

# Stanislav Y Emelianov

## List of Publications by Citations

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223  
papers

10,591  
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52  
h-index

97  
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257  
ext. papers

12,419  
ext. citations

5.2  
avg, IF

6.47  
L-index

#	Paper	IF	Citations
223	Shear wave elasticity imaging: a new ultrasonic technology of medical diagnostics. <i>Ultrasound in Medicine and Biology</i> , <b>1998</b> , 24, 1419-35	3.5	1174
222	Photoacoustic imaging in cancer detection, diagnosis, and treatment guidance. <i>Trends in Biotechnology</i> , <b>2011</b> , 29, 213-21	15.1	412
221	Silica-coated gold nanorods as photoacoustic signal nanoamplifiers. <i>Nano Letters</i> , <b>2011</b> , 11, 348-54	11.5	388
220	Multiwavelength photoacoustic imaging and plasmon resonance coupling of gold nanoparticles for selective detection of cancer. <i>Nano Letters</i> , <b>2009</b> , 9, 2825-31	11.5	370
219	Biomedical photoacoustics beyond thermal expansion using triggered nanodroplet vaporization for contrast-enhanced imaging. <i>Nature Communications</i> , <b>2012</b> , 3, 618	17.4	301
218	Enhanced thermal stability of silica-coated gold nanorods for photoacoustic imaging and image-guided therapy. <i>Optics Express</i> , <b>2010</b> , 18, 8867-78	3.3	297
217	Biomedical applications of photoacoustic imaging with exogenous contrast agents. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 422-37	4.7	276
216	Miniature gold nanorods for photoacoustic molecular imaging in the second near-infrared optical window. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 465-472	28.7	226
215	Photoacoustic imaging and temperature measurement for photothermal cancer therapy. <i>Journal of Biomedical Optics</i> , <b>2008</b> , 13, 034024	3.5	225
214	Silver nanoplate contrast agents for in vivo molecular photoacoustic imaging. <i>ACS Nano</i> , <b>2012</b> , 6, 641-50	16.7	186
213	Indocyanine green-loaded photoacoustic nanodroplets: dual contrast nanoconstructs for enhanced photoacoustic and ultrasound imaging. <i>ACS Nano</i> , <b>2014</b> , 8, 250-9	16.7	174
212	Spectroscopic intravascular photoacoustic imaging to differentiate atherosclerotic plaques. <i>Optics Express</i> , <b>2008</b> , 16, 3362-7	3.3	171
211	Photoacoustics for molecular imaging and therapy. <i>Physics Today</i> , <b>2009</b> , 62, 34-39	0.9	170
210	Plasmonic intravascular photoacoustic imaging for detection of macrophages in atherosclerotic plaques. <i>Nano Letters</i> , <b>2009</b> , 9, 2212-7	11.5	169
209	Tissue-mimicking phantoms for photoacoustic and ultrasonic imaging. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 3193-206	3.5	160
208	Molecular specific optoacoustic imaging with plasmonic nanoparticles. <i>Optics Express</i> , <b>2007</b> , 15, 6583-8	3.3	153
207	Detection of magnetic nanoparticles in tissue using magneto-motive ultrasound. <i>Nanotechnology</i> , <b>2006</b> , 17, 4183-90	3.4	143

206	Photoacoustic Imaging for Cancer Detection and Staging. <i>Current Molecular Imaging</i> , <b>2013</b> , 2, 89-105		139
205	In vivo ultrasound and photoacoustic monitoring of mesenchymal stem cells labeled with gold nanotracers. <i>PLoS ONE</i> , <b>2012</b> , 7, e37267	3.7	137
204	Detection of lipid in atherosclerotic vessels using ultrasound-guided spectroscopic intravascular photoacoustic imaging. <i>Optics Express</i> , <b>2010</b> , 18, 4889-97	3.3	135
203	Elasticity reconstructive imaging by means of stimulated echo MRI. <i>Magnetic Resonance in Medicine</i> , <b>1998</b> , 39, 482-90	4.4	128
202	Intravascular photoacoustic imaging using an IVUS imaging catheter. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2007</b> , 54, 978-86	3.2	119
201	Hybrid intravascular imaging: recent advances, technical considerations, and current applications in the study of plaque pathophysiology. <i>European Heart Journal</i> , <b>2017</b> , 38, 400-412	9.5	114
200	Intravascular photoacoustic imaging of lipid in atherosclerotic plaques in the presence of luminal blood. <i>Optics Letters</i> , <b>2012</b> , 37, 1244-6	3	108
199	Development of a catheter for combined intravascular ultrasound and photoacoustic imaging. <i>Review of Scientific Instruments</i> , <b>2010</b> , 81, 014901	1.7	95
198	In vivo three-dimensional spectroscopic photoacoustic imaging for monitoring nanoparticle delivery. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 2540-50	3.5	90
197	In vivo intravascular ultrasound-guided photoacoustic imaging of lipid in plaques using an animal model of atherosclerosis. <i>Ultrasound in Medicine and Biology</i> , <b>2012</b> , 38, 2098-103	3.5	89
196	Imaging strategies for tissue engineering applications. <i>Tissue Engineering - Part B: Reviews</i> , <b>2015</b> , 21, 88-102	7.9	85
195	Prospects of molecular photoacoustic imaging at 1064 nm wavelength. <i>Optics Letters</i> , <b>2010</b> , 35, 2663-5	3	83
194	Intravascular Photoacoustic Imaging. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2010</b> , 16, 588-599	3.8	83
193	Super-Resolution Ultrasound Imaging in Vivo with Transient Laser-Activated Nanodroplets. <i>Nano Letters</i> , <b>2016</b> , 16, 2556-9	11.5	79
192	Environment-dependent generation of photoacoustic waves from plasmonic nanoparticles. <i>Small</i> , <b>2012</b> , 8, 47-52	11	78
191	Function of mesenchymal stem cells following loading of gold nanotracers. <i>International Journal of Nanomedicine</i> , <b>2011</b> , 6, 407-16	7.3	78
190	Conjugation of antibodies to gold nanorods through Fc portion: synthesis and molecular specific imaging. <i>Bioconjugate Chemistry</i> , <b>2013</b> , 24, 878-88	6.3	77
189	Strain imaging of corneal tissue with an ultrasound elasticity microscope. <i>Cornea</i> , <b>2002</b> , 21, 68-73	3.1	77

188	Sentinel lymph node biopsy revisited: ultrasound-guided photoacoustic detection of micrometastases using molecularly targeted plasmonic nanosensors. <i>Cancer Research</i> , <b>2014</b> , 74, 5397-408 <sup>10.1</sup>	74
187	Photoacoustic imaging of clinical metal needles in tissue. <i>Journal of Biomedical Optics</i> , <b>2010</b> , 15, 021309	3.5 71
186	Three-dimensional static displacement, stimulated echo NMR elasticity imaging. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 1633-48	3.8 67
185	Optical wavelength selection for improved spectroscopic photoacoustic imaging. <i>Photoacoustics</i> , <b>2013</b> , 1, 36-42	9 66
184	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> , <b>2015</b> , 56, 1292-300	66
183	Dynamic contrast-enhanced photoacoustic imaging using photothermal stimuli-responsive composite nanomodulators. <i>Nature Communications</i> , <b>2017</b> , 8, 15782	17.4 62
182	Sonographic elasticity imaging of acute and chronic deep venous thrombosis in humans. <i>Journal of Ultrasound in Medicine</i> , <b>2006</b> , 25, 1179-86	2.9 62
181	Ultrasound-guided photoacoustic imaging: current state and future development. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2014</b> , 61, 450-66	3.2 60
180	Copper Sulfide Perfluorocarbon Nanodroplets as Clinically Relevant Photoacoustic/Ultrasound Imaging Agents. <i>Nano Letters</i> , <b>2017</b> , 17, 5984-5989	11.5 58
179	Multiplex photoacoustic molecular imaging using targeted silica-coated gold nanorods. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 1828-35	3.5 58
178	Silica-coated gold nanoplates as stable photoacoustic contrast agents for sentinel lymph node imaging. <i>Nanotechnology</i> , <b>2013</b> , 24, 455101	3.4 57
177	Poly(lactic-co-glycolic) acid as a carrier for imaging contrast agents. <i>Pharmaceutical Research</i> , <b>2009</b> , 26, 674-82	4.5 57
176	Combined ultrasound and photoacoustic imaging to detect and stage deep vein thrombosis: phantom and ex vivo studies. <i>Journal of Biomedical Optics</i> , <b>2008</b> , 13, 054061	3.5 57
175	Spatial characterization of corneal biomechanical properties with optical coherence elastography after UV cross-linking. <i>Biomedical Optics Express</i> , <b>2014</b> , 5, 1419-27	3.5 56
174	Adaptive beamforming for photoacoustic imaging. <i>Optics Letters</i> , <b>2008</b> , 33, 1291-3	3 56
173	Advances in Clinical and Biomedical Applications of Photoacoustic Imaging. <i>Expert Opinion on Medical Diagnostics</i> , <b>2010</b> , 4, 497-510	54
172	Motion of a solid sphere in a viscoelastic medium in response to applied acoustic radiation force: Theoretical analysis and experimental verification. <i>Journal of the Acoustical Society of America</i> , <b>2007</b> , 122, 1927-36	2.2 53
171	Photoacoustic signal amplification through plasmonic nanoparticle aggregation. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 16001	3.5 51

170	Magneto-photo-acoustic imaging. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 385	3.5	51
169	Ex vivo Characterization of Atherosclerosis using Intravascular Photoacoustic Imaging. <i>Optics Express</i> , <b>2007</b> , 15, 16657-66	3.3	51
168	Correspondence of ultrasound elasticity imaging to direct mechanical measurement in aging DVT in rats. <i>Ultrasound in Medicine and Biology</i> , <b>2005</b> , 31, 1351-9	3.5	51
167	In vitro photoacoustic visualization of myocardial ablation lesions. <i>Heart Rhythm</i> , <b>2014</b> , 11, 150-7	6.7	49
166	Nonlinear photoacoustic signal increase from endocytosis of gold nanoparticles. <i>Optics Letters</i> , <b>2012</b> , 37, 4708-10	3	49
165	Quantitative photoacoustic imaging of nanoparticles in cells and tissues. <i>ACS Nano</i> , <b>2013</b> , 7, 1272-80	16.7	47
164	Photoacoustic imaging of prostate brachytherapy seeds. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 2243-54	3.5	47
163	Label-free Detection of Lymph Node Metastases with US-guided Functional Photoacoustic Imaging. <i>Radiology</i> , <b>2015</b> , 277, 435-42	20.5	46
162	Gas bubble and solid sphere motion in elastic media in response to acoustic radiation force. <i>Journal of the Acoustical Society of America</i> , <b>2005</b> , 117, 2338-46	2.2	46
161	Photoacoustic and ultrasound imaging using dual contrast perfluorocarbon nanodroplets triggered by laser pulses at 1064 nm. <i>Biomedical Optics Express</i> , <b>2014</b> , 5, 3042-52	3.5	45
160	Silver nanosystems for photoacoustic imaging and image-guided therapy. <i>Journal of Biomedical Optics</i> , <b>2010</b> , 15, 021316	3.5	45
159	Utility of biodegradable plasmonic nanoclusters in photoacoustic imaging. <i>Optics Letters</i> , <b>2010</b> , 35, 3751-3	3.3	45
158	Staging deep venous thrombosis using ultrasound elasticity imaging: animal model. <i>Ultrasound in Medicine and Biology</i> , <b>2004</b> , 30, 1385-96	3.5	45
157	Dynamic optical coherence tomography measurements of elastic wave propagation in tissue-mimicking phantoms and mouse cornea in vivo. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 121503	3.5	43
156	Pulsed Magneto-motive Ultrasound Imaging Using Ultrasmall Magnetic Nanoprobes. <i>Molecular Imaging</i> , <b>2011</b> , 10, 7290.2010.00037	3.7	43
155	Photoacoustic imaging of coronary artery stents. <i>Optics Express</i> , <b>2009</b> , 17, 19894-901	3.3	42
154	Intravascular photoacoustics for image-guidance and temperature monitoring during plasmonic photothermal therapy of atherosclerotic plaques: a feasibility study. <i>Theranostics</i> , <b>2013</b> , 4, 36-46	12.1	41
153	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> , <b>2013</b> , 8, 325-36	7.3	41

152	Silver-Polymer Composite Stars: Synthesis and Applications. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 1673-1680	15.6	41
151	In vivo estimation of elastic wave parameters using phase-stabilized swept source optical coherence elastography. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 100501	3.5	41
150	In vivo pulsed magneto-motive ultrasound imaging using high-performance magnetoactive contrast nanoagents. <i>Nanoscale</i> , <b>2013</b> , 5, 11179-86	7.7	40
149	Assessment of shear modulus of tissue using ultrasound radiation force acting on a spherical acoustic inhomogeneity. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2009</b> , 56, 2380-7	3.2	40
148	Clinical application of sonographic elasticity imaging for aging of deep venous thrombosis: preliminary findings. <i>Journal of Ultrasound in Medicine</i> , <b>2003</b> , 22, 443-8	2.9	39
147	Photoacoustic Image-Guided Delivery of Plasmonic-Nanoparticle-Labeled Mesenchymal Stem Cells to the Spinal Cord. <i>Nano Letters</i> , <b>2018</b> , 18, 6625-6632	11.5	39
146	Visualization of molecular composition and functionality of cancer cells using nanoparticle-augmented ultrasound-guided photoacoustics. <i>Photoacoustics</i> , <b>2015</b> , 3, 26-34	9	36
145	Intravascular photoacoustic imaging of exogenously labeled atherosclerotic plaque through luminal blood. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 106016	3.5	36
144	Ultrasound imaging to monitor photothermal therapy - feasibility study. <i>Optics Express</i> , <b>2008</b> , 16, 3776-85	3.3	36
143	Blinking Phase-Change Nanocapsules Enable Background-Free Ultrasound Imaging. <i>Theranostics</i> , <b>2016</b> , 6, 1866-76	12.1	36
142	Multimodal Magneto-Plasmonic Nanoclusters for Biomedical Applications. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 6862-6871	15.6	35
141	Feasibility of in vivo intravascular photoacoustic imaging using integrated ultrasound and photoacoustic imaging catheter. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 96008-1	3.5	35
140	Combined ultrasound, optoacoustic, and elasticity imaging <b>2004</b> ,		31
139	Feasibility of applying ultrasound strain imaging to detect renal transplant chronic allograft nephropathy. <i>Kidney International</i> , <b>2004</b> , 65, 733-6	9.9	31
138	Nonlinear dynamics of a gas bubble in an incompressible elastic medium. <i>Journal of the Acoustical Society of America</i> , <b>2004</b> , 115, 581-8	2.2	30
137	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> , <b>2015</b> , 21, 557-66	2.9	29
136	Tunable aggregation of gold-silica janus nanoparticles to enable contrast-enhanced multiwavelength photoacoustic imaging in vivo. <i>Nanoscale</i> , <b>2018</b> , 10, 15365-15370	7.7	29
135	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> , <b>2009</b> , 2009, 4771-4	0.9	28

134	Real-Time Intravascular Ultrasound and Photoacoustic Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2017</b> , 64, 141-149	3.2	26
133	Ligand-mediated self-assembly of hybrid plasmonic and superparamagnetic nanostructures. <i>Langmuir</i> , <b>2013</b> , 29, 2465-70	4	26
132	Ultrasound measurements of cavitation bubble radius for femtosecond laser-induced breakdown in water. <i>Optics Letters</i> , <b>2008</b> , 33, 1357-9	3	26
131	Remote temperature estimation in intravascular photoacoustic imaging. <i>Ultrasound in Medicine and Biology</i> , <b>2008</b> , 34, 299-308	3.5	26
130	Elasticity imaging using conventional and high-frame rate ultrasound imaging: experimental study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2007</b> , 54, 2246-56	3.2	26
129	Magneto-photo-acoustic imaging. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 385-96	3.5	26
128	Photoacoustic imaging of cancer cells with glycol-chitosan-coated gold nanoparticles as contrast agents. <i>Journal of Biomedical Optics</i> , <b>2019</b> , 24, 1-5	3.5	25
127	Contrast-enhanced ultrasound imaging in vivo with laser-activated nanodroplets. <i>Medical Physics</i> , <b>2017</b> , 44, 3444-3449	4.4	24
126	PHOTOACOUSTIC IMAGING FOR MEDICAL DIAGNOSTICS. <i>Acoustics Today</i> , <b>2012</b> , 8, 15-23	0	24
125	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> , <b>2013</b> , 39, 1120-7	3.5	23
124	Sensitivity enhanced nanothermal sensors for photoacoustic temperature mapping. <i>Journal of Biophotonics</i> , <b>2013</b> , 6, 534-42	3.1	22
123	Thermal intravascular photoacoustic imaging. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 3072-8	3.5	22
122	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> , <b>2014</b> , 61, 891-897	3.2	21
121	Strain imaging using conventional and ultrafast ultrasound imaging: numerical analysis. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2007</b> , 54, 987-95	3.2	21
120	Pulsed magneto-motive ultrasound imaging using ultrasmall magnetic nanoprobcs. <i>Molecular Imaging</i> , <b>2011</b> , 10, 102-10	3.7	21
119	Photothermal transformation of Au-Ag nanocages under pulsed laser irradiation. <i>Nanoscale</i> , <b>2019</b> , 11, 3013-3020	7.7	20
118	Development of a stem cell tracking platform for ophthalmic applications using ultrasound and photoacoustic imaging. <i>Theranostics</i> , <b>2019</b> , 9, 3812-3824	12.1	20
117	Detection of nanoparticle endocytosis using magneto-photoacoustic imaging. <i>Small</i> , <b>2011</b> , 7, 2858-62	11	20

116	Ultrasound-guided spectral photoacoustic imaging of hemoglobin oxygenation during development. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 757-763	3.5	19
115	Acoustic detection of microbubble formation induced by enhanced optical breakdown of silver/dendrimer nanocomposites. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 994-996	3.4	19
114	Super-Resolution Imaging With Ultrafast Ultrasound Imaging of Optically Triggered Perfluorohexane Nanodroplets. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2018</b> , 65, 2277-2285	3.2	18
113	Contrast-enhanced magneto-photo-acoustic imaging using dual-contrast nanoparticles. <i>Photoacoustics</i> , <b>2014</b> , 2, 55-62	9	18
112	Photoacoustic imaging: a potential tool to detect early indicators of metastasis. <i>Expert Review of Medical Devices</i> , <b>2013</b> , 10, 125-34	3.5	18
111	Development and optimization of near-IR contrast agents for immune cell tracking. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 2609-18	3.5	18
110	Monitoring/Imaging and Regenerative Agents for Enhancing Tissue Engineering Characterization and Therapies. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 750-72	4.7	17
109	Multifunctional nanoscale strategies for enhancing and monitoring blood vessel regeneration. <i>Nano Today</i> , <b>2012</b> , 7, 514-531	17.9	17
108	Pulsed magneto-motive ultrasound imaging to detect intracellular trafficking of magnetic nanoparticles. <i>Nanotechnology</i> , <b>2011</b> , 22, 415105	3.4	17
107	Thermal stability of biodegradable plasmonic nanoclusters in photoacoustic imaging. <i>Optics Express</i> , <b>2012</b> , 20, 29479-87	3.3	17
106	The dynamic deformation of a layered viscoelastic medium under surface excitation. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 4295-312	3.8	16
105	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> , <b>2013</b> , 4, 2769-80	3.5	16
104	Model-based reconstructive elasticity imaging using ultrasound. <i>International Journal of Biomedical Imaging</i> , <b>2007</b> , 2007, 35830	5.2	16
103	Photoacoustic imaging of gold nanorods in the brain delivered via microbubble-assisted focused ultrasound: a tool for molecular neuroimaging. <i>Laser Physics Letters</i> , <b>2019</b> , 16,	1.5	15
102	Ultrasound-guided immunofunctional photoacoustic imaging for diagnosis of lymph node metastases. <i>Nanoscale</i> , <b>2019</b> , 11, 11649-11659	7.7	15
101	Photoacoustics of core-shell nanospheres using comprehensive modeling and analytical solution approach. <i>Communications Physics</i> , <b>2019</b> , 2,	5.4	15
100	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> , <b>2011</b> , 130, 2241-8 <sup>2</sup>	3.2	15
99	Array-Based Real-Time Ultrasound and Photoacoustic Ocular Imaging. <i>Journal of the Optical Society of Korea</i> , <b>2014</b> , 18, 151-155		15



98	Prussian blue nanocubes as a multimodal contrast agent for image-guided stem cell therapy of the spinal cord. <i>Photoacoustics</i> , <b>2020</b> , 18, 100166	9	14
97	Adaptive beamforming for photoacoustic imaging using linear array transducer <b>2008</b> ,		14
96	The impact of intraocular pressure on elastic wave velocity estimates in the crystalline lens. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, N45-N57	3.8	13
95	Muscle as a molecular machine for protecting joints and bones by absorbing mechanical impacts. <i>Medical Hypotheses</i> , <b>2014</b> , 83, 6-10	3.8	13
94	Optimization of in vivo spectroscopic photoacoustic imaging by smart optical wavelength selection. <i>Optics Letters</i> , <b>2014</b> , 39, 2214-7	3	13
93	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> , <b>2011</b> , 58, 838-43	3.2	13
92	Quantitative ultrasound method to detect and monitor laser-induced cavitation bubbles. <i>Journal of Biomedical Optics</i> , <b>2008</b> , 13, 034011	3.5	13
91	Laser-activated perfluorocarbon nanodroplets: a new tool for blood brain barrier opening. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 4527-4538	3.5	13
90	Exogenous imaging contrast and therapeutic agents for intravascular photoacoustic imaging and image-guided therapy. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 22TR01	3.8	13
89	Color-coded perfluorocarbon nanodroplets for multiplexed ultrasound and Photoacoustic imaging. <i>Nano Research</i> , <b>2019</b> , 12, 741-747	10	12
88	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> , <b>2012</b> , 57, 4871-84	3.8	12
87	Modulation of photoacoustic signal generation from metallic surfaces. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 56008	3.5	11
86	Photomagnetic Prussian blue nanocubes: Synthesis, characterization, and biomedical applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2020</b> , 24, 102138	6	11
85	Combined ultrasound and photoacoustic imaging of pancreatic cancer using nanocage contrast agents <b>2009</b> ,		10
84	photoacoustic sensing of calcium dynamics with Arsenazo III. <i>Laser Physics Letters</i> , <b>2016</b> , 13,	1.5	10
83	Clinically translatable quantitative molecular photoacoustic imaging with liposome-encapsulated ICG J-aggregates. <i>Nature Communications</i> , <b>2021</b> , 12, 5410	17.4	10
82	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> , <b>2014</b> , 61, 891-7	3.2	9
81	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> , <b>2020</b> , 25, 1-16	3.5	9

80	photoacoustic guidance of stem cell injection and delivery for regenerative spinal cord therapies. <i>Neurophotonics</i> , <b>2020</b> , 7, 030501	3.9	9
79	Quantitative contrast-enhanced ultrasound measurement of cerebrospinal fluid flow for the diagnosis of ventricular shunt malfunction. <i>Journal of Neurosurgery</i> , <b>2015</b> , 123, 1420-6	3.2	8
78	Ultrasound-guided photoacoustic imaging-directed re-endothelialization of acellular vasculature leads to improved vascular performance. <i>Acta Biomaterialia</i> , <b>2016</b> , 32, 35-45	10.8	8
77	Combined Multiwavelength Photoacoustic and Plane-Wave Ultrasound Imaging for Probing Dynamic Phase-Change Contrast Agents. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2019</b> , 66, 595-598 <sup>5</sup>		8
76	Influence of nanosecond pulsed laser irradiance on the viability of nanoparticle-loaded cells: implications for safety of contrast-enhanced photoacoustic imaging. <i>Nanotechnology</i> , <b>2013</b> , 24, 465101	3.4	8
75	Methodical study on plaque characterization using integrated vascular ultrasound, strain and spectroscopic photoacoustic imaging <b>2011</b> ,		8
74	Intravascular photoacoustic imaging of macrophages using molecularly targeted gold nanoparticles <b>2010</b> ,		8
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68	Photoacoustic and ultrasound imaging contrast enhancement using a dual contrast agent <b>2010</b> ,		7
67	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> , <b>2020</b> , 67, 248-257	3.2	7
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65	Synthesis of Iron Oxide Nanoclusters with Enhanced Magnetization and Their Applications in Pulsed Magneto-Motive Ultrasound Imaging. <i>Nano</i> , <b>2015</b> , 10, 1550073	1.1	6
64	Photoacoustic Characterization of Radiofrequency Ablation Lesions. <i>Proceedings of SPIE</i> , <b>2012</b> , 8223,	1.7	6
63	Intravascular ultrasound and 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> , <b>2008</b> , 2008, 2-5	0.9	6

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60	Impact of depth-dependent optical attenuation on wavelength selection for spectroscopic photoacoustic imaging. <i>Photoacoustics</i> , <b>2018</b> , 12, 46-54	9	6
59	Correspondence: Spatial variations of viscoelastic properties of porcine vitreous humors. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2013</b> , 60, 2453-60	3.2	5
58	Ultrasound and photoacoustic image-guided photothermal therapy using silica-coated gold nanorods: In-vivo study <b>2010</b> ,		5
57	Synthesis of a dual contrast agent for ultrasound and photoacoustic imaging <b>2010</b> ,		5
56	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> , <b>2009</b> , 2009, 6338-40	0.9	5
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54	Optimization of dual-wavelength intravascular photoacoustic imaging of atherosclerotic plaques using Monte Carlo optical modeling. <i>Journal of Biomedical Optics</i> , <b>2017</b> , 22, 1-12	3.5	5
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49	Ultrasound and photoacoustic imaging to monitor mesenchymal stem cells labeled with gold nanoparticles <b>2011</b> ,		4
48	On stability of molecular therapeutic agents for noninvasive photoacoustic and ultrasound image-guided photothermal therapy <b>2010</b> ,		4
47	Combined photoacoustic and magneto-motive ultrasound imaging <b>2010</b> ,		4
46	Ultrasound and photoacoustic imaging to monitor vascular growth in tissue engineered constructs <b>2009</b> ,		4
45	Molecular therapeutic agents for noninvasive photoacoustic image-guided photothermal therapy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 4106-9	0.9	4

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41	Leveraging the Imaging Transmit Pulse to Manipulate Phase-Change Nanodroplets for Contrast-Enhanced Ultrasound. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2019</b> , 66, 692-700	3.2	3
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38	Integrated catheter for intravascular ultrasound and photoacoustic imaging <b>2010</b> ,		3
37	Magneto-photo-acoustic imaging using dual-contrast agent <b>2010</b> ,		3
36	Design of catheter for combined intravascular photoacoustic and ultrasound imaging <b>2008</b> ,		3
35	Ultrasound guidance and monitoring of laser-based fat removal. <i>Lasers in Surgery and Medicine</i> , <b>2008</b> , 40, 680-7	3.6	3
34	Feasibility of Contrast-Enhanced Photoacoustic Liver Imaging at a Wavelength of 1064 nm <b>2012</b> ,		3
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31	Synchronously Amplified Photoacoustic Image Recovery (SAPhIRe). <i>Photoacoustics</i> , <b>2020</b> , 20, 100198	9	3
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29	Assessment of plaque vulnerability in atherosclerosis via intravascular photoacoustic imaging of targeted liposomal ICG J-aggregates (Conference Presentation) <b>2017</b> ,		2
28	Biodegradable Plasmonic Nanoparticles: Overcoming Clinical Translation Barriers <b>2015</b> ,		2
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25	System and integrated catheter for real-time intravascular ultrasound and photoacoustic imaging <b>2014</b> ,		2
24	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> , <b>2009</b> , 2009, 4767-70	0.9	2
23	High sensitivity intravascular photoacoustic imaging of macrophages <b>2009</b> ,		2
22	Intravascular photoacoustic imaging of gold nanorod-labeled atherosclerotic plaques <b>2012</b> ,		2
21	Selective detection of cancer using spectroscopic photoacoustic imaging and bioconjugated gold nanoparticles <b>2008</b> ,		2
20	Molecular specific photoacoustic imaging with plasmonic nanosensors <b>2008</b> ,		2
19	Co-registered photoacoustic and fluorescent imaging of a switchable nanoprobe based on J-aggregates of indocyanine green <b>2018</b> ,		2
18	Laser threshold and cell damage mechanism for intravascular photoacoustic imaging. <i>Lasers in Surgery and Medicine</i> , <b>2018</b> , 51, 466	3.6	2
17	Dual-Illumination Ultrasound/ Photoacoustic System for Cervical Cancer imaging. <i>IEEE Photonics Journal</i> , <b>2021</b> , 13,	1.8	2
16	In vivo photoacoustic detection of lymph node metastasis using glycol-chitosan-coated gold nanoparticles <b>2017</b> ,		1
15	Ultrasound-induced cellular uptake of plasmonic gold nanorods <b>2011</b> ,		1
14	Ultrasound-Based Molecular Imaging Using Nanoagents <b>2011</b> , 263-278		1
13	Remotely triggered contrast nanoagent for ultrasound and photoacoustic imaging <b>2010</b> ,		1
12	Molecular diagnosis of cancer using multiplex photoacoustic imaging with targeted nanorods <b>2010</b> ,		1
11	Staging atherosclerosis using ultrasound, strain and photoacoustic imaging <b>2010</b> ,		1
10	Measurements of young's modulus of viscoelastic medium using a laser-induced microbubble under acoustic radiation force <b>2010</b> ,		1
9	On application of magnetic nanoclusters to improve the sensitivity of pulsed magnetomotive ultrasound imaging <b>2010</b> ,		1

8	Design and development of multifunctional contrast agents for photoacoustic imaging <b>2009</b> ,		1
7	Intravascular Photoacoustic and Ultrasound Imaging: From Tissue Characterization to Molecular Imaging to Image-Guided Therapy <b>2011</b> , 787-816		1
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4	Clinical benefits of integrating cardiac and vascular models. <i>Expert Opinion on Medical Diagnostics</i> , <b>2011</b> , 5, 501-15		
3	Introduction to the BIOMED 2012 Feature Issue. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 2771	3.5	
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