

Stanislav Y Emelianov

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.

223
papers

10,591
citations

52
h-index

97
g-index

257
ext. papers

12,419
ext. citations

5.2
avg, IF

6.47
L-index

#	Paper	IF	Citations
223	Gold nanoparticles conjugated with DNA aptamer for photoacoustic detection of human matrix metalloproteinase-9. <i>Photoacoustics</i> , 2022 , 25, 100307	9	4
222	Theragnostic Glycol Chitosan-Conjugated Gold Nanoparticles for Photoacoustic Imaging of Regional Lymph Nodes and Delivering Tumor Antigen to Lymph Nodes. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
221	Formulation and Acoustic Modulation of Optically Vaporized Perfluorocarbon Nanodroplets. <i>Journal of Visualized Experiments</i> , 2021 ,	1.6	1
220	Bifunctional Janus Particles as Multivalent Synthetic Nanoparticle Antibodies (SNABs) for Selective Depletion of Target Cells. <i>Nano Letters</i> , 2021 , 21, 875-886	11.5	6
219	Dual-Illumination Ultrasound/ Photoacoustic System for Cervical Cancer imaging. <i>IEEE Photonics Journal</i> , 2021 , 13,	1.8	2
218	Clinically translatable quantitative molecular photoacoustic imaging with liposome-encapsulated ICG J-aggregates. <i>Nature Communications</i> , 2021 , 12, 5410	17.4	10
217	Prussian blue nanocubes as a multimodal contrast agent for image-guided stem cell therapy of the spinal cord. <i>Photoacoustics</i> , 2020 , 18, 100166	9	14
216	Investigation of light delivery geometries for photoacoustic applications using Monte Carlo simulations with multiple wavelengths, tissue types, and species characteristics. <i>Journal of Biomedical Optics</i> , 2020 , 25, 1-16	3.5	9
215	photoacoustic guidance of stem cell injection and delivery for regenerative spinal cord therapies. <i>Neurophotonics</i> , 2020 , 7, 030501	3.9	9
214	Ultrafast ultrasound imaging of surface acoustic waves induced by laser excitation compared with acoustic radiation force. <i>Optics Letters</i> , 2020 , 45, 1810-1813	3	3
213	Imágenes fotoacústicas para diagnósticos médicos. <i>Ingenierías</i> , 2020 , 23, 28-41	0.3	
212	Effects of Freezing on Mesenchymal Stem Cells Labeled with Gold Nanoparticles. <i>Tissue Engineering - Part C: Methods</i> , 2020 , 26, 1-10	2.9	6
211	Photomagnetic Prussian blue nanocubes: Synthesis, characterization, and biomedical applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020 , 24, 102138	6	11
210	Synchronously Amplified Photoacoustic Image Recovery (SAPHIRE). <i>Photoacoustics</i> , 2020 , 20, 100198	9	3
209	A Trimodal Ultrasound, Photoacoustic and Magnetic Resonance Imaging Approach for Longitudinal Post-operative Monitoring of Stem Cells in the Spinal Cord. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 3468-3474	3.5	4
208	Design of a Volumetric Imaging Sequence Using a Vantage-256 Ultrasound Research Platform Multiplexed With a 1024-Element Fully Sampled Matrix Array. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 248-257	3.2	7
207	Photoacoustic imaging of gold nanorods in the brain delivered via microbubble-assisted focused ultrasound: a tool for molecular neuroimaging. <i>Laser Physics Letters</i> , 2019 , 16,	1.5	15

206	Photothermal transformation of Au-Ag nanocages under pulsed laser irradiation. <i>Nanoscale</i> , 2019 , 11, 3013-3020	7.7	20
205	Color-coded perfluorocarbon nanodroplets for multiplexed ultrasound and Photoacoustic imaging. <i>Nano Research</i> , 2019 , 12, 741-747	10	12
204	Ultrasound-guided immunofunctional photoacoustic imaging for diagnosis of lymph node metastases. <i>Nanoscale</i> , 2019 , 11, 11649-11659	7.7	15
203	Lipid Shell Composition Plays a Critical Role in the Stable Size Reduction of Perfluorocarbon Nanodroplets. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 1489-1499	3.5	7
202	Miniature gold nanorods for photoacoustic molecular imaging in the second near-infrared optical window. <i>Nature Nanotechnology</i> , 2019 , 14, 465-472	28.7	226
201	Leveraging the Imaging Transmit Pulse to Manipulate Phase-Change Nanodroplets for Contrast-Enhanced Ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019 , 66, 692-700	3.2	3
200	Combined Multiwavelength Photoacoustic and Plane-Wave Ultrasound Imaging for Probing Dynamic Phase-Change Contrast Agents. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 595-598 ⁵		8
199	Gas-generating nanoparticles for contrast-enhanced ultrasound imaging. <i>Nanoscale</i> , 2019 , 11, 16235-16240	7.7	6
198	Development of a stem cell tracking platform for ophthalmic applications using ultrasound and photoacoustic imaging. <i>Theranostics</i> , 2019 , 9, 3812-3824	12.1	20
197	Photoacoustics of core-shell nanospheres using comprehensive modeling and analytical solution approach. <i>Communications Physics</i> , 2019 , 2,	5.4	15
196	Photoacoustic imaging of cancer cells with glycol-chitosan-coated gold nanoparticles as contrast agents. <i>Journal of Biomedical Optics</i> , 2019 , 24, 1-5	3.5	25
195	Photoacoustic properties of anterior ocular tissues. <i>Journal of Biomedical Optics</i> , 2019 , 24, 1-11	3.5	5
194	Toward optimization of blood brain barrier opening induced by laser-activated perfluorocarbon nanodroplets. <i>Biomedical Optics Express</i> , 2019 , 10, 3139-3151	3.5	3
193	Design and Demonstration of a Configurable Imaging Platform for Combined Laser, Ultrasound, and Elasticity Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 1622-1632	11.7	5
192	Super-Resolution Imaging With Ultrafast Ultrasound Imaging of Optically Triggered Perfluorohexane Nanodroplets. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 2277-2285	3.2	18
191	Tunable aggregation of gold-silica janus nanoparticles to enable contrast-enhanced multiwavelength photoacoustic imaging in vivo. <i>Nanoscale</i> , 2018 , 10, 15365-15370	7.7	29
190	Integrated optical coherence tomography and multielement ultrasound transducer probe for shear wave elasticity imaging of moving tissues. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-7	3.5	4
189	Photoacoustic speckle tracking for motion estimation and flow analysis. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-9	3.5	5

188	Co-registered photoacoustic and fluorescent imaging of a switchable nanoprobe based on J-aggregates of indocyanine green 2018 ,		2
187	Laser-activated perfluorocarbon nanodroplets: a new tool for blood brain barrier opening. <i>Biomedical Optics Express</i> , 2018 , 9, 4527-4538	3.5	13
186	Laser threshold and cell damage mechanism for intravascular photoacoustic imaging. <i>Lasers in Surgery and Medicine</i> , 2018 , 51, 466	3.6	2
185	Impact of depth-dependent optical attenuation on wavelength selection for spectroscopic photoacoustic imaging. <i>Photoacoustics</i> , 2018 , 12, 46-54	9	6
184	Speed-of-sound Estimation of Dual-acoustic Waves using Laser-activated Nanodroplets. <i>Journal of the Korean Physical Society</i> , 2018 , 73, 586-591	0.6	
183	Exogenous imaging contrast and therapeutic agents for intravascular photoacoustic imaging and image-guided therapy. <i>Physics in Medicine and Biology</i> , 2018 , 63, 22TR01	3.8	13
182	Photoacoustic Image-Guided Delivery of Plasmonic-Nanoparticle-Labeled Mesenchymal Stem Cells to the Spinal Cord. <i>Nano Letters</i> , 2018 , 18, 6625-6632	11.5	39
181	Hybrid intravascular imaging: recent advances, technical considerations, and current applications in the study of plaque pathophysiology. <i>European Heart Journal</i> , 2017 , 38, 400-412	9.5	114
180	The impact of intraocular pressure on elastic wave velocity estimates in the crystalline lens. <i>Physics in Medicine and Biology</i> , 2017 , 62, N45-N57	3.8	13
179	Assessment of plaque vulnerability in atherosclerosis via intravascular photoacoustic imaging of targeted liposomal ICG J-aggregates (Conference Presentation) 2017 ,		2
178	Dynamic contrast-enhanced photoacoustic imaging using photothermal stimuli-responsive composite nanomodulators. <i>Nature Communications</i> , 2017 , 8, 15782	17.4	62
177	Real-Time Intravascular Ultrasound and Photoacoustic Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017 , 64, 141-149	3.2	26
176	In vivo photoacoustic detection of lymph node metastasis using glycol-chitosan-coated gold nanoparticles 2017 ,		1
175	Copper Sulfide Perfluorocarbon Nanodroplets as Clinically Relevant Photoacoustic/Ultrasound Imaging Agents. <i>Nano Letters</i> , 2017 , 17, 5984-5989	11.5	58
174	Contrast-enhanced ultrasound imaging in vivo with laser-activated nanodroplets. <i>Medical Physics</i> , 2017 , 44, 3444-3449	4.4	24
173	Dual-Phase Transmit Focusing for Multiangle Compound Shear-Wave Elasticity Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017 , 64, 1439-1449	3.2	2
172	Fluid flow measurement for diagnosis of ventricular shunt malfunction using nonlinear responses of microbubbles in the contrast-enhanced ultrasound imaging. <i>Japanese Journal of Applied Physics</i> , 2017 , 56,	1.4	3
171	Ultrasound-guided spectral photoacoustic imaging of hemoglobin oxygenation during development. <i>Biomedical Optics Express</i> , 2017 , 8, 757-763	3.5	19

170	Optimization of dual-wavelength intravascular photoacoustic imaging of atherosclerotic plaques using Monte Carlo optical modeling. <i>Journal of Biomedical Optics</i> , 2017 , 22, 1-12	3.5	5
169	Ultrasound-guided photoacoustic imaging-directed re-endothelialization of acellular vasculature leads to improved vascular performance. <i>Acta Biomaterialia</i> , 2016 , 32, 35-45	10.8	8
168	Monitoring/Imaging and Regenerative Agents for Enhancing Tissue Engineering Characterization and Therapies. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 750-72	4.7	17
167	Blinking Phase-Change Nanocapsules Enable Background-Free Ultrasound Imaging. <i>Theranostics</i> , 2016 , 6, 1866-76	12.1	36
166	photoacoustic sensing of calcium dynamics with Arsenazo III. <i>Laser Physics Letters</i> , 2016 , 13,	1.5	10
165	Super-Resolution Ultrasound Imaging in Vivo with Transient Laser-Activated Nanodroplets. <i>Nano Letters</i> , 2016 , 16, 2556-9	11.5	79
164	Visualization of molecular composition and functionality of cancer cells using nanoparticle-augmented ultrasound-guided photoacoustics. <i>Photoacoustics</i> , 2015 , 3, 26-34	9	36
163	The dynamic deformation of a layered viscoelastic medium under surface excitation. <i>Physics in Medicine and Biology</i> , 2015 , 60, 4295-312	3.8	16
162	Quantitative contrast-enhanced ultrasound measurement of cerebrospinal fluid flow for the diagnosis of ventricular shunt malfunction. <i>Journal of Neurosurgery</i> , 2015 , 123, 1420-6	3.2	8
161	Biodegradable Plasmonic Nanoparticles: Overcoming Clinical Translation Barriers 2015 ,		2
160	Combined ultrasound and photoacoustic imaging to noninvasively assess burn injury and selectively monitor a regenerative tissue-engineered construct. <i>Tissue Engineering - Part C: Methods</i> , 2015 , 21, 557-66	2.9	29
159	Imaging strategies for tissue engineering applications. <i>Tissue Engineering - Part B: Reviews</i> , 2015 , 21, 88-102	7.9	85
158	Synthesis of Iron Oxide Nanoclusters with Enhanced Magnetization and Their Applications in Pulsed Magneto-Motive Ultrasound Imaging. <i>Nano</i> , 2015 , 10, 1550073	1.1	6
157	Label-free Detection of Lymph Node Metastases with US-guided Functional Photoacoustic Imaging. <i>Radiology</i> , 2015 , 277, 435-42	20.5	46
156	Assessing age-related changes in the biomechanical properties of rabbit lens using a coaligned ultrasound and optical coherence elastography system. <i>Investigative Ophthalmology and Visual Science</i> , 2015 , 56, 1292-300		66
155	Photoacoustic Imaging for Cancer Diagnosis and Therapy Guidance 2014 , 139-158		4
154	Ultrasound-guided photoacoustic imaging: current state and future development. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 450-66	3.2	60
153	Multimodal Magneto-Plasmonic Nanoclusters for Biomedical Applications. <i>Advanced Functional Materials</i> , 2014 , 24, 6862-6871	15.6	35

152	In-vivo ultrasound and photoacoustic image- guided photothermal cancer therapy using silica-coated gold nanorods. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 891-897	3.2	21
151	Sentinel lymph node biopsy revisited: ultrasound-guided photoacoustic detection of micrometastases using molecularly targeted plasmonic nanosensors. <i>Cancer Research</i> , 2014 , 74, 5397-408 ^{10.1}		74
150	Muscle as a molecular machine for protecting joints and bones by absorbing mechanical impacts. <i>Medical Hypotheses</i> , 2014 , 83, 6-10	3.8	13
149	Indocyanine green-loaded photoacoustic nanodroplets: dual contrast nanoconstructs for enhanced photoacoustic and ultrasound imaging. <i>ACS Nano</i> , 2014 , 8, 250-9	16.7	174
148	In vitro photoacoustic visualization of myocardial ablation lesions. <i>Heart Rhythm</i> , 2014 , 11, 150-7	6.7	49
147	Contrast-enhanced magneto-photo-acoustic imaging using dual-contrast nanoparticles. <i>Photoacoustics</i> , 2014 , 2, 55-62	9	18
146	In-vivo ultrasound and photoacoustic image- guided photothermal cancer therapy using silica-coated gold nanorods. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 891-7	3.2	9
145	Air-puff OCE for assessment of mouse corneain vivo 2014 ,		2
144	Optimization of in vivo spectroscopic photoacoustic imaging by smart optical wavelength selection. <i>Optics Letters</i> , 2014 , 39, 2214-7	3	13
143	Spatial characterization of corneal biomechanical properties with optical coherence elastography after UV cross-linking. <i>Biomedical Optics Express</i> , 2014 , 5, 1419-27	3.5	56
142	Photoacoustic and ultrasound imaging using dual contrast perfluorocarbon nanodroplets triggered by laser pulses at 1064 nm. <i>Biomedical Optics Express</i> , 2014 , 5, 3042-52	3.5	45
141	System and integrated catheter for real-time intravascular ultrasound and photoacoustic imaging 2014 ,		2
140	Array-Based Real-Time Ultrasound and Photoacoustic Ocular Imaging. <i>Journal of the Optical Society of Korea</i> , 2014 , 18, 151-155		15
139	Photoacoustic signal amplification through plasmonic nanoparticle aggregation. <i>Journal of Biomedical Optics</i> , 2013 , 18, 16001	3.5	51
138	Optical wavelength selection for improved spectroscopic photoacoustic imaging. <i>Photoacoustics</i> , 2013 , 1, 36-42	9	66
137	In vivo pulsed magneto-motive ultrasound imaging using high-performance magnetoactive contrast nanoagents. <i>Nanoscale</i> , 2013 , 5, 11179-86	7.7	40
136	Quantitative photoacoustic imaging of nanoparticles in cells and tissues. <i>ACS Nano</i> , 2013 , 7, 1272-80	16.7	47
135	The mechanical properties of ex vivo bovine and porcine crystalline lenses: age-related changes and location-dependent variations. <i>Ultrasound in Medicine and Biology</i> , 2013 , 39, 1120-7	3.5	23

134	Intravascular photoacoustics for image-guidance and temperature monitoring during plasmonic photothermal therapy of atherosclerotic plaques: a feasibility study. <i>Theranostics</i> , 2013 , 4, 36-46	12.1	41
133	Conjugation of antibodies to gold nanorods through Fc portion: synthesis and molecular specific imaging. <i>Bioconjugate Chemistry</i> , 2013 , 24, 878-88	6.3	77
132	Ligand-mediated self-assembly of hybrid plasmonic and superparamagnetic nanostructures. <i>Langmuir</i> , 2013 , 29, 2465-70	4	26
131	Photoacoustic imaging: a potential tool to detect early indicators of metastasis. <i>Expert Review of Medical Devices</i> , 2013 , 10, 125-34	3.5	18
130	Correspondence: Spatial variations of viscoelastic properties of porcine vitreous humors. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013 , 60, 2453-60	3.2	5
129	Silica-coated gold nanoplates as stable photoacoustic contrast agents for sentinel lymph node imaging. <i>Nanotechnology</i> , 2013 , 24, 455101	3.4	57
128	Influence of nanosecond pulsed laser irradiance on the viability of nanoparticle-loaded cells: implications for safety of contrast-enhanced photoacoustic imaging. <i>Nanotechnology</i> , 2013 , 24, 465101	3.4	8
127	Development and optimization of near-IR contrast agents for immune cell tracking. <i>Biomedical Optics Express</i> , 2013 , 4, 2609-18	3.5	18
126	Assessing the mechanical properties of tissue-mimicking phantoms at different depths as an approach to measure biomechanical gradient of crystalline lens. <i>Biomedical Optics Express</i> , 2013 , 4, 2769-80	3.5	16
125	Modulation of photoacoustic signal generation from metallic surfaces. <i>Journal of Biomedical Optics</i> , 2013 , 18, 56008	3.5	11
124	Dynamic optical coherence tomography measurements of elastic wave propagation in tissue-mimicking phantoms and mouse cornea in vivo. <i>Journal of Biomedical Optics</i> , 2013 , 18, 121503	3.5	43
123	Sensitivity enhanced nanothermal sensors for photoacoustic temperature mapping. <i>Journal of Biophotonics</i> , 2013 , 6, 534-42	3.1	22
122	Photoacoustic Imaging for Cancer Detection and Staging. <i>Current Molecular Imaging</i> , 2013 , 2, 89-105		139
121	Evaluation of gold nanotracers to track adipose-derived stem cells in a PEGylated fibrin gel for dermal tissue engineering applications. <i>International Journal of Nanomedicine</i> , 2013 , 8, 325-36	7.3	41
120	Noninvasive detection of intimal xanthoma using combined ultrasound, strain rate and photoacoustic imaging. <i>Ultrasonics</i> , 2012 , 52, 435-41	3.5	7
119	Biomedical applications of photoacoustic imaging with exogenous contrast agents. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 422-37	4.7	276
118	In vivo intravascular ultrasound-guided photoacoustic imaging of lipid in plaques using an animal model of atherosclerosis. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 2098-103	3.5	89
117	Silver nanoplate contrast agents for in vivo molecular photoacoustic imaging. <i>ACS Nano</i> , 2012 , 6, 641-50	16.7	186

116	PHOTOACOUSTIC IMAGING FOR MEDICAL DIAGNOSTICS. <i>Acoustics Today</i> , 2012 , 8, 15-23	0	24
115	Multifunctional nanoscale strategies for enhancing and monitoring blood vessel regeneration. <i>Nano Today</i> , 2012 , 7, 514-531	17.9	17
114	Biomedical photoacoustics beyond thermal expansion using triggered nanodroplet vaporization for contrast-enhanced imaging. <i>Nature Communications</i> , 2012 , 3, 618	17.4	301
113	In vivo ultrasound and photoacoustic monitoring of mesenchymal stem cells labeled with gold nanotracers. <i>PLoS ONE</i> , 2012 , 7, e37267	3.7	137
112	Environment-dependent generation of photoacoustic waves from plasmonic nanoparticles. <i>Small</i> , 2012 , 8, 47-52	11	78
111	In vivo estimation of elastic wave parameters using phase-stabilized swept source optical coherence elastography. <i>Journal of Biomedical Optics</i> , 2012 , 17, 100501	3.5	41
110	Feasibility of in vivo intravascular photoacoustic imaging using integrated ultrasound and photoacoustic imaging catheter. <i>Journal of Biomedical Optics</i> , 2012 , 17, 96008-1	3.5	35
109	Intravascular photoacoustic imaging of exogenously labeled atherosclerotic plaque through luminal blood. <i>Journal of Biomedical Optics</i> , 2012 , 17, 106016	3.5	36
108	Introduction to the BIOMED 2012 Feature Issue. <i>Biomedical Optics Express</i> , 2012 , 3, 2771	3.5	
107	Thermal stability of biodegradable plasmonic nanoclusters in photoacoustic imaging. <i>Optics Express</i> , 2012 , 20, 29479-87	3.3	17
106	Intravascular photoacoustic imaging of lipid in atherosclerotic plaques in the presence of luminal blood. <i>Optics Letters</i> , 2012 , 37, 1244-6	3	108
105	Nonlinear photoacoustic signal increase from endocytosis of gold nanoparticles. <i>Optics Letters</i> , 2012 , 37, 4708-10	3	49
104	Intravascular photoacoustic imaging of gold nanorod-labeled atherosclerotic plaques 2012 ,		2
103	A high pulse repetition frequency ultrasound system for the ex vivo measurement of mechanical properties of crystalline lenses with laser-induced microbubbles interrogated by acoustic radiation force. <i>Physics in Medicine and Biology</i> , 2012 , 57, 4871-84	3.8	12
102	Elasticity Imaging and Sensing Using Targeted Motion: From Macro to Nano. <i>Current Medical Imaging</i> , 2012 , 8, 3-15	1.2	8
101	Photoacoustic Characterization of Radiofrequency Ablation Lesions. <i>Proceedings of SPIE</i> , 2012 , 8223,	1.7	6
100	Feasibility of Contrast-Enhanced Photoacoustic Liver Imaging at a Wavelength of 1064 nm 2012 ,		3
99	Silica-coated gold nanorods as photoacoustic signal nanoamplifiers. <i>Nano Letters</i> , 2011 , 11, 348-54	11.5	388

98	Methodical study on plaque characterization using integrated vascular ultrasound, strain and spectroscopic photoacoustic imaging 2011 ,		8
97	An autocorrelation-based method for improvement of sub-pixel displacement estimation in ultrasound strain imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 838-43	3.2	13
96	Magneto-photo-acoustic imaging. <i>Biomedical Optics Express</i> , 2011 , 2, 385	3.5	51
95	Multiplex photoacoustic molecular imaging using targeted silica-coated gold nanorods. <i>Biomedical Optics Express</i> , 2011 , 2, 1828-35	3.5	58
94	Photoacoustic imaging of prostate brachytherapy seeds. <i>Biomedical Optics Express</i> , 2011 , 2, 2243-54	3.5	47
93	In vivo three-dimensional spectroscopic photoacoustic imaging for monitoring nanoparticle delivery. <i>Biomedical Optics Express</i> , 2011 , 2, 2540-50	3.5	90
92	Thermal intravascular photoacoustic imaging. <i>Biomedical Optics Express</i> , 2011 , 2, 3072-8	3.5	22
91	Tissue-mimicking phantoms for photoacoustic and ultrasonic imaging. <i>Biomedical Optics Express</i> , 2011 , 2, 3193-206	3.5	160
90	Pulsed Magneto-motive Ultrasound Imaging Using Ultrasmall Magnetic Nanoprobes. <i>Molecular Imaging</i> , 2011 , 10, 7290.2010.00037	3.7	43
89	Function of mesenchymal stem cells following loading of gold nanotracers. <i>International Journal of Nanomedicine</i> , 2011 , 6, 407-16	7.3	78
88	Ultrasound and photoacoustic imaging to monitor mesenchymal stem cells labeled with gold nanoparticles 2011 ,		4
87	Ultrasound-induced cellular uptake of plasmonic gold nanorods 2011 ,		1
86	Photoacoustic imaging in cancer detection, diagnosis, and treatment guidance. <i>Trends in Biotechnology</i> , 2011 , 29, 213-21	15.1	412
85	Detection of nanoparticle endocytosis using magneto-photoacoustic imaging. <i>Small</i> , 2011 , 7, 2858-62	11	20
84	Silver-Polymer Composite Stars: Synthesis and Applications. <i>Advanced Functional Materials</i> , 2011 , 21, 1673-1680	15.6	41
83	Ultrasound-Based Molecular Imaging Using Nanoagents 2011 , 263-278		1
82	Pulsed magneto-motive ultrasound imaging to detect intracellular trafficking of magnetic nanoparticles. <i>Nanotechnology</i> , 2011 , 22, 415105	3.4	17
81	Clinical benefits of integrating cardiac and vascular models. <i>Expert Opinion on Medical Diagnostics</i> , 2011 , 5, 501-15		

80	Estimation of mechanical properties of a viscoelastic medium using a laser-induced microbubble interrogated by an acoustic radiation force. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 2241-8 ²		15
79	Magneto-photo-acoustic imaging. <i>Biomedical Optics Express</i> , 2011 , 2, 385-96	3.5	26
78	Pulsed magneto-motive ultrasound imaging using ultrasmall magnetic nanoprobles. <i>Molecular Imaging</i> , 2011 , 10, 102-10	3.7	21
77	Intravascular Photoacoustic and Ultrasound Imaging: From Tissue Characterization to Molecular Imaging to Image-Guided Therapy 2011 , 787-816		1
76	Silver nanosystems for photoacoustic imaging and image-guided therapy. <i>Journal of Biomedical Optics</i> , 2010 , 15, 021316	3.5	45
75	Intravascular photoacoustic imaging of macrophages using molecularly targeted gold nanoparticles 2010 ,		8
74	On stability of molecular therapeutic agents for noninvasive photoacoustic and ultrasound image-guided photothermal therapy 2010 ,		4
73	Combined photoacoustic and magneto-motive ultrasound imaging 2010 ,		4
72	Remotely triggered contrast nanoagent for ultrasound and photoacoustic imaging 2010 ,		1
71	Development of a catheter for combined intravascular ultrasound and photoacoustic imaging. <i>Review of Scientific Instruments</i> , 2010 , 81, 014901	1.7	95
70	Molecular diagnosis of cancer using multiplex photoacoustic imaging with targeted nanorods 2010 ,		1
69	Ultrasound and photoacoustic image-guided photothermal therapy using silica-coated gold nanorods: In-vivo study 2010 ,		5
68	Advances in Clinical and Biomedical Applications of Photoacoustic Imaging. <i>Expert Opinion on Medical Diagnostics</i> , 2010 , 4, 497-510		54
67	Staging atherosclerosis using ultrasound, strain and photoacoustic imaging 2010 ,		1
66	Photoacoustic imaging of clinical metal needles in tissue. <i>Journal of Biomedical Optics</i> , 2010 , 15, 021309	3.5	71
65	Biodegradable plasmonic nanoclusters as contrast agent for photoacoustic imaging 2010 ,		3
64	Integrated catheter for intravascular ultrasound and photoacoustic imaging 2010 ,		3
63	Photoacoustic and ultrasound imaging contrast enhancement using a dual contrast agent 2010 ,		7

62	Magneto-photo-acoustic imaging using dual-contrast agent 2010 ,		3
61	Measurements of young's modulus of viscoelastic medium using a laser-induced microbubble under acoustic radiation force 2010 ,		1
60	Detection of lipid in atherosclerotic vessels using ultrasound-guided spectroscopic intravascular photoacoustic imaging. <i>Optics Express</i> , 2010 , 18, 4889-97	3.3	135
59	Enhanced thermal stability of silica-coated gold nanorods for photoacoustic imaging and image-guided therapy. <i>Optics Express</i> , 2010 , 18, 8867-78	3.3	297
58	Prospects of molecular photoacoustic imaging at 1064 nm wavelength. <i>Optics Letters</i> , 2010 , 35, 2663-5	3	83
57	Utility of biodegradable plasmonic nanoclusters in photoacoustic imaging. <i>Optics Letters</i> , 2010 , 35, 3751-3	3.3	45
56	Synthesis of a dual contrast agent for ultrasound and photoacoustic imaging 2010 ,		5
55	Temperature Measurements 2010 , 399-453		
54	On application of magnetic nanoclusters to improve the sensitivity of pulsed magnetomotive ultrasound imaging 2010 ,		1
53	Intravascular Photoacoustic Imaging. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 588-599	3.8	83
52	On sensitivity of molecular specific photoacoustic imaging using plasmonic gold nanoparticles. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 6338-40	0.9	5
51	Combined photoacoustic and magneto-acoustic imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 4763-6	0.9	8
50	On the possibility to detect lipid in atherosclerotic plaques using intravascular photoacoustic imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 4767-70	0.9	2
49	Pulsed magneto-acoustic imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 4771-4	0.9	28
48	Ultrasound and photoacoustic imaging to monitor vascular growth in tissue engineered constructs 2009 ,		4
47	High sensitivity intravascular photoacoustic imaging of macrophages 2009 ,		2
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