

Stanislav Y Emelianov

List of Publications by Year in descending order

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246
papers

13,581
citations

23500

58
h-index

24179

110
g-index

257
all docs

257
docs citations

257
times ranked

10860
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear wave elasticity imaging: a new ultrasonic technology of medical diagnostics. <i>Ultrasound in Medicine and Biology</i> , 1998, 24, 1419-1435.	0.7	1,551
2	Photoacoustic imaging in cancer detection, diagnosis, and treatment guidance. <i>Trends in Biotechnology</i> , 2011, 29, 213-221.	4.9	532
3	Silica-Coated Gold Nanorods as Photoacoustic Signal Nanoamplifiers. <i>Nano Letters</i> , 2011, 11, 348-354.	4.5	458
4	Multiwavelength Photoacoustic Imaging and Plasmon Resonance Coupling of Gold Nanoparticles for Selective Detection of Cancer. <i>Nano Letters</i> , 2009, 9, 2825-2831.	4.5	428
5	Biomedical photoacoustics beyond thermal expansion using triggered nanodroplet vaporization for contrast-enhanced imaging. <i>Nature Communications</i> , 2012, 3, 618.	5.8	368
6	Enhanced thermal stability of silica-coated gold nanorods for photoacoustic imaging and image-guided therapy. <i>Optics Express</i> , 2010, 18, 8867.	1.7	354
7	Miniature gold nanorods for photoacoustic molecular imaging in the second near-infrared optical window. <i>Nature Nanotechnology</i> , 2019, 14, 465-472.	15.6	349
8	Biomedical Applications of Photoacoustic Imaging with Exogenous Contrast Agents. <i>Annals of Biomedical Engineering</i> , 2012, 40, 422-437.	1.3	339
9	Photoacoustic imaging and temperature measurement for photothermal cancer therapy. <i>Journal of Biomedical Optics</i> , 2008, 13, 034024.	1.4	303
10	Tissue-mimicking phantoms for photoacoustic and ultrasonic imaging. <i>Biomedical Optics Express</i> , 2011, 2, 3193.	1.5	220
11	Photoacoustics for molecular imaging and therapy. <i>Physics Today</i> , 2009, 62, 34-39.	0.3	217
12	Silver Nanoplate Contrast Agents for <i>In Vivo</i> Molecular Photoacoustic Imaging. <i>ACS Nano</i> , 2012, 6, 641-650.	7.3	212
13	Indocyanine Green-Loaded Photoacoustic Nanodroplets: Dual Contrast Nanoconstructs for Enhanced Photoacoustic and Ultrasound Imaging. <i>ACS Nano</i> , 2014, 8, 250-259.	7.3	211
14	Photoacoustic Imaging for Cancer Detection and Staging. <i>Current Molecular Imaging</i> , 2013, 2, 89-105.	0.7	197
15	Spectroscopic intravascular photoacoustic imaging to differentiate atherosclerotic plaques. <i>Optics Express</i> , 2008, 16, 3362.	1.7	194
16	Plasmonic Intravascular Photoacoustic Imaging for Detection of Macrophages in Atherosclerotic Plaques. <i>Nano Letters</i> , 2009, 9, 2212-2217.	4.5	193
17	Molecular specific optoacoustic imaging with plasmonic nanoparticles. <i>Optics Express</i> , 2007, 15, 6583.	1.7	186
18	Detection of magnetic nanoparticles in tissue using magneto-motive ultrasound. <i>Nanotechnology</i> , 2006, 17, 4183-4190.	1.3	178

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19	Detection of lipid in atherosclerotic vessels using ultrasound-guided spectroscopic intravascular photoacoustic imaging. <i>Optics Express</i> , 2010, 18, 4889.	1.7	163
20	In vivo Ultrasound and Photoacoustic Monitoring of Mesenchymal Stem Cells Labeled with Gold Nanotracers. <i>PLoS ONE</i> , 2012, 7, e37267.	1.1	160
21	Intravascular photoacoustic imaging using an IVUS imaging catheter. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 978-986.	1.7	159
22	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.	1.0	152
23	Elasticity reconstructive imaging by means of stimulated echo MRI. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 482-490.	1.9	144
24	Intravascular photoacoustic imaging of lipid in atherosclerotic plaques in the presence of luminal blood. <i>Optics Letters</i> , 2012, 37, 1244.	1.7	141
25	Imaging Strategies for Tissue Engineering Applications. <i>Tissue Engineering - Part B: Reviews</i> , 2015, 21, 88-102.	2.5	110
26	Development of a catheter for combined intravascular ultrasound and photoacoustic imaging. <i>Review of Scientific Instruments</i> , 2010, 81, 014901.	0.6	107
27	In vivo three-dimensional spectroscopic photoacoustic imaging for monitoring nanoparticle delivery. <i>Biomedical Optics Express</i> , 2011, 2, 2540.	1.5	106
28	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, 2098-2103.	0.7	105
29	Super-Resolution Ultrasound Imaging in Vivo with Transient Laser-Activated Nanodroplets. <i>Nano Letters</i> , 2016, 16, 2556-2559.	4.5	104
30	Intravascular Photoacoustic Imaging. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 588-599.	1.9	101
31	Environment-Dependent Generation of Photoacoustic Waves from Plasmonic Nanoparticles. <i>Small</i> , 2012, 8, 47-52.	5.2	97
32	Prospects of molecular photoacoustic imaging at 1064 nm wavelength. <i>Optics Letters</i> , 2010, 35, 2663.	1.7	95
33	Strain Imaging of Corneal Tissue With an Ultrasound Elasticity Microscope. <i>Cornea</i> , 2002, 21, 68-73.	0.9	94
34	Function of mesenchymal stem cells following loading of gold nanotracers. <i>International Journal of Nanomedicine</i> , 2011, 6, 407.	3.3	93
35	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, 1292-1300.	3.3	93
36	Sentinel Lymph Node Biopsy Revisited: Ultrasound-Guided Photoacoustic Detection of Micrometastases Using Molecularly Targeted Plasmonic Nanosensors. <i>Cancer Research</i> , 2014, 74, 5397-5408.	0.4	92

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37	Photoacoustic imaging of clinical metal needles in tissue. <i>Journal of Biomedical Optics</i> , 2010, 15, 021309.	1.4	91
38	Conjugation of Antibodies to Gold Nanorods through Fc Portion: Synthesis and Molecular Specific Imaging. <i>Bioconjugate Chemistry</i> , 2013, 24, 878-888.	1.8	88
39	Spatial characterization of corneal biomechanical properties with optical coherence elastography after UV cross-linking. <i>Biomedical Optics Express</i> , 2014, 5, 1419.	1.5	85
40	Dynamic contrast-enhanced photoacoustic imaging using photothermal stimuli-responsive composite nanomodulators. <i>Nature Communications</i> , 2017, 8, 15782.	5.8	83
41	Three-dimensional static displacement, stimulated echo NMR elasticity imaging. <i>Physics in Medicine and Biology</i> , 2000, 45, 1633-1648.	1.6	80
42	Adaptive beamforming for photoacoustic imaging. <i>Optics Letters</i> , 2008, 33, 1291.	1.7	79
43	Optical wavelength selection for improved spectroscopic photoacoustic imaging. <i>Photoacoustics</i> , 2013, 1, 36-42.	4.4	79
44	Ultrasound-guided photoacoustic imaging: current state and future development. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 450-466.	1.7	79
45	Combined ultrasound and photoacoustic imaging to detect and stage deep vein thrombosis: phantom and ex vivo studies. <i>Journal of Biomedical Optics</i> , 2008, 13, 054061.	1.4	77
46	Advances in clinical and biomedical applications of photoacoustic imaging. <i>Expert Opinion on Medical Diagnostics</i> , 2010, 4, 497-510.	1.6	75
47	Silica-coated gold nanoplates as stable photoacoustic contrast agents for sentinel lymph node imaging. <i>Nanotechnology</i> , 2013, 24, 455101.	1.3	74
48	Sonographic Elasticity Imaging of Acute and Chronic Deep Venous Thrombosis in Humans. <i>Journal of Ultrasound in Medicine</i> , 2006, 25, 1179-1186.	0.8	71
49	Copper Sulfide Perfluorocarbon Nanodroplets as Clinically Relevant Photoacoustic/Ultrasound Imaging Agents. <i>Nano Letters</i> , 2017, 17, 5984-5989.	4.5	70
50	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> , 2007, 122, 1927-1936.	0.5	69
51	Multiplex photoacoustic molecular imaging using targeted silica-coated gold nanorods. <i>Biomedical Optics Express</i> , 2011, 2, 1828.	1.5	67
52	Dynamic optical coherence tomography measurements of elastic wave propagation in tissue-mimicking phantoms and mouse corneal in vivo. <i>Journal of Biomedical Optics</i> , 2013, 18, 121503.	1.4	67
53	Correspondence of ultrasound elasticity imaging to direct mechanical measurement in aging DVT in rats. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 1351-1359.	0.7	66
54	Staging deep venous thrombosis using ultrasound elasticity imaging: Animal model. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 1385-1396.	0.7	65

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55	Photoacoustic signal amplification through plasmonic nanoparticle aggregation. <i>Journal of Biomedical Optics</i> , 2013, 18, 016001.	1.4	65
56	Poly(Lactic-co-Glycolic) Acid as a Carrier for Imaging Contrast Agents. <i>Pharmaceutical Research</i> , 2009, 26, 674-682.	1.7	63
57	Ex vivo Characterization of Atherosclerosis using Intravascular Photoacoustic Imaging. <i>Optics Express</i> , 2007, 15, 16657.	1.7	62
58	Magneto-photo-acoustic imaging. <i>Biomedical Optics Express</i> , 2011, 2, 385.	1.5	62
59	Pulsed Magneto-motive Ultrasound Imaging Using Ultrasmall Magnetic Nanoprobes. <i>Molecular Imaging</i> , 2011, 10, 7290.2010.00037.	0.7	61
60	Photoacoustic imaging of prostate brachytherapy seeds. <i>Biomedical Optics Express</i> , 2011, 2, 2243.	1.5	60
61	Photoacoustic Image-Guided Delivery of Plasmonic-Nanoparticle-Labeled Mesenchymal Stem Cells to the Spinal Cord. <i>Nano Letters</i> , 2018, 18, 6625-6632.	4.5	60
62	Clinically translatable quantitative molecular photoacoustic imaging with liposome-encapsulated ICG J-aggregates. <i>Nature Communications</i> , 2021, 12, 5410.	5.8	60
63	Label-free Detection of Lymph Node Metastases with US-guided Functional Photoacoustic Imaging. <i>Radiology</i> , 2015, 277, 435-442.	3.6	59
64	Quantitative Photoacoustic Imaging of Nanoparticles in Cells and Tissues. <i>ACS Nano</i> , 2013, 7, 1272-1280.	7.3	58
65	In vitro photoacoustic visualization of myocardial ablation lesions. <i>Heart Rhythm</i> , 2014, 11, 150-157.	0.3	58
66	Silver nanosystems for photoacoustic imaging and image-guided therapy. <i>Journal of Biomedical Optics</i> , 2010, 15, 1.	1.4	57
67	Intravascular Photoacoustics for Image-Guidance and Temperature Monitoring During Plasmonic Photothermal Therapy of Atherosclerotic Plaques: A Feasibility Study. <i>Theranostics</i> , 2014, 4, 36-46.	4.6	56
68	Nonlinear photoacoustic signal increase from endocytosis of gold nanoparticles. <i>Optics Letters</i> , 2012, 37, 4708.	1.7	55
69	Gas bubble and solid sphere motion in elastic media in response to acoustic radiation force. <i>Journal of the Acoustical Society of America</i> , 2005, 117, 2338-2346.	0.5	54
70	Photoacoustic imaging of coronary artery stents. <i>Optics Express</i> , 2009, 17, 19894.	1.7	52
71	In vivo estimation of elastic wave parameters using phase-stabilized swept source optical coherence elastography. <i>Journal of Biomedical Optics</i> , 2012, 17, 1005011.	1.4	52
72	Photoacoustic and ultrasound imaging using dual contrast perfluorocarbon nanodroplets triggered by laser pulses at 1064 nm. <i>Biomedical Optics Express</i> , 2014, 5, 3042.	1.5	52

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73	Assessment of shear modulus of tissue using ultrasound radiation force acting on a spherical acoustic inhomogeneity. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 2380-2387.	1.7	49
74	Blinking Phase-Change Nanocapsules Enable Background-Free Ultrasound Imaging. Theranostics, 2016, 6, 1866-1876.	4.6	49
75	In vivo pulsed magneto-motive ultrasound imaging using high-performance magnetoactive contrast nanoagents. Nanoscale, 2013, 5, 11179.	2.8	48
76	Clinical Application of Sonographic Elasticity Imaging for Aging of Deep Venous Thrombosis. Journal of Ultrasound in Medicine, 2003, 22, 443-448.	0.8	46
77	Utility of biodegradable plasmonic nanoclusters in photoacoustic imaging. Optics Letters, 2010, 35, 3751.	1.7	46
78	Combined ultrasound, optoacoustic, and elasticity imaging. , 2004, , .		45
79	Ultrasound imaging to monitor photothermal therapy " Feasibility study. Optics Express, 2008, 16, 3776.	1.7	45
80	Evaluation of gold nanotracers to track adipose-derived stem cells in a PEGylated fibrin gel for dermal tissue engineering applications. International Journal of Nanomedicine, 2013, 8, 325.	3.3	45
81	Remote Temperature Estimation in Intravascular Photoacoustic Imaging. Ultrasound in Medicine and Biology, 2008, 34, 299-308.	0.7	44
82	Silver"Polymer Composite Stars: Synthesis and Applications. Advanced Functional Materials, 2011, 21, 1673-1680.	7.8	44
83	Feasibility of <i>in vivo</i> intravascular photoacoustic imaging using integrated ultrasound and photoacoustic imaging catheter. Journal of Biomedical Optics, 2012, 17, 0960081.	1.4	43
84	Visualization of molecular composition and functionality of cancer cells using nanoparticle-augmented ultrasound-guided photoacoustics. Photoacoustics, 2015, 3, 26-34.	4.4	42
85	Multimodal Magneto"Plasmonic Nanoclusters for Biomedical Applications. Advanced Functional Materials, 2014, 24, 6862-6871.	7.8	40
86	Intravascular photoacoustic imaging of exogenously labeled atherosclerotic plaque through luminal blood. Journal of Biomedical Optics, 2012, 17, 106016.	1.4	39
87	Ultrasound-guided spectral photoacoustic imaging of hemoglobin oxygenation during development. Biomedical Optics Express, 2017, 8, 757.	1.5	38
88	Tunable aggregation of gold-silica janus nanoparticles to enable contrast-enhanced multiwavelength photoacoustic imaging <i>in vivo</i> . Nanoscale, 2018, 10, 15365-15370.	2.8	37
89	Development of a stem cell tracking platform for ophthalmic applications using ultrasound and photoacoustic imaging. Theranostics, 2019, 9, 3812-3824.	4.6	37
90	The Mechanical Properties of Ex Vivo Bovine and Porcine Crystalline Lenses: Age-Related Changes and Location-Dependent Variations. Ultrasound in Medicine and Biology, 2013, 39, 1120-1127.	0.7	36

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91	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, 557-566.	1.1	35
92	Pulsed magneto-acoustic imaging. , 2009, 2009, 4771-4.		34
93	Adaptive beamforming for photoacoustic imaging using linear array transducer. , 2008, , .		33
94	Feasibility of applying ultrasound strain imaging to detect renal transplant chronic allograft nephropathy. <i>Kidney International</i> , 2004, 65, 733-736.	2.6	32
95	Elasticity Imaging Using Conventional and High-Frame Rate Ultrasound Imaging: Experimental Study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 2246-2256.	1.7	32
96	Photoacoustic imaging of cancer cells with glycol-chitosan-coated gold nanoparticles as contrast agents. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	32
97	Nonlinear dynamics of a gas bubble in an incompressible elastic medium. <i>Journal of the Acoustical Society of America</i> , 2004, 115, 581-588.	0.5	31
98	Ultrasound measurements of cavitation bubble radius for femtosecond laser-induced breakdown in water. <i>Optics Letters</i> , 2008, 33, 1357.	1.7	31
99	Real-Time Intravascular Ultrasound and Photoacoustic Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 141-149.	1.7	31
100	Thermal intravascular photoacoustic imaging. <i>Biomedical Optics Express</i> , 2011, 2, 3072.	1.5	30
101	Photoacoustic Imaging for Medical Diagnostics. <i>Acoustics Today</i> , 2012, 8, 15.	1.0	30
102	Ligand-Mediated Self-Assembly of Hybrid Plasmonic and Superparamagnetic Nanostructures. <i>Langmuir</i> , 2013, 29, 2465-2470.	1.6	29
103	Photothermal transformation of Au@Ag nanocages under pulsed laser irradiation. <i>Nanoscale</i> , 2019, 11, 3013-3020.	2.8	29
104	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.	1.7	29
105	Prussian blue nanocubes as a multimodal contrast agent for image-guided stem cell therapy of the spinal cord. <i>Photoacoustics</i> , 2020, 18, 100166.	4.4	29
106	Strain imaging using conventional and ultrafast ultrasound imaging: numerical analysis. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007, 54, 987-995.	1.7	28
107	Contrast-enhanced ultrasound imaging <i>in vivo</i> with laser-activated nanodroplets. <i>Medical Physics</i> , 2017, 44, 3444-3449.	1.6	28
108	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.	1.5	27

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109	Super-Resolution Imaging With Ultrafast Ultrasound Imaging of Optically Triggered Perfluorohexane Nanodroplets. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2277-2285.	1.7	27
110	Magneto-photo-acoustic imaging. Biomedical Optics Express, 2011, 2, 385-96.	1.5	27
111	Sensitivity enhanced nanothermal sensors for photoacoustic temperature mapping. Journal of Biophotonics, 2013, 6, 534-542.	1.1	26
112	The dynamic deformation of a layered viscoelastic medium under surface excitation. Physics in Medicine and Biology, 2015, 60, 4295-4312.	1.6	26
113	Acoustic detection of microbubble formation induced by enhanced optical breakdown of silver/dendrimer nanocomposites. Applied Physics Letters, 2003, 82, 994-996.	1.5	25
114	Model-Based Reconstructive Elasticity Imaging Using Ultrasound. International Journal of Biomedical Imaging, 2007, 2007, 1-11.	3.0	25
115	In-vivo ultrasound and photoacoustic image-guided photothermal cancer therapy using silica-coated gold nanorods. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 891-897.	1.7	24
116	Bifunctional Janus Particles as Multivalent Synthetic Nanoparticle Antibodies (SNABs) for Selective Depletion of Target Cells. Nano Letters, 2021, 21, 875-886.	4.5	24
117	Pulsed magneto-motive ultrasound imaging using ultrasmall magnetic nanoprobles. Molecular Imaging, 2011, 10, 102-10.	0.7	24
118	Photoacoustic imaging of gold nanorods in the brain delivered via microbubble-assisted focused ultrasound: a tool for <i>in vivo</i> molecular neuroimaging. Laser Physics Letters, 2019, 16, 025603.	0.6	23
119	Ultrasound-guided immunofunctional photoacoustic imaging for diagnosis of lymph node metastases. Nanoscale, 2019, 11, 11649-11659.	2.8	23
120	Detection of Nanoparticle Endocytosis Using Magneto-Photoacoustic Imaging. Small, 2011, 7, 2858-2862.	5.2	22
121	Pulsed magneto-motive ultrasound imaging to detect intracellular accumulation of magnetic nanoparticles. Nanotechnology, 2011, 22, 415105.	1.3	22
122	Thermal stability of biodegradable plasmonic nanoclusters in photoacoustic imaging. Optics Express, 2012, 20, 29479.	1.7	22
123	Contrast-enhanced magneto-photo-acoustic imaging in vivo using dual-contrast nanoparticles. Photoacoustics, 2014, 2, 55-62.	4.4	22
124	Photoacoustics of core-shell nanospheres using comprehensive modeling and analytical solution approach. Communications Physics, 2019, 2, .	2.0	22
125	Gold nanoparticles conjugated with DNA aptamer for photoacoustic detection of human matrix metalloproteinase-9. Photoacoustics, 2022, 25, 100307.	4.4	21
126	Estimation of mechanical properties of a viscoelastic medium using a laser-induced microbubble interrogated by an acoustic radiation force. Journal of the Acoustical Society of America, 2011, 130, 2241-2248.	0.5	20

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127	Photoacoustic imaging: a potential tool to detect early indicators of metastasis. <i>Expert Review of Medical Devices</i> , 2013, 10, 125-134.	1.4	20
128	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.	1.6	20
129	Multifunctional nanoscale strategies for enhancing and monitoring blood vessel regeneration. <i>Nano Today</i> , 2012, 7, 514-531.	6.2	19
130	Optimization of in vivo spectroscopic photoacoustic imaging by smart optical wavelength selection. <i>Optics Letters</i> , 2014, 39, 2214.	1.7	19
131	Array-Based Real-Time Ultrasound and Photoacoustic Ocular Imaging. <i>Journal of the Optical Society of Korea</i> , 2014, 18, 151-155.	0.6	19
132	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, 838-843.	1.7	18
133	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, 4871-4884.	1.6	18
134	Development and optimization of near-IR contrast agents for immune cell tracking. <i>Biomedical Optics Express</i> , 2013, 4, 2609.	1.5	18
135	Monitoring/Imaging and Regenerative Agents for Enhancing Tissue Engineering Characterization and Therapies. <i>Annals of Biomedical Engineering</i> , 2016, 44, 750-772.	1.3	18
136	Color-coded perfluorocarbon nanodroplets for multiplexed ultrasound and photoacoustic imaging. <i>Nano Research</i> , 2019, 12, 741-747.	5.8	18
137	Muscle as a molecular machine for protecting joints and bones by absorbing mechanical impacts. <i>Medical Hypotheses</i> , 2014, 83, 6-10.	0.8	17
138	Laser-activated perfluorocarbon nanodroplets: a new tool for blood brain barrier opening. <i>Biomedical Optics Express</i> , 2018, 9, 4527.	1.5	17
139	Exogenous imaging contrast and therapeutic agents for intravascular photoacoustic imaging and image-guided therapy. <i>Physics in Medicine and Biology</i> , 2018, 63, 22TR01.	1.6	16
140	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.	0.7	16
141	Quantitative ultrasound method to detect and monitor laser-induced cavitation bubbles. <i>Journal of Biomedical Optics</i> , 2008, 13, 034011.	1.4	15
142	Photomagnetic Prussian blue nanocubes: Synthesis, characterization, and biomedical applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 24, 102138.	1.7	15
143	Theranostic Glycol Chitosan-Conjugated Gold Nanoparticles for Photoacoustic Imaging of Regional Lymph Nodes and Delivering Tumor Antigen to Lymph Nodes. <i>Nanomaterials</i> , 2021, 11, 1700.	1.9	15
144	Combined ultrasound and photoacoustic imaging of pancreatic cancer using nanocage contrast agents. <i>Proceedings of SPIE</i> , 2009, , .	0.8	14

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145	Investigation of light delivery geometries for photoacoustic applications using Monte Carlo simulations with multiple wavelengths, tissue types, and species characteristics. Journal of Biomedical Optics, 2020, 25, 1.	1.4	14
146	Modulation of photoacoustic signal generation from metallic surfaces. Journal of Biomedical Optics, 2013, 18, 056008.	1.4	13
147	In vivo photoacoustic guidance of stem cell injection and delivery for regenerative spinal cord therapies. Neurophotonics, 2020, 7, 1.	1.7	13
148	<i>In vitro</i> photoacoustic sensing of calcium dynamics with arsenazo III. Laser Physics Letters, 2016, 13, 075603.	0.6	12
149	Combined photoacoustic and magneto-acoustic imaging. , 2009, 2009, 4763-6.		11
150	Intravascular photoacoustic imaging of macrophages using molecularly targeted gold nanoparticles. Proceedings of SPIE, 2010, , .	0.8	11
151	Photoacoustic and ultrasound imaging contrast enhancement using a dual contrast agent. Proceedings of SPIE, 2010, , .	0.8	11
152	In-vivo ultrasound and photoacoustic image- guided photothermal cancer therapy using silica-coated gold nanorods. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 891-897.	1.7	11
153	Combined Multiwavelength Photoacoustic and Plane-Wave Ultrasound Imaging for Probing Dynamic Phase-Change Contrast Agents. IEEE Transactions on Biomedical Engineering, 2019, 66, 595-598.	2.5	11
154	Gas-generating nanoparticles for contrast-enhanced ultrasound imaging. Nanoscale, 2019, 11, 16235-16240.	2.8	11
155	Elasticity Imaging and Sensing Using Targeted Motion: From Macro to Nano. Current Medical Imaging, 2012, 8, 3-15.	0.4	10
156	Quantitative contrast-enhanced ultrasound measurement of cerebrospinal fluid flow for the diagnosis of ventricular shunt malfunction. Journal of Neurosurgery, 2015, 123, 1420-1426.	0.9	10
157	Design and Demonstration of a Configurable Imaging Platform for Combined Laser, Ultrasound, and Elasticity Imaging. IEEE Transactions on Medical Imaging, 2019, 38, 1622-1632.	5.4	10
158	Toward optimization of blood brain barrier opening induced by laser-activated perfluorocarbon nanodroplets. Biomedical Optics Express, 2019, 10, 3139.	1.5	10
159	On sensitivity of molecular specific photoacoustic imaging using plasmonic gold nanoparticles. , 2009, 2009, 6338-40.		9
160	Noninvasive detection of intimal xanthoma using combined ultrasound, strain rate and photoacoustic imaging. Ultrasonics, 2012, 52, 435-441.	2.1	9
161	Correspondence: spatial variations of viscoelastic properties of porcine vitreous humors. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 2453-2460.	1.7	9
162	Influence of nanosecond pulsed laser irradiance on the viability of nanoparticle-loaded cells: implications for safety of contrast-enhanced photoacoustic imaging. Nanotechnology, 2013, 24, 465101.	1.3	9

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163	Ultrasound-guided photoacoustic imaging-directed re-endothelialization of acellular vasculature leads to improved vascular performance. <i>Acta Biomaterialia</i> , 2016, 32, 35-45.	4.1	9
164	Effects of Freezing on Mesenchymal Stem Cells Labeled with Gold Nanoparticles. <i>Tissue Engineering - Part C: Methods</i> , 2020, 26, 1-10.	1.1	9
165	Synchronously Amplified Photoacoustic Image Recovery (SAPhIRe). <i>Photoacoustics</i> , 2020, 20, 100198.	4.4	9
166	Model-based reconstructive elasticity imaging of deep venous thrombosis. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2004, 51, 521-31.	1.7	9
167	Methodical study on plaque characterization using integrated vascular ultrasound, strain and spectroscopic photoacoustic imaging. , 2011, , .		8
168	Photoacoustic characterization of radiofrequency ablation lesions. , 2012, 8223, .		8
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