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MAJOR RESEARCH INTERESTS

- Bioelectronics
- Biomedical Engineering
- Electromagnetics

SELECTED PUBLICATIONS

- [1] A. Bansal, F. Yang, T. Xi, Z. Yong, J. S. Ho, "In vivo wireless photonic photodynamic therapy," PNAS, in press
- [2] Z. Dong, F. Yang, J. S. Ho, "Enhanced electromagnetic energy harvesting with subwavelength chiral structures," Physical Review Applied, 8, 044026 (2017)
- [3] T. Chang, Y. Tanabe, C. C. Wojcik, A. C. Barksdale, S. Doshay, Z. Dong, H. Liu, M. Zhang, Y. Chen, Y. Su, T. H. Lee, J. S. Ho, and J. A. Fan, "A general strategy for stretchable microwave antenna systems using serpentine mesh layouts," Advanced Functional Materials, 1703059 (2017)
- [4] D. R. Agrawal, Y. Tanabe, D. Weng, S. Liao, Z. Zhen, Z. Zhu, C. Sun, Z. Dong, F. Yang, H. F. Tse, A. S. Y. Poon, and J. S. Ho, "Conformal phased surfaces for wireless powering of bioelectronic microdevices," Nature Biomedical Engineering, 1, 0043 (2017)
- [5] K. Montgomery*, A. J. Yeh*, J. S. Ho, V. Tsao, S. M. Iyer, L. Grosenick, E. A. Ferenczi, Y. Tanabe, K. Deisseroth, S. L. Delp, and A. S. Y. Poon, "Wirelessly powered, fully internal optogenetics for brain, spinal, and peripheral circuits in mice," Nature Methods, 12, 969-974 (2015).
- [6] J. S. Ho, Y. Tanabe, S. M. Iyer, A. J. Christensen, L. Grosenick, K. Deisseroth, S. L. Delp, and A. S. Y. Poon, "Self-tracking energy transfer for neural stimulation in untethered mice," Physical Review Applied, 4, 024001 (2015).
- [7] J. S. Ho*, A. J. Yeh*, E. Neofytou, S. Kim, Y. Tanabe, B. Patlolla, R. E. Beygui, and A. S. Y. Poon, "Wireless power transfer to deep-tissue microimplants ", PNAS, 111, 7974-7979 (2014).