

October 20, 2020	<a href="#">Modulation of vascular response after injury in the rat Achilles tendon alters healing capacity</a>	Tendons are relatively hypovascular but become hypervascular during both injury and degeneration.
October 19, 2020	<a href="#">Contrast-Enhanced Multispectral Photoacoustic Imaging for Irregular Hepatectomy Navigation: A Pilot Study</a>	Irregular hepatectomy plays a prominent role in the treatment of small hepatocellular carcinoma (HCC) patients with severe cirrhosis and localized liv
October 16, 2020	<a href="#">Clinically-applicable perfluorocarbon-loaded nanoparticles for in vivo photoacoustic, 19f magnetic resonance and fluorescent imaging</a>	Photoacoustic imaging (PAI) is an emerging biomedical imaging technique that is now coming to the clinic.
September 09, 2020	<a href="#">Tetrazine-Derived Near-Infrared Dye as a Facile Reagent for Developing Targeted Photoacoustic Imaging Agents</a>	A new photoacoustic (PA) dye was developed as a simple-to-use reagent for creating targeted PA imaging agents.
May 18, 2020	<a href="#">Silicon carbide nanoparticles as a photoacoustic and photoluminescent dual-imaging contrast agent for long-term cell tracking</a>	Silicon carbide nanoparticles are capable of long-term tracking of mesenchymal stem cells through both photoluminescence and photoacoustic imaging.
April 30, 2020	<a href="#">Photoacoustic imaging of kidney fibrosis for assessing pretransplant organ quality</a>	Roughly 10% of the world's population has chronic kidney disease (CKD).
March 30, 2020	<a href="#">Noninvasive monitoring of liver metastasis development via combined multispectral photoacoustic imaging and fluorescence diffuse optical tomography</a>	Rationale: In vivo molecular imaging in preclinical animal models is a tool of choice for understanding the pathophysiological mechanisms involved in
March 11, 2020	<a href="#">Maltotriose-based probes for fluorescence and photoacoustic imaging of bacterial infections</a>	Currently, there are no non-invasive tools to accurately diagnose wound and surgical site infections before they become systemic or cause significant a
January 01, 2020	<a href="#">Imaging-based vascular-related biomarkers for early detection of acetaminophen-induced liver injury</a>	Acetaminophen (APAP) is the foremost cause of drug-induced liver injury in the Western world.
January 01, 2020	<a href="#">Surface-anchored framework for generating RhD-epitope stealth red blood cells</a>	Rhesus D (RhD) is one of the most important immunogenic antigens on red blood cells (RBCs).
January 01, 2019	<a href="#">Label-free Visualization of Early Cancer Hepatic Micrometastasis and Intraoperative Image-guided Surgery by Photoacoustic Imaging</a>	Objectives: The detection of cancer micrometastasis for early diagnosis and treatment poses a great challenge for conventional imaging techniques.
January 01, 2019	<a href="#">Indocyanine Green J Aggregates in Polymersomes for Near-Infrared Photoacoustic Imaging</a>	Clinical translation of photoacoustic imaging (PAI) has been limited by the lack of near-infrared (NIR) contrast agents with low toxicity required for
January 01, 2019	<a href="#">pH-Responsive Nanoprobe for In Vivo Photoacoustic Imaging of Gastric Acid</a>	In vivo real-time monitoring gastric acid is of great importance for diagnosis and treatment of gastrointestinal diseases.
December 21, 2018	<a href="#">Gadolinium Doping Enhances the Photoacoustic Signal of Synthetic Melanin Nanoparticles: A Dual Modality Contrast Agent for Stem Cell Imaging</a>	ABSTRACT: In this paper, we show that gadolinium-loaded synthetic melanin nanoparticles (Gd(III)-SMNPs) exhibit up to a 40-fold enhanced photoacoustic
April 30, 2018	<a href="#">Intraoperative Resection Guidance with Photoacoustic and Fluorescence Molecular Imaging Using an Anti-B7-H3 Antibody-Indocyanine Green Dual Contrast Agent</a>	Breast cancer often requires surgical treatment including breast-conserving surgical resection.
January 01, 2018	<a href="#">Real-Time in Vivo Photoacoustic Imaging in the Assessment of Myocardial Dynamics in Murine Model of Myocardial Ischemia</a>	Photoacoustic imaging (PAI) is an evolving real-time imaging modality that combines the higher contrast of optical imaging with the higher spatial res

November 01, 2017	<a href="#">Exploration of melanoma metastases in mice brains using endogenous contrast photoacoustic imaging</a>	Photoacoustic imaging (PAI) provides real time non-invasive and contrast agent free monitoring of some endogenous compounds concentrations that provid
January 01, 2016	<a href="#">Spectroscopic photoacoustic molecular imaging of breast cancer using a B7-H3-targeted ICG contrast agent</a>	Purpose: Breast cancer imaging methods lack diagnostic accuracy, in particular for patients with dense breast tissue, and improved techniques are crit
October 19, 2021	<a href="#">Mn(II)-directed dual-photosensitizers co-assemblies for multimodal imaging-guided self-enhanced phototherapy</a>	Phototherapy has attracted increasing attention in cancer therapy owing to its non-invasive nature, high spatiotemporal selectivity, and negligible si
October 19, 2021	<a href="#">Multifunctional nanozyme for multimodal imaging-guided enhanced sonodynamic therapy by regulating the tumor microenvironment</a>	Sonodynamic therapy (SDT) is a highly promising approach for cancer therapy, but its efficacy is severely hampered by the low specificity of sonosensi
October 18, 2021	<a href="#">Role of dextran in stabilization of polypyrrole nanoparticles for photoacoustic imaging</a>	Polypyrrole with bioinert surface is a prospective contrast agent for photoacoustic imaging.
October 18, 2021	<a href="#">Immune/Hypoxic Tumor Microenvironment Regulation-Enhanced Photodynamic Treatment Realized by pH-Responsive Phase Transition-Targeting Nanobubbles</a>	Due to a special pathological type of triple-negative breast cancer (TNBC) and the lack of expression of the estrogen receptor (ER), progesterone rece
October 18, 2021	<a href="#">Theragnostic glycol chitosan conjugated gold nanoparticles for photoacoustic imaging of regional lymph nodes and delivering tumor antigen to lymph nodes</a>	Lymph node mapping is important in cancer immunotherapy because the morphology of lymph nodes is one of the crucial evaluation criteria of immune resp
August 24, 2021	<a href="#">Ultrasensitive Carbon Nanotubes for Photoacoustic Imaging of Inflamed Atherosclerotic Plaques</a>	Disruption of vulnerable atherosclerotic plaques often leads to myocardial infarction and stroke, the leading causes of morbidity and mortality in the
August 24, 2021	<a href="#">Targeted Micellar Phthalocyanine for Lymph Node Metastasis Homing and Photothermal Therapy in an Orthotopic Colorectal Tumor Model</a>	Small-sized trastuzumab-targeted micelles (T-MP) were engineered using a surfactant-stripping approach that yielded concentrated phthalocyanines with
August 09, 2021	<a href="#">Comparison of photoacoustic imaging and histopathological examination in determining the dimensions of 52 human melanomas and nevi ex vivo</a>	Surgical excision followed by histopathological examination is the gold standard for the diagnosis and staging of melanoma.
August 09, 2021	<a href="#">Near-Infrared Heptamethine Cyanine Dyes for Nanoparticle-Based Photoacoustic Imaging and Photothermal Therapy</a>	We have synthesized and characterized a library of near-infrared (NIR) heptamethine cyanine dyes for biomedical application as photoacoustic imaging a
August 09, 2021	<a href="#">Photoacoustic imaging for the monitoring of local changes in oxygen saturation following an adrenaline injection in human forearm skin</a>	Clinical monitoring of blood oxygen saturation (sO <sub>2</sub> ) is traditionally performed using optical techniques, such as pulse oximetry and diffuse reflecta
August 09, 2021	<a href="#">Automatic threshold selection algorithm to distinguish a tissue chromophore from the background in photoacoustic imaging</a>	The adaptive matched filter (AMF) is a method widely used in spectral unmixing to classify different tissue chromophores in photoacoustic images.

August 09, 2021	<a href="#">NIR-II Photoacoustic Reporter for Biopsy-Free and Real-Time Assessment of Wilson's Disease</a>	Wilson's disease (WD) is a rare inherited disorder of copper metabolism with pathological copper hyperaccumulation in some vital organs.
July 07, 2021	<a href="#">In vivo photoacoustic imaging for monitoring treatment outcome of corneal neovascularization with metformin eye drops</a>	Corneal neovascularization (CNV) compromises corneal avascularity and visual acuity.
July 07, 2021	<a href="#">Low-dose X-ray enhanced tumor accumulation of theranostic nanoparticles for high-performance bimodal imaging-guided photothermal therapy</a>	Background: Theranostic nanoparticles (NPs) have achieved rapid development owing to their capacity for personalized multimodal diagnostic imaging and
July 07, 2021	<a href="#">Activatable Carbocyanine Dimers for Photoacoustic and Fluorescent Detection of Protease Activity</a>	Activatable contrast agents are of ongoing research interest because they offer low background and high specificity to the imaging target.
June 25, 2021	<a href="#">ROS-responsive liposomes with NIR light-triggered doxorubicin release for combinatorial therapy of breast cancer</a>	Background: Reactive oxygen species (ROS)-responsive drug delivery systems (DDSs) are potential tools to minimize the side effects and substantially e
June 25, 2021	<a href="#">Regional motion correction for in vivo photoacoustic imaging in humans using interleaved ultrasound images</a>	In translation from preclinical to clinical studies using photoacoustic imaging, motion artifacts represent a major issue.
June 25, 2021	<a href="#">Dual mitigation of immunosuppression combined with photothermal inhibition for highly effective primary tumor and metastases therapy</a>	T-cell based immune response can attack cancer cells formidably when certain immune checkpoint (e.g., PD-1/PD-L1) is blocked.
June 25, 2021	<a href="#">Dual-Stimuli-Responsive Nanotheranostics for Dual-Targeting Photothermal-Enhanced Chemotherapy of Tumor</a>	Stimuli-responsive nanotheranostics have been widely explored for precision medicine.
June 21, 2021	<a href="#">Volumetric tumor delineation and assessment of its early response to radiotherapy with optical coherence tomography</a>	Texture analyses of optical coherence tomography (OCT) images have shown initial promise for differentiation of normal and tumor tissues.
June 21, 2021	<a href="#">Quantitative Functional Evaluation of Liver Fibrosis in Mice with Dynamic Contrast-enhanced Photoacoustic Imaging</a>	Background Dynamic contrast-enhanced (DCE) photoacoustic (PA) imaging (PAI) is a novel noninvasive imaging modality that uses the differences in optic
June 21, 2021	<a href="#">Tailored theranostic nanoparticles cause efficient ferroptosis in head and neck squamous cell carcinoma through a reactive oxygen species "butterfly effect"</a>	Multidrug resistance (MDR) is the main reason of chemotherapy failure in head and neck squamous cell carcinoma (HNSCC) patients, leading to the worst
June 09, 2021	<a href="#">A metal protoporphyrin-induced nano-self-assembly for potentiating photothermal therapy by depleting antioxidant defense systems</a>	Nanomaterial-mediated low-temperature photothermal therapy (PTT) by integrating photothermal agent and heat shock proteins (HSPs) inhibitor holds grea
June 09, 2021	<a href="#">Construction of Smart Nanotheranostic Platform Bi-Ag@PVP: Multimodal CT/PA Imaging-Guided PDT/PTT for Cancer Therapy</a>	High-efficiency nanotheranostic agents with multimodal imaging guidance have attracted considerable interest in the field of cancer therapy.
June 09, 2021	<a href="#">Tuning band gap of MnO<sub>2</sub> nanoflowers by Alkali metal doping for enhanced Ferroptosis/phototherapy synergism in Cancer</a>	Due to the complexity and heterogeneity of tumors, the therapeutic effectiveness of monomodal phototherapy is still limited.
June 07, 2021	<a href="#">Gold Nanorod-Melanin Hybrids for Enhanced and Prolonged Photoacoustic Imaging in the Near-Infrared-II Window</a>	Photoacoustic (PA) imaging holds great promise as a noninvasive imaging modality.

June 07, 2021	<a href="#">In vivo photoacoustic assessment of the oxygen saturation changes in the human radial artery: a preliminary study associated with age</a>	Significance: We demonstrate the potential of probing the sO <sub>2</sub> change under blood flow in vivo using photoacoustic (PA) imaging and sheds light on the
June 07, 2021	<a href="#">Photoacoustic imaging of the spatial distribution of oxygen saturation in an ischemia-reperfusion model in humans</a>	Photoacoustic imaging (PAI) is a novel hybrid imaging technique that combines the advantages of optical and ultrasound imaging to produce hyperspectra
June 04, 2021	<a href="#">Transmucosal Delivery of Self-Assembling Photosensitizer-Nitazoxanide Nanocomplexes with Fluorinated Chitosan for Instillation-Based Photodynamic Therapy of Orthotopic Bladder Tumors</a>	Theoretically, on account of improved local bioavailability of photosensitizers and attenuated systemic phototoxicity, intravesical instillation-based
June 04, 2021	<a href="#">Oxygen and oxaliplatin-loaded nanoparticles combined with photodynamic inducing enhanced immunogenic cell death in syngeneic mouse models of ovarian cancer</a>	Immunotherapy by stimulating the host immune system has been a promising therapeutic strategy for advanced ovarian cancer.
June 04, 2021	<a href="#">Hollow Mesoporous Silica Nanoparticles Gated by Chitosan-Copper Sulfide Composites as Theranostic Agents for the Treatment of Breast Cancer</a>	The combination of chemotherapy and photothermal therapy (PTT) into a single formulation has attracted increasing attention as a strategy for enhancing
June 04, 2021	<a href="#">pH-triggered poly(ethylene glycol)-poly(lactic acid/glycolic acid)/crotonine nanoparticles-assisted multiplexed photoacoustic imaging and enhanced photothermal cancer therapy</a>	The most advantageous and attractive property of photoacoustic imaging is its capability to visualize and differentiate multiple species according to
May 28, 2021	<a href="#">Photoacoustic imaging of myocardial infarction region using non-invasive fibrin-targeted nanoparticles in a rat myocardial ischemia-reperfusion model</a>	Background and Purpose: Myocardial infarction (MI) is a serious threat to public health.
May 20, 2021	<a href="#">Development of an embedded multimodality imaging platform for onco-pharmacology using a smart anticancer prodrug as an example</a>	Increasingly, in vivo imaging holds a strategic position in bio-pharmaceutical innovation.
March 25, 2021	<a href="#">One-step synthesis of multifunctional nanoparticles for CT/PA imaging guided breast cancer photothermal therapy</a>	Advances in nanotheranostics have promoted the development of precision medicine, which has great potential as a weapon for clinical diagnosis and the
March 25, 2021	<a href="#">Photoacoustic monitoring of oxygenation changes induced by therapeutic ultrasound in murine hepatocellular carcinoma</a>	Hepatocellular carcinoma (HCC) is a highly vascular solid tumor.
March 12, 2021	<a href="#">A multimodal molecular imaging approach targeting urokinase plasminogen activator receptor for the diagnosis, resection and surveillance of urothelial cell carcinoma</a>	With a 5-year recurrence rate of 30–78%, urothelial cell carcinoma (UCC) rates amongst the highest of all solid malignancies.
March 08, 2021	<a href="#">Laser activatable perfluorocarbon bubbles for imaging and therapy through enhanced absorption from coupled silica coated gold nanoparticles</a>	Nanoparticles have extensively been used for cancer therapy and imaging (i.e., theranostics) using various imaging modalities.
March 01, 2021	<a href="#">An application of multivariate data analysis to photoacoustic imaging for the spectral unmixing of gold nanorods in biological tissues</a>	Gold nanorods (GNRs) showed to be a suitable contrast agent in photoacoustics (PA), and are able to provide a tunable absorption contrast against back
March 01, 2021	<a href="#">Photoacoustic and high-frequency ultrasound imaging of systemic sclerosis patients</a>	Introduction: Systemic sclerosis starts with an early phase characterized by Raynaud's phenomenon, puffy fingers/hands, autoantibodies, and a sclerode
March 01, 2021	<a href="#">Photoacoustic Imaging and Sensing: A New Way to See the Eye</a>	Purpose: Photoacoustics (optoacoustics) is a hybrid technology utilizing light excitation of acoustic responses in targets of interest.

March 01, 2021	<a href="#">Tumor microenvironments self-activated nanoscale metal organic frameworks for ferroptosis based cancer chemodynamic/photothermal/chemo therapy</a>	Ferroptosis, as a newly discovered cell death form, has become an attractive target for precision cancer therapy.
February 23, 2021	<a href="#">Another decade of photoacoustic imaging</a>	Photoacoustic imaging - a hybrid biomedical imaging modality finding its way to clinical practices.
February 23, 2021	<a href="#">Gold nanoparticle-based nanoprobe with enhanced tumor targeting and photothermal/photodynamic response for therapy of osteosarcoma</a>	Abstract Plasmonic nanomaterials, especially a wide variety of gold nanoparticles, demonstrate great potential for theranostics of cancer.
February 23, 2021	<a href="#">Enhanced Antitumoral Activity and Photoacoustic Imaging Properties of AuNP-Enriched Endothelial Colony Forming Cells on Melanoma</a>	Near infrared (NIR)-resonant gold nanoparticles (AuNPs) hold great promise in cancer diagnostics and treatment.
February 23, 2021	<a href="#">Multifunctional nanoparticles as theranostic agents for therapy and imaging of breast cancer</a>	Over the last decade, there has been significant developments in nanotechnology, in particular for combined imaging and therapeutic applications (ther
February 23, 2021	<a href="#">Visualized podocyte-targeting and focused ultrasound responsive glucocorticoid nano-delivery system against immune-associated nephropathy without glucocorticoid side effect</a>	Glucocorticoids are widely used in the treatment of nephritis, however, its dose-dependent side effects, such as the increased risk of infection and m
January 29, 2021	<a href="#">Quantitative In Vivo Monitoring of Hypoxia and Vascularization of Patient-Derived Murine Xenografts of Mantle Cell Lymphoma Using Photoacoustic and Ultrasound Imaging</a>	Tumor oxygenation and vascularization are important parameters that determine the aggressiveness of the tumor and its resistance to cancer therapies.
January 28, 2021	<a href="#">Experimental myocardial infarction elicits time-dependent patterns of vascular hypoxia in peripheral organs and in the brain</a>	Aims: Microvascular alterations occurring after myocardial infarction (MI) may represent a risk factor for multi-organ failure.
January 18, 2021	<a href="#">Multifunctional nanotheranostic gold nanocage/ selenium core-shell for pai-guided chemo-photothermal synergistic therapy in vivo</a>	Introduction: Cancer theragnosis involving cancer diagnosis and targeted therapy simultaneously in one integrated system would be a promising solution
January 14, 2021	<a href="#">Biomimetic Anti PD 1 Peptide Loaded 2D FePSe 3 Nanosheets for Efficient Photothermal and Enhanced Immune Therapy with Multimodal MR/PA/Thermal Imaging</a>	Metal phosphorous trichalcogenides (MPX <sub>3</sub> ) are novel 2D nanomaterials that have recently been exploited as efficient photothermal–chemodynamic agents f
January 04, 2021	<a href="#">Ultrastable AgBiS<sub>2</sub>Hollow Nanospheres with Cancer Cell-Specific Cytotoxicity for Multimodal Tumor Therapy</a>	Specific cytotoxicity for catalytic nanomedicine triggered by the tumor microenvironment (TME) has attracted increasing interest.
January 04, 2021	<a href="#">Highly photostable croconium dye-anchored cell membrane vesicle for tumor pH-responsive duplex imaging-guided photothermal therapy</a>	The development of tumor acidic microenvironment-responsive theranostic agents is a research hotspot.
January 04, 2021	<a href="#">Photoacoustic and magnetic resonance imaging of hybrid manganese dioxide-coated ultra-small NaGdF<sub>4</sub> nanoparticles for spatiotemporal modulation of hypoxia in head and neck cancer</a>	There is widespread interest in developing agents to modify tumor hypoxia in head and neck squamous cell carcinomas (HNSCC).
January 04, 2021	<a href="#">Assessment of the theranostic potential of gold nanostars-a multimodal imaging and photothermal treatment study</a>	Gold nanoparticles offer the possibility to combine both imaging and therapy of otherwise difficult to treat tumors.
January 04, 2021	<a href="#">Multimodal Imaging of Pancreatic Ductal Adenocarcinoma Using Multifunctional Nanoparticles as Contrast Agents</a>	Late diagnosis and refractory behavior toward current treatment protocols make pancreatic ductal adenocarcinoma (PDAC) one of the most difficult cance

January 04, 2021	<a href="#">Bacteria-derived membrane vesicles to advance targeted photothermal tumor ablation</a>	Nanoscale outer membrane vesicles (OMVs) secreted by Gram-negative bacteria are often applied in antibacterial treatment as adjuvants or antigens.
January 04, 2021	<a href="#">Brain-targeted hypoxia-inducible factor stabilization reduces neonatal hypoxic-ischemic brain injury</a>	Hypoxia-inducible factor-1 $\alpha$ (HIF1 $\alpha$ ) is a major regulator of cellular adaptation to hypoxia and oxidative stress, and recent advances of prolyl-4-hydro
January 04, 2021	<a href="#">Recent advances in applications of multimodal ultrasound-guided photoacoustic imaging technology</a>	Photoacoustic imaging (PAI) is often performed simultaneously with ultrasound imaging and can provide functional and cellular information regarding th
January 04, 2021	<a href="#">Gold Nanorods as Contrast Agent for Photoacoustic Imaging (PAI) of Breast Cancer</a>	Gold Nanorods (AuNRs) can play a fundamental role in the enhancement of photoacoustic imaging (PAI).
November 03, 2020	<a href="#">Comparison of photoacoustic and fluorescence tomography for the in vivo imaging of ICG-labelled liposomes in the medullary cavity in mice</a>	Few reports quantitatively compare the performance of photoacoustic tomography (PAT) versus fluorescence molecular tomography (FMT) in vivo.
November 03, 2020	<a href="#">Ultrasound-stimulated microbubble radiation enhancement of tumors: Single-dose and fractionated treatment evaluation</a>	The use of ultrasound-stimulated microbubble therapy has successfully been used to target tumor vasculature and enhance the effects of radiation thera
November 03, 2020	<a href="#">Short-term molecular and cellular effects of ischemia/reperfusion on vascularized lymph node flaps in rats</a>	Vascularized lymph node (VLN) transfer is an emerging strategy to re-establish lymphatic drainage in chronic lymphedema.
November 03, 2020	<a href="#">Targeted theranostics of lung cancer: PD-L1-guided delivery of gold nanoprisms with chlorin e6 for enhanced imaging and photothermal/photodynamic therapy</a>	Peptide modified nanoparticles have emerged as powerful tools for enhanced cancer diagnosis and novel treatment strategies.
November 03, 2020	<a href="#">Respiratory Supercomplexes Promote Mitochondrial Efficiency and Growth in Severely Hypoxic Pancreatic Cancer</a>	Pancreatic ductal adenocarcinoma (PDAC) is characterized by extensive fibrosis and hypovascularization, resulting in significant intratumoral hypoxia
October 20, 2020	<a href="#">Photoacoustic Imaging for Assessing Tissue Oxygenation Changes in Rat Hepatic Fibrosis</a>	Chronic liver inflammation progressively evokes fibrosis and cirrhosis resulting in compromised liver function, and often leading to cancer.
October 19, 2020	<a href="#">In Vivo Real-Time Pharmaceutical Evaluations of Near-Infrared II Fluorescent Nanomedicine Bound Polyethylene Glycol Ligands for Tumor Photothermal Ablation</a>	Pharmaceutical evaluations of nanomedicines are of great significance for their further launch into industry and clinic.
October 19, 2020	<a href="#">Opto-acoustic synergistic irradiation for vaporization of natural melanin-cored nanodroplets at safe energy levels and efficient sono-chemo-photothermal cancer therapy</a>	Rationale: Insufficient penetration and accumulation of theranostic payloads in solid tumors greatly challenge the clinical translation of cancer nano
October 19, 2020	<a href="#">Tumor Microenvironment Cascade-Responsive Nanodrug with Self-Targeting Activation and ROS Regeneration for Synergistic Oxidation-Chemotherapy</a>	Carrier-free nanodrug with exceptionally high drug payload has attracted increasing attentions.
October 19, 2020	<a href="#">Different PEG-PLGA Matrices Influence In Vivo Optical/Photoacoustic Imaging Performance and Biodistribution of NIR-Emitting <math>\pi</math>-Conjugated Polymer Contrast Agents</a>	The $\pi$ -conjugated polymer poly[2,6-(4,4-bis-(2-ethylhexyl)-4H-cyclopenta[2,1-b;3,4-b0]-dithiophene)-alt-4,7-(2,1,3-benzothiadiazole)] (PCPDTBT) with de

October 16, 2020	<a href="#">Iron(II) phthalocyanine loaded and as1411 aptamer targeting nanoparticles: A nanocomplex for dual modal imaging and photothermal therapy of breast cancer</a>	Purpose: A multi-functional nanoplatform with diagnostic imaging and targeted treatment functions has aroused much interest in the nanomedical research
October 16, 2020	<a href="#">pH-responsive Ag2S nanodots loaded with heat shock protein 70 inhibitor for photoacoustic imaging-guided photothermal cancer therapy</a>	Heat-treated cancer cells have thermo-resistance due to the up-regulated levels of heat shock proteins (HSP) resulting in low therapeutic efficiency a
October 16, 2020	<a href="#">Photoacoustic imaging for non invasive examination of the healthy temporal artery – systematic evaluation of visual function in healthy subjects</a>	Purpose: Photoacoustic (PA) imaging has the potential to become a non-invasive diagnostic tool for giant cell arteritis, as shown in pilot experiments
October 16, 2020	<a href="#">Dual-modal magnetic resonance and photoacoustic tracking and outcome of transplanted tendon stem cells in the rat rotator cuff injury model</a>	Stem cells have been used to promote the repair of rotator cuff injury, but their fate after transplantation is not clear.
October 16, 2020	<a href="#">Reduction Triggered In Situ Polymerization in Living Mice</a>	"Smart" biomaterials that are responsive to physiological or biochemical stimuli have found many biomedical applications for tissue engineering, thera
October 16, 2020	<a href="#">Platelet membrane-functionalized nanoparticles with improved targeting ability and lower hemorrhagic risk for thrombolysis therapy</a>	Intravenous injection of thrombolytic drugs is the most effective strategy for the treatment of thrombotic diseases.
October 01, 2020	<a href="#">Albumin-constrained large-scale synthesis of renal clearable ferrous sulfide quantum dots for T1-Weighted MR imaging and phototheranostics of tumors</a>	Ultrasml-sized iron-based nanoparticles are showing increasing potentials to be alternatives as T1-weighted magnetic resonance imaging (MRI) kontras
September 09, 2020	<a href="#">Photoacoustic imaging biomarkers for monitoring biophysical changes during nanobubble-mediated radiation treatment</a>	The development of novel anticancer therapies warrants the parallel development of biomarkers that can quantify their effectiveness.
September 09, 2020	<a href="#">In vivo photoacoustic guidance of stem cell injection and delivery for regenerative spinal cord therapies</a>	Significance: Stem cell therapies are of interest for treating a variety of neurodegenerative diseases and injuries of the spinal cord.
September 09, 2020	<a href="#">The novel DPP-BDT nanoparticles as efficient photoacoustic imaging and positron emission tomography agents in living mice</a>	Background: Molecular imaging is of great benefit to early disease diagnosis and timely treatment.
September 09, 2020	<a href="#">Enhanced optical imaging properties of lipid nanocapsules as vehicles for fluorescent conjugated polymers</a>	Conjugated polymer nanoparticles (CPNs) have emerged as highly photostable probes for optical and photoacoustic imaging.
September 09, 2020	<a href="#">Real-Time Noninvasive Bioluminescence, Ultrasound and Photoacoustic Imaging in NFκB-RE-Luc Transgenic Mice Reveal Glia Maturation Factor-Mediated Immediate and Sustained Spatio-Temporal Activation of NFκB Signaling Post-Traumatic Brain Injury in a Gender-</a>	Neurotrauma especially traumatic brain injury (TBI) is the leading cause of death and disability worldwide.
July 01, 2020	<a href="#">Early cerebrovascular and long-term neurological modifications ensue following juvenile mild traumatic brain injury in male mice</a>	Clinical evidence suggests that a mild traumatic brain injury occurring at a juvenile age (jmTBI) may be sufficient to elicit pathophysiological modif
June 01, 2020	<a href="#">Gambogic acid augments black phosphorus quantum dots (BPQDs)-based synergistic chemo-photothermal therapy through downregulating heat shock protein expression</a>	In an attempt to attain synergistic therapeutic benefits and address various intrinsic limitations of the highly efficient black phosphorus quantum do

June 01, 2020	<a href="#">Photoacoustic imaging for three-dimensional visualization and delineation of basal cell carcinoma in patients</a>	Background: Photoacoustic (PA) imaging is an emerging non-invasive biomedical imaging modality that could potentially be used to determine the borders
June 01, 2020	<a href="#">Prussian blue nanocubes as a multimodal contrast agent for image-guided stem cell therapy of the spinal cord</a>	Translation of stem cell therapies to treat injuries and diseases of the spinal cord is hindered by lack of real-time monitoring techniques to guide r
June 01, 2020	<a href="#">Monocyte mimics improve mesenchymal stem cell-derived extracellular vesicle homing in a mouse MI/RI model</a>	Stem cell-derived extracellular vesicles (EVs) have been demonstrated to be effective in heart repair and regeneration post infarction.
May 14, 2020	<a href="#">Nanostructural Control Enables Optimized Photoacoustic–Fluorescence–Magnetic Resonance Multimodal Imaging and Photothermal Therapy of Brain Tumor</a>	The performance of current multimodal imaging contrast agents is often constrained by the tunability of nanomaterial structural design.
May 01, 2020	<a href="#">Design of Light/ROS Cascade-Responsive Tumor-Recognizing Nanotheranostics for Spatiotemporally Controlled Drug Release in Locoregional Photo-Chemotherapy</a>	Carrier-free nanotheranostics with high drug loading and no carrier-related toxicity are highly promising cancer therapy agents.
May 01, 2020	<a href="#">Biogenic nanobubbles for effective oxygen delivery and enhanced photodynamic therapy of cancer</a>	Tumor hypoxia is believed to be a factor limiting successful outcomes of oxygen-consuming cancer therapy, thereby reducing patient survival.
May 01, 2020	<a href="#">Co-delivery of Cu(I) chelator and chemotherapeutics as a new strategy for tumor theranostic</a>	Chelating Cu from tumors has been verified as an effective and promising strategy for cancer therapy through antiangiogenesis.
May 01, 2020	<a href="#">Melanin-instructed biomimetic synthesis of copper sulfide for cancer phototheranostics</a>	Biomimetic synthesis is a promising strategy for the preparation of nanotheranostics with excellent biocompatibility.
May 01, 2020	<a href="#">Biodegradable theranostic nanoplateforms of albumin-biomimetic nanocomposites modified hollow mesoporous organosilica for photoacoustic imaging guided tumor synergistic therapy</a>	Benefit from the integration of therapeutic and diagnostic functions, theranostic nanoplateforms have attracted widespread attention in preclinical res
May 01, 2020	<a href="#">Fluence-matching technique using photoacoustic radiofrequency spectra for improving estimates of oxygen saturation</a>	Photoacoustic (PA) signals encode information about the optical absorption and spatial distribution of absorbing chromophores as well as the light dis
April 01, 2020	<a href="#">Rod-based urchin-like hollow microspheres of Bi2S3: Facile synthesis, photo-controlled drug release for photoacoustic imaging and chemo-photothermal therapy of tumor ablation</a>	Hollow nanostructures have been evoked considerable attention owing to their intriguing hollow interior for important and potential applications in dr
April 01, 2020	<a href="#">Janus <math>\gamma</math>-Fe2O3/SiO2-based nanotheranostics for dual-modal imaging and enhanced synergistic cancer starvation/chemodynamic therapy</a>	Multimodal cancer synergistic therapy exhibited remarkable advantages over monotherapy in producing an improved therapeutic efficacy.
April 01, 2020	<a href="#">TRAIL-expressing cell membrane nanovesicles as an anti-inflammatory platform for rheumatoid arthritis therapy</a>	Rheumatoid arthritis (RA) is one of the most common chronic autoimmune diseases.
April 01, 2020	<a href="#">Less is more: Silver-AIE core@shell nanoparticles for multimodality cancer imaging and synergistic therapy</a>	Nanomaterials with integrated multiple imaging and therapeutic modalities possess great potentials in accurate cancer diagnostics and enhanced therape



April 01, 2020	<a href="#">3D printed core-shell hydrogel fiber scaffolds with NIR-triggered drug release for localized therapy of breast cancer</a>	Localized therapy using hydrogels-based drug delivery system (DDS) is a promising strategy for the treatment of diseases such as cancer in superficial
April 01, 2020	<a href="#">Scalable dextran-polypyrrole nano-assemblies with photothermal/photoacoustic dual capabilities and enhanced biocompatibility</a>	Polypyrroles have shown great potential in photoacoustic imaging and photothermal therapy owing to its excellent photothermal conversion capabilities.
April 01, 2020	<a href="#">Spectral Signatures in the Different Layers of the Human Eyelid by Photoacoustic Imaging</a>	Background and Objectives: The eyelids are susceptible to a number of skin cancers, which are challenging to excise radically without sacrificing exce
March 31, 2020	<a href="#">Novel Multifunctional Nanoagent for Visual Chemo/Photothermal Therapy of Metastatic Lymph Nodes via Lymphatic Delivery</a>	Breast cancer is one of the major diseases that threaten women's health.
March 31, 2020	<a href="#">Long Circulating Drug Dye Based Micelles with Ultrahigh pH Sensitivity for Deep Tumor Penetration and Superior Chemo-Photothermal Therapy</a>	Nanocarriers for chemo-photothermal therapy suffer from insufficient retention at the tumor site and poor penetration into tumor parenchyma.
March 30, 2020	<a href="#">Biologically Responsive Plasmonic Assemblies for Second Near-Infrared Window Photoacoustic Imaging-Guided Concurrent Chemo-Immunotherapy</a>	We developed dual biologically responsive nanogapped gold nanoparticle vesicles loaded with immune inhibitor and carrying an anticancer polymeric prod
March 01, 2020	<a href="#">Cathodic protected Mn<sup>2+</sup> by Na<sub>2</sub>WO<sub>3</sub> nanorods for stable magnetic resonance imaging-guided tumor photothermal therapy</a>	The stability and safety of magnetic resonance imaging (MRI) contrast agents (CAs) are crucial for accurate diagnosis and real-time monitor of tumor d
March 01, 2020	<a href="#">Bimetallic nanodots for tri-modal CT/MRI/PA imaging and hypoxia-resistant thermoradiotherapy in the NIR-II biological windows</a>	Hypoxic tumor microenvironment leads to resistance or failure of radiotherapy (RT).
March 01, 2020	<a href="#">Biodegradable CoS<sub>2</sub> nanoclusters for photothermal-enhanced chemodynamic therapy</a>	Retaining in tumors for cancer diagnosis/treatment with sequential elimination from body is crucial to the clinical translation of inorganic medicamen
March 01, 2020	<a href="#">Light-activated oxygen self-supplied starving therapy in near-infrared (NIR) window and adjuvant hyperthermia-induced tumor ablation with an augmented sensitivity</a>	Glucose oxidase (GOx)-mediated starvation circumvents the energy supply for tumor growth, which has been proved as a potent tumor treatment modality.
February 01, 2020	<a href="#">Photomagnetic Prussian blue nanocubes: Synthesis, characterization, and biomedical applications</a>	Nanoparticles play an important role in biomedicine.
February 01, 2020	<a href="#">Dual-stimuli responsive nanotheranostics for mild hyperthermia enhanced inhibition of Wnt/<math>\beta</math>-catenin signaling</a>	Wnt/ $\beta$ -catenin signaling cascade is highly associated with tumorigenesis and progression of various cancers.
January 30, 2020	<a href="#">Interstitial diffuse optical probe with spectral fitting to measure dynamic tumor hypoxia</a>	Understanding the dynamic nature of tumor hypoxia is vital for cancer therapy.
January 01, 2020	<a href="#">A Mitochondria Driven Metabolic Sensing Nanosystem for Oxygen Availability and Energy Blockade of Cancer</a>	A mitochondrial targeting and adenosine triphosphate (ATP) responsive nanosystem is designed and constructed to interfere with mitochondrial respirati

January 01, 2020	<a href="#">On-demand drug release nanoplatform based on fluorinated aza-BODIPY for imaging-guided chemo-phototherapy</a>	Intelligent drug delivery systems (DDS), integrating with multi-modal imaging guidance and controlled drug release, have practical significance in enh
January 01, 2020	<a href="#">Pickering Bubbles as Dual-Modality Ultrasound and Photoacoustic Contrast Agents</a>	Microbubbles (MBs) stabilized by particle surfactants (i.e., Pickering bubbles) have better thermodynamic stability compared to MBs stabilized by smal
January 01, 2020	<a href="#">Glucose Oxidase-Instructed Traceable Self-Oxygenation/Hyperthermia Dually Enhanced Cancer Starvation Therapy</a>	Cancer theranostics based on glucose oxidase (GOx)-induced starvation therapy has got more and more attention in cancer management.
January 01, 2020	<a href="#">Hydrogen-Peroxide-Responsive Protein Biomimetic Nanoparticles for Photothermal-Photodynamic Combination Therapy of Melanoma</a>	Background and Objectives: Recently, there has been a rapid increase in the incidences of melanoma, which represents a serious threat to human health.
January 01, 2020	<a href="#">Non-Invasive Photoacoustic Imaging of In Vivo Mice with Erythrocyte Derived Optical Nanoparticles to Detect CAD/MI</a>	Coronary artery disease (CAD) causes mortality and morbidity worldwide.
January 01, 2020	<a href="#">Coordination-induced exfoliation to monolayer Bi-anchored MnB 2 nanosheets for multimodal imaging-guided photothermal therapy of cancer</a>	Background: Rapid advance in biomedicine has recently vitalized the development of multifunctional two-dimensional (2D) nanomaterials for cancer thera
January 01, 2020	<a href="#">Magneto-plasmonic nanostars for image-guided and NIR-triggered drug delivery</a>	Smart multifunctional nanoparticles with magnetic and plasmonic properties assembled on a single nanoplatform are promising for various biomedical app
January 01, 2020	<a href="#">Magnetic targeted near-infrared II PA/MR imaging guided photothermal therapy to trigger cancer immunotherapy</a>	Rationale: Photothermal therapy (PTT) alone is easy to cause cancer recurrence and fail to completely resist metastasis, yet recurrence and metastasis
January 01, 2020	<a href="#">TME-activatable theranostic nanoplatform with ATP burning capability for tumor sensitization and synergistic therapy</a>	Adenosine triphosphate (ATP), as a key substance for regulating tumor progression in the tumor microenvironemnt (TME), is an emerging target for tumor
January 01, 2020	<a href="#">Biodegradable rare earth fluorochloride nanocrystals for phototheranostics</a>	Rare earth (RE) doped inorganic nanocrystals have been demonstrated as efficient contrast agents for deep tissue shortwave-infrared (SWIR) imaging wit
January 01, 2020	<a href="#">Biodegradable Bi 2 O 2 Se Quantum Dots for Photoacoustic Imaging Guided Cancer Photothermal Therapy</a>	As new 2D layered nanomaterials, Bi2O2Se nanoplates have unique semiconducting properties that can benefit biomedical applications.
January 01, 2020	<a href="#">Multifunctional Nanoparticles for Multimodal Imaging-Guided Low-Intensity Focused Ultrasound/Immunosynergistic Retinoblastoma Therapy</a>	Retinoblastoma (RB) is prone to delayed diagnosis or treatment and has an increased likelihood of metastasizing.
January 01, 2020	<a href="#">Transcranial Photoacoustic Detection of Blood-Brain Barrier Disruption Following Focused Ultrasound-Mediated Nanoparticle Delivery</a>	Purpose: Blood-brain barrier disruption (BBBD) is of interest for treating neurodegenerative diseases and tumors by enhancing drug delivery.
January 01, 2020	<a href="#">In vivo photoacoustic imaging dynamically monitors the structural and functional changes of ischemic stroke at a very early stage</a>	Ischemic stroke (IS) is one of the leading causes of death and accounts for 85% of stroke cases.

January 01, 2020	<a href="#">Polydopamine-doped virus-like structured nanoparticles for photoacoustic imaging guided synergistic chemo-/photothermal therapy</a>	The therapeutic diagnosis effect of cancer commonly depends on the cellular uptake efficiency of nanomaterials.
January 01, 2020	<a href="#">Unique spectral signature of human cutaneous squamous cell carcinoma by photoacoustic imaging</a>	Cutaneous squamous cell carcinoma (cSCC) is a common skin cancer with metastatic potential.
January 01, 2020	<a href="#">Targeted nanobubbles carrying indocyanine green for ultrasound, photoacoustic and fluorescence imaging of prostate cancer</a>	Objective: To construct prostate-specific membrane antigen (PSMA)-targeting, indocyanine green (ICG)-loaded nanobubbles (NBs) for multimodal (ultrasou
January 01, 2020	<a href="#">Light-activated gold nanorod vesicles with NIR-II fluorescence and photoacoustic imaging performances for cancer theranostics</a>	Fluorescence (FL) and photoacoustic (PA) imaging in the second near infrared window (NIR-II FL and NIR-II PA) hold great promise for biomedical applic
January 01, 2020	<a href="#">Reactive Oxygen Species Scavenging Scaffold with Rapamycin for Treatment of Intervertebral Disk Degeneration</a>	The chronic inflammatory microenvironment is characterized by the elevated level of reactive oxygen species (ROS).
January 01, 2020	<a href="#">Optimizing the Geometry of Photoacoustically Active Gold Nanoparticles for Biomedical Imaging</a>	Photoacoustics is an upcoming modality for biomedical imaging, which promises minimal invasiveness at high penetration depths of several centimeters.
January 01, 2020	<a href="#">Molecular Engineered Squaraine Nanoprobe for NIR-II/Photoacoustic Imaging and Photothermal Therapy of Metastatic Breast Cancer</a>	Various squaraine dyes have been developed for biological imaging.
January 01, 2020	<a href="#">Targeted beta therapy of prostate cancer with <sup>177</sup>Lu-labelled Miltuximab® antibody against glypican-1 (GPC-1)</a>	Purpose: Chimeric antibody Miltuximab®, a human IgG1 engineered from the parent antibody MIL-38, is in clinical development for solid tumour therapy.
January 01, 2020	<a href="#">Tumor Microenvironment Adaptable Nanoplatform for O<sub>2</sub> Self-Sufficient Chemo/Photodynamic Combination Therapy</a>	Malignant proliferation of tumor cells induces abnormal tissue microenvironments, leading to therapeutic resistance and poor therapeutic outcome.
January 01, 2020	<a href="#">Gold Nanoframeworks with Mesopores for Raman–Photoacoustic Imaging and Photo Chemo Tumor Therapy in the Second Near-Infrared Biowindow</a>	Gold-based nanostructures with tunable wavelength of localized surface plasmon resonance (LSPR) in the second near-infrared (NIR-II) biowindow receive
January 01, 2020	<a href="#">“All-in-One” Silver Nanoprism Platform for Targeted Tumor Theranostics</a>	Designing a multifunctional theranostic nanoplat- form with optional therapeutic strategies is highly desirable to select the most suitable therapeuti
January 01, 2020	<a href="#">NIR/ROS Responsive Black Phosphorus QD Vesicles as Immuno-Adjuvant Carrier for Specific Cancer Photodynamic Immunotherapy</a>	2D black phosphorus (BP) nanosheets and BP quantum dots (BPQD), as two main material styles of BP, are widely used in the biomedical filed.
January 01, 2020	<a href="#">Photoacoustic Imaging Quantifies Drug Release from Nanocarriers via Redox Chemistry of Dye Labeled Cargo</a>	We report a new approach to monitor drug release from nanocarriers via a paclitaxel–methylene blue conjugate (PTX-MB) with redox activity.
January 01, 2020	<a href="#">Conjugation of a Scintillator Complex and Gold Nanorods for Dual-Modal Image-Guided Photothermal and X-ray-Induced Photodynamic Therapy of Tumors</a>	Light-mediated therapy has many unique merits but monotherapy strategies rarely completely inhibit tumor growth because resistance often develops.

January 01, 2020	<a href="#">Chemiluminescence resonance energy transfer-based nanoparticles for quantum yield-enhanced cancer phototheranostics</a>	Chemiluminescence (CL) has recently gained attention for CL resonance energy transfer (CRET)–mediated photodynamic therapy of cancer.
January 01, 2020	<a href="#">Label-free photoacoustic and ultrasound imaging for murine atherosclerosis characterization</a>	Dual-modality photoacoustic tomography (PAT) and 4D ultrasound (4DUS) imaging have shown promise for cardiovascular applications, but their use in mur
January 01, 2020	<a href="#">GSH Depleted PtCu 3 Nanocages for Chemodynamic Enhanced Sonodynamic Cancer Therapy</a>	The ultrahigh concentration of glutathione (GSH) inside tumors destroys reactive oxygen species (ROS) based therapy, improving the outcome of chemodyn
January 01, 2020	<a href="#">Photoacoustic Imaging-Trackable Magnetic Microswimmers for Pathogenic Bacterial Infection Treatment</a>	Micro/nanorobots have been extensively explored as a tetherless small-scale robotic biodevice to perform minimally invasive interventions in hard-to
January 01, 2020	<a href="#">Multimodal Photoacoustic Imaging Guided Regression of Corneal Neovascularization: A Non Invasive and Safe Strategy</a>	Corneal neovascularization (CNV) is one of the main factors that induce blindness worldwide.
January 01, 2020	<a href="#">Biodegradation-Mediated Enzymatic Activity-Tunable Molybdenum Oxide Nanourchins for Tumor-Specific Cascade Catalytic Therapy</a>	Recent advances in nanomedicine have facilitated the development of potent nanomaterials with intrinsic enzyme-like activities (nanozymes) for cancer
January 01, 2020	<a href="#">Effects of Freezing on Mesenchymal Stem Cells Labeled with Gold Nanoparticles</a>	Stem cell therapies are a promising treatment for many patients suffering from diseases with poor prognosis.
January 01, 2020	<a href="#">Photoacoustic Imaging of Tattoo Inks: Phantom and Clinical Evaluation</a>	Photoacoustic imaging (PAI) is a novel hybrid imaging modality that provides excellent optical contrast with the spatial resolution of ultrasound in v
January 01, 2020	<a href="#">Radiosensitive core/satellite ternary heteronanostructure for multimodal imaging-guided synergistic cancer radiotherapy</a>	Developing safe, effective and targeting radiosensitizers with clear action mechanisms to achieve synergistic localized cancer treatment is an importa
January 01, 2020	<a href="#">Programmable NIR II Photothermal Enhanced Starvation Primed Chemodynamic Therapy using Glucose Oxidase Functionalized Ancient Pigment Nanosheets</a>	Chemodynamic therapy (CDT) has attracted considerable attention recently, but the poor reaction kinetics restrict its practical utility in clinic.
January 01, 2020	<a href="#">Ultra - small Pyropheophorbide - a Nanodots for Near - infrared Fluorescence/Photoacoustic Imaging-guided Photodynamic Therapy</a>	Rationale: Nanoparticles (NPs) that are rapidly eliminated from the body offer great potential in clinical test.
January 01, 2020	<a href="#">Ultrasound-Switchable Nanozyme Augments Sonodynamic Therapy against Multidrug-Resistant Bacterial Infection</a>	Ultrasound (US)-driven sonodynamic therapy (SDT) has demonstrated wide application prospects in the eradication of deep-seated bacterial infections du
January 01, 2020	<a href="#">Fluorinated Chitosan To Enhance Transmucosal Delivery of Sonosensitizer-Conjugated Catalase for Sonodynamic Bladder Cancer Treatment Post-intravesical Instillation</a>	Sonodynamic therapy (SDT) is a noninvasive ultrasound-triggered therapeutic strategy for site-specific treatment of tumors with great depth penetratio
January 01, 2020	<a href="#">Tumor-Specific Endogenous Fe II -Activated, MRI-Guided Self-Targeting Gadolinium-Coordinated Theranostic Nanoplatforms for Amplification of ROS and Enhanced Chemodynamic Chemotherapy</a>	Low drug payload and lack of tumor-targeting for chemodynamic therapy (CDT) result in an insufficient reactive oxygen species (ROS) generation, which

January 01, 2020	<a href="#">Inhibited metastasis and amplified chemotherapeutic effects by epigene-transfection based on a tumor-targeting nanoparticle</a>	Purpose: Tumor metastasis and drug resistance have always been vital aspects to cancer mortality and prognosis.
January 01, 2020	<a href="#">Near-Infrared Light-Responsive Nitric Oxide Delivery Platform for Enhanced Radioimmunotherapy</a>	Radiotherapy (RT) is a widely used way for cancer treatment.
January 01, 2020	<a href="#">Molecular imaging of advanced atherosclerotic plaques with folate receptor-targeted 2D nanoprobes</a>	Vulnerable atherosclerotic plaques are responsible for most cardiovascular diseases (CVDs).
January 01, 2020	<a href="#">Carbon-coated FeCo nanoparticles as sensitive magnetic-particle-imaging tracers with photothermal and magnetothermal properties</a>	The low magnetic saturation of iron oxide nanoparticles, which are developed primarily as contrast agents for magnetic resonance imaging, limits the s
January 01, 2020	<a href="#">Multimodal theranostics augmented by transmembrane polymer-sealed nano-enzymatic porous MoS2 nanoflowers</a>	Developing an all-in-one multimodal theranostic platform that can synergistically integrate sensitive photoacoustic (PA) imaging, enhanced phototherma
January 01, 2020	<a href="#">Evaluation of ductal carcinoma in situ grade via triple-modal molecular imaging of B7-H3 expression</a>	Ductal carcinoma in situ (DCIS) will account for 62,930 cases of breast cancer in 2019.
January 01, 2020	<a href="#">PEGylated-folic acid-modified black phosphorus quantum dots as near-infrared agents for dual-modality imaging-guided selective cancer cell destruction</a>	Biological systems have high transparence to 700–1100-nm near-infrared (NIR) light.
December 24, 2019	<a href="#">Spectral photoacoustic imaging to estimate in vivo placental oxygenation during preeclampsia</a>	Preeclampsia is a pregnancy-related hypertensive disorder accounting for 14% of global maternal deaths annually.
December 01, 2019	<a href="#">Dynamic photoacoustic imaging of neurovascular coupling in salivary glands</a>	The purpose of this study was to apply photoacoustic imaging (PAI), a relatively new imaging method, to non-invasively map neurovascular dynamics in s
November 01, 2019	<a href="#">Photothermal-pH-hypoxia responsive multifunctional nanoplatform for cancer photo-chemo therapy with negligible skin phototoxicity</a>	Highly specific and effective cancer phototherapy remains as a great challenge.
November 01, 2019	<a href="#">Laser-triggered polymeric lipoproteins for precision tumor penetrating theranostics</a>	Natural particles ranging from various cell membranes to nascent proteins are highly optimized for their specific functions in vivo and possess featur
November 01, 2019	<a href="#">Effects of gold nanoprism-assisted human PD-L1 siRNA on both gene down-regulation and photothermal therapy on lung cancer</a>	Gold nanoprisms (GNPs) have been broadly studied for the potential applications in both imaging and treatment on tumors due to their special character
October 01, 2019	<a href="#">Magnetic-responsive and targeted cancer nanotheranostics by PA/MR bimodal imaging-guided photothermally triggered immunotherapy</a>	While theranostic nanoparticle (TNP)-based photothermal therapy (PTT) exhibits prominent promise for cancer therapy, metastatic cancers remain one of
October 01, 2019	<a href="#">Feasibility of photoacoustic imaging for the non-invasive quality management of stored blood bags</a>	Background and Objectives: During the in vitro storage of red blood cells (RBCs), unfavourable changes (storage lesions) cause a rapid consumption of
September 01, 2019	<a href="#">Inhibition of breast cancer proliferation and metastasis by strengthening host immunity with a prolonged oxygen-generating phototherapy hydrogel</a>	Hypoxia is a potent tumor microenvironmental (TME) factor promoting immunosuppression and metastatic progression.

June 01, 2019	<a href="#">A near-infrared turn-on probe for in vivo chemoselective photoacoustic detection of fluoride ion</a>	The detection of fluoride ion (F <sup>-</sup> ) in living subjects is of value for healthcare and environmental fields.
March 01, 2019	<a href="#">Multifunctional nanoplatform for photoacoustic imaging-guided combined therapy enhanced by CO induced ferroptosis</a>	A multifunctional CO/thermo/chemotherapy nanoplatform is here reported, which is composed of mesoporous carbon nanoparticles (MCN) as near infrared (N
February 01, 2019	<a href="#">Erythrocyte-cancer hybrid membrane-camouflaged melanin nanoparticles for enhancing photothermal therapy efficacy in tumors</a>	Cell membrane coating has emerged as an intriguing biomimetic strategy to endow nanomaterials with functions and properties inherent to source cells f
January 01, 2019	<a href="#">Performance Characteristics of Photoacoustic Imaging Probes with Varying Frequencies and Light-delivery Schemes</a>	Photoacoustic imaging (PAI) is an emerging biomedical imaging technique that utilizes a combination of light and ultrasound to detect photoabsorbers e
January 01, 2019	<a href="#">Fluorinated Polyethylenimine to Enable Transmucosal Delivery of Photosensitizer Conjugated Catalase for Photodynamic Therapy of Orthotopic Bladder Tumors Postintravesical Instillation</a>	Photodynamic therapy (PDT) by insertion of an optical fiber into the bladder cavity has been applied in the clinic for noninvasive treatment of bladde
January 01, 2019	<a href="#">Assessment of Age-related Oxygenation Changes in Calf Skeletal Muscle by Photoacoustic Imaging: A Potential Tool for Peripheral Arterial Disease</a>	Peripheral artery disease is often asymptomatic, and various imaging and nonimaging techniques have been used for assessment and monitoring treatments
January 01, 2019	<a href="#">Self-Assembled Polysaccharide–Diphenylalanine/Au Nanospheres for Photothermal Therapy and Photoacoustic Imaging</a>	Gold-based nanomaterials have attracted extensive interest for potential application in photothermal therapy (PTT) owing to their distinctive properti
January 01, 2019	<a href="#">Photoacoustic imaging of cancer cells with glycol-chitosan-coated gold nanoparticles as contrast agents</a>	Utility of glycol-chitosan-coated gold nanoparticles (GC-AuNPs) as a photoacoustic contrast agent for cancer cell imaging was demonstrated.
January 01, 2019	<a href="#">Activatable Small Molecule Photoacoustic Probes that Cross the Blood–Brain Barrier for Visualization of Copper(II) in Mice with Alzheimer's Disease</a>	Copper enrichment in the brain is highly related to Alzheimer's disease (AD) pathogenesis, but in vivo tracing of Cu <sup>2+</sup> in the brain by imaging techniques
January 01, 2019	<a href="#">Tumor Microenvironment Responsive Shape-Reversal Self-Targeting Virus-Inspired Nanodrug for Imaging-Guided Near-Infrared-II Photothermal Chemotherapy</a>	Tumor microenvironment responsive multimodal synergistic theranostic strategies can significantly improve the therapeutic efficacy while avoiding seve
January 01, 2019	<a href="#">Improved Healing of Diabetic Foot Ulcer upon Oxygenation Therapeutics through Oxygen-Loading Nanoperfluorocarbon Triggered by Radial Extracorporeal Shock Wave</a>	Diabetic foot ulcers (DFUs), the most serious complication of diabetes mellitus, can induce high morbidity, the need to amputate lower extremities, an
January 01, 2019	<a href="#">1300 nm absorption two-acceptor semiconducting polymer nanoparticles for NIR-II photoacoustic imaging system guided NIR-II photothermal therapy</a>	1300 nm absorption SPNs were designed to realize in vivo NIR-II PTT treatment guided by commercial NIR-II PAI systems.
January 01, 2019	<a href="#">Noninvasive Photoacoustic Imaging of Dendritic Cell Stimulated with Tumor Cell-Derived Exosome</a>	Purpose: The tools to trigger dendritic cell (DC) activation and to verify DC migration in vivo are important for directing DC immunotherapy toward su
January 01, 2019	<a href="#">SDF-1-loaded PLGA nanoparticles for the targeted photoacoustic imaging and photothermal therapy of metastatic lymph nodes in tongue squamous cell carcinoma</a>	The combination of photothermal therapy and targeted chemotherapy can produce much greater cytotoxicity than chemotherapy.

January 01, 2019	<a href="#">Mussel-inspired functionalization of semiconducting polymer nanoparticles for amplified photoacoustic imaging and photothermal therapy</a>	A versatile and straightforward strategy for the encapsulation of semiconducting polymer nanoparticles (SPNs) using biocompatible polydopamine (PDA) a
January 01, 2019	<a href="#">Porphyrin-palladium hydride MOF nanoparticles for tumor-targeting photoacoustic imaging-guided hydrogenothermal cancer therapy</a>	Hydrogen gas, which is an important energy resource, was recently discovered to have high advantage in the treatment of many diseases, but the current
January 01, 2019	<a href="#">Development of a Human Photoacoustic Imaging Reporter Gene Using the Clinical Dye Indocyanine Green</a>	Purpose: To develop a photoacoustic imaging (PAI) reporter gene that has high translational potential.
January 01, 2019	<a href="#">Photoacoustic and Ultrasound Dual-Mode Imaging via Functionalization of Recombinant Protein-Stabilized Microbubbles with Methylene Blue</a>	Contrast-enhanced photoacoustics and ultrasonics are complementary methods of bioimaging.
January 01, 2019	<a href="#">New Strategy for Specific Eradication of Implant-Related Infections Based on Special and Selective Degradability of Rhenium Trioxide Nanocubes</a>	The greatest bottleneck for photothermal antibacterial therapy could be the difficulty in heating the infection site directly and specifically to evade
January 01, 2019	<a href="#">Hybrid organosilicon/polyol phantom for photoacoustic imaging</a>	The rapid development of hardware and software for photoacoustic technologies is urging the establishment of dedicated tools for standardization and p
January 01, 2019	<a href="#">Fluorescent Silicon Nanorods-Based Nanotheranostic Agents for Multimodal Imaging-Guided Photothermal Therapy</a>	The utilization of diagnosis to guide/aid therapy procedures has shown great prospects in the era of personalized medicine along with the recognition
January 01, 2019	<a href="#">Erythrocytic bioactivation of nitrite and its potentiation by far-red light</a>	Background: Nitrite is reduced by heme-proteins and molybdenum-containing enzymes to form the important signaling molecule nitric oxide (NO), mediatin
January 01, 2019	<a href="#">Nanozymes-Engineered Metal-Organic Frameworks for Catalytic Cascades-Enhanced Synergistic Cancer Therapy</a>	The efficiency of chemical intercommunication between enzymes in natural networks can be significantly enhanced by the organized catalytic cascades.
January 01, 2019	<a href="#">In Vivo Photoacoustic Tracking of Mesenchymal Stem Cell Viability</a>	Adult stem cell therapy has demonstrated improved outcomes for treating cardiovascular diseases in preclinical trials.
January 01, 2019	<a href="#">Photoacoustic simulations of microvascular bleeding: spectral analysis and its application for monitoring vascular-targeted treatments</a>	Solid tumors are typically supplied nutrients by a network of irregular blood vessels.
January 01, 2019	<a href="#">pH/NIR-responsive semiconducting polymer nanoparticles for highly effective photoacoustic image guided chemo-photothermal synergistic therapy</a>	ABSTRAC T Multifunctional drug delivery nanoplatfrom (PDPP3T@PSNiAA NPs) based on NIR absorbing semiconducting polymer nanoparticles for pH/NIR light-
January 01, 2019	<a href="#">Hollow Cu<sub>2</sub>Se Nanozymes for Tumor Photothermal-Catalytic Therapy</a>	Tumor microenvironment (TME)-mediated cancer therapy, such as chemodynamic therapy (CDT) based on Fenton reaction, has attracted extensive attention i
January 01, 2019	<a href="#">Differential Diagnosis and Precision Therapy of Two Typical Malignant Cutaneous Tumors Leveraging Their Tumor Microenvironment: A Photomedicine Strategy</a>	Elevated hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ) in biological tissues is generally recognized to be relevant to the carcinogenesis process that regulates the prolif

January 01, 2019	<a href="#">Polyethyleneimine-assisted one-pot synthesis of quasi-fractal plasmonic gold nanocomposites as a photothermal theranostic agent</a>	Gold nanoparticles have been thoroughly used in designing thermal ablative therapies and photoacoustic imaging for cancer owing to their unique and tu
January 01, 2019	<a href="#">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</a>	We have successfully fabricated versatile folate-targeted and oxygen/indocyanine green-loaded lipid nanoparticles (FA-OINPs) for dual-mode imaging-gui
January 01, 2019	<a href="#">Platelet-Mimicking Biotaxis Targeting Vasculature-Disrupted Tumors for Cascade Amplification of Hypoxia-Sensitive Therapy</a>	Tumorous vasculature plays key roles in sustaining tumor growth.
January 01, 2019	<a href="#">Photoacoustic imaging of gold nanorods in the brain delivered via microbubble-assisted focused ultrasound: a tool for in vivo molecular neuroimaging</a>	The protective barriers of the CNS present challenges during the treatment and monitoring of diseases.
January 01, 2019	<a href="#">Novel Oxygen-Deficient Zirconia (ZrO<sub>2-x</sub>) for Fluorescence/Photoacoustic Imaging-Guided Photothermal/Photodynamic Therapy for Cancer</a>	Theranostic nanoplatforms that integrate therapy and diagnosis in a single composite have become increasingly attractive in the field of precise and e
January 01, 2019	<a href="#">Oil Core-PEG Shell Nanocarriers for In Vivo MRI Imaging</a>	Oil-in-water emulsions represent a promising carrier for in vivo imaging because of the possibility to convey poorly water-soluble species.
January 01, 2019	<a href="#">Precision Cancer Theranostic Platform by In Situ Polymerization in Perylene Diimide-Hybridized Hollow Mesoporous Organosilica Nanoparticles</a>	Phototheranostics refers to advanced photonics-mediated theranostic methods for cancer and includes imaging-guided photothermal/chemotherapy, photothe
January 01, 2019	<a href="#">Bioinspired lipoproteins-mediated photothermia remodels tumor stroma to improve cancer cell accessibility of second nanoparticles</a>	The tumor stromal microenvironments (TSM) including stromal cells and extracellular matrix (ECM) form an abominable barrier hampering nanoparticles ac
January 01, 2019	<a href="#">Verteporfin-Loaded Lipid Nanoparticles Improve Ovarian Cancer Photodynamic Therapy In Vitro and In Vivo</a>	Advanced ovarian cancer is the most lethal gynecological cancer, with a high rate of chemoresistance and relapse.
January 01, 2019	<a href="#">Oxygenated theranostic nanoplatforms with intracellular agglomeration behavior for improving the treatment efficacy of hypoxic tumors</a>	Hypoxia plays vital roles in the development of tumor resistance against typical anticancer therapies and local reoxygenation has proved effective to
January 01, 2019	<a href="#">Tumor pH Responsive Albumin/Polyaniline Assemblies for Amplified Photoacoustic Imaging and Augmented Photothermal Therapy</a>	Tumor-microenvironment-responsive theranostics have great potential for precision diagnosis and effective treatment of cancer.
January 01, 2019	<a href="#">Central action of rapamycin on early ischemic injury and related cardiac depression following experimental subarachnoid hemorrhage</a>	Early brain injury and related cardiac consequences play a key role in the devastating outcomes after subarachnoid hemorrhage (SAH).
January 01, 2019	<a href="#">Organosilica-Based Hollow Mesoporous Bilirubin Nanoparticles for Antioxidation-Activated Self-Protection and Tumor-Specific Deoxygenation-Driven Synergistic Therapy</a>	A major concern about glucose oxidase (GOx)-mediated cancer starvation therapy is its ability to induce serious oxidative damage to normal tissues thr
January 01, 2019	<a href="#">Hybrid Protein Nano Reactors Enable Simultaneous Increments of Tumor Oxygenation and Iodine 131 Delivery for Enhanced Radionuclide Therapy</a>	It is hard for current radionuclide therapy to render solid tumors desirable therapeutic efficacy owing to insufficient tumor targeted delivery of rad



January 01, 2019	<a href="#">Indocyanine Green–Coated Gold Nanoclusters for Photoacoustic Imaging and Photothermal Therapy</a>	Abstract Traditional oncology treatment modalities are often associated with a poor therapeutic index.
January 01, 2019	<a href="#">Localized Free Radicals Burst Triggered by NIR-II Light for Augmented Low-Temperature Photothermal Therapy</a>	As a novel treatment modality of tumors, hypothermal hyperthermia employed relatively lower temperature (
January 01, 2019	<a href="#">Chlorella-gold nanorods hydrogels generating photosynthesis-derived oxygen and mild heat for the treatment of hypoxic breast cancer</a>	Hypoxic tumors are rarely cured because their low oxygen environment restricts the cytotoxicity of many chemotherapeutics by blocking the production o
January 01, 2019	<a href="#">In Vivo Quantitative Photoacoustic Diagnosis of Gastric and Intestinal Dysfunctions with a Broad pH-Responsive Sensor</a>	Gastrointestinal diseases affect many people in the world and significantly impair life quality and burden the healthcare system.
January 01, 2019	<a href="#">Phase Change Materials Based Nanoparticles for Controlled Hypoxia Modulation and Enhanced Phototherapy</a>	Tumor hypoxia strengthens tumor resistance to different therapies especially oxygen involved strategies, such as photodynamic therapy (PDT).
January 01, 2019	<a href="#">Ordered assemblies of Fe<sub>3</sub>O<sub>4</sub> and a donor-acceptor-type <math>\pi</math>-conjugated polymer in nanoparticles for enhanced photoacoustic and magnetic effects</a>	We report that the ordered structure in the assemblies of iron oxide nanoparticles in conjugated polymer nanoparticles is the key to achieve better pr
January 01, 2019	<a href="#">One-pot growth of triangular SnS nanopyramids for photoacoustic imaging and photothermal ablation of tumors</a>	Recently, metal sulfides have received great attention in biomedical applications due to their fascinating properties.
December 21, 2018	<a href="#">Ratiometric Photoacoustic Nanoprobe for Bioimaging of Cu<sup>2+</sup></a>	Aberrant copper content implicates numerous diseases including Alzheimer's disease and Wilson's disease.
December 17, 2018	<a href="#">Evaluation of renal oxygen saturation using photoacoustic imaging for the early prediction of chronic renal function in a model of ischemia-induced acute kidney injury</a>	PURPOSE: To evaluate the utility of photoacoustic imaging in measuring changes in renal oxygen saturation after ischemia-induced acute kidney injury,
December 16, 2018	<a href="#">Improving Stem Cell Delivery to the Trabecular Meshwork Using Magnetic Nanoparticles</a>	Glaucoma is a major cause of blindness and is frequently associated with elevated intraocular pressure.
December 15, 2018	<a href="#">A Multimodal Molecular Imaging Study Evaluates Pharmacological Alteration of the Tumor Microenvironment to Improve Radiation Response</a>	Hypoxic zones in solid tumors contribute to radioresistance, and pharmacological agents that increase tumor oxygenation prior to radiation, including
December 14, 2018	<a href="#">Intrinsically absorbing photoacoustic and ultrasound contrast agents for cancer therapy and imaging</a>	Nanoparticles are submicrometer in size and are used in a variety of ways in the biomedical field.
December 12, 2018	<a href="#">Chemodrug-Gated Biodegradable Hollow Mesoporous Organosilica Nanotheranostics for Multimodal Imaging-Guided Low-Temperature Photothermal Therapy/Chemotherapy of Cancer</a>	Noninvasive physical treatment with relatively low intensity stimulation and the development of highly efficient anticancer medical strategy are still
December 01, 2018	<a href="#">Photoacoustic imaging for monitoring periodontal health: A first human study</a>	The gold-standard periodontal probe is an aging tool that can detect periodontitis and monitor gingival health but is highly error-prone, does not ful
November 24, 2018	<a href="#">Indocyanine Green labeling for optical and photoacoustic imaging of Mesenchymal Stem Cells after in vivo transplantation</a>	The transplantation of Mesenchymal Stem Cells (MSCs) holds great promise for the treatment of a plethora of human diseases, but new non-invasive proce

October 17, 2018	<a href="#">In vivo photoacoustic difference-spectra imaging of bacteria using photoswitchable chromoproteins</a>	Photoacoustic (PA) imaging offers great promise for deep molecular imaging of optical reporters but has difficulties in imaging multiple molecular pro
October 10, 2018	<a href="#">Self-Supplied Tumor Oxygenation through Separated Liposomal Delivery of H<sub>2</sub>O<sub>2</sub> and Catalase for Enhanced Radio-Immunotherapy of Cancer</a>	The recent years have witnessed the blooming of cancer immunotherapy, as well as their combinational use together with other existing cancer treatment
September 01, 2018	<a href="#">Alternating block copolymer-based nanoparticles as tools to modulate the loading of multiple chemotherapeutics and imaging probes</a>	Cancer therapy often relies on the combined action of different molecules to overcome drug resistance and enhance patient outcome.
September 01, 2018	<a href="#">Biomimetic O<sub>2</sub>-Evolving metal-organic framework nanoplatfrom for highly efficient photodynamic therapy against hypoxic tumor</a>	Improving the supply of O <sub>2</sub> and the circulation lifetime of photosensitizers for photodynamic therapy (PDT) in vivo would be a promising approach to el
September 01, 2018	<a href="#">Laser-activated perfluorocarbon nanodroplets: a new tool for blood brain barrier opening</a>	A major obstacle in the monitoring and treatment of neurological diseases is the blood brain barrier (BBB), a semipermeable barrier that prevents the
July 13, 2018	<a href="#">Photoacoustic Oxygenation Quantification in Patients with Raynaud's: First-in-Human Results</a>	The purpose of this study was to investigate the use of photoacoustic imaging for quantifying fingertip oxygenation as an approach to diagnosing and m
July 01, 2018	<a href="#">Study of Long-Term Biocompatibility and Bio-Safety of Implantable Nanogenerators</a>	Implantable nanogenerator (i-NG) has shown great promises for enabling self-powered implantable medical devices (IMDs).
May 29, 2018	<a href="#">Performances of a Pristine Graphene-Microbubble Hybrid Construct as Dual Imaging Contrast Agent and Assessment of Its Biodistribution by Photoacoustic Imaging</a>	Coupling near-infrared (NIR) nanoscale absorbing materials with microbubbles (MBs) can generate a multifunctional dual imaging contrast agent.
May 14, 2018	<a href="#">A Gold/Silver Hybrid Nanoparticle for Treatment and Photoacoustic Imaging of Bacterial Infection</a>	Ag <sup>+</sup> ions are a well-known antibacterial agent, and Ag nanoparticles act as a reservoir of these Ag <sup>+</sup> ions for targeted therapy of bacterial infections.
May 11, 2018	<a href="#">Impact of Age on Disease Progression and Microenvironment in Oral Cancer</a>	Despite the recognized link between aging and cancer, most preclinical studies in experimental tumor models are conducted with 6- to 8-wk-old rodents.
April 22, 2018	<a href="#">Biomimetic nanoparticles delivered hedgehog pathway inhibitor to modify tumour microenvironment and improved chemotherapy for pancreatic carcinoma</a>	The unique tumour microenvironment (TM) of pancreatic ductal adenocarcinoma (PDA) including highly desmoplastic ECM and low tumour perfusion supports
April 20, 2018	<a href="#">Magnetic resonance and photoacoustic imaging of brain tumor mediated by mesenchymal stem cell labeled with multifunctional nanoparticle introduced via carotid artery injection</a>	OBJECTIVE: To evaluate the feasibility of visualizing bone marrow-derived human mesenchymal stem cells (MSCs) labeled with a gold-coated magnetic reso
April 06, 2018	<a href="#">Radiotherapy-Sensitized Tumor Photothermal Ablation Using <math>\gamma</math>-Polyglutamic Acid Nanogels Loaded with Polypyrrole</a>	Development of versatile nanoscale platforms for cancer diagnosis and therapy is of great importance for applications in translational medicine.

April 02, 2018	<a href="#">Dual-modal photoacoustic and magnetic resonance tracking of tendon stem cells with PLGA/iron oxide microparticles in vitro</a>	Reliable cell tracking is essential to understand the fate of stem cells following implantation, and thus promote the clinical application of stem cel
April 01, 2018	<a href="#">A Yolk-Shell Nanoplatform for Gene-Silencing-Enhanced Photolytic Ablation of Cancer</a>	Noninvasive near infrared (NIR) light responsive therapy is a promising cancer treatment modality; however, some inherent drawbacks of conventional ph
April 01, 2018	<a href="#">The combined therapeutic effects of iodine 131-labeled multifunctional copper sulfide-loaded microspheres in treating breast cancer</a>	Compared to conventional cancer treatment, combination therapy based on well-designed nanoscale platforms may offer an opportunity to eliminate tumors
March 01, 2018	<a href="#">Deep Tumor Penetrating Bioparticulates Inspired Burst Intracellular Drug Release for Precision Chemo-Phototherapy</a>	The relevance of personalized medicine has inspired research for individually concerted diagnosis and therapy.
February 23, 2018	<a href="#">Photoacoustic imaging of lymphatic pumping</a>	The lymphatic system is crucial for maintaining fluid balance in tissues and for immune cell trafficking; however, there are only a few methods for im
February 12, 2018	<a href="#">In vitro photoacoustic spectroscopy of pulsatile blood flow: probing the interrelationship between red blood cell aggregation and oxygen saturation</a>	Assessments of the appropriateness and inappropriateness of behaviors may influence conflict, cohesion, and goal attainment in multinational organizat
February 01, 2018	<a href="#">Biomimetic Copper Sulfide for Chemo-Radiotherapy: Enhanced Uptake and Reduced Efflux of Nanoparticles for Tumor Cells under Ionizing Radiation</a>	Combined chemo-radiotherapy is one of most widely applied treatments for clinical cancer therapy.
January 31, 2018	<a href="#">Design of Phase-Changeable and Injectable Alginate Hydrogel for Imaging-Guided Tumor Hyperthermia and Chemotherapy</a>	The objective of the present study was to construct an alginate (AG)-based phase-changeable and injectable hydrogel for imaging-guided tumor hyperther
January 22, 2018	<a href="#">Preclinical Ultrasound-Guided Photoacoustic Imaging of the Placenta in Normal and Pathologic Pregnancy</a>	Placental oxygenation varies throughout pregnancy.
January 01, 2018	<a href="#">Preoperative measurement of cutaneous melanoma and nevi thickness with photoacoustic imaging</a>	Photoacoustic imaging (PAI) is an emerging biomedical imaging technology, which can potentially be used in the clinic to preoperatively measure melano
January 01, 2018	<a href="#">A catalase-loaded hierarchical zeolite as an implantable nanocapsule for ultrasound-guided oxygen self-sufficient photodynamic therapy against pancreatic cancer</a>	Photodynamic therapy (PDT) is an alternative strategy for treating pancreatic cancer (PC) in clinics.
January 01, 2018	<a href="#">Multi-layered tumor-targeting photothermal-doxorubicin releasing nanotubes eradicate tumors in vivo with negligible systemic toxicity</a>	Multi-layered single-walled carbon nanotubes, termed SWNT@BSA@Au-S-PEG-FA@DOX, which integrate photothermal therapy with small molecule drug delivery,
January 01, 2018	<a href="#">Au-PLGA Hybrid Nanoparticles with Catalase-Mimicking and near-Infrared Photothermal Activities for Photoacoustic Imaging-Guided Cancer Therapy</a>	© 2018 American Chemical Society. Imaging-guided diagnosis and therapy has been highlighted in the area of nanomedicines.
January 01, 2018	<a href="#">An Easy-to-Fabricate Clearable CuS-Superstructure-Based Multifunctional Theranostic Platform for Efficient Imaging Guided Chemo-Photothermal Therapy</a>	Despite drug delivery systems (DDSs) have been receiving ever-increasing attention, development of a simple, effective, sensitive and clearable drug d

January 01, 2018	<a href="#">Design of injectable agar-based composite hydrogel for multi-mode tumor therapy</a>	We designed an injectable hydrogel by dissolving MoS <sub>2</sub> /Bi <sub>2</sub> S <sub>3</sub> -PEG (MBP), doxorubicin (DOX) and agar into water for the concurrent tumor photothermal and
January 01, 2018	<a href="#">Improved photoacoustic-based oxygen saturation estimation with SNR-regularized local fluence correction</a>	As photoacoustic (PA) imaging makes its way into the clinic, accuracy of PA-based metrics becomes increasingly important.
January 01, 2018	<a href="#">Synthesis of Hollow Biom mineralized CaCO<sub>3</sub>-Polydopamine Nanoparticles for Multimodal Imaging-Guided Cancer Photodynamic Therapy with Reduced Skin Photosensitivity</a>	The development of activatable nanoplateforms to simultaneously improve diagnostic and therapeutic performances while reducing side effects is highly a
January 01, 2018	<a href="#">Wulff in a cage gold nanoparticles as contrast agents for computed tomography and photoacoustic imaging</a>	A core-shell nanostructure yields balanced contrast production for both CT and photoacoustics.
January 01, 2018	<a href="#">One-pot synthesis of pH-responsive charge-switchable PEGylated nanoscale coordination polymers for improved cancer therapy</a>	Nanoscale coordination polymers (NCPs) are promising nanomedicine platforms featured with biodegradability and versatile functionalities.
January 01, 2018	<a href="#">Small PLGA nanocapsules Co-encapsulating copper sulfide nanodots and fluorocarbon compound for photoacoustic imaging-guided HIFU synergistic therapy</a>	A nanometer-sized inorganic/organic hybrid enhancement agent is constructed for photoacoustic imaging-guided high intensity focused ultrasound therap
January 01, 2018	<a href="#">Multispectral Photoacoustic Imaging of Tumor Protease Activity with a Gold Nanocage-Based Activatable Probe</a>	Tumor proteases have been recognized as significant regulators in the tumor microenvironment, but the current strategies for in vivo protease imaging
January 01, 2018	<a href="#">Facile fabrication of highly photothermal-effective albumin-assisted gold nanoclusters for treating breast cancer</a>	Gold nanoclusters (AuNCs) have been considered to be a promising candidate for hyperthermia-based anticancer therapy.
January 01, 2018	<a href="#">Photoacoustic imaging of synovial tissue hypoxia in experimental post-traumatic osteoarthritis.</a>	OBJECTIVES: This pilot study aimed to investigate the feasibility of non-invasively assessing synovial tissue hypoxia in vivo using photoacoustic (PA)
January 01, 2018	<a href="#">Biodegradable Hollow Mesoporous Organosilica Nanotheranostics for Mild Hyperthermia-Induced Bubble-Enhanced Oxygen-Sensitized Radiotherapy</a>	Alleviation of tumor hypoxia has been the premise for improving the effectiveness of radiotherapy, which hinges upon the advanced delivery and rapid r
January 01, 2018	<a href="#">Switchable Photoacoustic Intensity of Methylene Blue via Sodium Dodecyl Sulfate Micellization</a>	The interaction between methylene blue (MB) and sodium dodecyl sulfate (SDS) has been widely studied spectroscopically, but details about their intera
January 01, 2018	<a href="#">Photoacoustic imaging of tumour vascular permeability with indocyanine green in a mouse model</a>	Background: We analysed the haemodynamics of indocyanine green (ICG) in mouse organs and tumours and evaluated responses to anti-angiogenic agents in
January 01, 2018	<a href="#">Highly Crystalline Multicolor Carbon Nanodots for Dual-Modal Imaging-Guided Photothermal Therapy of Glioma</a>	Imaging-guided site-specific photothermal therapy (PTT) of glioma and other tumors in central nervous system presents a great challenge for the curren

January 01, 2018	<a href="#">Mesopore-Induced Aggregation of Cobalt Protoporphyrin for Photoacoustic Imaging and Antioxidant Protection of Stem Cells</a>	With the ever accelerating development of functional materials design and fabrication, various nanomaterial based molecular imaging platforms with imp
January 01, 2018	<a href="#">Visualizing the effects of metformin on tumor growth, vascularity, and metabolism in head and neck cancer</a>	© 2018 John Wiley & Sons A/S.
January 01, 2018	<a href="#">Photoacoustic Imaging as an Early Biomarker of Radio Therapeutic Efficacy in Head and Neck Cancer</a>	The negative impact of tumor hypoxia on radiotherapeutic efficacy is well recognized.
January 01, 2018	<a href="#">Copper sulfide nanoparticles as a photothermal switch for TRPV1 signaling to attenuate atherosclerosis</a>	Atherosclerosis is characterized by the accumulation of lipids within the arterial wall.
January 01, 2018	<a href="#">Generation of multiparametric MRI maps by using Gd-labelled-RBCs reveals phenotypes and stages of murine prostate cancer</a>	Prostate Cancer (PCa) is the second most common and fifth cause of cancer-related mortality in males in Western Countries.
January 01, 2018	<a href="#">Octopod PtCu Nanoframe for Dual-Modal Imaging-Guided Synergistic Photothermal Radiotherapy</a>	Heavy atom nanoparticles have high X-ray absorption capacity and near infrared (NIR) photothermal conversion efficiency, which could be used as radio-
January 01, 2018	<a href="#">Sensitization of Hypoxic Tumors to Radiation Therapy Using Ultrasound-Sensitive Oxygen Microbubbles</a>	Purpose: Much of the volume of solid tumors typically exists in a chronically hypoxic microenvironment that has been shown to result in both chemother
January 01, 2018	<a href="#">Prevascularization of dermal substitutes with adipose tissue-derived microvascular fragments enhances early skin grafting</a>	Split-thickness skin grafts (STSG) are still the gold standard for the treatment of most skin defects.
January 01, 2018	<a href="#">Photoacoustic Imaging for Noninvasive Periodontal Probing Depth Measurements</a>	The periodontal probe is the gold standard tool for periodontal examinations, including probing depth measurements, but is limited by systematic and r
January 01, 2018	<a href="#">Degradable rhenium trioxide nanocubes with high localized surface plasmon resonance absorbance like gold for photothermal theranostics</a>	The applications of inorganic theranostic agents in clinical trials are generally limited to their innate non-biodegradability and potential long-term
January 01, 2018	<a href="#">Bacteria-like mesoporous silica-coated gold nanorods for positron emission tomography and photoacoustic imaging-guided chemo-photothermal combined therapy</a>	Mesoporous silica nanoshell (MSN) coating has been demonstrated as a versatile surface modification strategy for various kinds of inorganic functional
January 01, 2018	<a href="#">Selective cancer treatment via photodynamic sensitization of hypoxia-responsive drug delivery</a>	The precise and selective delivery of chemodrugs into tumors represents a critical requirement for anti-cancer therapy.
January 01, 2018	<a href="#">Perfluorooctyl bromide &amp; indocyanine green co-loaded nanoliposomes for enhanced multimodal imaging-guided phototherapy</a>	As a highly biocompatible NIR dye, indocyanine green (ICG) has been widely explored for cancer treatment due to its various energy level transition pa
January 01, 2018	<a href="#">Development and evaluation of a CEACAM6-targeting theranostic nanomedicine for photoacoustic-based diagnosis and chemotherapy of metastatic cancer</a>	Metastasis is the leading cause of cancer-related deaths.
January 01, 2018	<a href="#">2D Ultrathin MXene-Based Drug-Delivery Nanoplatform for Synergistic Photothermal Ablation and Chemotherapy of Cancer</a>	Two-dimensional (2D) MXenes, as a new 2D functional material nanosystem, have been extensively explored for broad applications.

January 01, 2018	<a href="#">Development of Citrate-Based Dual-Imaging Enabled Biodegradable Electroactive Polymers</a>	Increasing occurrences of degenerative diseases, defective tissues, and severe cancers heighten the importance of advanced biomedical treatments, which
January 01, 2018	<a href="#">[ASAP] Gadolinium Metallofullerene-Polypyrrole Nanoparticles for Activatable Dual-Modal Imaging-Guided Photothermal Therapy</a>	Accurate diagnosis of tumor is promising to guide photothermal therapy (PTT) for efficacious tumor ablation with minimal damage to healthy tissues.
January 01, 2018	<a href="#">Photoacoustic imaging of integrin-overexpressing tumors using a novel ICG-based contrast agent in mice</a>	PhotoAcoustic Imaging (PAI) is a biomedical imaging modality currently under evaluation in preclinical and clinical settings.
January 01, 2018	<a href="#">Molecular imaging of tumor photoimmunotherapy: Evidence of photosensitized tumor necrosis and hemodynamic changes</a>	Near-infrared photoimmunotherapy (NIR PIT) employs the photoabsorbing dye IR700 conjugated to antibodies specific for cell surface epidermal growth factor
January 01, 2018	<a href="#">Clinical translation of a novel photoacoustic imaging system for examining the temporal artery</a>	The objective was to provide a clinical setup for photoacoustic imaging (PAI) of the temporal artery in humans and to describe the challenges encountered
January 01, 2018	<a href="#">Dichroism-sensitive photoacoustic computed tomography</a>	Photoacoustic computed tomography (PACT), a fast-developing modality for deep tissue imaging, images the spatial distribution of optical absorption.
January 01, 2018	<a href="#">A laser-activated multifunctional targeted nanoagent for imaging and gene therapy in a mouse xenograft model with retinoblastoma Y79 cells</a>	Retinoblastoma (RB) is the most common intraocular malignancy of childhood that urgently needs early detection and effective therapy methods.
January 01, 2018	<a href="#">Nuclear factor 90 promotes angiogenesis by regulating HIF-1<math>\alpha</math>/VEGF-A expression through the PI3K/Akt signaling pathway in human cervical cancer article</a>	© 2018 The Author(s).
December 01, 2017	<a href="#">Photoacoustic imaging for in vivo quantification of placental oxygenation in mice</a>	Accurate analysis of placental and fetal oxygenation is critical during pregnancy.
November 24, 2017	<a href="#">NH<sub>4</sub>HCO<sub>3</sub> gas-generating liposomal nanoparticle for photoacoustic imaging in breast cancer</a>	In this study, we have developed a biodegradable nanomaterial for photoacoustic imaging (PAI).
July 01, 2017	<a href="#">Drug "Pent-Up" in Hollow Magnetic Prussian Blue Nanoparticles for NIR-Induced Chemo-Photothermal Tumor Therapy with Trimodal Imaging</a>	The study reports a biocompatible smart drug delivery system based on a doxorubicin (DOX) blending phase-change material of 1-pentadecanol loaded hollow
June 27, 2017	<a href="#">Fibrin-Targeted and H<sub>2</sub>O<sub>2</sub>-Responsive Nanoparticles as a Theranostics for Thrombosed Vessels</a>	A thrombus (blood clot) is formed in injured vessels to maintain the integrity of vasculature.
June 01, 2017	<a href="#">Lanthanide-integrated supramolecular polymeric nanoassembly with multiple regulation characteristics for multidrug-resistant cancer therapy</a>	Cancer treatment can in principle be enhanced by the synergistic effects of chemo- and nucleic acid-based combination therapies but the lack of efficacy
May 31, 2017	<a href="#">Marriage of Albumin-Gadolinium Complexes and MoS<sub>2</sub> Nanoflakes as Cancer Theranostics for Dual-Modality Magnetic Resonance/Photoacoustic Imaging and Photothermal Therapy</a>	The construction of safe and stable theranostics is beneficial to realize simultaneous cancer diagnosis and treatment.
May 01, 2017	<a href="#">Orthogonal near-infrared upconversion co-regulated site-specific O<sub>2</sub> delivery and photodynamic therapy for hypoxia tumor by using red blood cell microcarriers</a>	Pre-existing hypoxia in tumors can result in an inadequate oxygen supply during photodynamic therapy (PDT), which in turn hampers photodynamic efficacy

April 01, 2017	<a href="#">In vivo photoacoustics and high frequency ultrasound imaging of mechanical high intensity focused ultrasound (HIFU) ablation</a>	The thermal effect of high intensity focused ultrasound (HIFU) has been clinically exploited over a decade, while the mechanical HIFU is still largely
March 24, 2017	<a href="#">Phase-Transition Nanodroplets for Real-Time Photoacoustic/Ultrasound Dual-Modality Imaging and Photothermal Therapy of Sentinel Lymph Node in Breast Cancer</a>	Pathological status of lymph nodes (LNs) plays a critical role in staging and treatment for the patients with breast cancer.
March 01, 2017	<a href="#">Photoacoustic signal characterization of cancer treatment response: Correlation with changes in tumor oxygenation</a>	Frequency analysis of the photoacoustic radiofrequency signals and oxygen saturation estimates were used to monitor the in-vivo response of a novel, t
February 01, 2017	<a href="#">Ultrasound-guided spectral photoacoustic imaging of hemoglobin oxygenation during development</a>	Few technologies are capable of imaging in vivo function during development.
January 24, 2017	<a href="#">Theranostic Liposomes with Hypoxia-Activated Prodrug to Effectively Destruct Hypoxic Tumors Post-Photodynamic Therapy</a>	Photodynamic therapy (PDT), a noninvasive cancer therapeutic method triggered by light, would lead to severe tumor hypoxia after treatment.
January 20, 2017	<a href="#">Core-shell and co-doped nanoscale metal-organic particles (NMOPs) obtained via post-synthesis cation exchange for multimodal imaging and synergistic thermo-radiotherapy</a>	Nanoscale metal-organic particles (NMOPs) have recently shown great promise in the area of nanomedicine owing to their tunable compositions, highly en
January 12, 2017	<a href="#">Real-Time Monitoring of Placental Oxygenation during Maternal Hypoxia and Hyperoxygenation Using Photoacoustic Imaging</a>	PURPOSE: This preclinical study aimed to evaluate placental oxygenation in pregnant rats by real-time photoacoustic (PA) imaging on different days of
January 01, 2016	<a href="#">Self-assembly of semiconducting-plasmonic gold nanoparticles with enhanced optical property for photoacoustic imaging and photothermal therapy</a>	Although various noble metal and semiconducting molecules have been developed as photoacoustic (PA) agents, the use of semiconducting polymer-metal na
January 01, 2016	<a href="#">Photoacoustic-Guided Surgery with Indocyanine Green-Coated Superparamagnetic Iron Oxide Nanoparticle Clusters</a>	A common cause of local tumor recurrence in brain tumor surgery results from incomplete surgical resection.
January 01, 2016	<a href="#">Copper Sulfide Perfluorocarbon Nanodroplets as Clinically Relevant Photoacoustic/Ultrasound Imaging Agents</a>	We have developed laser-activated perfluorocarbon nanodroplets containing copper sulfide nanoparticles (CuS NPs) for contrast-enhanced ultrasound and
January 01, 2016	<a href="#">Ultra-small Iron-Gallic Acid Coordination Polymer Nanoparticles for Chelator-free Labeling of <sup>64</sup>Cu and Multimodal Imaging-guided Photothermal Therapy</a>	Cancer nanotechnology has become the hot topic nowadays.
January 01, 2016	<a href="#">Enhanced photothermal therapy of biomimetic polypyrrole nanoparticles through improving blood flow perfusion</a>	In this study, we reported a strategy to improve delivery efficiency of a long-circulation biomimetic photothermal nanoagent for enhanced photothermal
January 01, 2016	<a href="#">Hemispherical photoacoustic imaging of myocardial infarction: in vivo detection and monitoring</a>	Objectives: This study aimed to demonstrate the capacity for noninvasive localisation and characterisation of myocardial infarction (MI) in vivo using
January 01, 2016	<a href="#">Two-Dimensional Tantalum Carbide (MXenes) Composite Nanosheets for Multiple Imaging-Guided Photothermal Tumor Ablation</a>	MXenes, an emerging family of graphene- analogues two-dimensional (2D) materials, have attracted continuous and tremendous attention in many applicati

January 01, 2016	<a href="#">Oxygenation Status in Chronic Leg Ulcer After Topical Hemoglobin Application May Act as a Surrogate Marker to Find the Best Treatment Strategy and to Avoid Ineffective Conservative Long-term Therapy</a>	Purpose: Chronic leg ulcers can be a challenge to treat and long-term therapy a significant cost factor in western public health budgets.
January 01, 2016	<a href="#">What is new in nanoparticle-based photoacoustic imaging?</a>	Photoacoustic imaging combines the high temporal and spatial resolution of ultrasound with the good contrast and spectral tuning of optical imaging.
January 01, 2016	<a href="#">Albumin-Templated Manganese Dioxide Nanoparticles for Enhanced Radioisotope Therapy</a>	Although nanoparticle-based drug delivery systems have been widely explored for tumor-targeted delivery of radioisotope therapy (RIT), the hypoxia zon
January 01, 2016	<a href="#">Chelator-Free and Biocompatible Melanin Nanoplatform with Facile-Loading Gadolinium and Copper-64 for Bioimaging</a>	Development of a chelator-free and biocompatible platform for the facile construction of gadolinium <sup>3+</sup> (Gd <sup>3+</sup> )-loaded nanoparticle based probes for in
January 01, 2016	<a href="#">A Theranostic Nanoplatform: Triple-Model Imaging Guided Synergistic Cancer Therapy Based on Liposomes Conjugated Mesoporous Silica Nanoparticles</a>	Mesoporous silica nanoparticles (MSNs) have long since been investigated to provide a versatile drug-delivery platform due to their multitudinous meri
January 01, 2016	<a href="#">Energy-Absorbing and Local Plasmonic Nanodiamond/Gold Nanocomposites for Sustained and Enhanced Photoacoustic Imaging</a>	Photoacoustic (PA) imaging is a laser-mediated optical ultrasound-based visualization that allows imaging of optical energy absorbers in deep tissue,
January 01, 2016	<a href="#">Spatiotemporal Optoacoustic Mapping of Tumor Hemodynamics in a Clinically Relevant Orthotopic Rabbit Model of Head and Neck Cancer</a>	The purpose of this study was to investigate the usefulness of photoacoustic imaging (PAI) for spatiotemporal mapping of tumor hemodynamics in a rabbi
January 01, 2016	<a href="#">A triple-synergistic strategy for combinational photo/radiotherapy and multi-modality imaging based on hyaluronic acid-hybridized polyaniline-coated WS 2 nanodots</a>	In this study, we report a strategy for integrating hyaluronic acid (HA), polyaniline (PANI), WS2 nanodots (WS2), and chlorin e6 (Ce6) into a single n
January 01, 2016	<a href="#">Molecularly Engineered Theranostic Nanoparticles for Thrombosed Vessels: H2O2-Activatable Contrast-Enhanced Photoacoustic Imaging and Antithrombotic Therapy</a>	A thrombus (blood clot), composed mainly of activated platelets and fibrin, obstructs arteries or veins, leading to various life-threatening diseases.
January 01, 2016	<a href="#">Image Monitoring of the Impaired Phagocytic Activity of Kupffer Cells and Liver Oxygen Saturation in a Mouse Cholangitis Model Using Contrast-Enhanced Ultrasound Imaging and Photoacoustic Imaging</a>	Bile duct ligation (BDL) can cause cholangitis, which is known to induce impaired Kupffer cell (KC) function and increased oxygen consumption in a mou
January 01, 2016	<a href="#">High-intensity focused ultrasound-triggered nanoscale bubble-generating liposomes for efficient and safe tumor ablation under photoacoustic imaging monitoring</a>	High-intensity focused ultrasound (HIFU) is widely applied to tumors in clinical practice due to its minimally invasive approach.
January 01, 2016	<a href="#">Tumor vasculature normalization by orally fed erlotinib to modulate the tumor microenvironment for enhanced cancer nanomedicine and immunotherapy</a>	The abnormal tumor vasculature is one of key reasons that lead to the limited tumor perfusion as well as hypoxic and immunosuppressive tumor microenvi
January 01, 2016	<a href="#">Proteoglycan-targeting applied to hypoxia-activated prodrug therapy in chondrosarcoma: first proof-of-concept</a>	Due to its abundant chondrogenic matrix and hypoxic tissue, chondrosarcoma is chemo- and radio-resistant.
January 01, 2016	<a href="#">Red blood cell membrane-camouflaged melanin nanoparticles for enhanced photothermal therapy</a>	Photothermal therapy (PTT) has represented a promising noninvasive approach for cancer treatment in recent years.



January 01, 2016	<a href="#">Visualizing Changes in Cdkn1c Expression Links Early-Life Adversity to Imprint Mis-regulation in Adults</a>	Imprinted genes are regulated according to parental origin and can influence embryonic growth and metabolism and confer disease susceptibility.
January 01, 2016	<a href="#">Black hollow silicon oxide nanoparticles as highly efficient photothermal agents in the second near-infrared window for in vivo cancer therapy</a>	Semiconductor nanoparticles with localized surface plasmon resonance (LSPR) have gained increasing interest due to their potential for use in nanomedicine
January 01, 2016	<a href="#">Photoacoustic Imaging of Embryonic Stem Cell-Derived Cardiomyocytes in Living Hearts with Ultrasensitive Semiconducting Polymer Nanoparticles</a>	Human embryonic stem cell-derived cardiomyocytes (hESC-CMs) have become promising tools to repair injured hearts.
January 01, 2016	<a href="#">Reactive Oxygen Species (ROS)-Responsive Nanomedicine for RNAi Cancer Therapy</a>	Although much effort has been dedicated to the development of efficient siRNA delivery for cancer therapy, delivery nanomaterials that can particularly
January 01, 2016	<a href="#">Non-invasive monitoring of the therapeutic response in sorafenib-treated hepatocellular carcinoma based on photoacoustic imaging</a>	PURPOSE: We investigated the changes of tissue oxygen saturation (sO <sub>2</sub> ) in sorafenib-treated HCC (hepatocellular carcinoma) mouse models using photoacoustic
January 01, 2016	<a href="#">CuS-Based Theranostic Micelles for NIR-Controlled Combination Chemotherapy and Photothermal Therapy and Photoacoustic Imaging</a>	Cancer remains a major threat to human health due to low therapeutic efficacies of currently available cancer treatment options.
January 01, 2016	<a href="#">Highly versatile SPION encapsulated PLGA nanoparticles as photothermal ablaters of cancer cells and as multimodal imaging agents</a>	We have designed versatile polymeric nanoparticles with cancer cell specific targeting capabilities via aptamer conjugation after the successful encapsulation
January 01, 2016	<a href="#">Photoacoustic Imaging of Human Mesenchymal Stem Cells Labeled with Prussian Blue–Poly(L-lysine) Nanocomplexes</a>	Acoustic imaging is affordable and accessible without ionizing radiation.
January 01, 2016	<a href="#">Engineered Zn(II)-dipicolylamine-gold nanorod provides effective prostate cancer treatment by combining siRNA delivery and photothermal therapy</a>	Combination cancer treatment has emerged as a critical approach to achieve remarkable anticancer effect.
January 01, 2016	<a href="#">Polyaniline-loaded γ-polyglutamic acid nanogels as a platform for photoacoustic imaging-guided tumor photothermal therapy</a>	We report the facile synthesis of polyaniline (PANI)-loaded γ-polyglutamic acid (γ-PGA) nanogels (NGs) for photoacoustic (PA) imaging-guided photothermal
January 01, 2016	<a href="#">Seeding density is a crucial determinant for the in vivo vascularisation capacity of adipose tissue-derived microvascular fragments</a>	© 2017, AO Research Institute. All rights reserved.
January 01, 2016	<a href="#">Bottom-up synthesis of WS<sub>2</sub> nanosheets with synchronous surface modification for imaging guided tumor regression</a>	Two-dimensional transition metal dichalcogenides (TMDs) have been receiving great attention as NIR photothermal transducing agent in tumor phototherapy
January 01, 2016	<a href="#">BSA-Bioinspired Gadolinium Hybrid-Functionalized Hollow Gold Nanoshells for NIRF/PA/CT/MR Quadmodal Diagnostic Imaging-Guided Photothermal/Photodynamic Cancer Therapy</a>	Multimodal imaging guided synergistic therapy promises more accurate diagnosis and higher therapeutic efficiency than single imaging modality or their
January 01, 2016	<a href="#">Propofol (2,6-diisopropylphenol) is an applicable immersion anesthetic in the axolotl with potential uses in hemodynamic and neurophysiological experiments</a>	The Mexican axolotl ( <i>Ambystoma mexicanum</i> ) is an important model species in regenerative biology.

January 01, 2016	<a href="#">Optical clearing and fluorescence deep-tissue imaging for 3D quantitative analysis of the brain tumor microenvironment</a>	© 2017 The Author(s) Background: Three-dimensional visualization of the brain vasculature and its interactions with surrounding cells may shed light o
January 01, 2016	<a href="#">Limiting the protein corona: A successful strategy for in vivo active targeting of anti-HER2 nanobody-functionalized nanostars</a>	Gold nanoparticles hold great promise as anti-cancer theranostic agents against cancer by actively tar- geting the tumor cells.
January 01, 2016	<a href="#">Can photoacoustic imaging quantify surface-localized J-aggregating nanoparticles?</a>	We investigate the feasibility of photoacoustic (PA) imaging to quantify the concentration of surface- localized nanoparticles, using tissue-mimicking
January 01, 2016	<a href="#">A feasibility study of photoacoustic imaging of ex vivo endoscopic mucosal resection tissues from Barrett's esophagus patients</a>	Background and study aims Accurate endoscopic detec- tion of dysplasia in patients with Barrett's esophagus (BE) remains a major clinical challenge.
January 01, 2016	<a href="#">Rational Design of Branched Nanoporous Gold Nanoshells with Enhanced Physico-Optical Properties for Optical Imaging and Cancer Therapy</a>	Reported procedures on the synthesis of gold nanoshells with smooth surfaces have merely demonstrated efficient control of shell thickness and particl
January 01, 2016	<a href="#">Phase Transition Nanoparticles as Multimodality Contrast Agents for the Detection of Thrombi and for Targeting Thrombolysis: In Vitro and in Vivo Experiments</a>	Thrombotic disease is extremely harmful to human health, and early detection and treatment can improve the prognosis and reduce mortality.
November 21, 2016	<a href="#">Skeletonization algorithm-based blood vessel quantification using in vivo 3D photoacoustic imaging</a>	Blood vessels are the only system to provide nutrients and oxygen to every part of the body.
November 11, 2016	<a href="#">Photoacoustic Imaging for the Detection of Hypoxia in the Rat Femoral Artery and Skeletal Muscle Microcirculation</a>	Photoacoustic (PA) imaging is an emerging technology that combines structural and functional imaging of tissues using laser and ultrasound energy.
October 12, 2016	<a href="#">Ultrasound Triggered Tumor Oxygenation with Oxygen-Shuttle Nanoperfluorocarbon to Overcome Hypoxia-Associated Resistance in Cancer Therapies</a>	Tumor hypoxia is known to be one of critical reasons that limit the efficacy of cancer therapies, particularly photodynamic therapy (PDT) and radiothe
September 01, 2016	<a href="#">Tunable, biodegradable gold nanoparticles as contrast agents for computed tomography and photoacoustic imaging</a>	Gold nanoparticles (AuNP) have been proposed for many applications in medicine.
August 17, 2016	<a href="#">A Multimodal Imaging Approach for Longitudinal Evaluation of Bladder Tumor Development in an Orthotopic Murine Model</a>	Bladder cancer is the fourth most common malignancy amongst men in Western industrial- ized countries with an initial response rate of 70% for the non
August 01, 2016	<a href="#">Functional Flow Patterns and Static Blood Pooling in Tumors Revealed by Combined Contrast-Enhanced Ultrasound and Photoacoustic Imaging</a>	Alterations in tumor perfusion and microenvironment have been shown to be associated with aggressive cancer phenotypes, raising the need for noninvasi
August 01, 2016	<a href="#">Multifunctional polyelectrolyte microcapsules as a contrast agent for photoacoustic imaging in blood</a>	The polyelectrolyte microcapsules that can be accurate either visualized in biological media or in tissue would enhance their further in vivo applic
August 01, 2016	<a href="#">Photoacoustic Imaging in Oncology: Translational Preclinical and Early Clinical Experience</a>	Photoacoustic imaging has evolved into a clinically translatable platform with the potential to complement existing imaging techniques for the managem

July 28, 2016	<a href="#">Contrast agents for molecular photoacoustic imaging</a>	Photoacoustic imaging (PAI) is an emerging tool that bridges the traditional depth limits of ballistic optical imaging and the resolution limits of di
July 21, 2016	<a href="#">Photoacoustic Imaging of Mesenchymal Stem Cells in Living Mice via Silica-Coated Gold Nanorods</a>	Improved imaging modalities are critically needed for optimizing stem cell therapy.
July 21, 2016	<a href="#">Phototheranostic Porphyrin Nanoparticles Enable Visualization and Targeted Treatment of Head and Neck Cancer in Clinically Relevant Models</a>	Head and neck cancer is the fifth most common type of cancer worldwide and remains challenging for effective treatment due to the proximity to critica
July 01, 2016	<a href="#">Simultaneous assessment of red blood cell aggregation and oxygen saturation under pulsatile flow using high-frequency photoacoustics</a>	In the present paper, the optical wavelength dependence on the photoacoustic (PA) assessment of the pulsatile blood flow was investigated by means of
June 29, 2016	<a href="#">Graphene Meets Microbubbles: A Superior Contrast Agent for Photoacoustic Imaging</a>	Coupling graphene with a soft polymer surface offers the possibility to build hybrid constructs with new electrical, optical, and mechanical propertie
June 20, 2016	<a href="#">Preclinical efficacy of bevacizumab with CRLX101, an investigational nanoparticle-drug conjugate, in treatment of metastatic triple-negative breast cancer</a>	VEGF-pathway targeting antiangiogenic drugs, such as bevacizumab, when combined with chemotherapy have changed clinical practice for the treatment of
June 15, 2016	<a href="#">Narrow Absorption NIR Wavelength Organic Nanoparticles Enable Multiplexed Photoacoustic Imaging</a>	Photoacoustic (PA) imaging is an emerging hybrid optical- ultrasound based imaging technique that can be used to visualize optical absorbers in deep t
June 08, 2016	<a href="#">Gold Nanoparticle Coated Carbon Nanotube Ring with Enhanced Raman Scattering and Photothermal Conversion Property for Theranostic Applications</a>	We report a new type of carbon nanotube ring (CNTR) coated with gold nanoparticles (CNTR@AuNPs) using CNTR as a template and surface attached redox-ac
June 06, 2016	<a href="#">Photoacoustic imaging of angiogenesis in a subcutaneous islet transplant site in a murine model</a>	Islet transplantation (IT) is an established clinical therapy for select patients with type-1 diabetes.
April 12, 2016	<a href="#">High Resolution Ultrasound and Photoacoustic Imaging of Orthotopic Lung Cancer in Mice: New Perspectives for Onco-Pharmacology</a>	Objectives: We have developed a relevant preclinical model associated with a specific imaging protocol dedicated to onco-pharmacology studies in mice.
March 01, 2016	<a href="#">Cuffing-based photoacoustic flowmetry in humans in the optical diffusive regime</a>	Measuring blood flow speed in the optical diffusive re- gime in humans has been a long standing challenge for photoacoustic tomography.
February 01, 2016	<a href="#">Monitoring Prostate Tumor Growth in an Orthotopic Mouse Model Using Three-Dimensional Ultrasound Imaging Technique</a>	Prostate cancer (CaP) is the most commonly diagnosed and the second leading cause of death from cancer in males in USA.
January 01, 2015	<a href="#">Multifunctional Fe3O4 @ Au core/shell nanostars: a unique platform for multimode imaging and photothermal therapy of tumors</a>	We herein report the development of multifunctional folic acid (FA)-targeted Fe3O4 @ Au nanostars (NSs) for targeted multi-mode magnetic resonance (MR

January 01, 2015	<a href="#">Multimodal near-infrared-emitting PluS Silica nanoparticles with fluorescent , photoacoustic , and photothermal capabilities</a>	Purpose: The aim of the present study was to develop nanoprobe with theranostic features, including – at the same time – photoacoustic, near-infrared
January 01, 2015	<a href="#">Photoacoustic imaging of real-time oxygen changes in chronic leg ulcers after topical application of a haemoglobin spray: a pilot study</a>	Objective: To use a non-invasive measurement of oxygen saturation in chronic leg ulcers after the application of a topical haemoglobin spray to invest
January 01, 2015	<a href="#">Porphyrin Nanodroplets: Sub-micrometer Ultrasound and Photoacoustic Contrast Imaging Agents</a>	Ultrasound offers significant potential as a molecular imaging modality when imaging microbubble agents owing to single-bubble sensitivity.
January 01, 2015	<a href="#">Stable J-aggregation enabled dual photoacoustic and fluorescence nanoparticles for intraoperative cancer imaging</a>	J-aggregates display nanoscale optical properties which enable their use in fluorescence and photo-acoustic imaging applications.
January 01, 2015	<a href="#">Multi-Wavelength Photoacoustic Visualization of High Intensity Focused Ultrasound Lesions</a>	High intensity focused ultrasound (HIFU) thermal therapies are limited by deficiencies in existing image-guidance techniques.
January 01, 2015	<a href="#">Accelerated Blood Clearance Phenomenon Reduces the Passive Targeting of PEGylated Nanoparticles in Peripheral Arterial Disease</a>	Peripheral arterial disease (PAD) is a leading global health concern.
January 01, 2015	<a href="#">Dual-enhanced photothermal conversion properties of reduced graphene oxide-coated gold superparticles for light-triggered acoustic and thermal theranostics</a>	A rational design of highly efficient photothermal agents that possess excellent light-to-heat conversion properties is a fascinating topic in nanotechnology
January 01, 2015	<a href="#">Plasmonic fluorescent CdSe/Cu<sub>2</sub>S hybrid nanocrystals for multichannel imaging and cancer directed photo-thermal therapy</a>	A simple, crude <i>Jatropha curcas</i> (JC) oil-based synthesis approach, devoid of any toxic phosphine and pyrophoric ligands, to produce size and shape tun
January 01, 2015	<a href="#">Photoacoustic monitoring of tumor and normal tissue response to radiation</a>	Hypoxia is a recognized characteristic of tumors that influences efficacy of radiotherapy (RT).
January 01, 2015	<a href="#">Ultrasound-guided photoacoustic imaging for the selective detection of EGFR-expressing breast cancer and lymph node metastases</a>	We assessed the use of ultrasound (US)-guided photoacoustic imaging (PAI) and anti-EGFR antibody-conjugated gold nanorods (anti-EGFR-GNs) to non-inva
January 01, 2015	<a href="#">Quantitative photoacoustic elastography in humans</a>	We report quantitative photoacoustic elastography (QPAE) capable of measuring Young's modulus of biological tissue in vivo in humans.
January 01, 2015	<a href="#">Re-assessing the enhanced permeability and retention effect in peripheral arterial disease using radiolabeled long circulating nanoparticles</a>	Abstract As peripheral arterial disease (PAD) results in muscle ischemia and neovascularization, it has been claimed that nanoparticles can passively
January 01, 2015	<a href="#">Chlorosome-Inspired Synthesis of Templated Metallochlorin-Lipid Nanoassemblies for Biomedical Applications</a>	Chlorosomes are vesicular light-harvesting organelles found in photosynthetic green sulfur bacteria.
January 01, 2015	<a href="#">Long circulating reduced graphene oxide-iron oxide nanoparticles for efficient tumor targeting and multimodality imaging</a>	Polyethylene glycol (PEG) surface modification is one of the most widely used approaches to improve the solubility of inorganic nanoparticles, prevent

December 21, 2015	<a href="#">Folding Up of Gold Nanoparticle Strings into Plasmonic Vesicles for Enhanced Photoacoustic Imaging</a>	The stepwise self-assembly of hollow plasmonic vesicles with vesicular membranes containing strings of gold nanoparticles (NPs) is reported.
November 01, 2015	<a href="#">Handheld photoacoustic probe to detect both melanoma depth and volume at high speed in vivo</a>	In the United States, Black infants have significantly worse birth outcomes than White infants.
November 01, 2015	<a href="#">Label-free Detection of Lymph Node Metastases with US-guided Functional Photoacoustic Imaging</a>	Summary: Photoacoustic imaging imparts the ability to distinguish materials according to their differences in optical absorption (ie, their color) w
October 27, 2015	<a href="#">Tumor-Specific Formation of Enzyme-Instructed Supramolecular Self-Assemblies as Cancer Theranostics</a>	Despite the effort of developing various nanodelivery systems, most of them suffer from undesired high uptakes by the reticuloendothelial system, such
October 21, 2015	<a href="#">Validating tyrosinase homologue melA as a photoacoustic reporter gene for imaging Escherichia coli</a>	To understand the pathogenic processes for infectious bacteria, appropriate research tools are required for replicating and characterizing infections.
September 22, 2015	<a href="#">Sequential Drug Release and Enhanced Photothermal and Photoacoustic Effect of Hybrid Reduced Graphene Oxide-Loaded Ultrasmall Gold Nanorod Vesicles for Cancer Therapy</a>	We report a hybrid reduced graphene oxide (rGO)-loaded ultrasmall plasmonic gold nanorod vesicle (rGO-AuNRVe) (~65 nm in size) with remarkably amplifi
September 01, 2015	<a href="#">Photoacoustic imaging of salivary glands</a>	In this work, we utilized photoacoustic imaging (PAI) with co-registered ultrasound (US) to non-invasively assess salivary gland function in vivo.
August 12, 2015	<a href="#">In vivo photoacoustic flowmetry at depths of the diffusive regime based on saline injection</a>	We propose a saline injection-based method to quantify blood flow velocity in vivo with acoustic-resolution photoacoustic tomography.
July 01, 2015	<a href="#">Prophylactic Edaravone Prevents Transient Hypoxic-Ischemic Brain Injury</a>	Background and Purpose—Hypoperfusion-induced thrombosis is an important mechanism for postsurgery stroke and cognitive decline, but there are no per
June 23, 2015	<a href="#">Determination of biodistribution of ultrasmall, near-infrared emitting gold nanoparticles by photoacoustic and fluorescence imaging</a>	This study compares fluorescence and photoacoustic (PA) imaging of ex vivo tumors and organs from tumor-bearing mice injected intravenously with ultra
June 01, 2015	<a href="#">Combined Ultrasound and Photoacoustic Imaging to Noninvasively Assess Burn Injury and Selectively Monitor a Regenerative Tissue-Engineered Construct</a>	Current biomedical imaging tools have limitations in accurate assessment of the severity of open and deep burn wounds involving excess bleeding and se
May 01, 2015	<a href="#">Parts per billion detection of uranium with a porphyrinoid-containing nanoparticle and in vivo photoacoustic imaging</a>	In the United States, Black infants have significantly worse birth outcomes than White infants.
April 01, 2015	<a href="#">Photoacoustic Imaging of Vascular Hemodynamics: Validation with Blood Oxygenation Level-Dependent MR Imaging</a>	Purpose To noninvasively assess vascular hemodynamics with photoacoustic imaging (PAI) and blood oxygenation level-dependent (BOLD) magnetic resonance

March 30, 2015	<a href="#">In situ conversion of porphyrin microbubbles to nanoparticles for multimodality imaging</a>	Converting nanoparticles or monomeric compounds into larger supramolecular structures by endogenous <sup>1,2</sup> or external <sup>3,4</sup> stimuli is increasingly popular
March 17, 2015	<a href="#">2H,3H-Decafluoropentane-Based Nanodroplets: New Perspectives for Oxygen Delivery to Hypoxic Cutaneous Tissues</a>	Perfluoropentane (PFP)-based oxygen-loaded nanobubbles (OLNBs) were previously proposed as adjuvant therapeutic tools for pathologies of different e
January 01, 2015	<a href="#">Protein-based photothermal theranostics for imaging-guided cancer therapy</a>	The development of imageable photothermal theranostics has attracted considerable attention for imaging guided photothermal therapy (PTT) with high tu
January 01, 2015	<a href="#">Prediction of Tumor Recurrence and Therapy Monitoring Using Ultrasound-Guided Photoacoustic Imaging</a>	Selection and design of individualized treatments remains a key goal in cancer therapeutics; prediction of response and tumor recurrence following a g
January 01, 2015	<a href="#">Multi-stimuli responsive Cu<sub>2</sub>S nanocrystals as trimodal imaging and synergistic chemo-photothermal therapy agents</a>	A size and shape tuned, multifunctional metal chalcogenide, Cu <sub>2</sub> S-based nanotheranostic agent is developed for trimodal imaging and multimodal therap
January 01, 2015	<a href="#">Nanoparticle Probes for Structural and Functional Photoacoustic Molecular Tomography</a>	Nowadays, nanoparticle probes have received extensive attention largely due to its potential biomedical applications in structural, functional, and mo
January 01, 2015	<a href="#">Comparison of Photoacoustically Derived Hemoglobin and Oxygenation Measurements with Contrast-Enhanced Ultrasound Estimated Vascularity and Immunohistochemical Staining in a Breast Cancer Model</a>	In this preliminary study, we compared two noninvasive techniques for imaging intratumoral physiological conditions to immunohistochemical staining in
January 01, 2015	<a href="#">Gold nanoparticles for photoacoustic imaging.</a>	Photoacoustic (PA) imaging is a biomedical imaging modality that provides functional information regarding the cellular and molecular signatures of ti
January 01, 2015	<a href="#">Design of hybrid MnO<sub>2</sub>-polymer-lipid nanoparticles with tunable oxygen generation rates and tumor accumulation for cancer treatment</a>	Manganese dioxide (MnO <sub>2</sub> ) nanoparticles (NPs) were discovered in previous work to be effective in improving tumor oxygenation (hypoxia) and reducing
December 23, 2014	<a href="#">Linear-array-based photoacoustic imaging of human microcirculation with a range of high frequency transducer probes</a>	Photoacoustic imaging (PAI) with a <a href="#">linear-array-based probe</a> ca
November 07, 2014	<a href="#">Photoacoustic Tomography of Human Hepatic Malignancies Using Intraoperative Indocyanine Green Fluorescence Imaging</a>	Recently, fluorescence imaging following the preoperative intravenous injection of indocyanine green has been used in clinical settings to identify he
October 29, 2014	<a href="#">Transferring Biomarker into Molecular Probe: Melanin Nanoparticle as a Naturally Active Platform for Multimodality Imaging</a>	Developing multifunctional and easily prepared nanoplatfoms with integrated different modalities is highly challenging for molecular imaging.
October 01, 2014	<a href="#">Dye-Loaded Ferritin Nanocages for Multimodal Imaging and Photothermal Therapy</a>	Multimodal imaging-guided photothermal therapy (PTT), for the therapy of cancer, based on a ferritin (FRT) nanocage loaded with the near-infrared dye
October 01, 2014	<a href="#">Sentinel Lymph Node Biopsy Revisited: Ultrasound-Guided Photoacoustic Detection of Micrometastases Using Molecularly Targeted Plasmonic Nanosensors</a>	Metastases rather than primary tumors are responsible for killing most patients with cancer.

September 10, 2014	<a href="#">A dual gold nanoparticle system for mesenchymal stem cell tracking</a>	Stem cell-based therapies have demonstrated improved outcomes in preclinical and clinical trials for treating cardiovascular ischemic diseases.
September 01, 2014	<a href="#">Cellulose nanoparticles are a biodegradable photoacoustic contrast agent for use in living mice</a>	Molecular imaging with photoacoustic ultrasound is an emerging field that combines the spatial and temporal resolution of ultrasound with the contrast
August 26, 2014	<a href="#">Stimuli-Responsive Photoacoustic Nanoswitch for in Vivo Sensing Applications</a>	Photoacoustic imaging provides high-resolution images at depths beyond the optical diffusion limit.
July 06, 2014	<a href="#">Non-invasive multimodal functional imaging of the intestine with frozen micellar naphthalocyanines</a>	There is a need for safer and improved methods for non-invasive imaging of the gastrointestinal tract.
June 17, 2014	<a href="#">Multi-wavelength photoacoustic imaging of inducible tyrosinase reporter gene expression in xenograft tumors</a>	Photoacoustic imaging is an emerging hybrid imaging technology capable of breaking through resolution limits of pure optical imaging technologies impo
June 01, 2014	<a href="#">Contrast-enhanced magneto-photo-acoustic imaging in vivo using dual-contrast nanoparticles</a>	By mapping the distribution of targeted plasmonic nanoparticles (NPs), photoacoustic (PA) imaging offers the potential to detect the pathologies in th
May 01, 2014	<a href="#">Multimodal Ultrasound-Photoacoustic Imaging of Tissue Engineering Scaffolds and Blood Oxygen Saturation In and Around the Scaffolds</a>	Preclinical, noninvasive imaging of tissue engineering polymeric scaffold structure and/or the physiological processes such as blood oxygenation remai
April 22, 2014	<a href="#">Multifunctional Albumin-MnO<sub>2</sub> Nanoparticles Modulate Solid Tumor Microenvironment by Attenuating Hypoxia, Acidosis, Vascular Endothelial Growth Factor and Enhance Radiation Response</a>	Insufficient oxygenation (hypoxia), acidic pH (acidosis), and elevated levels of reactive oxygen species (ROS), such as H <sub>2</sub> O <sub>2</sub> , are characteristic abnor
April 16, 2014	<a href="#">Aggregate Enhanced Trimodal Porphyrin Shell Microbubbles for Ultrasound, Photoacoustic, and Fluorescence Imaging</a>	Microbubbles (MBs) are currently used as ultrasound (US) contrast agents and as delivery vehicles for site-specific US-triggered drug and gene deliver
March 01, 2014	<a href="#">Ultrasound-guided photoacoustic imaging: current state and future development</a>	Photoacoustic imaging, frequently coregistered with ultrasonic imaging, can provide functional and cellular/molecular information about tissue within
January 28, 2014	<a href="#">Indocyanine Green-Loaded Photoacoustic Nanodroplets: Dual Contrast Nanoconstructs for Enhanced Photoacoustic and Ultrasound Imaging</a>	Recently, perfluorocarbon (PFC) nanodroplets were introduced as contrast agents for imaging and image-guided therapy.
January 26, 2014	<a href="#">Semiconducting polymer nanoparticles as photoacoustic molecular imaging probes in living mice</a>	Photoacoustic (PA) imaging holds great promise for the visualization of physiology and pathology at the molecular level with deep tissue penetration a
January 01, 2014	<a href="#">Real-Time Assessment of Tissue Hypoxia In Vivo with Combined Photoacoustics and High-Frequency Ultrasound</a>	In preclinical cancer studies, non-invasive functional imaging has become an important tool to assess tumor development and therapeutic effects.
January 01, 2014	<a href="#">Dual In Vivo Photoacoustic and Fluorescence Imaging of Assessment, and Surgical Guidance</a>	Biomarker-specific imaging probes offer ways to improve molecular diagnosis, intraoperative margin assessment, and tumor resection.
January 01, 2014	<a href="#">Detection of Melanoma Metastases in Resected Human Lymph Nodes by Noninvasive Multispectral Photoacoustic Imaging</a>	Objective .

January 01, 2014	<a href="#">Active curcumin nanoparticles formed from a volatile microemulsion template</a>	Mitochondria targeted phototherapy, including photodynamic therapy (PDT) and photothermal therapy (PTT), has excelled as an effective approach among o
December 26, 2013	<a href="#">Imaging of an Inflammatory Injury in the Newborn Rat Brain with Photoacoustic Tomography</a>	BACKGROUND: The precise assessment of cerebral saturation changes during an inflammatory injury in the developing brain, such as seen in periventricul
November 15, 2013	<a href="#">Silica-coated gold nanoplates as stable photoacoustic contrast agents for sentinel lymph n[1] G. P. Luke, A. Bashyam, K. a Homan, S. Makhija, Y.-S. Chen, and S. Y. Emelianov, "Silica-coated gold nanoplates as stable photoacoustic contrast agents for senti</a>	A biopsy of the first lymph node to which a tumor drains-the sentinel lymph node (SLN)-is commonly performed to identify micrometastases.
November 01, 2013	<a href="#">In vitro and in vivo mapping of drug release after laser ablation thermal therapy with doxorubicin-loaded hollow gold nanoshells using fluorescence and photoacoustic imaging</a>	Doxorubicin-loaded hollow nanoshells (Dox@PEG-HAuNS) increases the efficacy of photothermal ablation (PTA) by not only mediating efficient PTA but als
November 01, 2013	<a href="#">Development and optimization of near-IR contrast agents for immune cell tracking</a>	Gold nanorods (NRs) are attractive for in vivo imaging due to their high optical cross-sections and tunable absorbance.
October 31, 2013	<a href="#">Non-invasive Monitoring of Ultrasound-Stimulated Microbubble Radiation Enhancement Using Photoacoustic Imaging</a>	Modulation of the tumour microvasculature has been demonstrated to affect the effectiveness of radiation, stimulating the search for anti-angiogenic a
September 25, 2013	<a href="#">Development and Application of Stable Phantoms for the Evaluation of Photoacoustic Imaging Instruments</a>	Photoacoustic imaging combines the high contrast of optical imaging with the spatial resolution and penetration depth of ultrasound.
July 01, 2013	<a href="#">Photoacoustic imaging of the bladder: a pilot study.</a>	Photoacoustic imaging is a promising new technology that combines tissue optical characteristics with ultrasound transmission and can potentially visu
May 07, 2013	<a href="#">Modulation of photoacoustic signal generation from metallic surfaces</a>	The ability to image metallic implants is important for medical applications ranging from diagnosis to therapy.
May 01, 2013	<a href="#">Optical wavelength selection for improved spectroscopic photoacoustic imaging</a>	Spectroscopic photoacoustic imaging has the potential to become a powerful tool that can estimate distributions of optically absorbing chromophores in
May 01, 2013	<a href="#">Development and initial application of a fully integrated photoacoustic micro-ultrasound system</a>	Photoacoustic (PA) imaging for biomedical applications has been under development for many years.
March 15, 2013	<a href="#">Molecular Photoacoustic Imaging of Follicular Thyroid Carcinoma</a>	PURPOSE: To evaluate the potential of targeted photoacoustic imaging as a noninvasive method for detection of follicular thyroid carcinoma.
March 14, 2013	<a href="#">A Spinal Cord Window Chamber Model for In Vivo Longitudinal Multimodal Optical and Acoustic Imaging in a Murine Model</a>	In vivo and direct imaging of the murine spinal cord and its vasculature using multimodal (optical and acoustic) imaging techniques could significantl
January 01, 2013	<a href="#">A versatile method for the preparation of poly-acrylamide derivative functionalized thermo-responsive gold nanoparticles</a>	Abstract: Herein we report the synthesis of a resilient nanosystem based on silica-coated magnetic MnFe <sub>2</sub> O <sub>3</sub> nanoparticles conjugated to fluorescein and



January 01, 2013	<a href="#">Tyrosinase as a multifunctional reporter gene for Photoacoustic/MRI/PET triple modality molecular imaging.</a>	Development of reporter genes for multimodality molecular imaging is highly important.
January 01, 2013	<a href="#">VEGF-loaded graphene oxide as theranostics for multi-modality imaging-monitored targeting therapeutic angiogenesis of ischemic muscle</a>	Herein we report the design and synthesis of multifunctional VEGF-loaded IR800-conjugated graphene oxide (GO-IR800-VEGF) for multi-modality imaging-mo
January 01, 2013	<a href="#">Bio-ink properties and printability for extrusion printing living cells</a>	Angiogenesis is a common pathological characteristic of many solid tumors and vulnerable atherosclerotic plaques.
November 27, 2012	<a href="#">Gold nanorods for ovarian cancer detection with photoacoustic imaging and resection guidance via Raman imaging in living mice.</a>	Improved imaging approaches are needed for ovarian cancer screening, diagnosis, staging, and resection guidance.
October 01, 2012	<a href="#">Photoacoustic Imaging for Medical Diagnostics</a>	
July 11, 2012	<a href="#">A Facile, One-Step Nanocarbon Functionalization for Biomedical Applications</a>	Despite their immense potential in biomedicine, carbon nanomaterials suffer from inefficient dispersion and biological activity in vivo.
May 16, 2012	<a href="#">In vivo Ultrasound and Photoacoustic Monitoring of Mesenchymal Stem Cells Labeled with Gold Nanotracers</a>	Longitudinal monitoring of cells is required in order to understand the role of delivered stem cells in therapeutic neovascularization.
February 09, 2012	<a href="#">Photoacoustic characterization of radiofrequency ablation lesions</a>	Radiofrequency ablation (RFA) procedures are used to destroy abnormal electrical pathways in the heart that can cause cardiac arrhythmias.
February 03, 2012	<a href="#">Biomedical Applications of Photoacoustic Imaging with Exogenous Contrast Agents</a>	Photoacoustic imaging is a biomedical imaging modality that provides functional information, and, with the help of exogenous contrast agents, cellular
January 10, 2012	<a href="#">Biomedical photoacoustics beyond thermal expansion using triggered nanodroplet vaporization for contrast-enhanced imaging</a>	Since being discovered by Alexander Bell, photoacoustics may again be seeing major resurgence in biomedical imaging.
January 01, 2011	<a href="#">VCAM-1-targeting gold nanoshell probe for photoacoustic imaging of atherosclerotic plaque in mice</a>	The development of molecular probes and novel imaging modalities, allowing better resolution and specificity, is associated with an increased potential
January 01, 2010	<a href="#">Development and Validation of a Combined Photoacoustic Micro-Ultrasound System for In Vivo Oxygen Saturation Estimation</a>	Photoacoustic (PA) Imaging can estimate the spatial distribution of oxygen saturation (sO <sub>2</sub> ) and total hemoglobin concentration (HbT) in blood, and be