## Biomedical photoacoustics beyond thermal expansion use vaporization for contrast-enhanced imaging

Nature Communications 3, 618 DOI: 10.1038/ncomms1627

**Citation Report** 

#	Article	IF	CITATIONS
1	Acoustic and photoacoustic characterization of micron-sized perfluorocarbon emulsions. Journal of Biomedical Optics, 2012, 17, 0960161.	1.4	40
2	Silica-coated super paramagnetic iron oxide nanoparticles (SPION) as biocompatible contrast agent in biomedical photoacoustics. Biomedical Optics Express, 2012, 3, 2500.	1.5	107
3	Effects of acoustic parameters on acoustically-vaporized droplets under dynamics flow conditions. , 2012, , .		0
4	Realtime flash-difference ultrasound imaging of phase-change perfluorocarbon nanodroplet activation. , 2012, , .		1
6	Xâ€ray acoustic computed tomography with pulsed xâ€ray beam from a medical linear accelerator. Medical Physics, 2013, 40, 010701.	1.6	64
7	Molecularly-mediated assemblies of plasmonic nanoparticles for Surface-Enhanced Raman Spectroscopy applications. Chemical Society Reviews, 2012, 41, 7085.	18.7	380
8	Porphyrin Shell Microbubbles with Intrinsic Ultrasound and Photoacoustic Properties. Journal of the American Chemical Society, 2012, 134, 16464-16467.	6.6	171
9	Phaseâ€shift, stimuliâ€responsive perfluorocarbon nanodroplets for drug delivery to cancer. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2012, 4, 492-510.	3.3	185
10	Nanoparticles for improving cancer diagnosis. Materials Science and Engineering Reports, 2013, 74, 35-69.	14.8	94
11	Recent advances of optical imaging in animal stroke model. Frontiers of Optoelectronics, 2013, 6, 134-145.	1.9	3
12	pH-responsive gold nanoparticles-in-liposome hybrid nanostructures for enhanced systemic tumor delivery. Nanoscale, 2013, 5, 10175.	2.8	36
13	Acoustic pressure pulses from laser-irradiated suspensions containing gold nanospheres in water: Experimental and theoretical study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 430, 51-57.	2.3	16
14	Photoacoustic microscopy in tissue engineering. Materials Today, 2013, 16, 67-77.	8.3	48
15	Enhanced photoacoustic response with plasmonic nanoparticle-templated microbubbles. Soft Matter, 2013, 9, 7743.	1.2	45
16	Spectroscopic Imaging of Deep Tissue through Photoacoustic Detection of Molecular Vibration. Journal of Physical Chemistry Letters, 2013, 4, 2177-2185.	2.1	49
17	Gold nanoparticle targeted photoacoustic cavitation for potential deep tissue imaging and therapy. Biomedical Optics Express, 2013, 4, 66.	1.5	72
18	Phase-transition thresholds and vaporization phenomena for ultrasound phase-change nanoemulsions assessed via high-speed optical microscopy. Physics in Medicine and Biology, 2013, 58, 4513-4534.	1.6	81
19	Acoustic and Photoacoustic Molecular Imaging of Cancer. Journal of Nuclear Medicine, 2013, 54, 1851-1854.	2.8	92

#	Article	IF	CITATIONS
20	Vaporization, photoacoustic and acoustic characterization of PLGA/PFH particles loaded with optically absorbing materials. , 2013, , .		1
22	Photoacoustic Imaging for Cancer Detection and Staging. Current Molecular Imaging, 2013, 2, 89-105.	0.7	197
23	Nanodroplet-Mediated Histotripsy for Image-guided Targeted Ultrasound Cell Ablation. Theranostics, 2013, 3, 851-864.	4.6	78
24	India Ink Incorporated Multifunctional Phase-transition Nanodroplets for Photoacoustic/Ultrasound Dual-modality Imaging and Photoacoustic Effect Based Tumor Therapy. Theranostics, 2014, 4, 1026-1038.	4.6	67
25	PHOTOACOUSTIC TOMOGRAPHY: PRINCIPLES AND ADVANCES (Invited Review). Progress in Electromagnetics Research, 2014, 147, 1-22.	1.6	414
26	CONTRAST-ENHANCED PHOTOACOUSTIC IMAGING USING INDOCYANINE GREEN-CONTAINING NANOPARTICLES. Journal of Innovative Optical Health Sciences, 2014, 07, 1350029.	0.5	16
27	In vitro study of PLGA/PFH particles loaded with gold nanoparticles as theranostic agents for photoacoustic imaging and cancer therapy. , 2014, , .		1
28	Modeling photoacoustic spectral features of micron-sized particles. Physics in Medicine and Biology, 2014, 59, 5795-5810.	1.6	37
29	Sensed at the gut level. Nature Nanotechnology, 2014, 9, 569-570.	15.6	3
30	Nonlinear acoustic enhancement in photoacoustic imaging with wideband absorptive nanoemulsion beads. , 2014, , .		0
31	Photoacoustic and ultrasound imaging using dual contrast perfluorocarbon nanodroplets triggered by laser pulses at 1064 nm. Biomedical Optics Express, 2014, 5, 3042.	1.5	52
32	Engineering optically triggered droplets for photoacoustic imaging and therapy. Biomedical Optics Express, 2014, 5, 4417.	1.5	49
33	On‧ite Formation of Emulsions by Controlled Air Plugs. Small, 2014, 10, 758-765.	5.2	21
34	Vaporization dynamics of volatile perfluorocarbon droplets: A theoretical model and <i>in vitro</i> validation. Medical Physics, 2014, 41, 102901.	1.6	51
35	Enhanced photothermal therapy using gold nanodroplets. , 2014, , .		0
36	Cellulose nanoparticles: photoacoustic contrast agents that biodegrade to simple sugars. Proceedings of SPIE, 2014, , .	0.8	1
37	PLGA/PFC particles loaded with gold nanoparticles as dual contrast agents for photoacoustic and ultrasound imaging. , 2014, , .		8
38	Contrast Agents for Photoacoustic and Thermoacoustic Imaging: A Review. International Journal of Molecular Sciences, 2014, 15, 23616-23639.	1.8	159

#	Article	IF	CITATIONS
39	Methylene blue microbubbles as a model dual-modality contrast agent for ultrasound and activatable photoacoustic imaging. Journal of Biomedical Optics, 2014, 19, 016005.	1.4	87
40	Development of Luminescent pH Sensor Films for Monitoring Bacterial Growth Through Tissue. Advanced Healthcare Materials, 2014, 3, 197-204.	3.9	48
41	Nonlinear contrast enhancement in photoacoustic molecular imaging with gold nanosphere encapsulated nanoemulsions. Applied Physics Letters, 2014, 104, 033701.	1.5	52
42	Photoacoustic Imaging for Cancer Diagnosis and Therapy Guidance. , 2014, , 139-158.		7
43	Phase change events of volatile liquid perfluorocarbon contrast agents produce unique acoustic signatures. Physics in Medicine and Biology, 2014, 59, 379-401.	1.6	71
44	Ultrasound-guided photoacoustic imaging: current state and future development. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 450-466.	1.7	79
45	Laser-activated PLGA theranostic agents for cancer therapy in vivo. , 2014, , .		2
46	Ultrafast vapourization dynamics of laser-activated polymeric microcapsules. Nature Communications, 2014, 5, 3671.	5.8	31
47	Magnetic Targeting Enhanced Theranostic Strategy Based on Multimodal Imaging for Selective Ablation of Cancer. Advanced Functional Materials, 2014, 24, 2312-2321.	7.8	97
48	Enhanced photoacoustic signal from DNA assembled gold nanoparticle networks. Materials Research Express, 2014, 1, 045015.	0.8	4
49	Aggregation-Induced Near-Infrared Absorption of Squaraine Dye in an Albumin Nanocomplex for Photoacoustic Tomography in Vivo. ACS Applied Materials & Interfaces, 2014, 6, 17985-17992.	4.0	47
50	Direct Incorporation of Lipophilic Nanoparticles into Monodisperse Perfluorocarbon Nanodroplets via Solvent Dissolution from Microfluidic-Generated Precursor Microdroplets. Langmuir, 2014, 30, 12465-12473.	1.6	17
51	Cellulose nanoparticles are a biodegradable photoacoustic contrast agent for use in living mice. Photoacoustics, 2014, 2, 119-127.	4.4	48
52	Multifunctional Ultrasound Contrast Agents for Imaging Guided Photothermal Therapy. Bioconjugate Chemistry, 2014, 25, 840-854.	1.8	44
53	Comparing Efficiency of micro-RNA and mRNA Biomarker Liberation with Microbubble-Enhanced Ultrasound Exposure. Ultrasound in Medicine and Biology, 2014, 40, 2207-2216.	0.7	7
54	Structural and functional photoacoustic molecular tomography aided by emerging contrast agents. Chemical Society Reviews, 2014, 43, 7132-7170.	18.7	346
55	Laser-induced cavitation in nanoemulsion with gold nanospheres for blood clot disruption: in vitro results. Optics Letters, 2014, 39, 2599.	1.7	44
56	Laserâ€Activatible PLGA Microparticles for Imageâ€Guided Cancer Therapy In Vivo. Advanced Functional Materials, 2014, 24, 7674-7680.	7.8	59

#	Article	IF	CITATIONS
58	Indocyanine Green-Loaded Photoacoustic Nanodroplets: Dual Contrast Nanoconstructs for Enhanced Photoacoustic and Ultrasound Imaging. ACS Nano, 2014, 8, 250-259.	7.3	211
59	Light In and Sound Out: Emerging Translational Strategies for Photoacoustic Imaging. Cancer Research, 2014, 74, 979-1004.	0.4	390
60	Construction and Validation of Nano Gold Tripods for Molecular Imaging of Living Subjects. Journal of the American Chemical Society, 2014, 136, 3560-3571.	6.6	170
61	High spatial-resolution cavitation imaging of laser-triggered PFP droplets. , 2015, , .		0
62	Theranostic Mesoporous Silica Nanoparticles Biodegrade after Pro-Survival Drug Delivery and Ultrasound/Magnetic Resonance Imaging of Stem Cells. Theranostics, 2015, 5, 631-642.	4.6	172
63	Nanoparticle Probes for Structural and Functional Photoacoustic Molecular Tomography. BioMed Research International, 2015, 2015, 1-11.	0.9	23
66	Oscillatory Dynamics and In Vivo Photoacoustic Imaging Performance of Plasmonic Nanoparticle-Coated Microbubbles. Small, 2015, 11, 3066-3077.	5.2	44
67	Thermoplasmonics-assisted nanoheterostructured Au-decorated CuInS2 nanoparticles: Matching solar spectrum absorption and its application on selective distillation of non-polar solvent systems by thermal solar energy. Nano Energy, 2015, 15, 470-478.	8.2	22
68	Photoacoustic properties of plasmonic nanoparticle-coated microbubbles. , 2015, , .		1
69	Dual-frequency acoustic droplet vaporization detection for medical imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1623-1633.	1.7	19
70	Multifunctional theranostic contrast agent for photoacoustics- and ultrasound-based tumor diagnosis and ultrasound-stimulated local tumor therapy. Journal of Controlled Release, 2015, 218, 63-71.	4.8	51
71	Theoretical and experimental study of spectral characteristics of the photoacoustic signal from stochastically distributed particles. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1245-1255.	1.7	19
72	Quantifying Activation of Perfluorocarbon-Based Phase-Change Contrast Agents Using Simultaneous Acoustic and Optical Observation. Ultrasound in Medicine and Biology, 2015, 41, 1422-1431.	0.7	26
73	Phase-Shifted PFH@PLGA/Fe <sub>3</sub> O <sub>4</sub> Nanocapsules for MRI/US Imaging and Photothermal Therapy with near-Infrared Irradiation. ACS Applied Materials & Interfaces, 2015, 7, 14231-14242.	4.0	95
74	Sono-photoacoustic imaging of gold nanoemulsions: Part II. Real time imaging. Photoacoustics, 2015, 3, 11-19.	4.4	42
75	Construction of smart inorganic nanoparticle-based ultrasound contrast agents and their biomedical applications. Science Bulletin, 2015, 60, 1170-1183.	4.3	25
76	Transurethral light delivery for prostate photoacoustic imaging. Journal of Biomedical Optics, 2015, 20, 036002.	1.4	59
77	Ultrasound-Triggered Phase-Transition Cationic Nanodroplets for Enhanced Gene Delivery. ACS Applied Materials & Interfaces, 2015, 7, 13524-13537.	4.0	80

#	Article	IF	CITATIONS
78	Facile synthesis of liposome/Cu2â^'x S-based nanocomposite for multimodal imaging and photothermal therapy. Science China Materials, 2015, 58, 294-301.	3.5	19
79	Photoacoustic-based nanomedicine for cancer diagnosis and therapy. Journal of Controlled Release, 2015, 203, 118-125.	4.8	36
80	Triggered vaporization of gold nanodroplets for enhanced photothermal therapy. Proceedings of SPIE, 2015, , .	0.8	0
81	Sono-photoacoustic imaging of gold nanoemulsions: Part I. Exposure thresholds. Photoacoustics, 2015, 3, 3-10.	4.4	50
82	Amplified Photoacoustic Performance and Enhanced Photothermal Stability of Reduced Graphene Oxide Coated Gold Nanorods for Sensitive Photoacoustic Imaging. ACS Nano, 2015, 9, 2711-2719.	7.3	230
83	Hybrid magnetic–plasmonic nanocomposite: embedding cobalt clusters in gold nanorods. RSC Advances, 2015, 5, 34696-34703.	1.7	15
84	From micro to nano in seconds. Nature Nanotechnology, 2015, 10, 301-302.	15.6	18
85	Mesoscopic and Macroscopic Optoacoustic Imaging of Cancer. Cancer Research, 2015, 75, 1548-1559.	0.4	94
86	Photoacoustic imaging with rotational compounding for improved signal detection. Proceedings of SPIE, 2015, , .	0.8	0
87	Rational Design and Synthesis of γFe <sub>2</sub> O <sub>3</sub> @Au Magnetic Gold Nanoflowers for Efficient Cancer Theranostics. Advanced Materials, 2015, 27, 5049-5056.	11.1	135
88	Microbubble-mediated intravascular ultrasound imaging and drug delivery. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1674-1685.	1.7	14
89	Label-free optical-resolution photoacoustic endomicroscopy in vivo. , 2015, , .		0
90	Blinking Phase-Change Nanocapsules Enable Background-Free Ultrasound Imaging. Theranostics, 2016, 6, 1866-1876.	4.6	49
91	Biodegradable polymeric nanoparticles containing gold nanoparticles and Paclitaxel for cancer imaging and drug delivery using photoacoustic methods. Biomedical Optics Express, 2016, 7, 4125.	1.5	33
92	Biomedical photoacoustics: fundamentals, instrumentation and perspectives on nanomedicine. International Journal of Nanomedicine, 2017, Volume 12, 179-195.	3.3	23
93	A Multifunctional Theranostic Nanoagent for Dual-Mode Image-Guided HIFU/Chemo- Synergistic Cancer Therapy. Theranostics, 2016, 6, 404-417.	4.6	85
94	Multimodal micro, nano, and size conversion ultrasound agents for imaging and therapy. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2016, 8, 796-813.	3.3	23
95	Vaporization and recondensation dynamics of indocyanine green-loaded perfluoropentane droplets irradiated by a short pulse laser. Applied Physics Letters, 2016, 109, .	1.5	24

#	Article	IF	CITATIONS
96	Nanodroplet-Vaporization-Assisted Sonoporation for Highly Effective Delivery of Photothermal Treatment. Scientific Reports, 2016, 6, 24753.	1.6	32
97	<i>In vitro</i> methods to study bubble-cell interactions: Fundamentals and therapeutic applications. Biomicrofluidics, 2016, 10, 011501.	1.2	45
98	Plasmonic Nanoparticles with Quantitatively Controlled Bioconjugation for Photoacoustic Imaging of Live Cancer Cells. Advanced Science, 2016, 3, 1600237.	5.6	39
99	Effects of ultrasound coupling gel on photoacoustic signal attenuation. , 2016, , .		0
100	Optical droplet vaporization of nanoparticle-loaded stimuli-responsive microbubbles. Applied Physics Letters, 2016, 108, .	1.5	34
101	Direct Fabrication of Monodisperse Silica Nanorings from Hollow Spheres – A Template for Core–Shell Nanorings. ACS Applied Materials & Interfaces, 2016, 8, 10451-10458.	4.0	16
102	Super-Resolution Ultrasound Imaging in Vivo with Transient Laser-Activated Nanodroplets. Nano Letters, 2016, 16, 2556-2559.	4.5	104
103	Thermally confined shell coating amplifies the photoacoustic conversion efficiency of nanoprobes. Nano Research, 2016, 9, 3644-3655.	5.8	40
104	On the thermodynamics and kinetics of superheated fluorocarbon phase-change agents. Advances in Colloid and Interface Science, 2016, 237, 15-27.	7.0	56
105	Singleâ€Layer MoS <sub>2</sub> Nanosheets with Amplified Photoacoustic Effect for Highly Sensitive Photoacoustic Imaging of Orthotopic Brain Tumors. Advanced Functional Materials, 2016, 26, 8715-8725.	7.8	136
106	Remarkable In Vivo Nonlinear Photoacoustic Imaging Based on Near-Infrared Organic Dyes. Small, 2016, 12, 5239-5244.	5.2	31
107	Wavelet subspace decomposition of thermal infrared images for defect detection in artworks. Infrared Physics and Technology, 2016, 77, 325-334.	1.3	4
108	Synthesis of Stable Multifunctional Perfluorocarbon Nanoemulsions for Cancer Therapy and Imaging. Langmuir, 2016, 32, 10870-10880.	1.6	73
109	Microwave-activated nanodroplet vaporization for highly efficient tumor ablation with real-time monitoring performance. Biomaterials, 2016, 106, 264-275.	5.7	28
110	Photoacoustic Imaging in Oncology: Translational Preclinical and Early Clinical Experience. Radiology, 2016, 280, 332-349.	3.6	153
111	Acoustic and optical droplet vaporization for enhanced sonoporation. , 2016, , .		0
112	Porphyrin Nanodroplets: Subâ€micrometer Ultrasound and Photoacoustic Contrast Imaging Agents. Small, 2016, 12, 371-380.	5.2	82
113	Advanced photoacoustic and thermoacoustic sensing and imaging beyond pulsed absorption contrast. Journal of Optics (United Kingdom), 2016, 18, 074006.	1.0	60

#	Article	IF	CITATIONS
114	Graphene Meets Microbubbles: A Superior Contrast Agent for Photoacoustic Imaging. ACS Applied Materials & Interfaces, 2016, 8, 16465-16475.	4.0	47
115	Highly sensitive magneto-motive photoacoustic and ultrasound (PAUS) imaging with cyclic excitations. Journal of Optics (United Kingdom), 2016, 18, 024009.	1.0	5
116	Multifunctional Ultrasound Contrast Agents Integrating Targeted Imaging and Therapy. Springer Series in Biomaterials Science and Engineering, 2016, , 107-151.	0.7	1
117	Doxorubicin nanobubble for combining ultrasonography and targeted chemotherapy of rabbit with VX2 liver tumor. Tumor Biology, 2016, 37, 8673-8680.	0.8	28
118	Black titania-based theranostic nanoplatform for single NIR laser induced dual-modal imaging-guided PTT/PDT. Biomaterials, 2016, 84, 13-24.	5.7	189
119	Micro-Doppler Photoacoustic Effect and Sensing by Ultrasound Radar. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 152-157.	1.9	21
120	Microfluidic fabrication of stimuli-responsive microdroplets for acoustic and optical droplet vaporization. Journal of Materials Chemistry B, 2016, 4, 2723-2730.	2.9	17
121	Imaging-guided photoacoustic drug release and synergistic chemo-photoacoustic therapy with paclitaxel-containing nanoparticles. Journal of Controlled Release, 2016, 226, 77-87.	4.8	45
122	Quantitative Ultrasound for Nondestructive Characterization of Engineered Tissues and Biomaterials. Annals of Biomedical Engineering, 2016, 44, 636-648.	1.3	16
123	Monitoring/Imaging and Regenerative Agents for Enhancing Tissue Engineering Characterization and Therapies. Annals of Biomedical Engineering, 2016, 44, 750-772.	1.3	18
124	Drug-Loaded Perfluorocarbon Nanodroplets for Ultrasound-Mediated Drug Delivery. Advances in Experimental Medicine and Biology, 2016, 880, 221-241.	0.8	73
125	What is new in nanoparticleâ€based photoacoustic imaging?. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2017, 9, e1404.	3.3	92
126	Highly versatile SPION encapsulated PLGA nanoparticles as photothermal ablators of cancer cells and as multimodal imaging agents. Biomaterials Science, 2017, 5, 432-443.	2.6	61
127	Multi-wave EM-Acoustic Introduction. Springer Theses, 2017, , 1-7.	0.0	0
128	Oxygen and Indocyanine Green loaded microparticles for dual-mode imaging and sonodynamic treatment of cancer cells. Ultrasonics Sonochemistry, 2017, 39, 197-207.	3.8	37
129	Laser-Activated Polymeric Microcapsules for Ultrasound Imaging and Therapy: InÂVitro Feasibility. Biophysical Journal, 2017, 112, 1894-1907.	0.2	5
130	A magnetic droplet vaporization approach using perfluorohexane-encapsulated magnetic mesoporous particles for ultrasound imaging and tumor ablation. Biomaterials, 2017, 134, 43-50.	5.7	41
131	An analytical study of photoacoustic and thermoacoustic generation efficiency towards contrast agent and film design optimization. Photoacoustics, 2017, 7, 1-11.	4.4	35

#	Article	IF	CITATIONS
132	Optically and acoustically triggerable sub-micron phase-change contrast agents for enhanced photoacoustic and ultrasound imaging. Photoacoustics, 2017, 6, 26-36.	4.4	44
133	Janus plasmonic–magnetic gold–iron oxide nanoparticles as contrast agents for multimodal imaging. Nanoscale, 2017, 9, 9467-9480.	2.8	145
134	Two-dimensional black phosphorus nanosheets for theranostic nanomedicine. Materials Horizons, 2017, 4, 800-816.	6.4	155
135	Advanced Photoacoustic Imaging Applications of Nearâ€Infrared Absorbing Organic Nanoparticles. Small, 2017, 13, 1700710.	5.2	238
136	Selective intracellular vaporisation of antibody-conjugated phase-change nano-droplets in vitro. Scientific Reports, 2017, 7, 44077.	1.6	25
137	Microwave-Induced Thermoacoustic Communications. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3369-3378.	2.9	40
138	Nanoparticles for Photoacoustic Imaging of Cancer. , 2017, , 315-335.		1
139	Polymer-Stabilized Perfluorobutane Nanodroplets for Ultrasound Imaging Agents. Journal of the American Chemical Society, 2017, 139, 15-18.	6.6	59
140	Nanomaterials for In Vivo Imaging. Chemical Reviews, 2017, 117, 901-986.	23.0	879
141	Novel method for the formation of monodisperse superheated perfluorocarbon nanodroplets as activatable ultrasound contrast agents. RSC Advances, 2017, 7, 48561-48568.	1.7	33
142	Copper Sulfide Perfluorocarbon Nanodroplets as Clinically Relevant Photoacoustic/Ultrasound Imaging Agents. Nano Letters, 2017, 17, 5984-5989.	4.5	70
143	Polypyrrole-Coated Perfluorocarbon Nanoemulsions as a Sono-Photoacoustic Contrast Agent. Nano Letters, 2017, 17, 6184-6194.	4.5	51
144	Nano Air Seeds Trapped in Mesoporous Janus Nanoparticles Facilitate Cavitation and Enhance Ultrasound Imaging. ACS Applied Materials & Interfaces, 2017, 9, 35234-35243.	4.0	27
145	Self-quenched ferrocenyl diketopyrrolopyrrole organic nanoparticles with amplifying photothermal effect for cancer therapy. Chemical Science, 2017, 8, 7457-7463.	3.7	81
146	Laser-driven resonance of dye-doped oil-coated microbubbles: Experimental study. Journal of the Acoustical Society of America, 2017, 141, 4832-4846.	0.5	6
147	Contrast-enhanced ultrasound imaging <i>in vivo</i> with laser-activated nanodroplets. Medical Physics, 2017, 44, 3444-3449.	1.6	28
148	Ultrasound-Mediated Diagnosis and Therapy based on Ultrasound Contrast Agents. Small Methods, 2017, 1, 1700173.	4.6	17
149	Laser-driven resonance of dye-doped oil-coated microbubbles: A theoretical and numerical study. Journal of the Acoustical Society of America, 2017, 141, 2727-2745.	0.5	7

#	Article	IF	CITATIONS
150	Construction of Silicaâ€Based Micro/Nanoplatforms for Ultrasound Theranostic Biomedicine. Advanced Healthcare Materials, 2017, 6, 1700646.	3.9	51
151	New insight into photoacoustic conversion efficiency by plasmon-mediated nanocavitation: Implications for precision theranostics. Nano Research, 2017, 10, 2800-2809.	5.8	13
152	Concurrent anti-vascular therapy and chemotherapy in solid tumors using drug-loaded acoustic nanodroplet vaporization. Acta Biomaterialia, 2017, 49, 472-485.	4.1	46
153	TaOx decorated perfluorocarbon nanodroplets as oxygen reservoirs to overcome tumor hypoxia and enhance cancer radiotherapy. Biomaterials, 2017, 112, 257-263.	5.7	199
154	Numerical investigation of nonlinear sound propagation of photoacoustic tomography imaging. Optics Express, 2017, 25, 23486.	1.7	1
155	A Laser-Activated Biocompatible Theranostic Nanoagent for Targeted Multimodal Imaging and Photothermal Therapy. Theranostics, 2017, 7, 4410-4423.	4.6	79
156	Photoacoustic Drug Delivery. Sensors, 2017, 17, 1400.	2.1	33
157	Phase-transitional Fe <sub>3</sub> O <sub>4</sub> /perfluorohexane Microspheres for Magnetic Droplet Vaporization. Theranostics, 2017, 7, 846-854.	4.6	26
158	Multimodal photoacoustic imaging as a tool for sentinel lymph node identification and biopsy guidance. Biomedical Engineering Letters, 2018, 8, 183-191.	2.1	19
159	Organic Semiconducting Photoacoustic Nanodroplets for Laser-Activatable Ultrasound Imaging and Combinational Cancer Therapy. ACS Nano, 2018, 12, 2610-2622.	7.3	174
160	A laser-activated multifunctional targeted nanoagent for imaging and gene therapy in a mouse xenograft model with retinoblastoma Y79 cells. Acta Biomaterialia, 2018, 70, 211-226.	4.1	18
161	Pro-apoptotic liposomes-nanobubble conjugate synergistic with paclitaxel: a platform for ultrasound responsive image-guided drug delivery. Scientific Reports, 2018, 8, 2624.	1.6	34
162	Multifunctional Nanoflowers for Simultaneous Multimodal Imaging and High-Sensitivity Chemo-Photothermal Treatment. Bioconjugate Chemistry, 2018, 29, 559-570.	1.8	36
163	Sensitive detection of thyroid stimulating hormone by inkjet printed microchip with a double signal amplification strategy. Chinese Chemical Letters, 2018, 29, 1879-1882.	4.8	7
164	Development of fluorinated polyplex nanoemulsions for improved small interfering RNA delivery and cancer therapy. Nano Research, 2018, 11, 3746-3761.	5.8	37
165	Molecularly Engineered Theranostic Nanoparticles for Thrombosed Vessels: H <sub>2</sub> O <sub>2</sub> -Activatable Contrast-Enhanced Photoacoustic Imaging and Antithrombotic Therapy. ACS Nano, 2018, 12, 392-401.	7.3	101
166	Tumor-specific disintegratable nanohybrids containing ultrasmall inorganic nanoparticles: from design and improved properties to cancer applications. Materials Horizons, 2018, 5, 184-205.	6.4	65
167	Cardiomyocyte-targeted and 17β-estradiol-loaded acoustic nanoprobes as a theranostic platform for cardiac hypertrophy. Journal of Nanobiotechnology, 2018, 16, 36.	4.2	10

#	Article	IF	CITATIONS
168	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
169	Magneto-optical nanoparticles for cyclic magnetomotive photoacoustic imaging. Physica C: Superconductivity and Its Applications, 2018, 548, 90-92.	0.6	3
170	Near infrared dye-conjugated oxidative stress amplifying polymer micelles for dual imaging and synergistic anticancer phototherapy. Biomaterials, 2018, 154, 48-59.	5.7	60
171	Photoacoustic Imaging: Contrast Agents and Their Biomedical Applications. Advanced Materials, 2019, 31, e1805875.	11.1	468
172	Cold nanorod-encapsulated biodegradable polymeric matrix for combined photothermal and chemo-cancer therapy. International Journal of Nanomedicine, 2019, Volume 14, 181-193.	3.3	35
173	Speed-of-sound Estimation of Dual-acoustic Waves using Laser-activated Nanodroplets. Journal of the Korean Physical Society, 2018, 73, 586-591.	0.3	0
174	Dual-mode imaging and therapeutic effects of drug-loaded phase-transition nanoparticles combined with near-infrared laser and low-intensity ultrasound on ovarian cancer. Drug Delivery, 2018, 25, 1683-1693.	2.5	26
175	From Micro- to Nano-Multifunctional Theranostic Platform: Effective Ultrasound Imaging Is Not Just a Matter of Scale. Molecular Imaging, 2018, 17, 153601211877821.	0.7	27
176	Intrinsically absorbing photoacoustic and ultrasound contrast agents for cancer therapy and imaging. Nanotechnology, 2018, 29, 505103.	1.3	29
177	A light-controllable specific drug delivery nanoplatform for targeted bimodal imaging-guided photothermal/chemo synergistic cancer therapy. Acta Biomaterialia, 2018, 80, 308-326.	4.1	70
178	Photostable, hydrophilic, and near infrared quaterrylene-based dyes for photoacoustic imaging. Materials Science and Engineering C, 2018, 93, 1012-1019.	3.8	5
179	Fluorinated DNA Micelles: Synthesis and Properties. Analytical Chemistry, 2018, 90, 6843-6850.	3.2	24
180	Recent Development of Technology and Application of Photoacoustic Molecular Imaging Toward Clinical Translation. Journal of Nuclear Medicine, 2018, 59, 1202-1207.	2.8	25
181	Clinical Diagnostic Imaging. , 2018, , 107-130.		0
182	Drug Release from Phase-Changeable Nanodroplets Triggered by Low-Intensity Focused Ultrasound. Theranostics, 2018, 8, 1327-1339.	4.6	138
183	Clinically-Applicable Perfluorocarbon-Loaded Nanoparticles For <i>In vivo</i> Photoacoustic, <sup>19</sup> F Magnetic Resonance And Fluorescent Imaging. Nanotheranostics, 2018, 2, 258-268.	2.7	29
184	High-Performance Identification of Human Bladder Cancer Using a Signal Self-Amplifiable Photoacoustic Nanoprobe. ACS Applied Materials & Interfaces, 2018, 10, 28331-28339.	4.0	18
185	Cavitation-threshold Determination and Rheological-parameters Estimation of Albumin-stabilized Nanobubbles. Scientific Reports, 2018, 8, 7472.	1.6	20

CITITION	
	(FR()RT

#	Article	IF	CITATIONS
186	Photoacoustic Imaging Tools for Nanomedicine. , 2018, , 459-508.		0
187	Laser-Activated Bioprobes with High Photothermal Conversion Efficiency for Sensitive Photoacoustic/Ultrasound Imaging and Photothermal Sensing. ACS Applied Materials & Interfaces, 2018, 10, 29251-29259.	4.0	43
188	Review: optically-triggered phase-transition droplets for photoacoustic imaging. Biomedical Engineering Letters, 2018, 8, 223-229.	2.1	20
189	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
190	Activatable Hybrid Polyphosphazene-AuNP Nanoprobe for ROS Detection by Bimodal PA/CT Imaging. ACS Applied Materials & Interfaces, 2019, 11, 28648-28656.	4.0	45
191	Tuning the ultrasonic and photoacoustic response of polydopamine-stabilized perfluorocarbon contrast agents. Journal of Materials Chemistry B, 2019, 7, 4833-4842.	2.9	12
192	Listening for the therapeutic window: Advances in drug delivery utilizing photoacoustic imaging. Advanced Drug Delivery Reviews, 2019, 144, 78-89.	6.6	33
193	Synchronized Optical and Acoustic Droplet Vaporization for Effective Sonoporation. Pharmaceutics, 2019, 11, 279.	2.0	9
194	A Dualâ€Model Imaging Theragnostic System Based on Mesoporous Silica Nanoparticles for Enhanced Cancer Phototherapy. Advanced Healthcare Materials, 2019, 8, e1900840.	3.9	73
195	Ultrasound-Responsive Conversion of Microbubbles to Nanoparticles to Enable Background-Free in Vivo Photoacoustic Imaging. Nano Letters, 2019, 19, 8109-8117.	4.5	47
196	Photoacoustic and Ultrasound Dual-Mode Imaging via Functionalization of Recombinant Protein-Stabilized Microbubbles with Methylene Blue. ACS Applied Bio Materials, 2019, 2, 4020-4026.	2.3	13
197	Melanin-loaded biocompatible photosensitive nanoparticles for controlled drug release in combined photothermal-chemotherapy guided by photoacoustic/ultrasound dual-modality imaging. Biomaterials Science, 2019, 7, 4060-4074.	2.6	27
198	Gas-Mediated Cancer Bioimaging and Therapy. ACS Nano, 2019, 13, 10887-10917.	7.3	206
199	Folate-Targeted and Oxygen/Indocyanine Green-Loaded Lipid Nanoparticles for Dual-Mode Imaging and Photo-sonodynamic/Photothermal Therapy of Ovarian Cancer in Vitro and in Vivo. Molecular Pharmaceutics, 2019, 16, 4104-4120.	2.3	48
200	Photoacoustic ratiometric assessment of mitoxantrone release from theranostic ICG-conjugated mesoporous silica nanoparticles. Nanoscale, 2019, 11, 18031-18036.	2.8	12
201	Intrinsic chemistry and design principle of ultrasound-responsive nanomedicine. Nano Today, 2019, 28, 100773.	6.2	45
202	A photoacoustic shockwave triggers the size shrinkage of nanoparticles to obviously improve tumor penetration and therapeutic efficacy. Nanoscale, 2019, 11, 1423-1436.	2.8	14
203	Low intensity focused ultrasound (LIFU) triggered drug release from cetuximab-conjugated phase-changeable nanoparticles for precision theranostics against anaplastic thyroid carcinoma. Biomaterials Science, 2019, 7, 196-210.	2.6	27

#	Article	IF	CITATIONS
204	Explosible nanocapsules excited by pulsed microwaves for efficient thermoacoustic-chemo combination therapy. Nanoscale, 2019, 11, 1710-1719.	2.8	26
205	Color-coded perfluorocarbon nanodroplets for multiplexed ultrasound and photoacoustic imaging. Nano Research, 2019, 12, 741-747.	5.8	18
206	Perfluoroheptane‣oaded Hollow Gold Nanoshells Reduce Nanobubble Threshold Flux. Small, 2019, 15, e1804476.	5.2	7
207	Laser-activated microparticles for multimodal imaging: ultrasound and photoacoustics. Physics in Medicine and Biology, 2019, 64, 034001.	1.6	12
208	IR780-based light-responsive nanocomplexes combining phase transition for enhancing multimodal imaging-guided photothermal therapy. Biomaterials Science, 2019, 7, 1132-1146.	2.6	35
209	<p>A brief review of cytotoxicity of nanoparticles on mesenchymal stem cells in regenerative medicine</p> . International Journal of Nanomedicine, 2019, Volume 14, 3875-3892.	3.3	32
210	Conjugatedâ€Polymerâ€Based Nanoparticles with Efficient NIRâ€II Fluorescent, Photoacoustic and Photothermal Performance. ChemBioChem, 2019, 20, 2793-2799.	1.3	33
211	Lipid Shell Composition Plays a Critical Role in the Stable Size Reduction of Perfluorocarbon Nanodroplets. Ultrasound in Medicine and Biology, 2019, 45, 1489-1499.	0.7	16
212	The development of light-responsive, organic dye based, supramolecular nanosystems for enhanced anticancer therapy. Coordination Chemistry Reviews, 2019, 392, 237-254.	9.5	46
213	Selective intracellular delivery of perfluorocarbon nanodroplets for cytotoxicity threshold reduction on ultrasoundâ€induced vaporization. Cancer Reports, 2019, 2, e1165.	0.6	7
214	Nanoparticle-mediated histotripsy (NMH) using perfluorohexane â€~nanocones'. Physics in Medicine and Biology, 2019, 64, 125018.	1.6	18
215	Optoacoustic mesoscopy for biomedicine. Nature Biomedical Engineering, 2019, 3, 354-370.	11.6	142
216	Bioluminescence Imaging of Inflammation <i>in Vivo</i> Based on Bioluminescence and Fluorescence Resonance Energy Transfer Using Nanobubble Ultrasound Contrast Agent. ACS Nano, 2019, 13, 5124-5132.	7.3	89
217	Perfluorocarbon nanodroplets can reoxygenate hypoxic tumors <i>in vivo</i> without carbogen breathing. Nanotheranostics, 2019, 3, 135-144.	2.7	29
218	Strategies for Image-Guided Therapy, Surgery, and Drug Delivery Using Photoacoustic Imaging. Theranostics, 2019, 9, 1550-1571.	4.6	123
219	Development of Acoustically Active Nanocones Using the Host–Guest Interaction as a New Histotripsy Agent. ACS Omega, 2019, 4, 4176-4184.	1.6	14
220	Low-Intensity Focused Ultrasound-Responsive Phase-Transitional Nanoparticles for Thrombolysis without Vascular Damage: A Synergistic Nonpharmaceutical Strategy. ACS Nano, 2019, 13, 3387-3403.	7.3	118
221	Mesoporous Silica Nanomaterials: Versatile Nanocarriers for Cancer Theranostics and Drug and Gene Delivery. Pharmaceutics, 2019, 11, 77.	2.0	66

#	Article	IF	Citations
222	GSH-sensitive Pt(IV) prodrug-loaded phase-transitional nanoparticles with a hybrid lipid-polymer shell for precise theranostics against ovarian cancer. Theranostics, 2019, 9, 1047-1065.	4.6	62
223	High Signal-to-Noise Ratio Contrast-Enhanced Photoacoustic Imaging using Acoustic Sub-Aperture Processing and Spatiotemporal Filtering. , 2019, , .		8
224	Nonlinear Optical Properties of Gold-silica Nano-particles. , 2019, , .		0
225	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
226	Spontaneous Nucleation of Stable Perfluorocarbon Emulsions for Ultrasound Contrast Agents. Nano Letters, 2019, 19, 173-181.	4.5	45
227	Photoacoustic and fluorescent effects in multilayer plasmonâ€dye interfaces. Journal of Biophotonics, 2019, 12, e201800265.	1.1	16
228	Photoacoustic Resonance Imaging. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	1.9	15
229	Three-Dimensional Microwave-Induced Thermoacoustic Imaging Based on Compressive Sensing Using an Analytically Constructed Dictionary. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 377-386.	2.9	34
230	Timeâ€dependent density functional study for nanodroplet coalescence. AICHE Journal, 2020, 66, e16810.	1.8	1
231	Biomedical application of graphene: From drug delivery, tumor therapy, to theranostics. Colloids and Surfaces B: Biointerfaces, 2020, 185, 110596.	2.5	141
232	Contrast-Enhanced Ultrasound Quantification: From Kinetic Modeling to Machine Learning. Ultrasound in Medicine and Biology, 2020, 46, 518-543.	0.7	31
233	Dual ultrasound-activatable nanodroplets for highly-penetrative and efficient ovarian cancer theranostics. Journal of Materials Chemistry B, 2020, 8, 380-390.	2.9	31
234	Ultrasound-Assisted miR-122-Loaded Polymeric Nanodroplets for Hepatocellular Carcinoma Gene Therapy. Molecular Pharmaceutics, 2020, 17, 541-553.	2.3	21
235	Seeing the Invisible—Ultrasound Molecular Imaging. Ultrasound in Medicine and Biology, 2020, 46, 479-497.	0.7	31
236	Investigation of ultrasound velocity measurements of polymeric parts with different surface roughness. Polymer Testing, 2020, 81, 106231.	2.3	3
237	A sequential targeting nanoplatform for anaplastic thyroid carcinoma theranostics. Acta Biomaterialia, 2020, 102, 367-383.	4.1	14
238	Organic nanoparticle-doped microdroplets as dual-modality contrast agents for ultrasound microvascular flow and photoacoustic imaging. Scientific Reports, 2020, 10, 17009.	1.6	1
239	A stimulated liquid–gas phase transition nanoprobe dedicated to enhance the microwave thermoacoustic imaging contrast of breast tumors. Nanoscale, 2020, 12, 16034-16040.	2.8	9

#	Article	IF	Citations
240	Multimodal and multifunctional nanoparticles with platelet targeting ability and phase transition efficiency for the molecular imaging and thrombolysis of coronary microthrombi. Biomaterials Science, 2020, 8, 5047-5060.	2.6	20
241	Thrombin-responsive engineered nanoexcavator with full-thickness infiltration capability for pharmaceutical-free deep venous thrombosis theranostics. Biomaterials Science, 2020, 8, 4545-4558.	2.6	17
242	Perfluorocarbon-Loaded Hydrogel Microcapsules from Interface Shearing for Magnetic Guided Ultrasound and Laser Activation. Frontiers in Physics, 2020, 8, .	1.0	3
243	Engineering Plasmonic Nanoparticles for Enhanced Photoacoustic Imaging. ACS Nano, 2020, 14, 9408-9422.	7.3	144
244	Self-Assembled Organic Nanomaterials for Drug Delivery, Bioimaging, and Cancer Therapy. ACS Biomaterials Science and Engineering, 2020, 6, 4816-4833.	2.6	66
245	Fundamentals and applications of nanoparticles for ultrasoundâ€based imaging and therapy. Nano Select, 2020, 1, 263-284.	1.9	9
246	Opto-acoustic synergistic irradiation for vaporization of natural melanin-cored nanodroplets at safe energy levels and efficient sono-chemo-photothermal cancer therapy. Theranostics, 2020, 10, 10448-10465.	4.6	17
247	Activation Strategies in Image-Guided Nanotherapeutic Delivery. Journal of Nanotheranostics, 2020, 1, 78-104.	1.7	4
248	Rational collaborative ablation of bacterial biofilms ignited by physical cavitation and concurrent deep antibiotic release. Biomaterials, 2020, 262, 120341.	5.7	60
249	Simple structural indocyanine green-loaded microbubbles for dual-modality imaging and multi-synergistic photothermal therapy in prostate cancer. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 28, 102229.	1.7	8
250	Ultrasound Contrast Agent Modeling: A Review. Ultrasound in Medicine and Biology, 2020, 46, 2117-2144.	0.7	110
251	Multifaceted application of nanoparticle-based labeling strategies for stem cell therapy. Nano Today, 2020, 34, 100897.	6.2	13
252	Microbubble Agents: New Directions. Ultrasound in Medicine and Biology, 2020, 46, 1326-1343.	0.7	118
253	Compartmentalized bimetal cluster-poly(aniline) hybrid nanostructures for multiplexed detection of autoantibodies in early diagnosis of rheumatoid arthritis. Sensors and Actuators B: Chemical, 2020, 321, 128482.	4.0	12
254	Three-phase vaporization theory for laser-activated microcapsules. Photoacoustics, 2020, 19, 100185.	4.4	3
255	Optimizing the Geometry of Photoacoustically Active Gold Nanoparticles for Biomedical Imaging. ACS Photonics, 2020, 7, 646-652.	3.2	49
256	Fixed-point "blasting―triggered by second near-infrared window light for augmented interventional photothermal therapy. Biomaterials Science, 2020, 8, 2955-2965.	2.6	5
257	Molecular imaging of inflammation - Current and emerging technologies for diagnosis and treatment. , 2020, 211, 107550.		45

			-
#	ARTICLE	IF	CITATIONS
258	Gas-mediated cancer therapy. Environmental Chemistry Letters, 2021, 19, 149-166.	8.3	14
259	Effective Eradication of Tumors by Enhancing Photoacousticâ€Imagingâ€Guided Combined Photothermal Therapy and Ultrasonic Therapy. Advanced Functional Materials, 2021, 31, 2009314.	7.8	28
260	Theranostics: Agents for Diagnosis and Therapy. , 2021, , 655-677.		3
261	Photoacoustic Molecular Imaging With Exogenous Agents. , 2021, , 627-638.		1
262	Exploring the transition of polydopamine-shelled perfluorohexane emulsion droplets into microbubbles using small- and ultra-small-angle neutron scattering. Physical Chemistry Chemical Physics, 2021, 23, 9843-9850.	1.3	7
263	Oxygen-embedded quinoidal acene based semiconducting chromophore nanoprobe for amplified photoacoustic imaging. Methods in Enzymology, 2021, 657, 385-413.	0.4	Ο
264	Photoacoustic Imaging of Myocardial Infarction Region Using Non-Invasive Fibrin-Targeted Nanoparticles in a Rat Myocardial Ischemia-Reperfusion Model. International Journal of Nanomedicine, 2021, Volume 16, 1331-1344.	3.3	9
265	A non-invasive nanoparticles for multimodal imaging of ischemic myocardium in rats. Journal of Nanobiotechnology, 2021, 19, 82.	4.2	17
266	Anti-HER2 PLGA-PEG polymer nanoparticle containing gold nanorods and paclitaxel for laser-activated breast cancer detection and therapy. Biomedical Optics Express, 2021, 12, 2171.	1.5	9
268	Elimination of Nontargeted Photoacoustic Signals for Combined Photoacoustic and Ultrasound Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1593-1604.	1.7	2
269	Photoacoustic imaging as a highly efficient and precise imaging strategy for the evaluation of brain diseases. Quantitative Imaging in Medicine and Surgery, 2021, 11, 2169-2186.	1.1	20
270	Multifunctional nanoparticles as theranostic agents for therapy and imaging of breast cancer. Journal of Photochemistry and Photobiology B: Biology, 2021, 218, 112110.	1.7	20
271	Acoustics at the nanoscale (nanoacoustics): A comprehensive literature review. Part II: Nanoacoustics for biomedical imaging and therapy. Sensors and Actuators A: Physical, 2021, 332, 112925.	2.0	7
272	Polyacrylamide hydrogel phantoms for performance evaluation of multispectral photoacoustic imaging systems. Photoacoustics, 2021, 22, 100245.	4.4	17
273	Intellective and stimuli-responsive drug delivery systems in eyes. International Journal of Pharmaceutics, 2021, 602, 120591.	2.6	28
274	Polymer-Based Materials and their Applications in Image-Guided Cancer Therapy. Current Medicinal Chemistry, 2022, 29, 1352-1368.	1.2	3
275	Enhanced photoacoustic effect for simultaneous imaging and drug release using phase-transition mesoporous silicon nanoprobe. AIP Advances, 2021, 11, 075104.	0.6	1
276	The Application of Organic Nanomaterials for Bioimaging, Drug Delivery, and Therapy: Spanning Various Domains. IEEE Nanotechnology Magazine, 2021, 15, 8-28.	0.9	16

#	Article	IF	CITATIONS
277	Versatile gadolinium(III)-phthalocyaninate photoagent for MR/PA imaging-guided parallel photocavitation and photodynamic oxidation at single-laser irradiation. Biomaterials, 2021, 275, 120993.	5.7	10
278	Photoacoustic Nanotracers for Subsurface Applications: Opportunities and Challenges. , 2021, , .		Ο
279	Ultrasound-assisted investigation of photon triggered vaporization of poly(vinylalcohol) phase-change nanodroplets: A preliminary concept study with dosimetry perspective. Physica Medica, 2021, 89, 232-242.	0.4	6
280	Ultrasound and Photoacoustic Imaging of Laser-Activated Phase-Change Perfluorocarbon Nanodroplets. Photonics, 2021, 8, 405.	0.9	9
281	Microbubbles and Nanodrops for photoacoustic tomography. Current Opinion in Colloid and Interface Science, 2021, 55, 101464.	3.4	10
282	Molecular Imaging-Guided Sonodynamic Therapy. Bioconjugate Chemistry, 2022, 33, 993-1010.	1.8	20
283	Advances and perspectives in organic sonosensitizers for sonodynamic therapy. Coordination Chemistry Reviews, 2021, 445, 214087.	9.5	128
284	Repeated Acoustic Vaporization of Perfluorohexane Nanodroplets for Contrast-Enhanced Ultrasound Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 3497-3506.	1.7	13
285	Spectroscopic Photoacoustic Imaging of Gold Nanorods. Methods in Molecular Biology, 2017, 1570, 179-194.	0.4	4
286	Probing Different Biological Length Scales Using Photoacoustics: From 1 to 1000 MHz. , 2017, , 303-324.		3
287	Probing Different Biological Length Scales Using Photoacoustics: From 1 To 1000 MHz. , 2014, , 1-18.		6
288	CHAPTER 12. Stimuli-responsive Materials in Theranostics. Biomaterials Science Series, 0, , 284-316.	0.1	1
289	Photoacoustic response induced by nanoparticle-mediated photothermal bubbles beyond the thermal expansion for potential theranostics. Journal of Biomedical Optics, 2018, 23, 1.	1.4	22
290	Photoacoustic imaging of cancer cells with glycol-chitosan-coated gold nanoparticles as contrast agents. Journal of Biomedical Optics, 2019, 24, 1.	1.4	32
291	Dual-drug loaded phase-changing nanodroplets for image-guided tumor therapy. , 2020, , .		1
292	Chemiluminescence resonance energy transfer–based nanoparticles for quantum yield–enhanced cancer phototheranostics. Science Advances, 2020, 6, eaaz8400.	4.7	51
293	Photoacoustic imaging of cells in a three-dimensional microenvironment. Journal of Biomedical Science, 2020, 27, 3.	2.6	26
294	Toward optimization of blood brain barrier opening induced by laser-activated perfluorocarbon nanodroplets. Biomedical Optics Express, 2019, 10, 3139.	1.5	10

#	Article	IF	CITATIONS
295	Spatiotemporally controlled nano-sized third harmonic generation agents. Biomedical Optics Express, 2019, 10, 3301.	1.5	5
296	Deep learning improves contrast in low-fluence photoacoustic imaging. Biomedical Optics Express, 2020, 11, 3360.	1.5	61
297	Laser-activated perfluorocarbon nanodroplets: a new tool for blood brain barrier opening. Biomedical Optics Express, 2018, 9, 4527.	1.5	17
298	Delivery of thymoquinone to cancer cells with as1411-conjugated nanodroplets. PLoS ONE, 2020, 15, e0233466.	1.1	15
299	Clinical photoacoustic imaging of cancer. Ultrasonography, 2016, 35, 267-280.	1.0	123
300	Photo- and Sono-Dynamic Therapy: A Review of Mechanisms and Considerations for Pharmacological Agents Used in Therapy Incorporating Light and Sound. Current Pharmaceutical Design, 2019, 25, 401-412.	0.9	38
301	Cancer Therapy Based on Smart Drug Delivery with Advanced Nanoparticles. Anti-Cancer Agents in Medicinal Chemistry, 2019, 19, 720-730.	0.9	8
302	CDCP1-targeted nanoparticles encapsulating phase-shift perfluorohexan for molecular US imaging in vitro. Clinical Hemorheology and Microcirculation, 2020, , 1-11.	0.9	2
303	Ultrasound for molecular imaging and therapy in cancer. Quantitative Imaging in Medicine and Surgery, 2012, 2, 87-97.	1.1	63
304	Photoechogenic Inflatable Nanohybrids for Upconversion-Mediated Sonotheranostics. ACS Nano, 2021, 15, 18394-18402.	7.3	8
306	Photoacoustic Therapy using Perfluorohexane-containing Nanoparticles. , 2016, , .		0
307	Optically Activated Oxygen-Loaded Perfluorocarbon Nanoparticles for Ultrasound-guided Radiation Therapy. , 2017, , .		0
309	Super-contrast photoacoustic resonance imaging. , 2018, , .		0
310	Therapeutic IVUS and Contrast Imaging. , 2020, , 227-256.		1
312	Hybridized double-shell periodic mesoporous organosilica nanotheranostics for ultrasound imaging guided photothermal therapy. Journal of Colloid and Interface Science, 2022, 608, 2964-2972.	5.0	6
313	Hydrophobically Modified Silica-Coated Gold Nanorods for Generating Nonlinear Photoacoustic Signals. ACS Applied Nano Materials, 2021, 4, 12073-12082.	2.4	3
314	Drug Release from Gelsolin-Targeted Phase-Transition Nanoparticles Triggered by Low-Intensity Focused Ultrasound. International Journal of Nanomedicine, 2022, Volume 17, 61-71.	3.3	10
315	Photoacoustic response optimization of gold nanorods in the near-infrared region. Results in Physics, 2022, 34, 105209.	2.0	9

#	Article	IF	CITATIONS
316	DNA-Templated ultrasmall bismuth sulfide nanoparticles for photoacoustic imaging of myocardial infarction. Journal of Colloid and Interface Science, 2022, 615, 475-484.	5.0	12
317	Ultrasound and nanomaterial: an efficient pair to fight cancer. Journal of Nanobiotechnology, 2022, 20, 139.	4.2	23
318	Chemical Design of Activatable Photoacoustic Probes for Precise Biomedical Applications. Chemical Reviews, 2022, 122, 6850-6918.	23.0	94
319	Effect of perfluorocarbon composition on activation of phase hanging ultrasound contrast agents. Medical Physics, 2022, 49, 2212-2219.	1.6	6
320	Sonoporation based on repeated vaporization of gold nanodroplets. Medical Physics, 2022, , .	1.6	1
321	Inorganic Nanomaterial for Biomedical Imaging of Brain Diseases. Molecules, 2021, 26, 7340.	1.7	8
322	Nonaromatic Organonickel(II) Phototheranostics. Journal of the American Chemical Society, 2022, 144, 7346-7356.	6.6	22
327	Ultrasound triggered organic mechanoluminescence materials. Advanced Drug Delivery Reviews, 2022, 186, 114343.	6.6	14
328	Multifunctional Theranostic Nanoparticles for Enhanced Tumor Targeted Imaging and Synergistic FUS/Chemotherapy on Murine 4T1 Breast Cancer Cell. International Journal of Nanomedicine, 2022, Volume 17, 2165-2187.	3.3	9
329	Droplet Evaporation to Boiling in Van Der Waals Fluid. Journal of Thermal Science, 2022, 31, 790-801.	0.9	2
330	An NIRâ€II Photothermally Triggered "Oxygen Bomb―for Hypoxic Tumor Programmed Cascade Therapy. Advanced Materials, 2022, 34, .	11.1	48
331	Next-Generation Colloidal Materials for Ultrasound Imaging Applications. Ultrasound in Medicine and Biology, 2022, 48, 1373-1396.	0.7	2
332	EGFR-Targeted Perfluorohexane Nanodroplets for Molecular Ultrasound Imaging. Nanomaterials, 2022, 12, 2251.	1.9	4
333	Biomechanical Sensing Using Gas Bubbles Oscillations in Liquids and Adjacent Technologies: Theory and Practical Applications. Biosensors, 2022, 12, 624.	2.3	1
334	Recent Progress Toward Imaging Application of Multifunction Sonosensitizers in Sonodynamic Therapy. International Journal of Nanomedicine, 0, Volume 17, 3511-3529.	3.3	9
335	Nanotechnology for Enhancing Medical Imaging. Micro/Nano Technologies, 2022, , 1-60.	0.1	0
337	Gas Bubble Photonics: Manipulating Sonoluminescence Light with Fluorescent and Plasmonic Nanoparticles. Applied Sciences (Switzerland), 2022, 12, 8790.	1.3	1
338	Multifunctional theragnostic ultrasmall gold nanodot-encapsuled perfluorocarbon nanodroplets for laser-focused ultrasound sequence irradiation (LFSI)-based enhanced tumor ablation. Journal of Materials Chemistry B, 2022, 10, 9816-9829.	2.9	1

#	Article	IF	CITATIONS
339	Influence of the temperature-dependent dielectric constant on the photoacoustic effect of gold nanospheres. Physical Chemistry Chemical Physics, 2022, 24, 29667-29682.	1.3	3
340	Photoacoustic Vaporization of Endoskeletal Droplets Loaded with Zinc Naphthalocyanine. Langmuir, 2023, 39, 168-176.	1.6	1
341	Nanotechnology for Enhancing Medical Imaging. Micro/Nano Technologies, 2023, , 99-156.	0.1	0
342	Photoacoustic tomography and its applications. , 2023, , 621-645.		1
343	Intensified and controllable vaporization of phase-changeable nanodroplets induced by simultaneous exposure of laser and ultrasound. Ultrasonics Sonochemistry, 2023, 94, 106312.	3.8	2
344	Photoacoustic imaging for characterization of radiofrequency ablated cardiac tissues. Lasers in Medical Science, 2023, 38, .	1.0	2
345	Engineering and Development of a Tissue Model for the Evaluation of Microneedle Penetration Ability, Drug Diffusion, Photothermal Activity, and Ultrasound Imaging: A Promising Surrogate to Ex Vivo and In Vivo Tissues. Advanced Materials, 2023, 35, .	11.1	7
346	Metal Complexes and Nanoparticles for Photoacoustic Imaging. ChemBioChem, 2023, 24, .	1.3	7
347	Analytic prediction of droplet vaporization events to estimate the precision of ultrasoundâ€based proton range verification. Medical Physics, 0, , .	1.6	0
348	Real-time monitoring of NIR-triggered drug release from phase-changeable nanodroplets by photoacoustic/ultrasound imaging. Photoacoustics, 2023, 30, 100474.	4.4	1
349	Enhancing Targeted Therapy in Breast Cancer by Ultrasound-Responsive Nanocarriers. International Journal of Molecular Sciences, 2023, 24, 5474.	1.8	4
350	Acoustic super-resolved spatiotemporal monitoring of theranostic nanodroplets with tuned post-activation dynamics. Applied Physics Letters, 2023, 122, .	1.5	2
351	Biobased Agents for Singleâ $\in$ Particle Detection with Optoacoustics. Small, 2023, 19, .	5.2	0
352	Recent developments of Red/NIR carbon dots in biosensing, bioimaging, and tumor theranostics. Chemical Engineering Journal, 2023, 465, 143010.	6.6	22
358	Super-resolved extravascular monitoring technique using recondensation of theranostic nanodroplets. , 2023, , .		0