal imaging of moving cells in lymph and blood flow in vivo. , 2004, , .		27
83	In vivo dynamic light scattering imaging of blood coagulation. Journal of Biomedical Optics, 2007, 12, 052002.	1.4	26
84	Combination of viral biology and nanotechnology: new applications in nanomedicine. Nanomedicine: Nanotechnology, Biology, and Medicine, 2006, 2, 200-206.	1.7	25
85	A solid-phase dot assay using silica/gold nanoshells. Nanoscale Research Letters, 2007, 2, 6-11.	3.1	25
86	Modifying Dendritic Cell Activation with Plasmonic Nano Vectors. Scientific Reports, 2017, 7, 5513.	1.6	25
87	Real-Time Label-Free Embolus Detection Using In Vivo Photoacoustic Flow Cytometry. PLoS ONE, 2016, 11, e0156269.	1.1	25
88	Photoacoustic and photothermal cytometry using photoswitchable proteins and nanoparticles with ultrasharp resonances. Journal of Biophotonics, 2015, 8, 81-93.	1.1	24
89	Photoacoustic Flow Cytometry for Single Sickle Cell DetectionIn VitroandIn Vivo. Analytical Cellular Pathology, 2016, 2016, 1-11.	0.7	24
90	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, 044011.	1.4	23

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91	Photothermal and photoacoustic Raman cytometry in vitro and in vivo. Optics Express, 2010, 18, 6929.	1.7	23
92	New Frontiers in Diagnosis and Therapy of Circulating Tumor Markers in Cerebrospinal Fluid In Vitro and In Vivo. Cells, 2019, 8, 1195.	1.8	23
93	Detection of thermal acoustic radiation from laser-heated deep tissue. Applied Physics Letters, 2002, 81, 3918-3920.	1.5	21
94	Superhigh-sensitivity photothermal monitoring of individual cell response to antitumor drug. Journal of Biomedical Optics, 2006, 11, 064034.	1.4	20
95	In VivoFlow Cytometry of Circulating Tumor-Associated Exosomes. Analytical Cellular Pathology, 2016, 2016, 1-12.	0.7	20
96	Photoacoustic flow cytometry for nanomaterial research. Photoacoustics, 2017, 6, 16-25.	4.4	20
97	Photothermal detection of nicotine-induced apoptotic effects in pancreatic cancer cells. Life Sciences, 2004, 75, 2677-2687.	2.0	19
98	Feasibility of Percutaneous Excision Followed by Ablation for Local Control in Breast Cancer. Annals of Surgical Oncology, 2011, 18, 3079-3087.	0.7	19
99	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.	1.3	19
100	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.	1.1	19
101	Optical clearing for photoacoustic lympho- and angiography beyond conventional depth limit in vivo. Photoacoustics, 2020, 20, 100186.	4.4	19
102	Real-time monitoring of circulating tumor cell (CTC) release after nanodrug or tumor radiotherapy using inÂvivo flow cytometry. Biochemical and Biophysical Research Communications, 2017, 492, 507-512.	1.0	18
103	Photothermal studies of modulating effect of photoactivated chlorin on interaction of blood cells with bacteria. Cytometry, 1999, 37, 320-326.	1.8	17
104	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.	1.5	17
105	Tracking Gold Nanorodsâ€™ Interaction with Large 3D Pancreatic-Stromal Tumor Spheroids by Multimodal Imaging: Fluorescence, Photoacoustic, and Photothermal Microscopies. Scientific Reports, 2020, 10, 3362.	1.6	17
106	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.	1.5	17
107	Towards in vivo flow cytometry. Journal of Biophotonics, 2009, 2, 457-458.	1.1	16
108	Photoswitchable non-fluorescent thermochromic dye-nanoparticle hybrid probes. Scientific Reports, 2016, 6, 36417.	1.6	16

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109	Galectin-1-based tumour-targeting for gold nanostructure-mediated photothermal therapy. International Journal of Hyperthermia, 2018, 34, 19-29.	1.1	16
110	Photoacoustic and fluorescent effects in multilayer plasmonâ€dye interfaces. Journal of Biophotonics, 2019, 12, e201800265.	1.1	16
111	Gold nanoparticle-carbon nanotube multilayers on silica microspheres: Optoacoustic-Raman enhancement and potential biomedical applications. Materials Science and Engineering C, 2021, 120, 111736.	3.8	16
112	Early dynamic changes in circulating tumor cells and prognostic relevance following interventional radiological treatments in patients with hepatocellular carcinoma. PLoS ONE, 2021, 16, e0246527.	1.1	16
113	Multi-wavelength thermal-lens spectrometry for high-accuracy measurements of absorptivities and quantum yields of photodegradation of a hemoproteinâ€“lipid complex. Arabian Journal of Chemistry, 2017, 10, 781-791.	2.3	15
114	Photothermal confocal multicolor microscopy of nanoparticles and nanodrugs in live cells. Drug Metabolism Reviews, 2015, 47, 346-355.	1.5	13
115	Rapid Ultrasound Optical Clearing of Human Light and Dark Skin. IEEE Transactions on Medical Imaging, 2020, 39, 3198-3206.	5.4	13
116	Laser Ultrasonic Transport of Drugs in Living Tissues. Annals of the New York Academy of Sciences, 1998, 858, 66-73.	1.8	11
117	Plasma Control of Forebody Nose Vortex Symmetry Breaking. , 2003, , .		11
118	Aqueous-phase synthesis of monodisperse plasmonic gold nanocrystals using shortened single-walled carbon nanotubes. Chemical Communications, 2010, 46, 7142.	2.2	11
119	In vivo noninvasive analysis of graphene nanomaterial pharmacokinetics using photoacoustic flow cytometry. Journal of Applied Toxicology, 2017, 37, 1297-1304.	1.4	11
120	Indocyanine green dye based bimodal contrast agent tested by photoacoustic/fluorescence tomography setup. Biomedical Optics Express, 2021, 12, 3181.	1.5	11
121	Dynamic blood flow phantom with negative and positive photoacoustic contrasts. Biomedical Optics Express, 2018, 9, 4702.	1.5	11
122	Highâ€speed microscopy for in vivo monitoring of lymph dynamics. Journal of Biophotonics, 2018, 11, e201700126.	1.1	10
123	Quantification of cellular associated graphene and induced surface receptor responses. Nanoscale, 2019, 11, 932-944.	2.8	10
124	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.	1.9	10
125	Photoacousticallyâ€guided photothermal killing of mosquitoes targeted by nanoparticles. Journal of Biophotonics, 2014, 7, 465-473.	1.1	9
126	Photoacoustic manipulation of particles and cells. Review of Scientific Instruments, 2003, 74, 779-781.	0.6	8

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127	Laser combined medical technologies from Russia. Journal of Laser Applications, 1999, 11, 80-90.	0.8	7
128	Photothermal modification of optical microscope for noninvasive living cell monitoring. , 2001, , .		7
129	Biological detection of low radiation doses with integrated photothermal assay. , 2005, 5697, 271.		7
130	Photoacoustics of individual live cells and particles. , 2006, , .		7
131	Guest Editorial: Nanophotonics for Diagnostics, Protection, and Treatment of Cancer and Inflammatory Diseases. Journal of Biomedical Optics, 2009, 14, 020901.	1.4	7
132	Advanced Cellulosic Materials for Treatment and Detection of Industrial Contaminants in Wastewater. ChemistrySelect, 2016, 1, 4472-4488.	0.7	7
133	In Vivo Lymphatic Circulating Tumor Cells and Progression of Metastatic Disease. Cancers, 2020, 12, 2866.	1.7	7
134	Photothermal and Heat-Transfer Properties of Aqueous Detonation Nanodiamonds by Photothermal Microscopy and Transient Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 7808-7823.	1.5	7
135	Laser-induced synergistic effects around absorbing nanoclusters in live cells. , 2005, , .		6
136	Confocal photothermal flow cytometry in vivo. , 2005, 5697, 15.		6
137	Fluorescent ampicillin analogues as multifunctional disguising agents against opsonization. Nanoscale, 2016, 8, 12658-12667.	2.8	6
138	Photoacoustic tweezers. , 2002, , .		5
139	<title>Monitoring of small lymphatics function under different impact on animal model by integrated optical imaging</title>. , 2004, , .		5
140	Fluctuation of probe beam in thermolens schematics as potential indicator of cell metabolism, apoptosis, necrosis and laser impact. , 2006, , .		5
141	Advances in intravital microscopy for monitoring cell flow dynamics in vivo. , 2007, , .		5
142	Towards Reaching the Total Blood Volume by in vivo Flow Cytometry and Theranostics. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2019, 95, 1223-1225.	1.1	5
143	Laser Optoacoustic Analytical Spectroscopy. Springer Series in Optical Sciences, 1986, , 229-264.	0.5	5
144	Towards rainbow portable Cytophone with laser diodes for global disease diagnostics. Scientific Reports, 2022, 12, .	1.6	5

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145	Deep penetration of light into biotissue. , 2001, 4257, 417.		4
146	Combined interstitial laser therapy for cancer using microwave radiometric sensor and RODEO MRI feedback: I. Radio microwave. , 2001, , .		4
147	<title>Photothermal lifetime imaging of cell-drug interactions</title>. , 2002, , .		4
148	Photothermal microscopy of nano-objects. , 2003, 4960, 86.		4
149	Threshold parameters of the mechanisms of selective nanophotothermolysis with gold nanoparticles. , 2008, , .		4
150	Rapid multi-wavelength optical assessment of circulating blood volume without a priori data. Photonic Sensors, 2016, 6, 42-57.	2.5	4
151	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.	1.1	4
152	Nanoscale Particles and Multifunctional Hybrid Soft Nanomaterials in Bio/Nanomedicine. , 2020, , 1-58.		4
153	<title>Photothermal microscopy study of photodynamic inactivation of bacteria in the presence of living blood cells</title>. , 1999, 3592, 101.		3
154	The diagnosis of lymph microcirculation in experimental studies on rat mesentery in vivo. , 2003, 4965, 55.		3
155	Photothermal tweezers. , 2003, , .		3
156	In-vivo real-time monitoring of nanoparticle clearance rate from blood circulation using high speed flow cytometry. Proceedings of SPIE, 2012, , .	0.8	3
157	In vivodetection of circulating tumor cells during tumor manipulation. Proceedings of SPIE, 2013, , .	0.8	3
158	Biophotonics for lymphatic theranostics in animals and humans. Journal of Biophotonics, 2018, 11, e201811001.	1.1	3
159	Photoswitchable Spasers with a Plasmonic Core and Photoswitchable Fluorescent Proteins. Scientific Reports, 2019, 9, 12439.	1.6	3
160	Realâ€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.	1.1	3
161	Dynamic blood flow phantom for in vivo liquid biopsy standardization. Scientific Reports, 2021, 11, 1185.	1.6	3
162	<title>Development imaging and experimental model for studying pathogenesis and treatment efficacy of postmastectomy lymphedema</title>. , 2002, , .		2

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163	<title>Photothermal/microwave radiometry for imaging and temperature feedback</title>. , 2002, , .		2
164	Photothermal evaluation of the influence of nicotine, antitumor drugs, and radiation on cellular absorbing structures. , 2004, 5320, 196.		2
165	Combination of photodynamic and ultrasonic therapy for treatment of infected wounds in animal model. , 2006, , .		2
166	Combined photovacuum therapy of copulative dysfunction. , 2006, , .		2
167	Photoacoustic monitoring of circulating tumor cells released during medical procedures. , 2013, , .		2
168	Photoacoustic monitoring of clot formation during surgery and tumor surgery. , 2013, , .		2
169	Circulating Tumor Cells as Predictive Marker in Metastatic Disease. , 2017, , 109-122.		2
170	Label-free photothermal disruption of cytotoxic aggregates rescues pathology in a C. elegans model of Huntingtonâ€™s disease. Scientific Reports, 2021, 11, 19732.	1.6	2
171	Combined photoultrasonic treatment of infected wounds. , 2001, , .		1
172	Phototherapeutic treatment of patients with peripheral nervous system diseases by means of LED arrays. , 2001, , .		1
173	Comparative analysis of laser-based drug injection models. Review of Scientific Instruments, 2003, 74, 397-399.	0.6	1
174	<title>Optimization of gold nanostructers for laser killing of cancer cells</title>. , 2006, , .		1
175	Synergy of photoacoustic and fluorescence flow cytometry of circulating cells with negative and positive contrasts. , 2013, 6, 425.		1
176	Comparing the spectral properties of the laser-induced acoustic responses from blood and cancer cells in vitro. Russian Open Medical Journal, 2020, 9, .	0.1	1
177	<title>Autonomous microdevices for phototherapy</title>. , 2001, , .		0
178	Photo-pharmaceutical therapy: features and prospects. , 2001, 4257, 29.		0
179	Laser-irradiated drug chromatographic analysis and laser injection of drugs to treat staphyloccocal lesions of skin. , 2001, 4244, 121.		0
180	<title>Application of acoustical thermometry to noninvasive monitoring of internal temperature during laser hyperthermia</title>. , 2002, 4618, 38.		0

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181	Temperature control in interstitial laser cancer immunotherapy. , 2003, , .		0
182	Flow image cytometry in vivo: the capability of high resolution transmission mode. , 2005, , .		0
183	Laser-induced thermal explosion mode for selective nano-photothermolysis of cancer cells. , 2007, , .		0
184	<title><emph type="1">In vivo</emph> flow cytometry and time-resolved near-IR angiography and lymphography</title>. , 2007, 6535, 196.		0
185	Graphitic Materials for RF Thermal Ablation of Tumors. , 2008, , .		0
186	Advanced Functional Graphite-Coated Magnetic Nanoparticles as RF Thermal Ablation Agents for Cancer Therapies. Materials Research Society Symposia Proceedings, 2008, 1138, 1.	0.1	0
187	Identification of rolling circulating tumor cells using photoacoustic time-of-flight method. , 2013, , .		0
188	In Vivo Photoacoustic Detection of Circulating Cells and Nanoparticles. Frontiers in Nanobiomedical Research, 2014, , 453-487.	0.1	0
189	In vivo photoacoustic blood test. , 2016, , .		0
190	Inertial force-driven synthesis of near-infrared plasmonic nanosphere composites. , 2016, , .		0
191	Photoswitchable dye-nanoparticle probes with photothermal switching of light-dark states and colors (Withdrawal Notice). , 2017, , .		0
192	Optical amplification of in vivo photoacoustic flow cytometry. , 2018, , .		0
193	Applicability of correlation analysis for dynamic detection of single cancer cells with photoacoustic technique. , 2020, , .		0
194	Corrections to â€œDetection of Melanoma Cells in Whole Blood Samples Using Spectral Imaging and Optical Clearingâ€•[Jul/Aug 21 Art. no. 7200711]. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-1.	1.9	0
195	A Model-Based Approach To Detection Of The Circulating Melanoma Cells From The Photoacoustic Cytometry Data. Russian Open Medical Journal, 2021, 10, .	0.1	0