

Radiology 256 (1), 102-110

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photoacoustic tomography photoacoustic microscopy ultrasound-modulated optical tomography optical coherence tomography

TITLE	CITED BY	YEAR
Gold nanocages covered by smart polymers for controlled release with near-infrared light MS Yavuz, Y Cheng, J Chen, CM Cobley, Q Zhang, M Rycenga, J Xie, Nature materials 8 (12), 935	1158	2009
Porphysome nanovesicles generated by porphyrin bilayers for use as multimodal biophotonic contrast agents JF Lovell, CS Jin, E Huynh, H Jin, C Kim, JL Rubinstein, WCW Chan, Nature materials 10 (4), 324	790	2011
In vivo photoacoustic tomography of chemicals: high-resolution functional and molecular optical imaging at new depths C Kim, C Favazza, LV Wang Chemical reviews 110 (5), 2756-2782	547	2010
In Vivo Molecular Photoacoustic Tomography of Melanomas Targeted by Bioconjugated Gold Nanocages C Kim, EC Cho, J Chen, KH Song, L Au, C Favazza, Q Zhang, CM Cobley, ACS nano 4 (8), 4559-4564	394	2010
Near-infrared gold nanocages as a new class of tracers for photoacoustic sentinel lymph node mapping on a rat model KH Song, C Kim, CM Cobley, Y Xia, LV Wang Nano letters 9 (1), 183-188	360	2008
Non-invasive multimodal functional imaging of the intestine with frozen micellar naphthalocyanines Y Zhang, M Jeon, LJ Rich, H Hong, J Geng, Y Zhang, S Shi, TE Barnhart, Nature nanotechnology 9 (8), 631	218	2014
Deeply penetrating in vivo photoacoustic imaging using a clinical ultrasound array system C Kim, TN Erpelding, L Jankovic, MD Pashley, LV Wang Biomedical optics express 1 (1), 278-284	211	2010
Sentinel lymph nodes in the rat: noninvasive photoacoustic and US imaging with a clinical US system TN Erpelding, C Kim, M Pramanik, L Jankovic, K Maslov, Z Guo,	208	2010

TITLE	CITED BY	YEAR
Gold nanocages: a novel class of multifunctional nanomaterials for theranost applications J Chen, M Yang, Q Zhang, EC Cho, CM Cobley, C Kim, C Glaus, Advanced Functional Materials 20 (21), 3684-3694	ic 200	2010
Sentinel lymph nodes and lymphatic vessels: noninvasive dual-modality in vivo mapping by using indocyanine green in rats—volumetric spectroscopic photoacoustic imaging and C Kim, KH Song, F Gao, LV Wang Radiology 255 (2), 442-450	181	2010
Noninvasive photoacoustic and fluorescence sentinel lymph node identification using dye-loaded perfluorocarbon nanoparticles WJ Akers, C Kim, M Berezin, K Guo, R Fuhrhop, GM Lanza, GM Fischer, ACS nano 5 (1), 173-182	166	2010
Porphyrin shell microbubbles with intrinsic ultrasound and photoacoustic properties E Huynh, JF Lovell, BL Helfield, M Jeon, C Kim, DE Goertz, BC Wilson, Journal of the American Chemical Society 134 (40), 16464-16467	151	2012
Noninvasive in vivo spectroscopic nanorod-contrast photoacoustic mapping of sentinel lymph nodes KH Song, C Kim, K Maslov, LV Wang European journal of radiology 70 (2), 227-231	of 135	2009
Hexamodal imaging with porphyrin-phospholipid-coated upconversion nanoparticles J Rieffel, F Chen, J Kim, G Chen, W Shao, S Shao, U Chitgupi, Advanced Materials 27 (10), 1785-1790	126	2015
Handheld array-based photoacoustic probe for guiding needle biopsy of sentinel lymph nodes C Kim, TN Erpelding, KI Maslov, L Jankovic, WJ Akers, L Song, S Achilefu, Journal of biomedical optics 15 (4), 046010	113	2010
Measuring the optical absorption cross sections of Au- Ag nanocages and au nanorods by photoacoustic imaging EC Cho, C Kim, F Zhou, CM Cobley, KH Song, J Chen, ZY Li, LV Wang, The Journal of Physical Chemistry C 113 (21), 9023-9028	u 109	2009
Au–Cu <sub>2–x</sub> Se Heterodimer Nanoparticles with Broad Localized Surface Plasmon Resonance as Contrast Agents for Deep Tissue Imaging X Liu, C Lee, WC Law, D Zhu, M Liu, M Jeon, J Kim, PN Prasad, C Kim, Nano letters 13 (9), 4333-4339	108	2013
Gold nanocages covered with thermally-responsive polymers for controlled release by high-intensity focused ultrasound W Li, X Cai, C Kim, G Sun, Y Zhang, R Deng, M Yang, J Chen, S Achilefu, Nanoscale 3 (4), 1724-1730	108	2011

TITLE	CITED BY	YEAR
Pulsed ultrasound-modulated optical tomography using spectral-hole burning as a narrowband spectral filter Y Li, H Zhang, C Kim, KH Wagner, P Hemmer, LV Wang Applied physics letters 93 (1), 011111	100	2008
Multifunctional microbubbles and nanobubbles for photoacoustic and ultrasound imaging C Kim, R Qin, JS Xu, LV Wang, RX Xu Journal of biomedical optics 15 (1), 010510	93	2010