

Vladimir P Zharov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Label-free photothermal disruption of cytotoxic aggregates rescues pathology in a <i>C. elegans</i> model of Huntington's disease. <i>Scientific Reports</i> , 2021 , 11, 19732	4.9	
175	Photothermal and Heat-Transfer Properties of Aqueous Detonation Nanodiamonds by Photothermal Microscopy and Transient Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 7808-7823	3.8	3
174	Indocyanine green dye based bimodal contrast agent tested by photoacoustic/fluorescence tomography setup. <i>Biomedical Optics Express</i> , 2021 , 12, 3181-3195	3.5	4
173	Corrections to Detection of Melanoma Cells in Whole Blood Samples Using Spectral Imaging and Optical Clearing [Jul/Aug 21 Art. no. 7200711]. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 27, 1-1	3.8	
172	Gold nanoparticle-carbon nanotube multilayers on silica microspheres: Optoacoustic-Raman enhancement and potential biomedical applications. <i>Materials Science and Engineering C</i> , 2021 , 120, 111736	8.3	9
171	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	4.6	2
170	Dynamic blood flow phantom for in vivo liquid biopsy standardization. <i>Scientific Reports</i> , 2021 , 11, 1185	4.9	0
169	Early dynamic changes in circulating tumor cells and prognostic relevance following interventional radiological treatments in patients with hepatocellular carcinoma. <i>PLoS ONE</i> , 2021 , 16, e0246527	3.7	6
168	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	3.8	5
167	Optical clearing for photoacoustic lympho- and angiography beyond conventional depth limit. <i>Photoacoustics</i> , 2020 , 20, 100186	9	10
166	Tracking Gold Nanorods' Interaction with Large 3D Pancreatic-Stromal Tumor Spheroids by Multimodal Imaging: Fluorescence, Photoacoustic, and Photothermal Microscopies. <i>Scientific Reports</i> , 2020 , 10, 3362	4.9	13
165	Rapid Ultrasound Optical Clearing of Human Light and Dark Skin. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 3198-3206	11.7	5
164	Nanoscale Particles and Multifunctional Hybrid Soft Nanomaterials in Bio/Nanomedicine 2020 , 1-58		1
163	Real-Time Monitoring of Bacteria Clearance From Blood in a Murine Model. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020 , 97, 706-712	4.6	2
162	In Vivo Lymphatic Circulating Tumor Cells and Progression of Metastatic Disease. <i>Cancers</i> , 2020 , 12,	6.6	2
161	Photoswitchable Spasers with a Plasmonic Core and Photoswitchable Fluorescent Proteins. <i>Scientific Reports</i> , 2019 , 9, 12439	4.9	2
160	New Frontiers in Diagnosis and Therapy of Circulating Tumor Markers in Cerebrospinal Fluid In Vitro and In Vivo. <i>Cells</i> , 2019 , 8,	7.9	14

159	Bioinspired magnetic nanoparticles as multimodal photoacoustic, photothermal and photomechanical contrast agents. <i>Scientific Reports</i> , 2019 , 9, 887	4.9	21
158	Quantification of cellular associated graphene and induced surface receptor responses. <i>Nanoscale</i> , 2019 , 11, 932-944	7.7	9
157	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,	17.5	69
156	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	4.7	7
155	Amplification of photoacoustic effect in bimodal polymer particles by self-quenching of indocyanine green. <i>Biomedical Optics Express</i> , 2019 , 10, 4775-4789	3.5	16
154	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	4.6	10
153	Photoacoustic and fluorescent effects in multilayer plasmon-dye interfaces. <i>Journal of Biophotonics</i> , 2019 , 12, e201800265	3.1	14
152	High-speed microscopy for in vivo monitoring of lymph dynamics. <i>Journal of Biophotonics</i> , 2018 , 11, e201700126	3.1	16
151	Galectin-1-based tumour-targeting for gold nanostructure-mediated photothermal therapy. <i>International Journal of Hyperthermia</i> , 2018 , 34, 19-29	3.7	14
150	Versatility of targeted antibiotic-loaded gold nanoconstructs for the treatment of biofilm-associated bacterial infections. <i>International Journal of Hyperthermia</i> , 2018 , 34, 209-219	3.7	26
149	Current status, pitfalls and future directions in the diagnosis and therapy of lymphatic malformation. <i>Journal of Biophotonics</i> , 2018 , 11, e201700124	3.1	18
148	Dynamic blood flow phantom with negative and positive photoacoustic contrasts. <i>Biomedical Optics Express</i> , 2018 , 9, 4702-4713	3.5	8
147	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, 5667-5677	3.5	11
146	Multi-wavelength thermal-lens spectrometry for high-accuracy measurements of absorptivities and quantum yields of photodegradation of a hemoprotein-lipid complex. <i>Arabian Journal of Chemistry</i> , 2017 , 10, 781-791	5.9	13
145	Raman spectroscopy using plasmonic and carbon-based nanoparticles for cancer detection, diagnosis, and treatment guidance. Part 1: Diagnosis. <i>Drug Metabolism Reviews</i> , 2017 , 49, 212-252	7	13
144	Photoacoustic flow cytometry for nanomaterial research. <i>Photoacoustics</i> , 2017 , 6, 16-25	9	18
143	In vivo noninvasive analysis of graphene nanomaterial pharmacokinetics using photoacoustic flow cytometry. <i>Journal of Applied Toxicology</i> , 2017 , 37, 1297-1304	4.1	7
142	Spaser as a biological probe. <i>Nature Communications</i> , 2017 , 8, 15528	17.4	121

141	Real-time monitoring of circulating tumor cell (CTC) release after nanodrug or tumor radiotherapy using in vivo flow cytometry. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 492, 507-512	3.4	14
140	Triple-negative breast cancer targeting and killing by EpCAM-directed, plasmonically active nanodrug systems. <i>Npj Precision Oncology</i> , 2017 , 1, 27	9.8	24
139	Targeting nano drug delivery to cancer cells using tunable, multi-layer, silver-decorated gold nanorods. <i>Journal of Applied Toxicology</i> , 2017 , 37, 1370-1378	4.1	25
138	Modifying Dendritic Cell Activation with Plasmonic Nano Vectors. <i>Scientific Reports</i> , 2017 , 7, 5513	4.9	16
137	Circulating Tumor Cells as Predictive Marker in Metastatic Disease 2017 , 109-122		2
136	Preclinical photoacoustic models: application for ultrasensitive single cell malaria diagnosis in large vein and artery. <i>Biomedical Optics Express</i> , 2016 , 7, 3643-3658	3.5	28
135	In vivo acoustic and photoacoustic focusing of circulating cells. <i>Scientific Reports</i> , 2016 , 6, 21531	4.9	36
134	Fluorescent ampicillin analogues as multifunctional disguising agents against opsonization. <i>Nanoscale</i> , 2016 , 8, 12658-67	7.7	3
133	Rapid multi-wavelength optical assessment of circulating blood volume without a priori data. <i>Photonic Sensors</i> , 2016 , 6, 42-57	2.3	2
132	Synergistic Photothermal and Antibiotic Killing of Biofilm-Associated Using Targeted Antibiotic-Loaded Gold Nanoconstructs. <i>ACS Infectious Diseases</i> , 2016 , 2, 241-250	5.5	106
131	Real-Time Label-Free Embolus Detection Using In Vivo Photoacoustic Flow Cytometry. <i>PLoS ONE</i> , 2016 , 11, e0156269	3.7	16
130	Flow Cytometry of Circulating Tumor-Associated Exosomes. <i>Analytical Cellular Pathology</i> , 2016 , 1628057	3.4	13
129	Photoacoustic Flow Cytometry for Single Sickle Cell Detection and. <i>Analytical Cellular Pathology</i> , 2016 , 2016, 2642361	3.4	13
128	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, 531-42	4.6	43
127	Photoswitchable non-fluorescent thermochromic dye-nanoparticle hybrid probes. <i>Scientific Reports</i> , 2016 , 6, 36417	4.9	12
126	Advanced Cellulosic Materials for Treatment and Detection of Industrial Contaminants in Wastewater. <i>ChemistrySelect</i> , 2016 , 1, 4472-4488	1.8	7
125	Photothermal confocal multicolor microscopy of nanoparticles and nanodrugs in live cells. <i>Drug Metabolism Reviews</i> , 2015 , 47, 346-55	7	9
124	Photoacoustic and photothermal cytometry using photoswitchable proteins and nanoparticles with ultrasharp resonances. <i>Journal of Biophotonics</i> , 2015 , 8, 81-93	3.1	22

123	In Vivo Long-Term Monitoring of Circulating Tumor Cells Fluctuation during Medical Interventions. <i>PLoS ONE</i> , 2015 , 10, e0137613	3.7	24
122	Cellulose Nanocrystals as Advanced "Green" Materials for Biological and Biomedical Engineering. <i>Journal of Biosystems Engineering</i> , 2015 , 40, 373-393	1.1	25
121	Circulating tumor cell identification by functionalized silver-gold nanorods with multicolor, super-enhanced SERS and photothermal resonances. <i>Scientific Reports</i> , 2014 , 4, 4752	4.9	151
120	Nonlinear photoacoustic signal amplification from single targets in absorption background. <i>Photoacoustics</i> , 2014 , 2, 1-11	9	39
119	In Vivo Photoacoustic Detection of Circulating Cells and Nanoparticles. <i>Frontiers in Nanobiomedical Research</i> , 2014 , 453-487		
118	Photoacoustically-guided photothermal killing of mosquitoes targeted by nanoparticles. <i>Journal of Biophotonics</i> , 2014 , 7, 465-73	3.1	7
117	Dynamic Fluctuation of Circulating Tumor Cells during Cancer Progression. <i>Cancers</i> , 2014 , 6, 128-42	6.6	32
116	In vivo photoswitchable flow cytometry for direct tracking of single circulating tumor cells. <i>Chemistry and Biology</i> , 2014 , 21, 792-801		35
115	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, 1207-15	4.2	57
114	Super-resolution nonlinear photothermal microscopy. <i>Small</i> , 2014 , 10, 135-42	11	92
113	Nanotheranostics of circulating tumor cells, infections and other pathological features in vivo. <i>Molecular Pharmaceutics</i> , 2013 , 10, 813-30	5.6	47
112	Photothermal nanodrugs: potential of TNF-gold nanospheres for cancer theranostics. <i>Scientific Reports</i> , 2013 , 3, 1293	4.9	104
111	Synergy of photoacoustic and fluorescence flow cytometry of circulating cells with negative and positive contrasts. <i>Journal of Biophotonics</i> , 2013 , 6, 425-34	3.1	47
110	In vivodetection of circulating tumor cells during tumor manipulation 2013 ,		3
109	Photoacoustic monitoring of circulating tumor cells released during medical procedures 2013 ,		2
108	Optical clearing in photoacoustic flow cytometry. <i>Biomedical Optics Express</i> , 2013 , 4, 3030-41	3.5	50
107	Circulating Tumor Cell Detection and Capture by Photoacoustic Flow Cytometry in Vivo and ex Vivo. <i>Cancers</i> , 2013 , 5, 1691-738	6.6	83
106	Photoacoustic monitoring of clot formation during surgery and tumor surgery 2013 ,		1

105	Synergy of photoacoustic and fluorescence flow cytometry of circulating cells with negative and positive contrasts 2013 , 6, 425		1
104	Photothermal confocal spectromicroscopy of multiple cellular chromophores and fluorophores. <i>Biophysical Journal</i> , 2012 , 102, 672-81	2.9	47
103	Photoacoustic flow cytometry. <i>Methods</i> , 2012 , 57, 280-96	4.6	98
102	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	3.7	64
101	In-vivo real-time monitoring of nanoparticle clearance rate from blood circulation using high speed flow cytometry 2012 ,		2
100	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, 1028-33	11.5	369
99	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
98	In vivo Photothermal and Photoacoustic Flow Cytometry 2011 , 501-571		1
97	In vivo Image Flow Cytometry 2011 , 387-431		3
96	Ultrasharp nonlinear photothermal and photoacoustic resonances and holes beyond the spectral limit. <i>Nature Photonics</i> , 2011 , 5, 110-116	33.9	131
95	Feasibility of percutaneous excision followed by ablation for local control in breast cancer. <i>Annals of Surgical Oncology</i> , 2011 , 18, 3079-87	3.1	15
94	Advanced contrast nanoagents for photoacoustic molecular imaging, cytometry, blood test and photothermal theranostics. <i>Contrast Media and Molecular Imaging</i> , 2011 , 6, 346-69	3.2	91
93	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 , 79, 825-33	4.6	46
92	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 , 79, 814-24	4.6	29
91	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 , 79, 834-47	4.6	25
90	In vivo plant flow cytometry: a first proof-of-concept. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2011 , 79, 855-65	4.6	25
89	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 , 79, 746-57	4.6	28
88	In vivo flow cytometry: a horizon of opportunities. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2011 , 79, 737-45	4.6	94

87	Photothermal and photoacoustic Raman cytometry in vitro and in vivo. <i>Optics Express</i> , 2010 , 18, 6929-443,3	22
86	Ultra-fast photoacoustic flow cytometry with a 0.5 MHz pulse repetition rate nanosecond laser. <i>Optics Express</i> , 2010 , 18, 8605-20	3.3 42
85	Aqueous-phase synthesis of monodisperse plasmonic gold nanocrystals using shortened single-walled carbon nanotubes. <i>Chemical Communications</i> , 2010 , 46, 7142-4	5.8 9
84	Ultrasensitive label-free photothermal imaging, spectral identification, and quantification of cytochrome c in mitochondria, live cells, and solutions. <i>Journal of Biophotonics</i> , 2010 , 3, 791-806	3.1 40
83	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 , 77, 1049-58	4.6 35
82	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, 7926-34	10.1 201
81	Nanophotothermolysis of multiple scattered cancer cells with carbon nanotubes guided by time-resolved infrared thermal imaging. <i>Journal of Biomedical Optics</i> , 2009 , 14, 021007	3.5 40
80	Flow cytometry with gold nanoparticles and their clusters as scattering contrast agents: FDTD simulation of light-cell interaction. <i>Journal of Biophotonics</i> , 2009 , 2, 505-20	3.1 30
79	In vivo fiber-based multicolor photoacoustic detection and photothermal purging of metastasis in sentinel lymph nodes targeted by nanoparticles. <i>Journal of Biophotonics</i> , 2009 , 2, 528-39	3.1 92
78	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, 725-35	3.1 107
77	Golden carbon nanotubes as multimodal photoacoustic and photothermal high-contrast molecular agents. <i>Nature Nanotechnology</i> , 2009 , 4, 688-94	28.7 592
76	In vivo magnetic enrichment and multiplex photoacoustic detection of circulating tumour cells. <i>Nature Nanotechnology</i> , 2009 , 4, 855-60	28.7 484
75	Synergistic enhancement of cancer therapy using a combination of carbon nanotubes and anti-tumor drug. <i>Nanomedicine</i> , 2009 , 4, 883-93	5.6 62
74	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	3.5 48
73	Gold nanoshell photomodification under a single-nanosecond laser pulse accompanied by color-shifting and bubble formation phenomena. <i>Nanotechnology</i> , 2008 , 19, 015701	3.4 58
72	Quantum dots as multimodal photoacoustic and photothermal contrast agents. <i>Nano Letters</i> , 2008 , 8, 3953-8	11.5 126
71	Cobalt nanoparticles coated with graphitic shells as localized radio frequency absorbers for cancer therapy. <i>Nanotechnology</i> , 2008 , 19, 435102	3.4 81
70	Advanced Functional Graphite-Coated Magnetic Nanoparticles as RF Thermal Ablation Agents for Cancer Therapies. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1138, 1	

69	Threshold parameters of the mechanisms of selective nanophotothermolysis with gold nanoparticles 2008 ,		3
68	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 , 73, 884-94	4.6	95
67	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 , 71, 191-206	4.6	28
66	Photothermal antimicrobial nanotherapy and nanodiagnostics with self-assembling carbon nanotube clusters. <i>Lasers in Surgery and Medicine</i> , 2007 , 39, 622-34	3.6	114
65	A solid-phase dot assay using silica/gold nanoshells. <i>Nanoscale Research Letters</i> , 2007 , 2, 6-11	5	21
64	Advances in intravital microscopy for monitoring cell flow dynamics in vivo 2007 ,		3
63	In vivo flow cytometry and time-resolved near-IR angiography and lymphography 2007 , 6535, 196		
62	Photothermal lens detection of gold nanoparticles: theory and experiments. <i>Applied Spectroscopy</i> , 2007 , 61, 1191-201	3.1	33
61	In vivo dynamic light scattering imaging of blood coagulation. <i>Journal of Biomedical Optics</i> , 2007 , 12, 052002	3.5	20
60	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	3.5	120
59	Advances in small animal mesentery models for in vivo flow cytometry, dynamic microscopy, and drug screening. <i>World Journal of Gastroenterology</i> , 2007 , 13, 192-218	5.6	42
58	Combination of viral biology and nanotechnology: new applications in nanomedicine. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2006 , 2, 200-6	6	21
57	In vivo photothermal flow cytometry: imaging and detection of individual cells in blood and lymph flow. <i>Journal of Cellular Biochemistry</i> , 2006 , 97, 916-32	4.7	51
56	Superhigh-sensitivity photothermal monitoring of individual cell response to antitumor drug. <i>Journal of Biomedical Optics</i> , 2006 , 11, 064034	3.5	19
55	Optimization of gold nanostructures for laser killing of cancer cells 2006 ,		1
54	Photothermal nanotherapeutics and nanodiagnostics for selective killing of bacteria targeted with gold nanoparticles. <i>Biophysical Journal</i> , 2006 , 90, 619-27	2.9	453
53	In vivo high-speed imaging of individual cells in fast blood flow. <i>Journal of Biomedical Optics</i> , 2006 , 11, 054034	3.5	32
52	Absorption and scattering of light by a dimer of metal nanospheres: comparison of dipole and multipole approaches. <i>Nanotechnology</i> , 2006 , 17, 1437-1445	3.4	95

51	Laser-induced explosion of gold nanoparticles: potential role for nanophotothermolysis of cancer. <i>Nanomedicine</i> , 2006 , 1, 473-80	5.6	145
50	In vivo photoacoustic flow cytometry for monitoring of circulating single cancer cells and contrast agents. <i>Optics Letters</i> , 2006 , 31, 3623-5	3	172
49	Combination of photodynamic and ultrasonic therapy for treatment of infected wounds in animal model 2006 ,		1
48	Photoacoustics of individual live cells and particles 2006 ,		3
47	Combined photovacuum therapy of copulative dysfunction 2006 ,		1
46	Fluctuation of probe beam in thermolens schematics as potential indicator of cell metabolism, apoptosis, necrosis and laser impact 2006 ,		3
45	Covalently linked Au nanoparticles to a viral vector: potential for combined photothermal and gene cancer therapy. <i>Nano Letters</i> , 2006 , 6, 587-91	11.5	227
44	Optical amplification of photothermal therapy with gold nanoparticles and nanoclusters. <i>Nanotechnology</i> , 2006 , 17, 5167-5179	3.4	314
43	Photothermal image flow cytometry in vivo. <i>Optics Letters</i> , 2005 , 30, 628-30	3	61
42	Integrated photothermal flow cytometry in vivo. <i>Journal of Biomedical Optics</i> , 2005 , 10, 051502	3.5	31
41	Laser-induced synergistic effects around absorbing nanoclusters in live cells 2005 ,		5
40	Biological detection of low radiation doses with integrated photothermal assay 2005 , 5697, 271		7
39	Self-assembling nanoclusters in living systems: application for integrated photothermal nanodiagnostics and nanotherapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2005 , 1, 326-45 ⁶		182
38	Spectral evaluation of laser-induced cell damage with photothermal microscopy. <i>Lasers in Surgery and Medicine</i> , 2005 , 36, 22-30	3.6	63
37	Synergistic enhancement of selective nanophotothermolysis with gold nanoclusters: potential for cancer therapy. <i>Lasers in Surgery and Medicine</i> , 2005 , 37, 219-26	3.6	268
36	Confocal photothermal flow cytometry in vivo 2005 , 5697, 15		5
35	Nanocluster model of photothermal assay: application for high-sensitive monitoring of nicotine-induced changes in metabolism, apoptosis, and necrosis at a cellular level. <i>Journal of Biomedical Optics</i> , 2005 , 10, 44011	3.5	20
34	In vivo integrated flow image cytometry and lymph/blood vessels dynamic microscopy. <i>Journal of Biomedical Optics</i> , 2005 , 10, 054018	3.5	28

33	Photothermal guidance for selective photothermolysis with nanoparticles 2004 ,		26
32	Infrared imaging of subcutaneous veins. <i>Lasers in Surgery and Medicine</i> , 2004 , 34, 56-61	3.6	93
31	Photothermal detection of nicotine-induced apoptotic effects in pancreatic cancer cells. <i>Life Sciences</i> , 2004 , 75, 2677-87	6.8	17
30	Monitoring of small lymphatics function under different impact on animal model by integrated optical imaging 2004 ,		5
29	Photothermal evaluation of the influence of nicotine, antitumor drugs, and radiation on cellular absorbing structures 2004 , 5320, 196		2
28	Photothermal imaging of moving cells in lymph and blood flow in vivo 2004 ,		15
27	Photothermal microscopy of nano-objects 2003 , 4960, 86		4
26	Photothermal sensing of nanoscale targets. <i>Review of Scientific Instruments</i> , 2003 , 74, 785-788	1.7	37
25	Photoacoustic manipulation of particles and cells. <i>Review of Scientific Instruments</i> , 2003 , 74, 779-781	1.7	5
24	Far-field photothermal microscopy beyond the diffraction limit. <i>Optics Letters</i> , 2003 , 28, 1314-6	3	27
23	The diagnosis of lymph microcirculation in experimental studies on rat mesentery in vivo 2003 , 4965, 55		2
22	Plasma Control of Forebody Nose Vortex Symmetry Breaking 2003 ,		7
21	Photothermal detection of local thermal effects during selective nanophotothermolysis. <i>Applied Physics Letters</i> , 2003 , 83, 4897-4899	3.4	177
20	Photothermal tweezers 2003 ,		2
19	Comparative analysis of laser-based drug injection models. <i>Review of Scientific Instruments</i> , 2003 , 74, 397-399	1.7	1
18	Photothermal time-resolved imaging of living cells. <i>Lasers in Surgery and Medicine</i> , 2002 , 31, 53-63	3.6	42
17	Photothermal lifetime imaging of cell-drug interactions 2002 ,		4
16	Photothermal images of live cells in presence of drug. <i>Journal of Biomedical Optics</i> , 2002 , 7, 425-34	3.5	32

15	Development imaging and experimental model for studying pathogenesis and treatment efficacy of postmastectomy lymphedema 2002 ,		1
14	Photoacoustic tweezers 2002 ,		3
13	Application of acoustical thermometry to noninvasive monitoring of internal temperature during laser hyperthermia 2002 , 4618, 38		
12	Photothermal/microwave radiometry for imaging and temperature feedback 2002 ,		2
11	Detection of thermal acoustic radiation from laser-heated deep tissue. <i>Applied Physics Letters</i> , 2002 , 81, 3918-3920	3-4	20
10	Deep penetration of light into biotissue 2001 , 4257, 417		4
9	Combined interstitial laser therapy for cancer using microwave radiometric sensor and RODEO MRI feedback: I. Radio microwave 2001 ,		4
8	Photo-pharmaceutical therapy: features and prospects 2001 , 4257, 29		
7	Photothermal modification of optical microscope for noninvasive living cell monitoring 2001 ,		6
6	Laser combined medical technologies from Russia. <i>Journal of Laser Applications</i> , 1999 , 11, 80-90	2.1	6
5	Photothermal studies of modulating effect of photoactivated chlorin on interaction of blood cells with bacteria. <i>Cytometry</i> , 1999 , 37, 320-326		16
4	Photothermal microscopy study of photodynamic inactivation of bacteria in the presence of living blood cells 1999 , 3592, 101		2
3	Laser ultrasonic transport of drugs in living tissues. <i>Annals of the New York Academy of Sciences</i> , 1998 , 858, 66-73	6.5	8
2	Laser Optoacoustic Spectroscopy. <i>Springer Series in Optical Sciences</i> , 1986 ,	0.5	113
1	Laser Optoacoustic Analytical Spectroscopy. <i>Springer Series in Optical Sciences</i> , 1986 , 229-264	0.5	5