

# Stanford

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### Publications

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#### PUBLICATIONS

- **Sonogenetic control of multiplexed genome regulation and base editing.** *Nature communications*  
Liu, P., Foiret, J., Situ, Y., Zhang, N., Kare, A. J., Wu, B., Raie, M. N., Ferrara, K. W., Qi, L. S.  
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- **PET imaging of focused-ultrasound enhanced delivery of AAVs into the murine brain.** *Theranostics*  
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- **Fast volumetric ultrasound facilitates high-resolution 3D mapping of tissue compartments.** *Science advances*  
Park, E. Y., Cai, X., Foiret, J., Bendjador, H., Hyun, D., Fite, B. Z., Wodnicki, R., Dahl, J. J., Boutin, R. D., Ferrara, K. W.  
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- **Large Array Deep Abdominal Imaging in Fundamental and Harmonic Mode.** *IEEE transactions on ultrasonics, ferroelectrics, and frequency control*  
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- **Erratum to "Highly Integrated Multiplexing and Buffering Electronics for Large Aperture Ultrasonic Arrays".** *BME frontiers*  
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- **Row-Multiplexed 1,024 Element Large Aperture Array for Electronic Scanning in Elevation**  
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- **A theranostic 3D ultrasound imaging system for high resolution image-guided therapy.** *Theranostics*  
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- **Optimization of microbubble-based DNA vaccination with low-frequency ultrasound for enhanced cancer immunotherapy.** *Advanced therapeutics*  
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- **Synergies between therapeutic ultrasound, gene therapy and immunotherapy in cancer treatment.** *Advanced drug delivery reviews*  
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- **Optimization of Microbubble-Based DNA Vaccination with Low-Frequency Ultrasound for Enhanced Cancer Immunotherapy** *ADVANCED THERAPEUTICS*

- Zhang, N., Foiret, J., Kheirloomoom, A., Liu, P., Feng, Y., Tumbale, S., Raie, M., Wu, B., Wang, J., Fite, B. Z., Dai, Z., Ferrara, K. W.  
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- **Estimation of Tissue Attenuation from Ultrasonic B-Mode Images-Spectral-Log-Difference and Method-of-Moments Algorithms Compared** *SENSORS*  
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  - **Modular Large Array for Liver Cancer Imaging in Handheld Form Factor**  
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  - **Development of thermosensitive resiquimod-loaded liposomes for enhanced cancer immunotherapy.** *Journal of controlled release : official journal of the Controlled Release Society*  
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  - **Low-frequency ultrasound-mediated cytokine transfection enhances T cell recruitment at local and distant tumor sites.** *Proceedings of the National Academy of Sciences of the United States of America*  
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  - **Combining activatable nanodelivery with immunotherapy in a murine breast cancer model** *JOURNAL OF CONTROLLED RELEASE*  
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● **3D monitoring and control of microbubble cavitation for gene delivery**

Cai, X., Foiret, J., Roth, J., Gazit, Z., Pelled, G., Gazit, D., Ferrara, K. W., IEEE  
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● **Tiled Large Element 1.75D Aperture with Dual Array Modules by Adjacent Integration of PIN-PMN-PT Transducers and Custom High Voltage Switching ASICs**

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