

Peer-reviewed TriTom Publications

March 2024

- [1] I. B. Belyaev *et al.*, "Laser-Synthesized Germanium Nanoparticles as Biodegradable Material for Near-Infrared Photoacoustic Imaging and Cancer Phototherapy," *Adv Sci.* 2307060, 2024, [doi: 10.1002/advs.202307060](https://doi.org/10.1002/advs.202307060).
- [2] R. M. Cam, C. Wang, W. Thompson, S. A. Ermilov, M. A. Anastasio, and U. Villa, "Spatiotemporal Image Reconstruction to Enable High-Frame Rate Dynamic Photoacoustic Tomography with Rotating-Gantry Volumetric Imagers," ArXiv, 2023, [doi: 10.48550/arXiv.2310.00529](https://doi.org/10.48550/arXiv.2310.00529).
- [3] K. Huda, D. J. Lawrence, W. Thompson, S. H. Lindsey, and C. L. Bayer, "In vivo noninvasive systemic myography of acute systemic vasoactivity in female pregnant mice," *Nature Communications*, vol. 14, no. 1, 2023, [doi: 10.1038/s41467-023-42041-8](https://doi.org/10.1038/s41467-023-42041-8).
- [4] V. D. Vincely and C. L. Bayer, "Functional photoacoustic imaging for placental monitoring: A mini review," *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, pp. 1-1, 2023, [doi: 10.1109/tuffc.2023.3263361](https://doi.org/10.1109/tuffc.2023.3263361).
- [5] W. R. Thompson *et al.*, "Characterizing a photoacoustic and fluorescence imaging platform for preclinical murine longitudinal studies," *J. Biomed. Opt.*, vol. 28, no. 3, p. 036001, 2023, [doi: 10.1117/1.JBO.28.3.036001](https://doi.org/10.1117/1.JBO.28.3.036001).
- [6] M. Delcroix, A. Reddy Marri, S. Parant, P. C. Gros, and M. Bouché, "Water-soluble Fe(II) complexes for theranostic application: Synthesis, photoacoustic imaging and photothermal conversion," *Eur. J. Inorg. Chem.*, vol. 26, no. 27, 2023, [doi: 10.1002/ejic.202300138](https://doi.org/10.1002/ejic.202300138).
- [7] S. Singh *et al.*, "Size-tunable ICG-based contrast agent platform for targeted near-infrared photoacoustic imaging," *Photoacoustics*, vol. 29, p. 100437, 2023, [doi: 10.1016/j.pacs.2022.100437](https://doi.org/10.1016/j.pacs.2022.100437).
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- [9] J. Kim, A. M. Yu, K. P. Kubelick, and S. Y. Emelianov, "Gold nanoparticles conjugated with DNA aptamer for photoacoustic detection of human matrix metalloproteinase-9," *Photoacoustics*, vol. 25, p. 100307, 2022, [doi: 10.1016/j.pacs.2021.100307](https://doi.org/10.1016/j.pacs.2021.100307).
- [10] M. R. Chetyrkina *et al.*, "Carbon Nanotube Microscale Fiber Grid as an Advanced Calibration System for Multispectral Optoacoustic Imaging," *ACS Photonics*, vol. 9, no. 10, pp. 3429-3439, 2022, [doi: 10.1021/acsp Photonics.2c01074](https://doi.org/10.1021/acsp Photonics.2c01074).
- [11] M. D. Mokrousov *et al.*, "Indocyanine green dye based bimodal contrast agent tested by photoacoustic/fluorescence tomography setup," *Biomed. Opt. Express*, vol. 12, no. 6, p. 3181, 2021, [doi: 10.1364/boe.419461](https://doi.org/10.1364/boe.419461).
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